

This Permit Expires One Year From the Date of Issue

APPLICANTJOHN WEBBPHONE754-6508

ADDRESS488SW SHEPPARD WAYLAKE CITYFL32024

OWNERAHMI M. FRANZWAPHONE770 595-6373

ADDRESS677SW INFINITY PLACELAKE CITYFL32024

CONTRACTORAHMI M. FRANZWAPHONE770 595-6373

LOCATION OF PROPERTY47S, TL ON 240, TR ON OLD WIRE RD, TL ON INFINITY PLACE,  
LAST PLACE AT END OF ROAD

TYPE DEVELOPMENTSFD,UTILITYESTIMATED COST OF CONSTRUCTION70400.00

HEATED FLOOR AREA1408.00TOTAL AREA1927.00HEIGHTSTORIES1

FOUNDATIONCONCWALLSFRAMEDROOF PITCH4/12FLOORSLAB

LAND USE & ZONINGA-3MAX. HEIGHT14

Minimum Set Back Requirments:STREET-FRONT0.00REAR25.00SIDE25.00

NO. EX.D.U.0FLOOD ZONEXDEVELOPMENT PERMIT NO.

PARCEL ID24-5S-16-03707-034SUBDIVISIONGREAT SOUTH TIMBER

LOT9ABLOCKPHASEUNITTOTAL ACRES

000001264

Culvert Permit No.Culvert WaiverContractor's License NumberApplicant/Owner/Contractor

WAIVER06-0869-NBKJHY

Driveway ConnectionSeptic Tank NumberLU & Zoning checked byApproved for IssuanceNew Resident

COMMENTS: ONE FOOT ABOVE THE ROAD, NOC ON FILE

Check # or Cash165

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Powerdate/app. byFoundationdate/app. byMonolithicdate/app. by

Under slab rough-in plumbingdate/app. bySlabdate/app. bySheathing/Nailingdate/app. by

Framingdate/app. byRough-in plumbing above slab and below wood floordate/app. by

Electrical rough-indate/app. byHeat & Air Ductdate/app. byPeri. beam (Lintel)date/app. by

Permanent powerdate/app. byC.O. Finaldate/app. byCulvertdate/app. by

M/H tie downs, blocking, electricity and plumbingdate/app. byPooldate/app. by

Reconnectiondate/app. byPump poledate/app. byUtility Poledate/app. by

M/H Poledate/app. byTravel Trailerdater/app. byRe-roofdate/app. by

BUILDING PERMIT FEE \$355.00CERTIFICATION FEE \$9.63SURCHARGE FEE \$9.63

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

FLOOD DEVELOPMENT FEE \$FLOOD ZONE FEE \$25.00CULVERT FEE \$TOTAL FEE449.26

INSPECTORS OFFICECLERKS OFFICE

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

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

This Permit Must Be Prominently Posted on Premises During Construction

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

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

# Columbia County Building Permit Application

164  
165

**For Office Use Only** Application # 0610-48 Date Received \_\_\_\_\_ By \_\_\_\_\_ Permit # 1264/25264

Application Approved by - Zoning Official BLK Date 30.11.06 Plans Examiner OK JTH Date 10-30-06

Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3

Comments 386-754-6508 CONTACT NUMBER SITE PLAN ON PRINTS

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

488 SW Sheppard Way 32024 John Webb (Grandfather 754-365-0502)

Name Authorized Person Signing Permit Ahmi M. FRANZWA (Granddaughter 6508) Phone 770-595-6373 Cell

Address 677 SW 129 FRANCES Way, CARTERSVILLE, GA. 30120

Owners Name Ahmi M. FRANZWA Phone 770-595-6373

911 Address 677 SW INFINITY Pl., LAKE CITY, FL. 32024

Contractors Name Owner Builder Phone \_\_\_\_\_

Address \_\_\_\_\_

Fee Simple Owner Name & Address SAME

Bonding Co. Name & Address NA

Architect/Engineer Name & Address MARK DISOSWAY P.E. Teena M. Ruffo

Mortgage Lenders Name & Address NA

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

Property ID Number 24-55-16-03707-009 034 Estimated Cost of Construction 42,500

Subdivision Name GREAT South Timber Lot 9A Block \_\_\_\_\_ Unit \_\_\_\_\_ Phase \_\_\_\_\_

Driving Directions My 90 W To S. ON 41 To S. ON 47.5 To 0.75 ON 240 To S. ON Old Wire Rd To E. ON INFINITY Pl. To last place on end of road

Type of Construction SFD/UTILITY Number of Existing Dwellings on Property 1

Total Acreage 5 Lot Size \_\_\_\_\_ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 360' Side 110' Side 307' Rear 120'

Total Building Height 14 Number of Stories 1 Heated Floor Area 1408 Roof Pitch 4/12

Total 1927

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

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

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

Ahmi Franzwa  
Owner Builder or Authorized Person by Notarized Letter

STATE OF FLORIDA  
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me  
this 25 day of October 2006  
Personally known \_\_\_\_\_ or Produced Identification ☒

Contractor Signature \_\_\_\_\_  
Contractors License Number \_\_\_\_\_  
Contractors Card Number \_\_\_\_\_  
NOTARY STAMP/SEAL  
JULY 11 2010  
Christi M. Surin  
Notary Signature  
(Revised Sept. 2006)

## LETTER OF AUTHORIZATION

Date: 10-31-06

Columbia County Building Department  
P.O. Box 1529  
Lake City, FL 32056

I Ahmi M. FRANZWA, License No. 066221408 do hereby  
Authorize John P. Webb to pull and sign permits on my  
behalf.

Sincerely,

Ahmi FranzwaSworn to and subscribed before me this 31 day of October, 2005Notary Public: Christie McSwainMy commission expires: July 11, 2010

Personally Known \_\_\_\_\_

Produced Valid Identification: Drivers License

NOTICE OF COMMENCEMENT FORM  
COLUMBIA COUNTY, FLORIDA

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

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

Tax Parcel ID Number R03707-009

PERMIT NUMBER \_\_\_\_\_

1. Description of property: (legal description of the property and street address or 911 address)  
24-55-16-03707-009 488 SW Sheppard Way (Back 5 ac. off Infinity Pl.)  
911 Address - 677 SW Infinity Pl.  
Lake City, Fl. 32024
2. General description of Improvement: NEW CONSTRUCTION of home
3. Owner Name & Address Ahmi M. FRANZWA 29 FRANCES Way, CARTERSVILLE, GA. 30120  
Interest in Property 100 %
4. Name & Address of Fee Simple Owner (if other than owner): NA
5. Contractor Name Ahmi M. FRANZWA Phone Number 770-595-6373  
Address 29 FRANCES Way, CARTERSVILLE, GA. 30120
6. Surety Holders Name NA Phone Number \_\_\_\_\_  
Address \_\_\_\_\_  
Amount of Bond \_\_\_\_\_
7. Lender Name NA Phone Number \_\_\_\_\_  
Address \_\_\_\_\_
8. Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 718.13 (1)(a) 7; Florida Statutes:  
Name None Phone Number \_\_\_\_\_  
Address \_\_\_\_\_
9. In addition to himself/herself the owner designates \_\_\_\_\_ of \_\_\_\_\_ to receive a copy of \_\_\_\_\_  
(a) 7. Phone Number of the designee \_\_\_\_\_ Inst:2006026422 Date:11/07/2006 Time:11:46
10. Expiration date of the Notice of Commencement (th \_\_\_\_\_ DC, P. DeWitt Cason, Columbia County B:1101 P:946  
(Unless a different date is specified) \_\_\_\_\_

**NOTICE AS PER CHAPTER 713, Florida Statutes:**

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

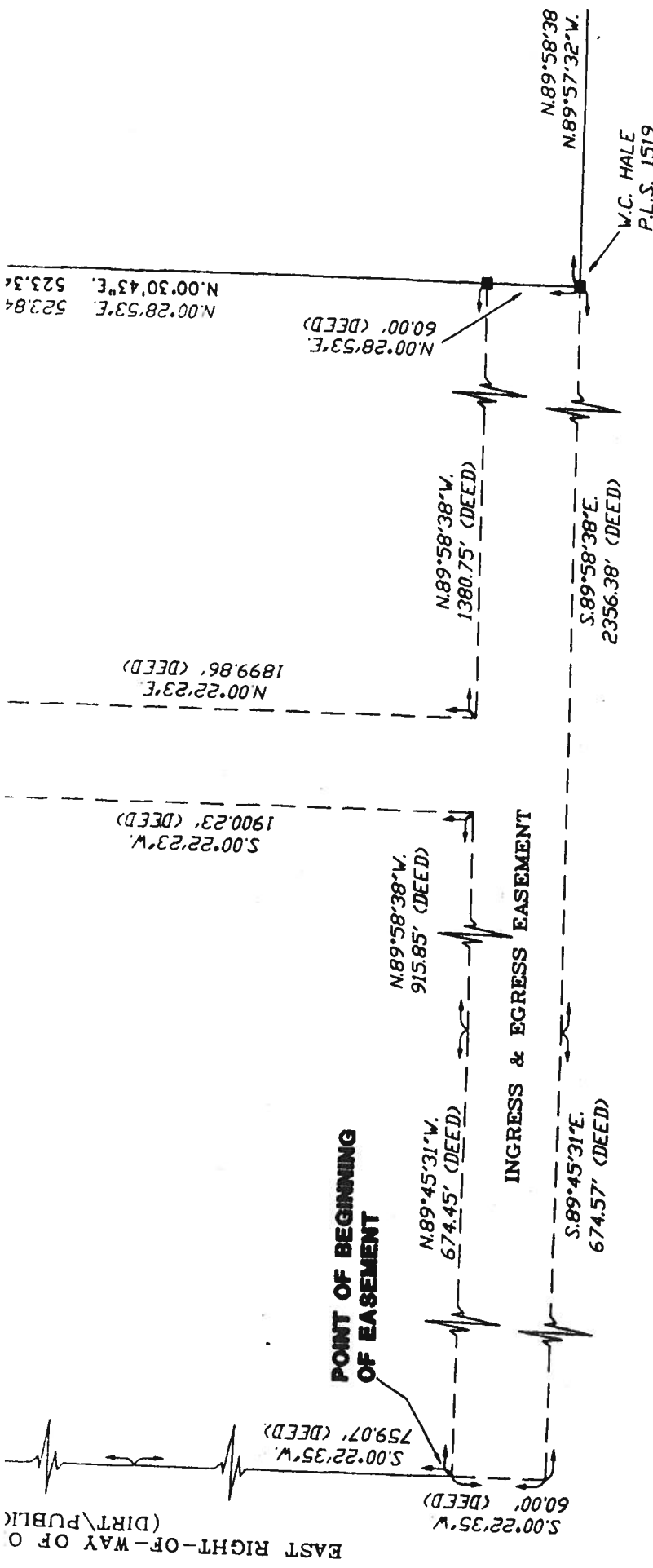
X Ahmi Franzwa  
Signature of Owner

Sworn to (or affirmed) and subscribed before  
day of October 25, 2006

NOTARY STAMP/SEAL



Christie McSwain  
Signature of Notary



**DESCRIPTION**

PART OF THE N 1/2 OF THE SE 1/4 OF SECTION 24, TOWNSHIP 5 SOUTH, RANGE 16 EAST, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCE AT THE SOUTHEAST CORNER OF SAID SECTION 24, AND RUN THENCE N.89°30'55\"W., ALONG THE SOUTH LINE OF SECTION 24, A DISTANCE OF 1345.14 FEET TO THE WEST LINE OF SHEPARD ROAD A 40 FOOT COUNTY MAINTAINED ROAD; THENCE RUN N.01°19'57\"E., ALONG THE WEST RIGHT-OF-WAY LINE A DISTANCE OF 697.93 FEET; THENCE RUN N.02°07'47\"E., STILL ALONG SAID WEST RIGHT-OF-WAY LINE A DISTANCE OF 980.68 FEET; THENCE RUN N.89°58'38\"W., 455.87 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE N.89°58'38\"W., 417.87 FEET; THENCE N.00°28'53\"E., 523.84 FEET; THENCE S.89°17'20\"E., 417.86 FEET; THENCE S.00°28'53\"W., 518.82 FEET TO THE POINT OF BEGINNING. CONTAINING 5.00 ACRES, MORE OR LESS.

TOGETHER WITH AN EASEMENT FOR INGRESS AND EGRESS MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCE AT THE NW CORNER OF THE S 1/2 OF NW 1/4, SECTION 24, TOWNSHIP 5 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA AND RUN THENCE S.89°45'31\"E., ALONG THE NORTH LINE OF SAID S 1/2 OF NW 1/4, 39.43 FEET TO THE EAST RIGHT-OF-WAY LINE OF OLD WIRE ROAD WEST; THENCE S.00°05'07\"W., ALONG SAID EAST RIGHT-OF-WAY LINE, 1505.49 FEET; THENCE S.00°22'35\"W., ALONG SAID EAST RIGHT-OF-WAY LINE, 759.07 FEET TO THE SOUTHWEST CORNER OF LOT 7 OF PARADISE SOUTH A SUBDIVISION AS RECORDED IN PLAT BOOK 6, PAGES 67 & 67A, AND THE POINT OF BEGINNING; THENCE CONTINUE S.00°22'35\"W., ALONG SAID EAST RIGHT-OF-WAY LINE, 60.00 FEET TO THE NORTHWEST CORNER OF LOT 8, PARADISE SOUTH; THENCE S.89°45'31\"E., ALONG THE NORTH LINE OF SAID LOT 8, 674.57 FEET TO THE NORTHEAST CORNER OF SAID LOT 8; THENCE S.89°58'38\"E., 2356.38 FEET; THENCE N.00°28'53\"E., 60.00 FEET; THENCE N.89°58'38\"W., 1380.75 FEET; THENCE N.00°22'23\"E., 1899.86 FEET; THENCE N.89°37'37\"W., 60.00 FEET; THENCE S.00°22'23\"W., 1900.23 FEET; THENCE N.89°58'38\"W., 915.85 FEET TO THE SOUTHEAST CORNER OF SAID LOT 7, PARADISE SOUTH; THENCE N.89°45'31\"W., ALONG THE SOUTH LINE OF SAID LOT 7, 674.45 FEET TO THE EAST RIGHT-OF-WAY LINE OF OLD WIRE ROAD AND THE POINT OF BEGINNING.

| SURV | BL | TH | P | IC | TH | D | IF | T | TH | P |
|------|----|----|---|----|----|---|----|---|----|---|
| 1.   | BL |    |   |    |    |   |    |   |    |   |
| 2.   | BL |    |   |    |    |   |    |   |    |   |
| 3.   | TH |    |   |    |    |   |    |   |    |   |
| 4.   | P  |    |   |    |    |   |    |   |    |   |
| 5.   | IC |    |   |    |    |   |    |   |    |   |
| 6.   | TH |    |   |    |    |   |    |   |    |   |
| 7.   | D  |    |   |    |    |   |    |   |    |   |
| 8.   | IF |    |   |    |    |   |    |   |    |   |
| 9.   | T  |    |   |    |    |   |    |   |    |   |
| 10.  | TH |    |   |    |    |   |    |   |    |   |
| 11.  | P  |    |   |    |    |   |    |   |    |   |



Attn: webbie

**Columbia County Building Department  
Culvert Waiver**

**Culvert Waiver No.  
000001264**

DATE: 11/30/2006

BUILDING PERMIT NO. 25264

APPLICANT JOHN WEBB

PHONE 754-6508

ADDRESS 488 SW SHEPPARD WAY

LAKE CITY

FL 32024

OWNER AHMI M. FRANZWA

PHONE 770 595-6373

ADDRESS 677 SW INFINITY PLACE

LAKE CITY

FL 32024

CONTRACTOR AHMI FRANZWA

PHONE 770 595-6373

LOCATION OF PROPERTY 47S, TL ON 240, TR ON OLD WIRE RD, TL ON INFINITY PLACE,

PROPERTY AT THE END OF ROAD, GO STRAIGHT AHEAD

SUBDIVISION/LOT/BLOCK/PHASE/UNIT GREAT SOUTH TIMBER

9A

PARCEL ID # 24-5S-16-03707-034

I HEREBY CERTIFY THAT I UNDERSTAND AND WILL FULLY COMPLY WITH THE DECISION OF THE COLUMBIA COUNTY PUBLIC WORKS DEPARTMENT IN CONNECTION WITH THE HEREIN PROPOSED APPLICATION.

SIGNATURE: 

A SEPARATE CHECK IS REQUIRED  
MAKE CHECKS PAYABLE TO BCC

Amount Paid 50.00

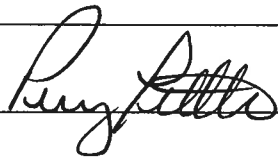
**PUBLIC WORKS DEPARTMENT USE ONLY**

I HEREBY CERTIFY THAT I HAVE EXAMINED THIS APPLICATION AND DETERMINED THAT THE CULVERT WAIVER IS:

\_\_\_\_\_  
APPROVED

\_\_\_\_\_  
NOT APPROVED - NEEDS A CULVERT PERMIT

COMMENTS: INFINITY PLACE PRIVATE

SIGNED: 

DATE: 12-2-06

ANY QUESTIONS PLEASE CONTACT THE PUBLIC WORKS DEPARTMENT AT 386-752-5955.

135 NE Hernando Ave., Suite B-21  
Lake City, FL 32055  
Phone: 386-758-1008 Fax: 386-758-2160



COPY

Quitclaim Deed 9/21/06

GRANTOR: John P. Webb 488 SW Sheppard Way, Lake City, FL 32024

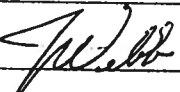
GRANTEE: Ahmi M. FRANZWA 29 Frances Way, Cartersville, GA. 30120

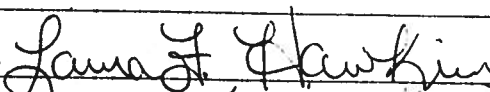
Abbreviated Legal Description: 5 ACS. West Section of Great South Timber Tr.  
03707-009 10.51 AC. Access from Infinity Pl.

Assessors Property Tax: Part of 24-58-16-03707-009

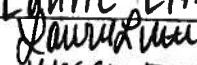
This Quitclaim Deed, executed this 21<sup>ST</sup> day of September 2006, by first party, GRANTOR, John P. Webb of 488 SW Sheppard Way, Lake City, FL, to second party, GRANTEE, Ahmi M. FRANZWA of 29 Frances Way, Cartersville, GA. 30120.

Witnesseth That the said first party AT NO charge or consideration does release and quitclaim unto the said second party, my granddaughter, forever all the right, title, interest and claim to said property.

Signed:   
John P. Webb

Witness:   
Laura F. Hawkins  
514 GWSR 47  
Lake City FL 32025

State of Florida  
County of Columbia

Lannie Little  


148 SW Donald Court Lake City, FL 32075

On 21 of September 2006 personally appeared John P Webb who produced FL ID W100-4175-40-4116-0 as identification.

Christ Hunt





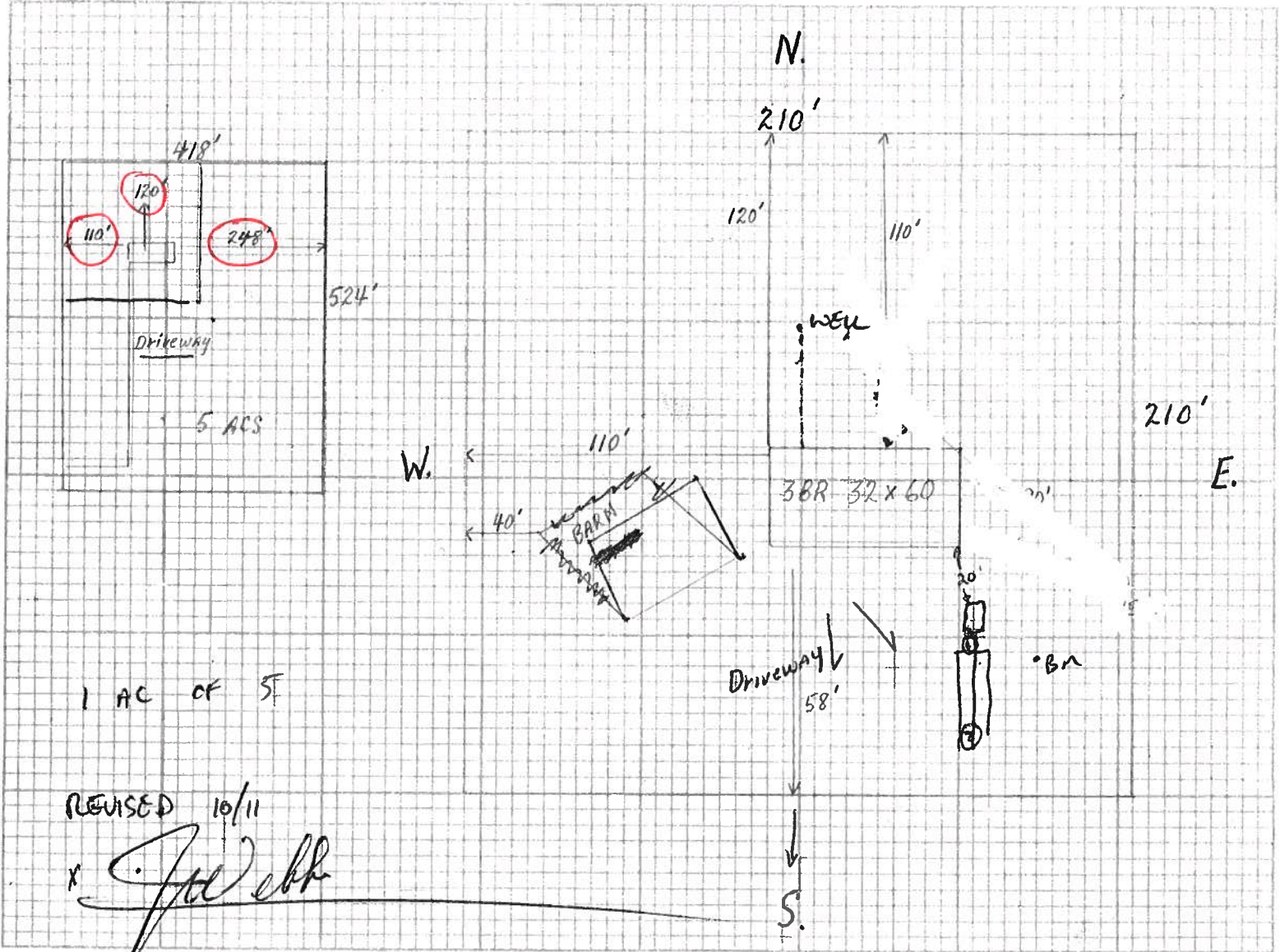
STATE OF FLORIDA  
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 06-0869N

PART II - SITE PLAN

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



Notes: 5 AC. N.W. corner of property

GREAT South Timber Sub. 24-55-16-03707-009

100' TO WELL

Site Plan submitted by: X

[Signature]

Signature

Agent

Title

Plan Approved X

APPROVED

Not Approved

Date 10/11/6

By [Signature]

Columbia CHD

County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT



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

State law requires construction to be done by licensed contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own contractor with certain restrictions even though you do not have a license. You must provide direct, onsite supervision of the construction yourself. You may build or improve a one-family or two-family residence or a farm outbuilding. You may also build or improve a commercial building, provided your costs do not exceed \$25,000. The building or residence must be for your own use or occupancy. It may not be built or substantially improved for sale or lease. If you sell or lease a building you have built or substantially improved yourself within 1 year after the construction is complete, the law will presume that you built or substantially improved it for sale or lease, which is a violation of this exemption. You may not hire an unlicensed person to act as your contractor or to supervise people working on your building. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances. You may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on your building who is not licensed must work under your direct supervision and must be employed by you, which means that you must deduct F.I.C.A. and withholding tax and provide workers' compensation for that employee, all as prescribed by law. Your construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

**TYPE OF CONSTRUCTION**

- ☒ Single Family Dwelling  
☐ Farm Outbuilding  
☐ New Construction

- ☐ Two-Family Residence  
☐ Other \_\_\_\_\_

☐ Addition, Alteration, Modification or other Improvement

**NEW CONSTRUCTION OR IMPROVEMENT**

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

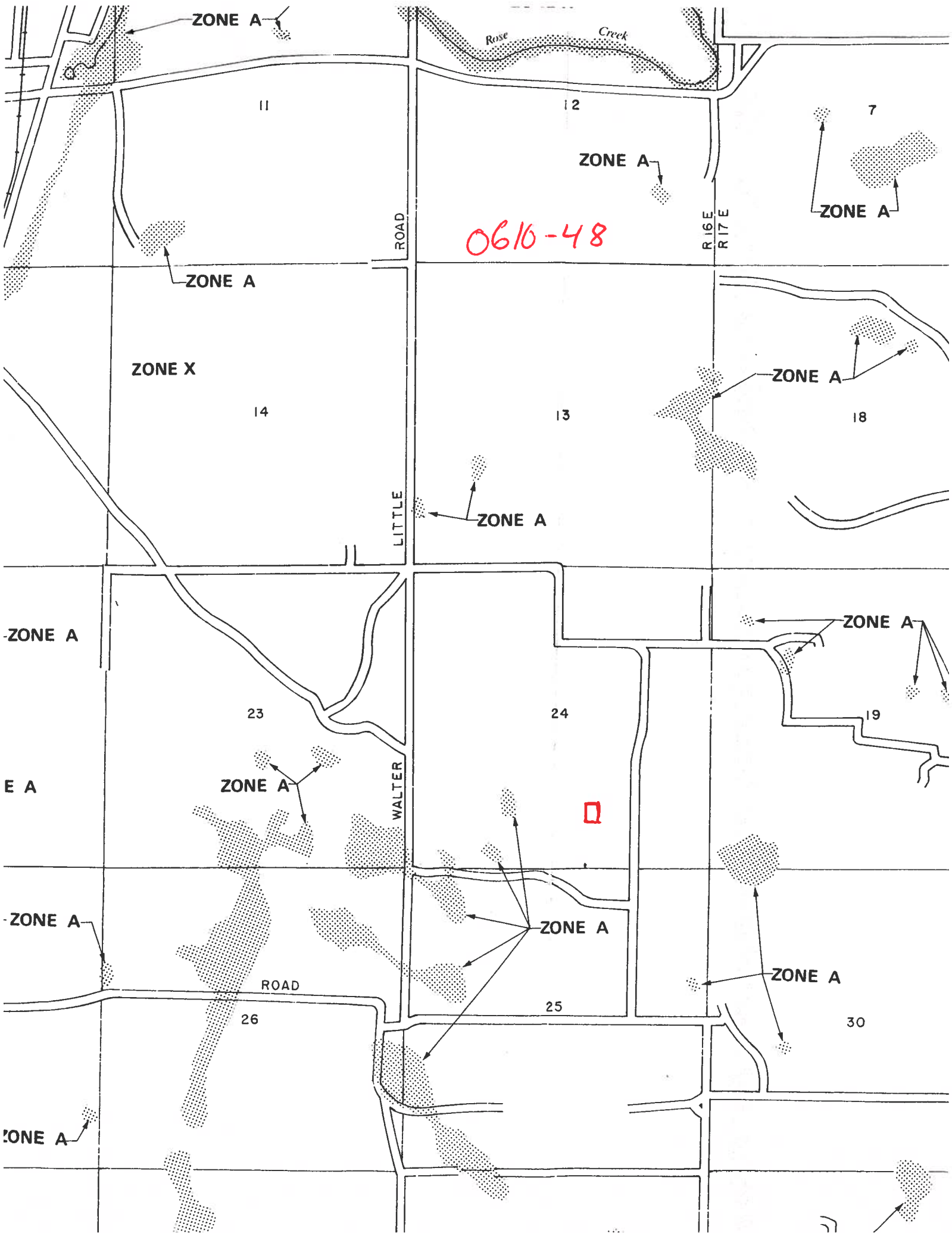
X Ahmi M. Franzwa  
Signature

X 9-23-06  
Date

**FOR BUILDING USE ONLY**

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

Date \_\_\_\_\_ Building Official/Representative \_\_\_\_\_



# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

## Florida Department of Community Affairs Residential Whole Building Performance Method A

|                                                                                                                                                                                   |                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>Project Name:</b> 609052Webb, John & Alice<br><b>Address:</b> SW Infiniti Place,<br><b>City, State:</b> , FL<br><b>Owner:</b> Webb, John & Alice<br><b>Climate Zone:</b> North | <b>Builder:</b><br><b>Permitting Office:</b><br><b>Permit Number:</b><br><b>Jurisdiction Number:</b> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. New construction or existing <span style="float: right;">New</span> <input type="checkbox"/><br>2. Single family or multi-family <span style="float: right;">Single family</span> <input type="checkbox"/><br>3. Number of units, if multi-family <span style="float: right;">1</span> <input type="checkbox"/><br>4. Number of Bedrooms <span style="float: right;">3</span> <input type="checkbox"/><br>5. Is this a worst case? <span style="float: right;">Yes</span> <input type="checkbox"/><br>6. Conditioned floor area (ft²) <span style="float: right;">1408 ft²</span> <input type="checkbox"/><br>7. Glass type <sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default)<br>a. U-factor: <span style="float: right;">Description Area</span><br>(or Single or Double DEFAULT) 7a. (Dble Default) 213.7 ft² <input type="checkbox"/><br>b. SHGC:<br>(or Clear or Tint DEFAULT) 7b. (Clear) 213.7 ft² <input type="checkbox"/><br>8. Floor types<br>a. Slab-On-Grade Edge Insulation <span style="float: right;">R=0.0, 184.0(p) ft</span> <input type="checkbox"/><br>b. N/A <input type="checkbox"/><br>c. N/A <input type="checkbox"/><br>9. Wall types<br>a. Frame, Wood, Exterior <span style="float: right;">R=13.0, 1218.3 ft²</span> <input type="checkbox"/><br>b. N/A <input type="checkbox"/><br>c. N/A <input type="checkbox"/><br>d. N/A <input type="checkbox"/><br>e. N/A <input type="checkbox"/><br>10. Ceiling types<br>a. Under Attic <span style="float: right;">R=30.0, 1408.0 ft²</span> <input type="checkbox"/><br>b. N/A <input type="checkbox"/><br>c. N/A <input type="checkbox"/><br>11. Ducts<br>a. Sup: Unc. Ret: Unc. AH: Interior <span style="float: right;">Sup. R=6.0, 160.0 ft</span> <input type="checkbox"/><br>b. N/A <input type="checkbox"/> | 12. Cooling systems<br>a. Central Unit <span style="float: right;">Cap: 33.0 kBtu/hr<br/>SEER: 13.00</span> <input type="checkbox"/><br>b. N/A <input type="checkbox"/><br>c. N/A <input type="checkbox"/><br>13. Heating systems<br>a. Electric Heat Pump <span style="float: right;">Cap: 33.0 kBtu/hr<br/>HSPF: 7.90</span> <input type="checkbox"/><br>b. N/A <input type="checkbox"/><br>c. N/A <input type="checkbox"/><br>14. Hot water systems<br>a. Electric Resistance <span style="float: right;">Cap: 40.0 gallons<br/>EF: 0.93</span> <input type="checkbox"/><br>b. N/A <input type="checkbox"/><br>c. Conservation credits<br>(HR-Heat recovery, Solar<br>DHP-Dedicated heat pump) <input type="checkbox"/><br>15. HVAC credits<br>(CF-Ceiling fan, CV-Cross ventilation,<br>HF-Whole house fan,<br>PT-Programmable Thermostat,<br>MZ-C-Multizone cooling,<br>MZ-H-Multizone heating) <input type="checkbox"/> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Glass/Floor Area: 0.15

Total as-built points: 20603

Total base points: 22675

**PASS**

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

**PREPARED BY:** Ben Smith

**DATE:** 9-15-06

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:** \_\_\_\_\_



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

# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: SW Infiniti Place,, , FL,

PERMIT #:

| BASE                                                           |          |         |                 | AS-BUILT                                                      |       |        |          |             |         |         |        |
|----------------------------------------------------------------|----------|---------|-----------------|---------------------------------------------------------------|-------|--------|----------|-------------|---------|---------|--------|
| GLASS TYPES<br>.18 X Conditioned X BSPM = Points<br>Floor Area |          |         |                 | Type/SC<br>Overhang<br>Ornt Len Hgt Area X SPM X SOF = Points |       |        |          |             |         |         |        |
| .18                                                            | 1408.0   | 20.04   | 5078.9          | Double, Clear                                                 | E     | 1.5    | 1.3      | 2.0         | 42.06   | 0.47    | 39.5   |
|                                                                |          |         |                 | Double, Clear                                                 | E     | 1.5    | 3.5      | 54.0        | 42.06   | 0.78    | 1761.6 |
|                                                                |          |         |                 | Double, Clear                                                 | E     | 1.5    | 5.5      | 45.0        | 42.06   | 0.90    | 1696.4 |
|                                                                |          |         |                 | Double, Clear                                                 | E     | 1.5    | 4.5      | 16.0        | 42.06   | 0.85    | 570.7  |
|                                                                |          |         |                 | Double, Clear                                                 | S     | 1.5    | 1.3      | 2.7         | 35.87   | 0.49    | 47.7   |
|                                                                |          |         |                 | Double, Clear                                                 | W     | 1.5    | 4.5      | 64.0        | 38.52   | 0.85    | 2094.2 |
|                                                                |          |         |                 | Double, Clear                                                 | W     | 1.5    | 5.5      | 30.0        | 38.52   | 0.90    | 1036.6 |
|                                                                |          |         |                 | As-Built Total:                                               |       |        |          | 213.7       |         | 7246.7  |        |
| WALL TYPES Area X BSPM = Points                                |          |         |                 | Type R-Value Area X SPM = Points                              |       |        |          |             |         |         |        |
| Adjacent                                                       | 0.0      | 0.00    | 0.0             | Frame, Wood, Exterior                                         |       |        | 13.0     | 1218.3      | 1.50    | 1827.5  |        |
| Exterior                                                       | 1218.3   | 1.70    | 2071.1          |                                                               |       |        |          |             |         |         |        |
| Base Total:                                                    |          | 1218.3  | 2071.1          | As-Built Total:                                               |       | 1218.3 |          | 1827.5      |         |         |        |
| DOOR TYPES Area X BSPM = Points                                |          |         |                 | Type Area X SPM = Points                                      |       |        |          |             |         |         |        |
| Adjacent                                                       | 0.0      | 0.00    | 0.0             | Exterior Insulated                                            |       |        | 40.0     | 4.10        | 164.0   |         |        |
| Exterior                                                       | 40.0     | 4.10    | 164.0           |                                                               |       |        |          |             |         |         |        |
| Base Total:                                                    |          | 40.0    | 164.0           | As-Built Total:                                               |       | 40.0   |          | 164.0       |         |         |        |
| CEILING TYPES Area X BSPM = Points                             |          |         |                 | Type R-Value Area X SPM X SCM = Points                        |       |        |          |             |         |         |        |
| Under Attic                                                    | 1408.0   | 1.73    | 2435.8          | Under Attic                                                   | 30.0  |        | 1408.0   | 1.73 X 1.00 |         | 2435.8  |        |
| Base Total:                                                    |          | 1408.0  | 2435.8          | As-Built Total:                                               |       | 1408.0 |          | 2435.8      |         |         |        |
| FLOOR TYPES Area X BSPM = Points                               |          |         |                 | Type R-Value Area X SPM = Points                              |       |        |          |             |         |         |        |
| Slab                                                           | 184.0(p) | -37.0   | -6808.0         | Slab-On-Grade Edge Insulation                                 | 0.0   |        | 184.0(p) | -41.20      | -7580.8 |         |        |
| Raised                                                         | 0.0      | 0.00    | 0.0             |                                                               |       |        |          |             |         |         |        |
| Base Total:                                                    |          | -6808.0 | As-Built Total: |                                                               | 184.0 |        | -7580.8  |             |         |         |        |
| INFILTRATION Area X BSPM = Points                              |          |         |                 | Area X SPM = Points                                           |       |        |          |             |         |         |        |
|                                                                |          | 1408.0  | 10.21           |                                                               |       |        |          | 1408.0      | 10.21   | 14375.7 |        |



# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

|                                    |           |
|------------------------------------|-----------|
| ADDRESS: SW Infiniti Place,, , FL, | PERMIT #: |
|------------------------------------|-----------|

| BASE                        |   |                   |                  | AS-BUILT                                                                                       |      |                            |       |                 |       |                   |        |                   |                  |
|-----------------------------|---|-------------------|------------------|------------------------------------------------------------------------------------------------|------|----------------------------|-------|-----------------|-------|-------------------|--------|-------------------|------------------|
| Summer Base Points: 17317.6 |   |                   |                  | Summer As-Built Points: 18468.9                                                                |      |                            |       |                 |       |                   |        |                   |                  |
| Total Summer Points         | X | System Multiplier | = Cooling Points | Total Component (System - Points)                                                              | X    | Cap Ratio (DM x DSM x AHU) | X     | Duct Multiplier | X     | System Multiplier | X      | Credit Multiplier | = Cooling Points |
| 17317.6                     |   | 0.4266            | 7387.7           | (sys 1: Central Unit 33000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)<br>18469 | 1.00 | (1.09 x 1.147 x 0.91)      | 0.263 | 1.000           |       | 5516.5            |        |                   |                  |
|                             |   |                   |                  | 18468.9                                                                                        | 1.00 |                            | 1.138 | 0.263           | 1.000 |                   | 5516.5 |                   |                  |

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: SW Infiniti Place,, , FL,

PERMIT #:

| BASE                                                           |          |       |        | AS-BUILT                      |                          |            |                           |              |       |        |        |
|----------------------------------------------------------------|----------|-------|--------|-------------------------------|--------------------------|------------|---------------------------|--------------|-------|--------|--------|
| GLASS TYPES<br>.18 X Conditioned X BWPM = Points<br>Floor Area |          |       |        | Type/SC                       | Overhang<br>Ornt Len Hgt |            | Area X WPM X WOF = Points |              |       |        |        |
| .18                                                            | 1408.0   | 12.74 | 3228.8 | Double, Clear                 | E                        | 1.5        | 1.3                       | 2.0          | 18.79 | 1.34   | 50.3   |
|                                                                |          |       |        | Double, Clear                 | E                        | 1.5        | 3.5                       | 54.0         | 18.79 | 1.09   | 1109.9 |
|                                                                |          |       |        | Double, Clear                 | E                        | 1.5        | 5.5                       | 45.0         | 18.79 | 1.04   | 880.6  |
|                                                                |          |       |        | Double, Clear                 | E                        | 1.5        | 4.5                       | 16.0         | 18.79 | 1.06   | 318.9  |
|                                                                |          |       |        | Double, Clear                 | S                        | 1.5        | 1.3                       | 2.7          | 13.30 | 3.05   | 109.5  |
|                                                                |          |       |        | Double, Clear                 | W                        | 1.5        | 4.5                       | 64.0         | 20.73 | 1.04   | 1383.3 |
|                                                                |          |       |        | Double, Clear                 | W                        | 1.5        | 5.5                       | 30.0         | 20.73 | 1.03   | 639.3  |
|                                                                |          |       |        | As-Built Total:               |                          |            |                           | 213.7        |       |        |        |
| WALL TYPES Area X BWPM = Points                                |          |       |        | Type                          | R-Value                  |            | Area X WPM = Points       |              |       |        |        |
| Adjacent                                                       | 0.0      | 0.00  | 0.0    | Frame, Wood, Exterior         | 13.0                     |            | 1218.3                    | 3.40         |       | 4142.2 |        |
| Exterior                                                       | 1218.3   | 3.70  | 4507.7 |                               |                          |            |                           |              |       |        |        |
| Base Total: 1218.3 4507.7                                      |          |       |        | As-Built Total: 1218.3        |                          |            |                           | 4142.2       |       |        |        |
| DOOR TYPES Area X BWPM = Points                                |          |       |        | Type                          |                          |            | Area X WPM = Points       |              |       |        |        |
| Adjacent                                                       | 0.0      | 0.00  | 0.0    | Exterior Insulated            |                          |            | 40.0                      | 8.40         |       | 336.0  |        |
| Exterior                                                       | 40.0     | 8.40  | 336.0  |                               |                          |            |                           |              |       |        |        |
| Base Total: 40.0 336.0                                         |          |       |        | As-Built Total: 40.0          |                          |            |                           | 336.0        |       |        |        |
| CEILING TYPESArea X BWPM = Points                              |          |       |        | Type                          | R-Value                  |            | Area X WPM X WCM = Points |              |       |        |        |
| Under Attic                                                    | 1408.0   | 2.05  | 2886.4 | Under Attic                   | 30.0                     |            | 1408.0                    | 2.05 X 1.00  |       | 2886.4 |        |
| Base Total: 1408.0 2886.4                                      |          |       |        | As-Built Total: 1408.0        |                          |            |                           | 2886.4       |       |        |        |
| FLOOR TYPES Area X BWPM = Points                               |          |       |        | Type                          | R-Value                  |            | Area X WPM = Points       |              |       |        |        |
| Slab                                                           | 184.0(p) | 8.9   | 1637.6 | Slab-On-Grade Edge Insulation | 0.0                      |            | 184.0(p)                  | 18.80        |       | 3459.2 |        |
| Raised                                                         | 0.0      | 0.00  | 0.0    |                               |                          |            |                           |              |       |        |        |
| Base Total: 1637.6                                             |          |       |        | As-Built Total: 184.0         |                          |            |                           | 3459.2       |       |        |        |
| INFILTRATION Area X BWPM = Points                              |          |       |        |                               |                          | Area X WPM |                           | = Points     |       |        |        |
| 1408.0 -0.59 -830.7                                            |          |       |        |                               |                          | 1408.0     |                           | -0.59 -830.7 |       |        |        |

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: SW Infiniti Place,, , FL,

PERMIT #:

| BASE                   |   |                      |                     | AS-BUILT                                                                                                                                    |                                       |                                             |                           |                           |                     |  |
|------------------------|---|----------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------|---------------------------|---------------------------|---------------------|--|
| Winter Base Points:    |   | 11765.8              |                     | Winter As-Built Points:                                                                                                                     |                                       |                                             | 14484.9                   |                           |                     |  |
| Total Winter<br>Points | X | System<br>Multiplier | = Heating<br>Points | Total<br>Component<br>(System - Points)                                                                                                     | X<br>Cap<br>Ratio<br>(DM x DSM x AHU) | X<br>Duct<br>Multiplier<br>(DM x DSM x AHU) | X<br>System<br>Multiplier | X<br>Credit<br>Multiplier | = Heating<br>Points |  |
| 11765.8                |   | 0.6274               | 7381.9              | (sys 1: Electric Heat Pump 33000 btuh ,EFF(7.9) Ducts:Unc(S),Unc(R),Int(AH),R6.0<br>14484.9 1.000 (1.069 x 1.169 x 0.93) 0.432 1.000 7266.4 |                                       |                                             |                           |                           |                     |  |
| 11765.8                |   | 0.6274               | 7381.9              | 14484.9                                                                                                                                     | 1.00                                  | 1.162                                       | 0.432                     | 1.000                     | 7266.4              |  |

**WATER HEATING & CODE COMPLIANCE STATUS**

## Residential Whole Building Performance Method A - Details

ADDRESS: SW Infiniti Place,, , FL,

PERMIT #:

| BASE                  |   |            |   |        | AS-BUILT        |      |                       |   |                 |                                              |
|-----------------------|---|------------|---|--------|-----------------|------|-----------------------|---|-----------------|----------------------------------------------|
| WATER HEATING         |   |            |   |        |                 |      |                       |   |                 |                                              |
| Number of<br>Bedrooms | X | Multiplier | = | Total  | Tank<br>Volume  | EF   | Number of<br>Bedrooms | X | Tank X<br>Ratio | Multiplier X<br>Credit = Total<br>Multiplier |
| 3                     |   | 2635.00    |   | 7905.0 | 40.0            | 0.93 | 3                     |   | 1.00            | 2606.67                                      |
|                       |   |            |   |        | As-Built Total: |      |                       |   |                 | 7820.0                                       |

| CODE COMPLIANCE STATUS |   |                   |   |                     |          |                 |                   |   |                   |   |                     |   |                 |
|------------------------|---|-------------------|---|---------------------|----------|-----------------|-------------------|---|-------------------|---|---------------------|---|-----------------|
| BASE                   |   |                   |   |                     | AS-BUILT |                 |                   |   |                   |   |                     |   |                 |
| Cooling<br>Points      | + | Heating<br>Points | + | Hot Water<br>Points | =        | Total<br>Points | Cooling<br>Points | + | Heating<br>Points | + | Hot Water<br>Points | = | Total<br>Points |
| 7388                   |   | 7382              |   | 7905                |          | 22675           | 5517              |   | 7266              |   | 7820                |   | 20603           |

# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: SW Infiniti Place,, , FL,

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.                                                                                                                                                                                                                                                                                                                                                                  |       |
| Additional Infiltration reqts | 606.1.ABC.1.3   | Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.                                                                                                                                                                                                                                                                                                                 |       |

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

| COMPONENTS               | SECTION      | REQUIREMENTS                                                                                                                                                                                                                       | CHECK |
|--------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Water Heaters            | 612.1        | Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked 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%.                                                     |       |
| 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.                                                                                                                                |       |



# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

**ESTIMATED ENERGY PERFORMANCE SCORE\* = 84.9**

**The higher the score, the more efficient the home.**

Webb, John & Alice, SW Infiniti Place,, , FL,

|                                                                                 |                              |                                        |                   |
|---------------------------------------------------------------------------------|------------------------------|----------------------------------------|-------------------|
| 1. New construction or existing                                                 | New                          | 12. Cooling systems                    |                   |
| 2. Single family or multi-family                                                | Single family                | a. Central Unit                        | Cap: 33.0 kBtu/hr |
| 3. Number of units, if multi-family                                             | 1                            |                                        | SEER: 13.00       |
| 4. Number of Bedrooms                                                           | 3                            | b. N/A                                 |                   |
| 5. Is this a worst case?                                                        | Yes                          | c. N/A                                 |                   |
| 6. Conditioned floor area (ft²)                                                 | 1408 ft²                     |                                        |                   |
| 7. Glass type <sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default) |                              | 13. Heating systems                    |                   |
| a. U-factor:                                                                    | Description Area             | a. Electric Heat Pump                  | Cap: 33.0 kBtu/hr |
| (or Single or Double DEFAULT)                                                   | 7a. (Dble Default) 213.7 ft² |                                        | HSPF: 7.90        |
| b. SHGC:                                                                        |                              | b. N/A                                 |                   |
| (or Clear or Tint DEFAULT)                                                      | 7b. (Clear) 213.7 ft²        | c. N/A                                 |                   |
| 8. Floor types                                                                  |                              |                                        |                   |
| a. Slab-On-Grade Edge Insulation                                                | R=0.0, 184.0(p) ft           | 14. Hot water systems                  |                   |
| b. N/A                                                                          |                              | a. Electric Resistance                 | Cap: 40.0 gallons |
| c. N/A                                                                          |                              |                                        | EF: 0.93          |
| 9. Wall types                                                                   |                              | b. N/A                                 |                   |
| a. Frame, Wood, Exterior                                                        | R=13.0, 1218.3 ft²           | c. Conservation credits                |                   |
| b. N/A                                                                          |                              | (HR-Heat recovery, Solar               |                   |
| c. N/A                                                                          |                              | DHP-Dedicated heat pump)               |                   |
| d. N/A                                                                          |                              | 15. HVAC credits                       |                   |
| e. N/A                                                                          |                              | (CF-Ceiling fan, CV-Cross ventilation, |                   |
| 10. Ceiling types                                                               |                              | HF-Whole house fan,                    |                   |
| a. Under Attic                                                                  | R=30.0, 1408.0 ft²           | PT-Programmable Thermostat,            |                   |
| b. N/A                                                                          |                              | MZ-C-Multizone cooling,                |                   |
| c. N/A                                                                          |                              | MZ-H-Multizone heating)                |                   |
| 11. Ducts                                                                       |                              |                                        |                   |
| a. Sup: Unc. Ret: Unc. AH: Interior                                             | Sup. R=6.0, 160.0 ft         |                                        |                   |
| b. N/A                                                                          |                              |                                        |                   |

I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Address of New Home: \_\_\_\_\_ City/FL Zip: \_\_\_\_\_



*\*NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar<sup>TM</sup> designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at [www.fsec.ucf.edu](http://www.fsec.ucf.edu) for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.*

<sup>1</sup> Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.  
EnergyGauge® (Version: FLR2PB v4.1)

# COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787

PHONE: (386) 758-1125 \* FAX: (386) 758-1365 \* Email: ron\_croft@columbiacountyfla.com

## Addressing Maintenance

To maintain the Countywide Addressing Policy you must make application for a 9-1-1 Address at the time you apply for a building permit. The established standards for assigning and posting numbers to all principal buildings, dwellings, businesses and industries are contained in Columbia County Ordinance 2001-9. The addressing system is to enable Emergency Service Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County.

DATE REQUESTED: 9/25/2006 DATE ISSUED: 9/25/2006

### ENHANCED 9-1-1 ADDRESS:

677 SW INFINITY

PL

LAKE CITY FL 32024

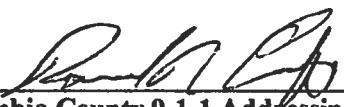
### PROPERTY APPRAISER PARCEL NUMBER:

24-5S-16-03707-009

### Remarks:

LOCATED ON TRACT 9 GREAT SOUTH TIMBER S/D UNR, 2 LOCATION  
ON PARCEL

Address Issued By: \_\_\_\_\_

  
Columbia County 9-1-1 Addressing / GIS Department

**NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION INFORMATION BE FOUND TO BE IN ERROR, THIS ADDRESS IS SUBJECT TO CHANGE.**

422

COLUMBIA COUNTY  
9-1-1 ADDRESSING  
APPROVED

@ CAM112M01 S CamaUSA Appraisal System  
 11/30/2006 14:05 Legal Description Maintenance  
 Year T Property Sel  
 2007 R 24-5S-16-03707-034 . . . . .  
 488 SHEPPARD WAY SW LAKE CITY  
 FRANZWA AHMI M

Columbia County  
 40000 Land 001  
 AG 000  
 Bldg 000  
 Xfea 000  
 40000 TOTAL B\*

|    |                                                            |    |
|----|------------------------------------------------------------|----|
| 1  | COMM SE COR, RUN W 1345.14 FT, TO W R/W SHEPHERD RD, RUN N | 2  |
| 3  | 1678.61 FT, RUN W 455.87 FT FOR POB, CONT W 417.87 FT, N   | 4  |
| 5  | 523.84 FT, E 417.86 FT, S 518.82 FT TO POB                 | 6  |
| 7  | ORB 801-1230, 835-1692, 835-1694, 911-2385, 979-504,       | 8  |
| 9  | QCD 1096-1949, WD 1100-1484                                | 10 |
| 11 |                                                            | 12 |
| 13 |                                                            | 14 |
| 15 |                                                            | 16 |
| 17 |                                                            | 18 |
| 19 |                                                            | 20 |
| 21 |                                                            | 22 |
| 23 |                                                            | 24 |
| 25 |                                                            | 26 |
| 27 |                                                            | 28 |

Mnt 11/14/2006 THRESA

F1=Task F3=Exit F4=Prompt F10=GoTo PgUp/PgDn F24=More

# ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844  
Florida Engineering Certificate of Authorization Number: 567  
Florida Certificate of Product Approval # FL1999  
Page 1 of 1 Document ID: IT5F8228Z0206094045

Truss Fabricator: Anderson Truss Company  
Job Identification: 6-312--Wilber Brown Webb -- , \*\*  
Truss Count: 3  
Model Code: Florida Building Code 2004 and 2006 Supplement  
Truss Criteria: ANSI/TPI-2002(STD)/FBC  
Engineering Software: Alpine Software, Version 7.24.  
Structural Engineer of Record: The identity of the structural EOR did not exist as of  
Address: the seal date per section 61G15-31.003(5a) of the FAC  
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration  
Floor - N/A  
Wind - 110 MPH ASCE 7-02 -Closed

## Notes:

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

Details: A11015EE-GBLLETIN-

| # | Ref                   | Description | Drawing# | Date     |
|---|-----------------------|-------------|----------|----------|
| 1 | 27152--A1-GE          |             | 07065077 | 03/06/07 |
| 2 | 27153--A2             |             | 07065076 | 03/06/07 |
| 3 | 27154--A1-GE STRUCTUR |             | 07065078 | 03/06/07 |



Seal Date: 03/06/2007

-Truss Design Engineer-  
Arthur R. Fisher  
Florida License Number: 59687  
1950 Marley Drive  
Haines City, FL 33844



Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
:Stack Chord SC1 2x4 SP #2 Dense:  
:Stack Chord SC2 2x4 SP #2 Dense:

Gable end supports 8" max rake overhang.

Stacked top chord must NOT be notched or cut in area (NNL).  
Dropped top chord braced at 24" o.c. intervals. Attach stacked  
top chord (SC) to dropped top chord in noticable area using 3x4  
tie-plates 24" o.c. Center plate on stacked/dropped chord  
interface, plate length perpendicular to chord length. Splice top  
chord in noticable area using 3x6.

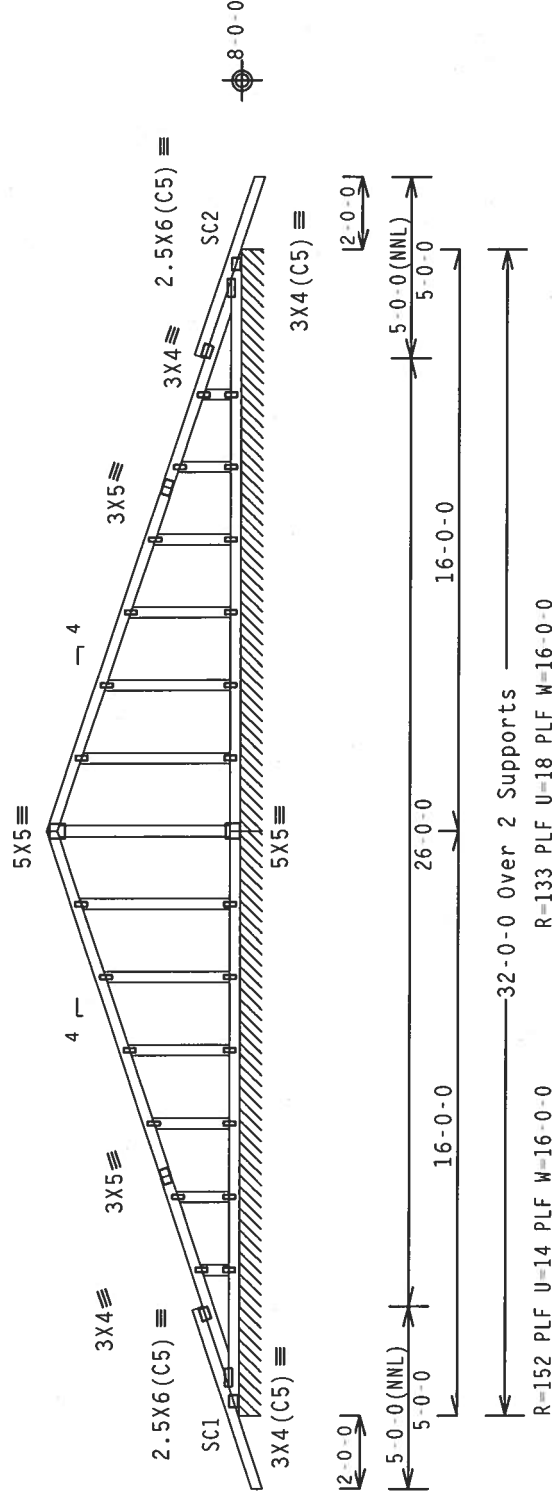
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg. Located  
anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC  
DL=5.0 psf. lw=1.00 GCpl(+/-)=0.18

Wind reactions based on MWFRS pressures.

See DWGS A11015EE1106 & GBLLETIN1106 for more requirements.

In lieu of structural panels or rigid ceiling use purlins to  
brace TC @ 24" OC, BC @ 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 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0)

7.24.1

FL/-4/-R/-

Scale = .1875"/Ft.

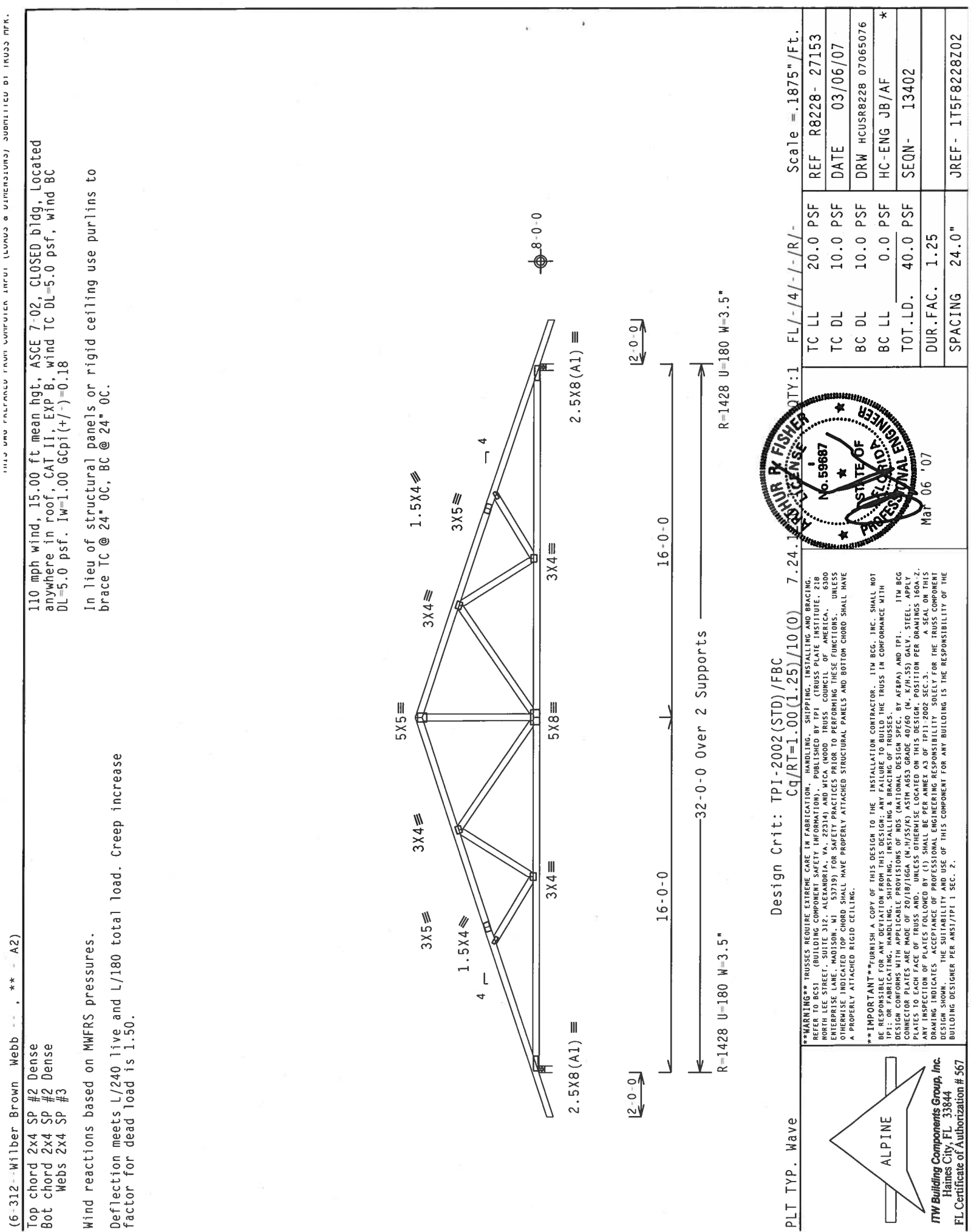
PLT TYP. Wave

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

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2018/16GA (4-M/55K) ASTM A653 GRADE 40/60 (4. K/M.SS) GALV. STEEL. APPLY GALVANNEALING TO ALL TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ALL TRUSS COMPONENTS SHALL BE INSPECTED AND APPROVED BY A PROFESSIONAL ENGINEER. SOLELY FOR THE TRUSS COMPONENTS DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

**KATHUR R. FISHER**  
No. 59887  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
Ma 16 '07

|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 20.0 PSF | REF    | R8228- 27152       |
| TC DL    | 10.0 PSF | DATE   | 03/06/07           |
| BC DL    | 10.0 PSF | DRW    | HCUSR8228 07065077 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/AF              |
| TOT.LD.  | 40.0 PSF | SEQN-  | 14258              |
| DUR.FAC. | 1.25     |        |                    |
| SPACING  | 24.0"    | JREF-  | 1T5F8228Z02        |



(6-312-Wilber Brown Webb \*\* - A2)  
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

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.

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

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

PLT TYP. Wave

ALPINE

ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization # 567

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.24

Scale = .1875"/Ft.

|          |                    |
|----------|--------------------|
| REF      | R8228- 27153       |
| DATE     | 03/06/07           |
| DRW      | HCUSR8228 07065076 |
| HC-ENG   | JB/AF              |
| SEQN-    | 13402              |
| DUR.FAC. | 1.25               |
| SPACING  | 24.0"              |

JREF- 1T5F8228Z02

PLT TYP. Wave

ALPINE

ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization # 567

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.24

Scale = .1875"/Ft.

|          |                    |
|----------|--------------------|
| REF      | R8228- 27153       |
| DATE     | 03/06/07           |
| DRW      | HCUSR8228 07065076 |
| HC-ENG   | JB/AF              |
| SEQN-    | 13402              |
| DUR.FAC. | 1.25               |
| SPACING  | 24.0"              |

JREF- 1T5F8228Z02

PLT TYP. Wave

ALPINE

ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization # 567

PLT TYP. Wave

ALPINE

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Haines City, FL 33844  
FL Certificate of Authorization # 567

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.24

Scale = .1875"/Ft.

|          |                    |
|----------|--------------------|
| REF      | R8228- 27153       |
| DATE     | 03/06/07           |
| DRW      | HCUSR8228 07065076 |
| HC-ENG   | JB/AF              |
| SEQN-    | 13402              |
| DUR.FAC. | 1.25               |
| SPACING  | 24.0"              |

JREF- 1T5F8228Z02

PLT TYP. Wave

ALPINE

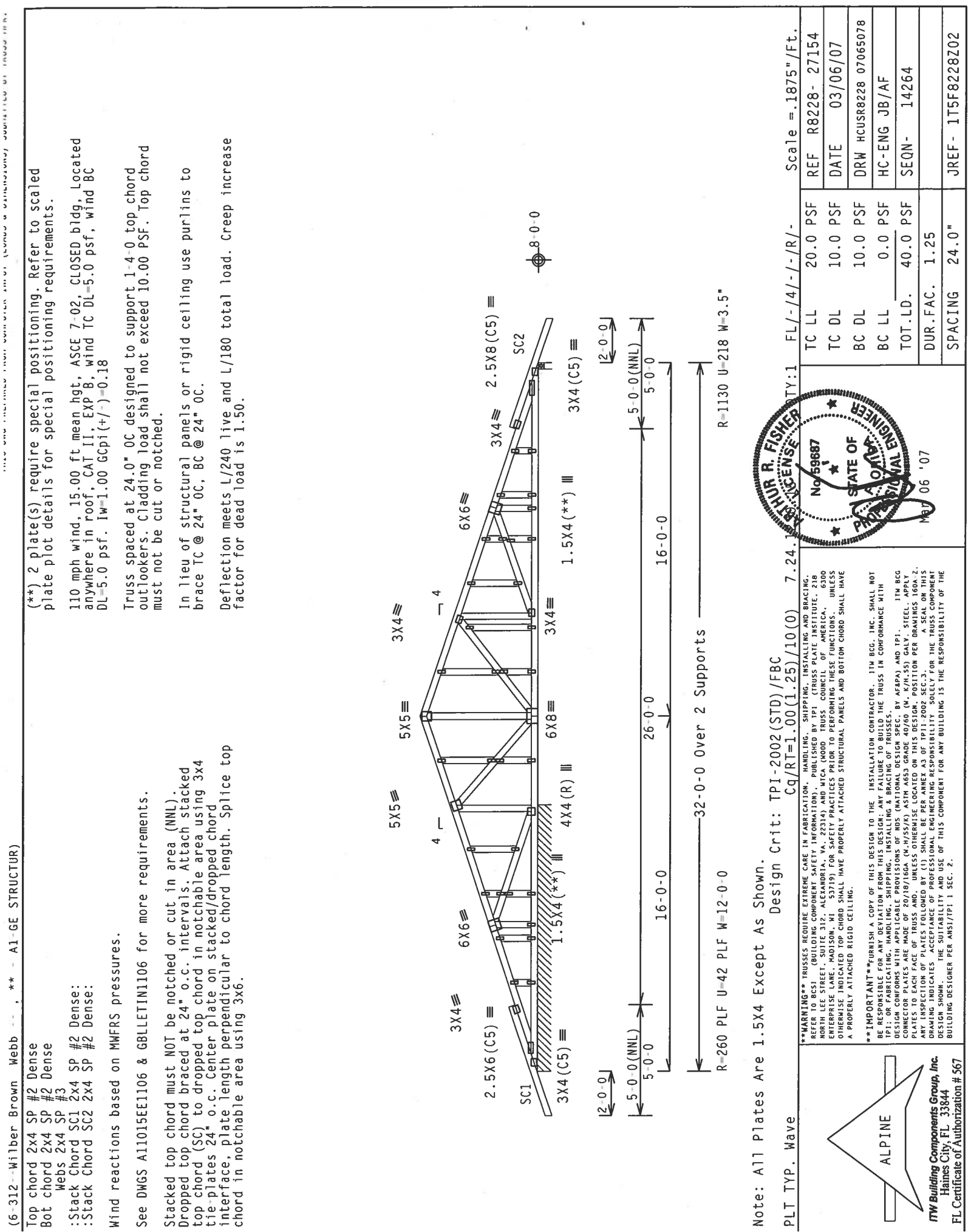
ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization # 567

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.24

Scale = .1875"/Ft.

|          |                    |
|----------|--------------------|
| REF      | R8228- 27153       |
| DATE     | 03/06/07           |
| DRW      | HCUSR8228 07065076 |
| HC-ENG   | JB/AF              |
| SEQN-    | 13402              |
| DUR.FAC. | 1.25               |
| SPACING  | 24.0"              |

JREF- 1T5F8228Z02



(6-312-Wilber Brown Webb \*\*, A1-GE STRUCTUR)

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
Stack Chord SC1 2x4 SP #2 Dense:  
Stack Chord SC2 2x4 SP #2 Dense:  
Wind reactions based on MWFRS pressures.

See DWGS A11015EE1106 & GBLLETIN1106 for more requirements.  
Stacked top chord must NOT be notched or cut in area (NNL).  
Dropped top chord braced at 24" o.c. intervals. Attach stacked  
top chord (SC) to dropped top chord in noticable area using 3x4  
tie-plates 24" o.c. Center plate on stacked/dropped chord  
interface, plate length perpendicular to chord length. Splice top  
chord in noticable area using 3x6.

(\*\*) 2 plate(s) require special positioning. Refer to scaled  
plate plot details for special positioning requirements.  
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located  
anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC  
DL=5.0 psf. IW=1.00 GCpi(+/-)=0.18  
Truss spaced at 24.0" OC designed to support 1-4-0 top chord  
outlookers. Cladding load shall not exceed 10.00 PSF. Top chord  
must not be cut or notched.  
In lieu of structural panels or rigid ceiling use purlins to  
brace TC @ 24" OC, BC @ 24" OC.  
Deflection meets L/240 live and L/180 total load. Creep increase  
factor for dead load is 1.50.

ALPINE

ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization # 567

Note: All Plates Are 1.5X4 Except As Shown.  
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0) 7.24.18

PLT TYP. Wave

Scale = .1875"/Ft.

|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 20.0 PSF | REF    | R8228- 27154       |
| TC DL    | 10.0 PSF | DATE   | 03/06/07           |
| BC DL    | 10.0 PSF | DRW    | HCUSR8228 07065078 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/AF              |
| TOT.LD.  | 40.0 PSF | SEON-  | 14264              |
| DUR.FAC. | 1.25     |        |                    |
| SPACING  | 24.0"    | JREF-  | 1T5F8228Z02        |

TY:1 FL/-/4/-/-/R/-

Scale = .1875"/Ft.

REF R8228- 27154

DATE 03/06/07

DRW HCUSR8228 07065078

HC-ENG JB/AF

SEON- 14264

JREF- 1T5F8228Z02

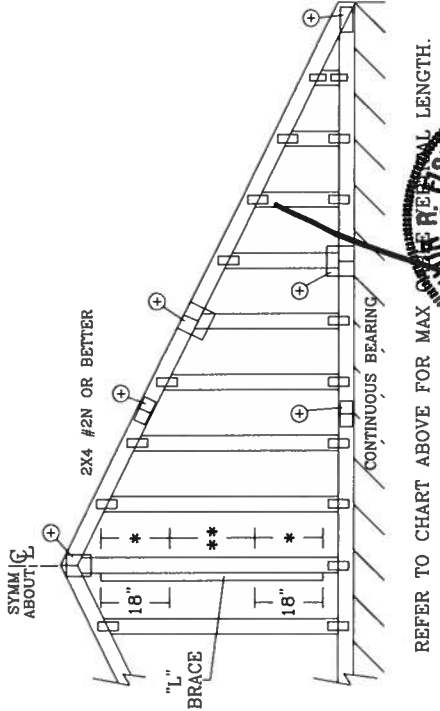
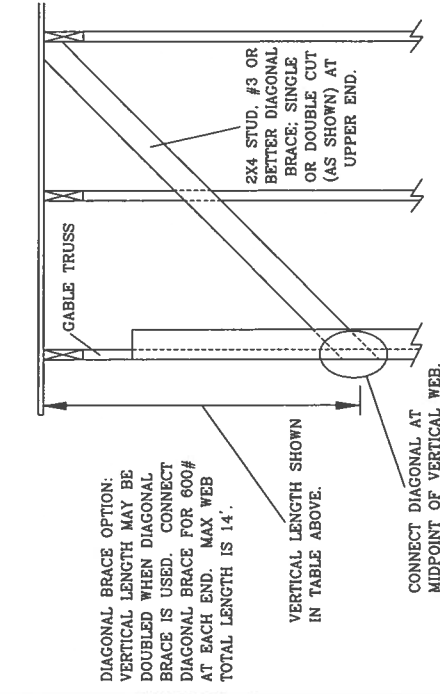
THUR R. FISHER  
No 59887  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER  
MEU 06 '07

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| 2x4 GABLE VERTICAL SPACING SPECIES |          |     | BRACE    |          | NO BRACES |        | (1) 1x4 "L" BRACE • |         |         |         | (2) 2x4 "L" BRACE • |         |         |         | (1) 2x6 "L" BRACE •• |         |         |         | (2) 2x6 "L" BRACE • |         |         |         | (1) 2x8 "L" BRACE • |         |         |         | (2) 2x8 "L" BRACE • |         |         |         |
|------------------------------------|----------|-----|----------|----------|-----------|--------|---------------------|---------|---------|---------|---------------------|---------|---------|---------|----------------------|---------|---------|---------|---------------------|---------|---------|---------|---------------------|---------|---------|---------|---------------------|---------|---------|---------|
|                                    |          |     | GRADE    | #1 / #2  |           |        | GROUP A             | GROUP B | GROUP A | GROUP B | GROUP A             | GROUP B | GROUP A | GROUP B | GROUP A              | GROUP B | GROUP A | GROUP B | GROUP A             | GROUP B | GROUP A | GROUP B | GROUP A             | GROUP B | GROUP A | GROUP B | GROUP A             | GROUP B | GROUP A | GROUP B |
| MAX GABLE VERTICAL LENGTH          | 24" O.C. | SPF | HF       | STANDARD | #1        | 3' 10" | 6' 8"               | 6' 10"  | 7' 11"  | 8' 1"   | 9' 5"               | 9' 5"   | 9' 8"   | 12' 5"  | 12' 9"               | 14' 0"  | 14' 0"  |         |                     |         |         |         |                     |         |         |         |                     |         |         |         |
|                                    |          |     |          |          |           | 3' 9"  | 6' 0"               | 6' 0"   | 7' 11"  | 7' 11"  | 9' 5"               | 9' 5"   | 9' 5"   | 12' 4"  | 12' 4"               | 14' 0"  | 14' 0"  |         |                     |         |         |         |                     |         |         |         |                     |         |         |         |
|                                    |          | SP  | DFL      | #2       | 4' 3"     | 6' 8"  | 7' 2"               | 7' 11"  | 8' 6"   | 9' 5"   | 10' 2"              | 10' 2"  | 12' 5"  | 13' 5"  | 14' 0"               | 14' 0"  |         |         |                     |         |         |         |                     |         |         |         |                     |         |         |         |
|                                    |          |     |          |          | 4' 2"     | 6' 8"  | 7' 2"               | 7' 11"  | 8' 6"   | 9' 5"   | 10' 2"              | 10' 2"  | 12' 5"  | 13' 5"  | 14' 0"               | 14' 0"  |         |         |                     |         |         |         |                     |         |         |         |                     |         |         |         |
| 24" O.C.                           | SPF      | HF  | STANDARD | #1 / #2  | 4' 0"     | 6' 2"  | 6' 2"               | 7' 11"  | 8' 1"   | 9' 5"   | 9' 11"              | 9' 11"  | 12' 5"  | 12' 8"  | 14' 0"               | 14' 0"  |         |         |                     |         |         |         |                     |         |         |         |                     |         |         |         |
|                                    |          |     |          |          | 4' 0"     | 6' 1"  | 6' 1"               | 7' 11"  | 8' 0"   | 9' 5"   | 9' 11"              | 9' 4"   | 10' 10" | 10' 10" | 14' 0"               | 14' 0"  |         |         |                     |         |         |         |                     |         |         |         |                     |         |         |         |
|                                    |          |     |          |          | 4' 5"     | 7' 8"  | 7' 10"              | 9' 1"   | 9' 4"   | 10' 10" | 10' 10"             | 11' 1"  | 14' 0"  | 14' 0"  | 14' 0"               | 14' 0"  |         |         |                     |         |         |         |                     |         |         |         |                     |         |         |         |
|                                    |          |     |          |          | 4' 4"     | 7' 4"  | 7' 4"               | 9' 1"   | 9' 1"   | 10' 10" | 10' 10"             | 10' 10" | 14' 0"  | 14' 0"  | 14' 0"               | 14' 0"  |         |         |                     |         |         |         |                     |         |         |         |                     |         |         |         |
| 16" O.C.                           | SPF      | HF  | STANDARD | #1       | 4' 4"     | 6' 4"  | 6' 4"               | 8' 4"   | 8' 4"   | 10' 10" | 10' 10"             | 12' 11" | 12' 11" | 14' 0"  | 14' 0"               |         |         |         |                     |         |         |         |                     |         |         |         |                     |         |         |         |
|                                    |          |     |          |          | 4' 10"    | 7' 8"  | 8' 3"               | 9' 1"   | 9' 9"   | 10' 10" | 10' 10"             | 11' 8"  | 14' 0"  | 14' 0"  | 14' 0"               | 14' 0"  |         |         |                     |         |         |         |                     |         |         |         |                     |         |         |         |
|                                    |          |     |          |          | 4' 9"     | 7' 8"  | 8' 3"               | 9' 1"   | 9' 9"   | 10' 10" | 10' 10"             | 11' 8"  | 14' 0"  | 14' 0"  | 14' 0"               | 14' 0"  |         |         |                     |         |         |         |                     |         |         |         |                     |         |         |         |
|                                    |          |     |          |          | 4' 6"     | 7' 7"  | 7' 7"               | 9' 1"   | 9' 6"   | 10' 10" | 10' 10"             | 11' 4"  | 14' 0"  | 14' 0"  | 14' 0"               | 14' 0"  |         |         |                     |         |         |         |                     |         |         |         |                     |         |         |         |
| 16" O.C.                           | SPF      | DFL | STANDARD | #1 / #2  | 4' 6"     | 7' 6"  | 7' 6"               | 9' 1"   | 9' 6"   | 10' 10" | 10' 10"             | 11' 4"  | 14' 0"  | 14' 0"  | 14' 0"               |         |         |         |                     |         |         |         |                     |         |         |         |                     |         |         |         |
|                                    |          |     |          |          | 4' 5"     | 6' 5"  | 6' 5"               | 8' 6"   | 8' 6"   | 10' 10" | 10' 10"             | 11' 1"  | 13' 3"  | 13' 3"  | 14' 0"               | 14' 0"  |         |         |                     |         |         |         |                     |         |         |         |                     |         |         |         |
|                                    |          |     |          |          | 4' 11"    | 8' 5"  | 8' 8"               | 10' 0"  | 10' 3"  | 11' 11" | 12' 3"              | 14' 0"  | 14' 0"  | 14' 0"  | 14' 0"               | 14' 0"  |         |         |                     |         |         |         |                     |         |         |         |                     |         |         |         |
|                                    |          |     |          |          | 4' 9"     | 8' 5"  | 8' 5"               | 10' 0"  | 10' 0"  | 11' 11" | 11' 11"             | 11' 11" | 14' 0"  | 14' 0"  | 14' 0"               | 14' 0"  |         |         |                     |         |         |         |                     |         |         |         |                     |         |         |         |
| 12" O.C.                           | SPF      | HF  | STANDARD | #1       | 4' 9"     | 7' 3"  | 7' 3"               | 9' 7"   | 9' 7"   | 11' 11" | 11' 11"             | 14' 0"  | 14' 0"  | 14' 0"  | 14' 0"               |         |         |         |                     |         |         |         |                     |         |         |         |                     |         |         |         |
|                                    |          |     |          |          | 5' 4"     | 8' 5"  | 9' 1"               | 10' 0"  | 10' 9"  | 11' 11" | 12' 10"             | 14' 0"  | 14' 0"  | 14' 0"  | 14' 0"               | 14' 0"  |         |         |                     |         |         |         |                     |         |         |         |                     |         |         |         |
|                                    |          |     |          |          | 5' 3"     | 8' 5"  | 9' 1"               | 10' 0"  | 10' 9"  | 11' 11" | 12' 10"             | 14' 0"  | 14' 0"  | 14' 0"  | 14' 0"               | 14' 0"  |         |         |                     |         |         |         |                     |         |         |         |                     |         |         |         |
|                                    |          |     |          |          | 5' 0"     | 8' 5"  | 8' 5"               | 10' 0"  | 10' 6"  | 11' 11" | 12' 6"              | 14' 0"  | 14' 0"  | 14' 0"  | 14' 0"               | 14' 0"  |         |         |                     |         |         |         |                     |         |         |         |                     |         |         |         |
| 12" O.C.                           | SPF      | DFL | STANDARD | #3       | 5' 0"     | 8' 5"  | 8' 7"               | 10' 0"  | 10' 6"  | 11' 11" | 12' 6"              | 14' 0"  | 14' 0"  | 14' 0"  | 14' 0"               |         |         |         |                     |         |         |         |                     |         |         |         |                     |         |         |         |
|                                    |          |     |          |          | 4' 11"    | 7' 5"  | 7' 5"               | 9' 10"  | 9' 10"  | 11' 11" | 12' 3"              | 14' 0"  | 14' 0"  | 14' 0"  | 14' 0"               | 14' 0"  |         |         |                     |         |         |         |                     |         |         |         |                     |         |         |         |



SYMM ABOUT

BRACING GROUP SPECIES AND GRADES:

GROUP A:

|                 |          |
|-----------------|----------|
| SPRUCE-PINE-FIR | HEM-FIR  |
| #1 / #2         | #3       |
| STANDARD        | STANDARD |

DOUGLAS FIR-LARCH

|          |          |
|----------|----------|
| #3       | STUD     |
| STANDARD | STANDARD |

GROUP B:

|          |                   |
|----------|-------------------|
| HEM-FIR  | DOUGLAS FIR-LARCH |
| #1 & BTR | #1                |
| #1       | #2                |

GABLE TRUSS DETAIL NOTES:

- LIVE LOAD DEFLECTION CRITERIA IS L/240.
- PROVIDE UPLIFT CONNECTIONS FOR 80 PLF OVER CONTINUOUS BEARING (5 PSF TC DEAD LOAD).
- GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.
- ATTACH EACH "L" BRACE WITH 10d NAILS.
- \* FOR (1) "L" BRACE: SPACE NAILS AT 2' O.C. IN 18" END ZONES AND 4' O.C. BETWEEN ZONES.
- \*\* FOR (2) "L" BRACES: SPACE NAILS AT 3' O.C. IN 18" END ZONES AND 6' O.C. BETWEEN ZONES.
- "L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES

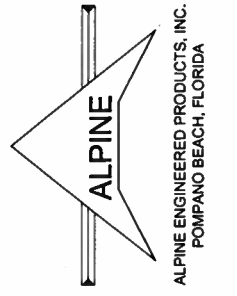
|                                         |            |
|-----------------------------------------|------------|
| VERTICAL LENGTH                         | NO SPLICE  |
| LESS THAN 4' 0"                         | 1X4 OR 2X3 |
| GREATER THAN 4' 0" BUT LESS THAN 11' 6" | 2X4        |
| GREATER THAN 11' 6"                     | 2-5X4      |

+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.

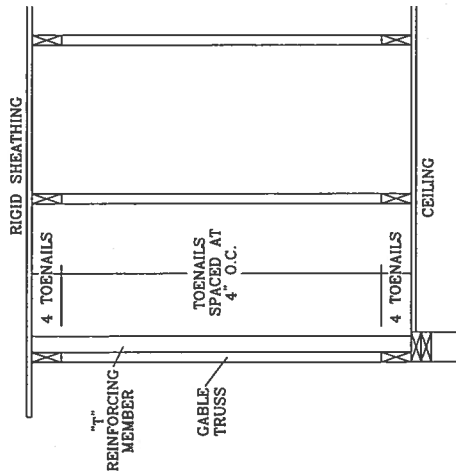
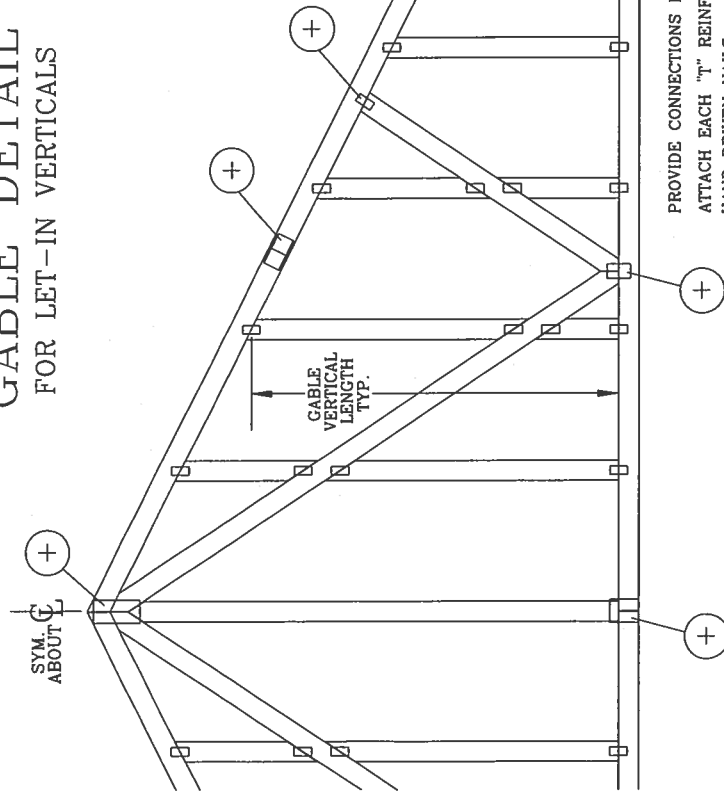
\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 218 NORTH LEE STR., SUITE 312, ALEXANDRIA, VA 22314, AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, 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.

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|               |                   |
|---------------|-------------------|
| REF           | ASCE7-02-CABI1015 |
| DATE          | 11/1/06           |
| DRWG          | A11015EE1106      |
| -ENG          |                   |
| MAX. TOT. LD. | 60 PSF            |
| MAX. SPACING  | 24' 0"            |



# GABLE DETAIL FOR LET-IN VERTICALS



| GABLE VERTICAL PLATE SIZES               |            |                    |  |
|------------------------------------------|------------|--------------------|--|
| VERTICAL LENGTH BETWEEN CHORDS           | PLATE SIZE | IF PLATES OVERLAP* |  |
| LESS THAN 4' 0"                          | 1X4 OR 2X3 | 2X8                |  |
| GREATER THAN 4' 0", BUT LESS THAN 11' 6" | 2X4        | 2X8                |  |
| GREATER THAN 11' 6"                      | 2.5X4      | 2.5X8              |  |

⊕ REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.

\* IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE TO SPAN THE WEB.

EXAMPLE: 2X4 2X8

PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

ATTACH EACH "T" REINFORCING MEMBER WITH HAND DRIVEN NAILS:

10d COMMON (0.148" X 3" MIN) TOENAILS AT 4" O.C. PLUS

(4) 16d COMMON (0.162" X 3.5" MIN) TOENAILS IN TOP AND BOTTOM CHORD.

GUN DRIVEN NAILS:

8d COMMON (0.131" X 2.5" MIN) TOENAILS AT 4" O.C. PLUS

(4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

ASCE 7-93 GABLE DETAIL DRAWINGS

A11015ENI103, A10015ENI103, A09015ENI103, A08015ENI103, A07015ENI103

A11030ENI103, A10030ENI103, A09030ENI103, A08030ENI103, A07030ENI103

ASCE 7-98 GABLE DETAIL DRAWINGS

A13015ECI103, A12015ECI103, A11015ECI103, A10015ECI103, A08015ECI103

A13030ECI103, A12030ECI103, A11030ECI103, A10030ECI103, A08030ECI103

ASCE 7-02 GABLE DETAIL DRAWINGS

A13015EE0405, A12015EE0405, A11015EE0405, A10015EE0405, A08015EE0405, A13030EE0405, A12030EE0405, A11030EE0405, A10030EE0405, A08030EE0405

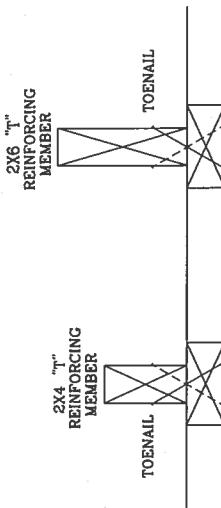
SEE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE VERTICAL LENGTH.

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS PLATE INSTITUTE, 218 NORTH LEE STR. SUITE 312, ALEXANDRIA, VA 22314, AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*\*IMPORTANT\*\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO FOLLOW THE TRUSSER CONFORMANCE WITH TPI OR BRACING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. TRUSSES CONFORMING WITH TPI OR BRACING, HANDLING, SHIPPING, INSTALLING & BRACING BY AT&P AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (2018/16GA) ASTM A572 GRADE 40/60 (2018/16GA) 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 ANNEX A3 OF TPI 1-2002 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 ANSI/TPI 1 SEC. 2.

**ALPINE**

ALPINE ENGINEERED PRODUCTS, INC.  
POMPANOA BEACH, FLORIDA



TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON CABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 "L" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

MAXIMUM ALLOWABLE "T" REINFORCED GABLE VERTICAL LENGTH IS 14' FROM TOP TO BOTTOM CHORD.

## WEB LENGTH INCREASE W/ "T" BRACE

| WIND SPEED AND MRH | "T" REINF. MBR. SIZE | SBCCI | ASCE |
|--------------------|----------------------|-------|------|
| 110 MPH            | 2x4                  | 10 %  | 10 % |
| 15 FT              | 2x6                  | 40 %  | 50 % |
| 110 MPH            | 2x4                  | 10 %  | 10 % |
| 30 FT              | 2x6                  | 50 %  | 50 % |
| 100 MPH            | 2x4                  | 10 %  | 10 % |
| 15 FT              | 2x6                  | 30 %  | 50 % |
| 100 MPH            | 2x4                  | 10 %  | 10 % |
| 30 FT              | 2x6                  | 40 %  | 40 % |
| 90 MPH             | 2x4                  | 20 %  | 10 % |
| 15 FT              | 2x6                  | 20 %  | 40 % |
| 90 MPH             | 2x4                  | 10 %  | 10 % |
| 30 FT              | 2x6                  | 30 %  | 50 % |
| 80 MPH             | 2x4                  | 10 %  | 20 % |
| 15 FT              | 2x6                  | 10 %  | 30 % |
| 80 MPH             | 2x4                  | 20 %  | 10 % |
| 30 FT              | 2x6                  | 20 %  | 40 % |
| 70 MPH             | 2x4                  | 0 %   | 20 % |
| 15 FT              | 2x6                  | 0 %   | 20 % |
| 70 MPH             | 2x4                  | 10 %  | 20 % |
| 30 FT              | 2x6                  | 10 %  | 30 % |

EXAMPLE:

ASCE WIND SPEED = 100 MPH

MEAN ROOF HEIGHT = 30 FT

GABLE VERTICAL = 24" O.C. SP #3

"T" REINFORCING MEMBER SIZE = 2X4

"T" BRACE INCREASE (FROM ABOVE) = 10% = 1.10

(1) 2X4 "L" BRACE LENGTH = 6' 7"

MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH 1.10 x 6' 7" = 7' 3"

REPLACES DRAWINGS GAB98117 876.719 & HC26294035

|      |              |
|------|--------------|
| REF  | LET-IN VERT  |
| DATE | 11/1/06      |
| DRWG | GBLETTIN1106 |
|      | -ENG DLJ/KAR |

|              |        |
|--------------|--------|
| MAX TOT. LD. | 60 PSF |
| DUR. FAC.    | ANY    |
| MAX SPACING  | 24.0"  |

# Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844  
Florida Engineering Certificate of Authorization Number: 567  
Florida Certificate of Product Approval # FL1999  
Page 1 of 1 Document ID: IT02487-Z0325111349

Truss Fabricator: Anderson Truss Company  
Job Identification: 6-312--Wilber Brown Webb -- , \*\*  
Truss Count: 2  
Model Code: Florida Building Code 2004  
Truss Criteria: ANSI/TPI-2002(STD)/FBC  
Engineering Software: Alpine Software, Version 7.24.  
Structural Engineer of Record: The identity of the structural EOR did not exist as of  
Address: the seal date per section 61G15-31.003(5a) of the FAC  
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration  
Floor - N/A  
Wind - 110 MPH ASCE 7-02 -Closed

## Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR487

Details: A11015EE-GBLLETIN-

| # | Ref     | Description | Drawing# | Date     |
|---|---------|-------------|----------|----------|
| 1 | 50565-- | A1-GE       | 06237004 | 08/25/06 |
| 2 | 50566-- | A2          | 06237003 | 08/25/06 |

Seal Date: 08/25/2006

-Truss Design Engineer-  
Arthur R. Fisher  
Florida License Number: 59687  
1950 Marley Drive  
Haines City, FL 33844



**A1-GE**

#6-312 WILBER BROWN - WEBB

8/25/06

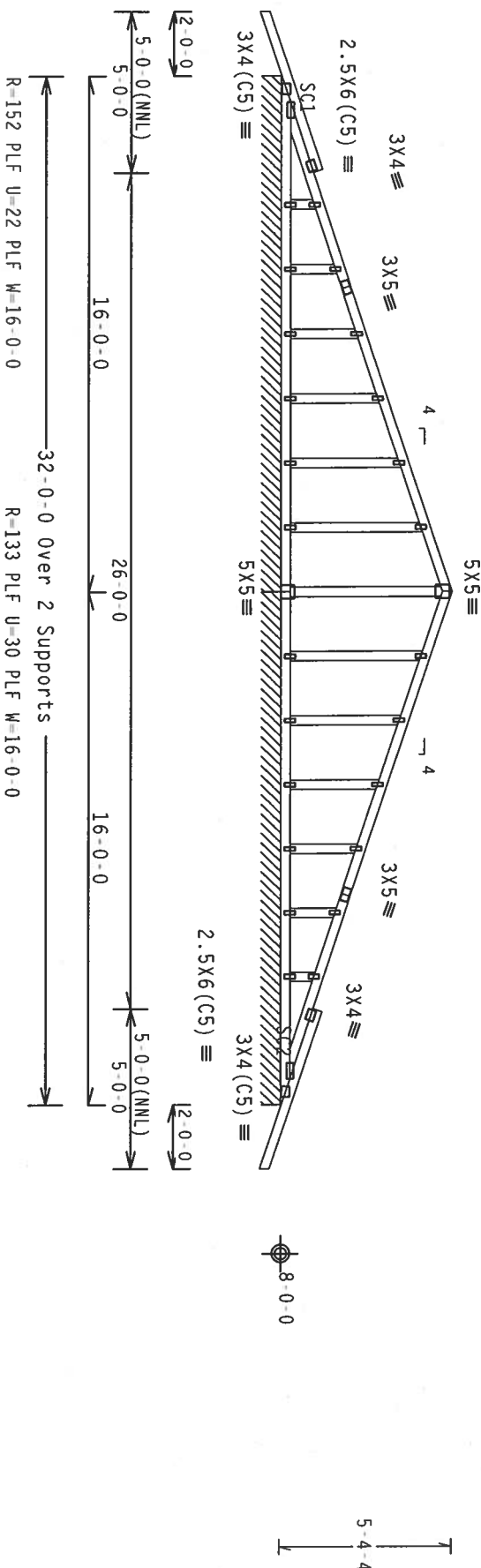
**Scale: 1/8" = 1'**

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3  
Stack Chord SC1 2x4 SP #2 Dense:  
Stack Chord SC2 2x4 SP #2 Dense:

Gable end supports 8" max rake overhang.

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  
Wind reactions based on MMFRS pressures.  
See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.  
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 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 1.5X4 Except As Shown.  
PLT TYP. Wave

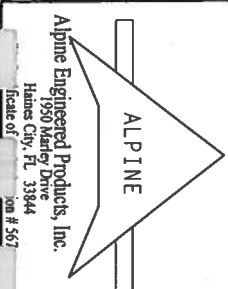
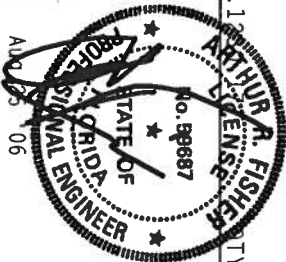
Design Cr't: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10(0)

Scale = .1875"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES FOR TRUSS FABRICATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 591 HAWTHORNE ST, ST. LOUIS, MO 63103) AND THE NATIONAL TRUSS MANUFACTURERS ASSOCIATION (NTMA, 152719). FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE SPECIFIED, 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.

ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/S) ASTM A653 GRADE 40/60 (W, K/H, S) GALV. STEEL. APPLY 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 AMER 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 AMER/TPI 1 SEC. 2.



Alpine Engineered Products, Inc.  
Haines City, FL 33844  
Phone of 888-357-3572

| TC LL    | 20.0 PSF  | REF R487 -- 50565     |
|----------|-----------|-----------------------|
| TC DL    | 10.0 PSF  | DATE 08/25/06         |
| BC DL    | 10.0 PSF  | DRW HCUSR487 06237004 |
| BC LL    | 0.0 PSF   | HC-ENG DF/AF          |
| TOT.LD.  | 40.0 PSF  | SEQN- 13408           |
| DUR.FAC. | 1.25      |                       |
| SPACING  | SEE ABOVE | JREF- 1T02487 203     |

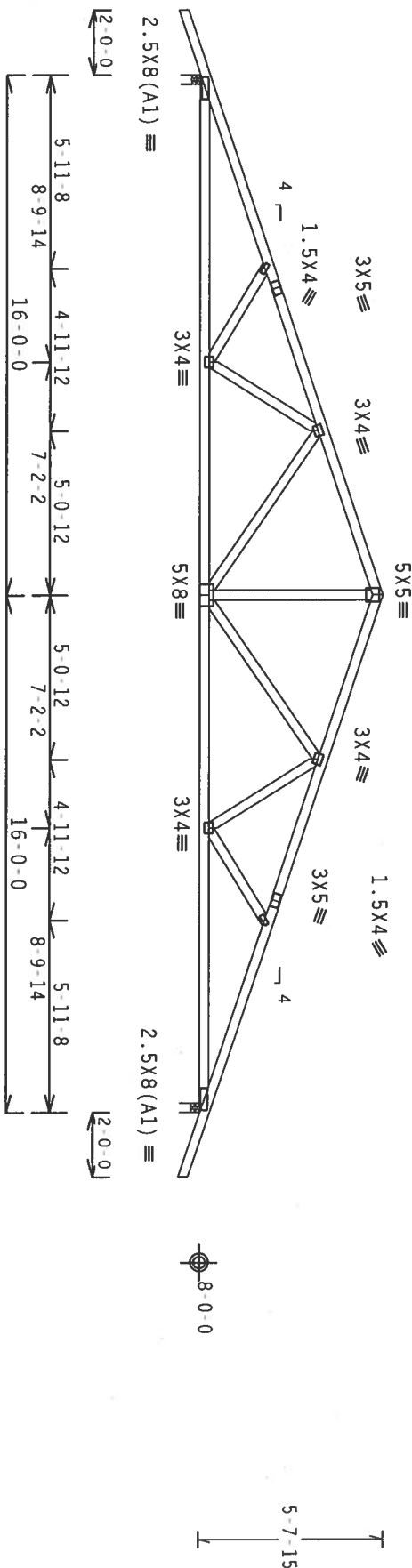


Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

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.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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



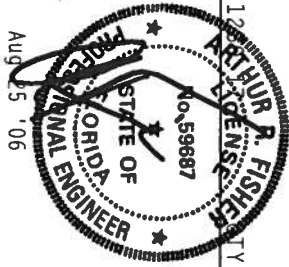
R=1428 U=180 W=3.5" R=1428 U=180 W=3.5"

PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0) 7.24.12 R. FISHER

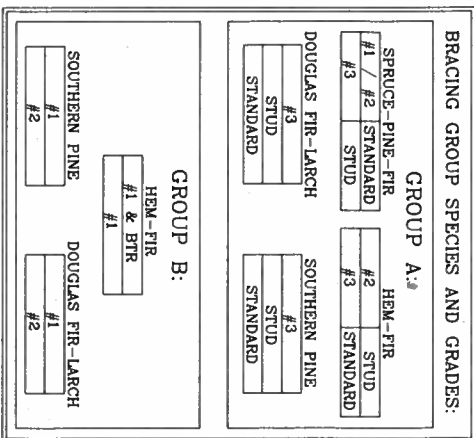
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES FOR BUILDING COMPONENT SAFETY INFORMATION. PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 589 DOWNSIDE BLVD, SUITE 100, WILSON, NJ 07097. FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR.

ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&P) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (M/H/S/F) ASTM A653 GRADE 40/60 (W, K/H/S) GALV. STEEL. APPLY 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 ANNEX 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 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 R487-- 50566      |
| TC DL    | 10.0 PSF | DATE 08/25/06         |
| BC DL    | 10.0 PSF | DRW HCUSR487 06237003 |
| BC LL    | 0.0 PSF  | HC-ENG DF/AF *        |
| TOT.LD.  | 40.0 PSF | SEON- 13402           |
| DUR.FAC. | 1.25     |                       |
| SPACING  | 24.0"    | JREF- 1T02487 203     |



LIVE LOAD DEFLECTION CRITERIA IS  $L/240$ .  
 PROVIDE UPLIFT CONNECTIONS FOR 80 PLF OVER  
 CONTINUOUS BEARING (5 PSF TC DEAD LOAD).  
 GABLE END SUPPORTS LOAD FROM 4' 0"  
 OUTLOOKERS WITH 2' 0" OVERHANG, OR 12"  
 PLYWOOD OVERHANG.

| CABLE VERTICAL PLATE SIZES                  |            |
|---------------------------------------------|------------|
| VERTICAL LENGTH                             | NO SPLICE  |
| LESS THAN 4' 0"                             | 1X4 OR 2X3 |
| GREATER THAN 4' 0", BUT<br>LESS THAN 11' 6" | 2X4        |
| GREATER THAN 11' 6"                         | 2.5X4      |

+ REFER TO COMMON TRUSS DESIGN FOR  
PEAK, SPLICE, AND HEEL PLATES.



**ALPINE ENGINEERED PRODUCTS, INC.**  
**POMPANO BEACH, FLORIDA**

##WAINWING## REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND  
 BRACING. REFER TO BECI-1-03 "BUILDING COMPONENT SAFETY INFORMATION", PUBLISHED BY TP1 TRUSS  
 PLATE INSTITUTE, 583 DUNFORD RD, SUITE 200, MADISON, WI 53719, AND VITCA CLOUD TRUSS CONSTRUCTION  
 MANUAL, 6500 ENTERPRISE BLVD, MADISON 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING  
 THESE ACTIVITIES. THE FOLLOWING PRACTICES SHALL BE USED TO PREVENT DAMAGE TO ATTACHED  
 STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

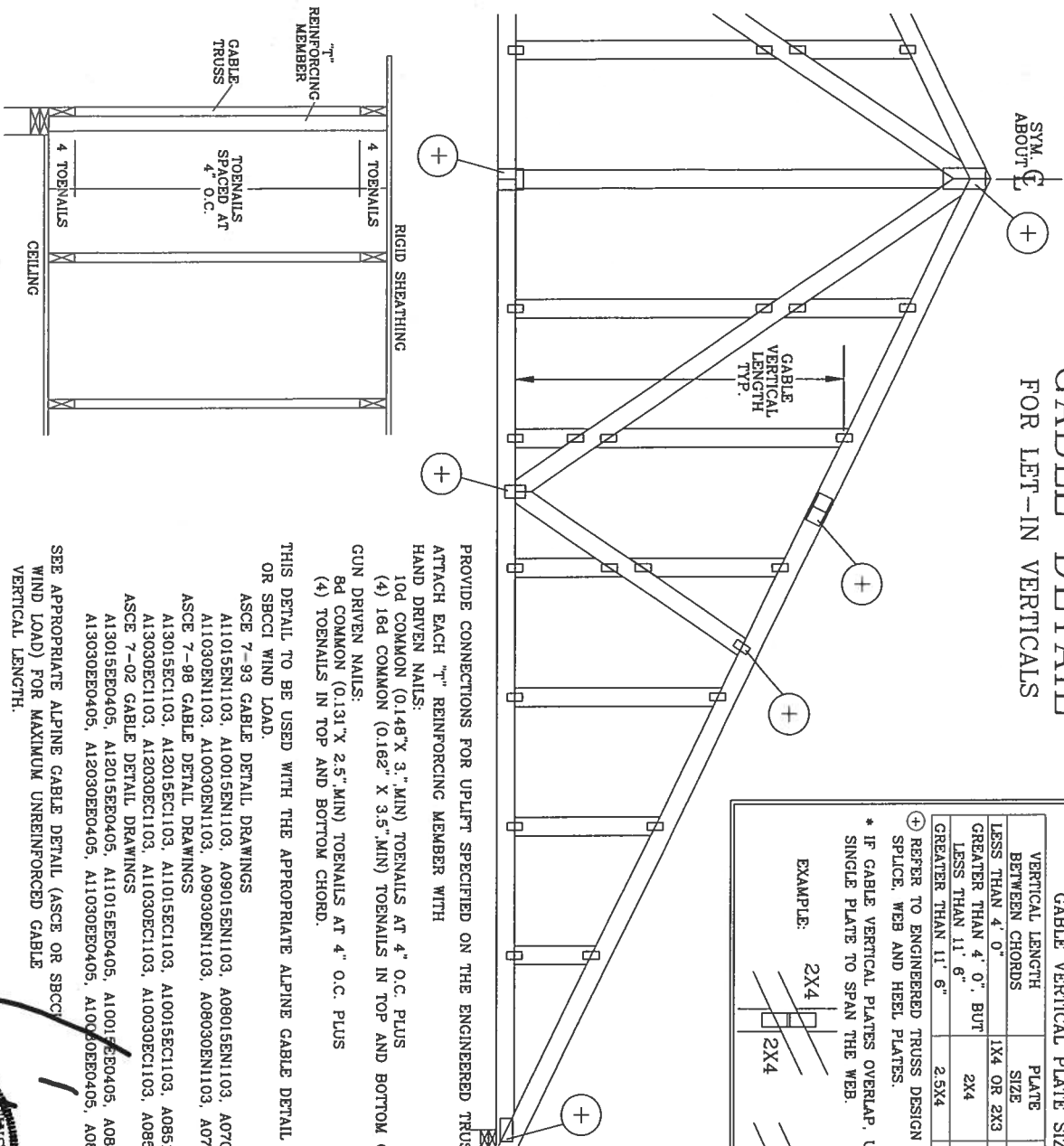
##HPRDART## FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED  
 PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO  
 BUILD THE TRUSS IN CONFORMANCE WITH TP1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING &  
 BRACING OF TRUSSES. DESIGN CONFORMS WITH ALL APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN  
 SPECIFICATION FOR WOOD CONSTRUCTION) AND NDS (NATIONAL DESIGN SPECIFICATION FOR STEEL  
 CONSTRUCTION). ALL STEEL CONNECTIONS ARE MADE OF 2018/18GA 4X4X5/8 ASH A553 GRADE  
 40-46 MPa (58-64 KSI) TENSILE STRENGTH. ALL STEEL CONNECTIONS ARE FOLLOWED BY (1) SHALL  
 BE PER ANNEK A OF DE TP1-1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THE  
 PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE  
 SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING  
 DESIGNER. PER ANSI/TP1 1 SEC. 2.

|                      |
|----------------------|
| MAX. TOT. LD. 60 PSF |
| MAX. SPACING 24.0"   |

|      |                   |
|------|-------------------|
| REF  | ASCET-02-CAB11015 |
| DATE | 04/15/05          |
| DRWG | A11015EEO405      |
| -ENG |                   |



# GABLE DETAIL FOR LET-IN VERTICALS

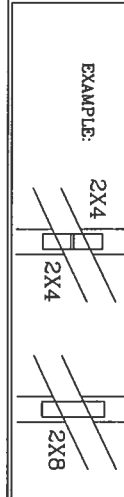


**GABLE VERTICAL PLATE SIZES**

| VERTICAL LENGTH BETWEEN CHORDS           | PLATE SIZE | IF PLATES OVERLAP* |
|------------------------------------------|------------|--------------------|
| LESS THAN 4' 0"                          | 1X4 OR 2X3 | 2X8                |
| GREATER THAN 4' 0", BUT LESS THAN 11' 6" | 2X4        | 2X8                |
| GREATER THAN 11' 6"                      | 2.5X4      | 2.5X8              |

\* REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.

\* IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE TO SPAN THE WEB.



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

ATTACH EACH "T" REINFORCING MEMBER WITH HAND DRIVEN NAILS:

(4) 16d COMMON (0.148" X 3.1" MIN) TOENAILS AT 4" O.C. PLUS

(4) 16d COMMON (0.162" X 3.5" MIN) TOENAILS IN TOP AND BOTTOM CHORD.

8d COMMON (0.131" X 2.5" MIN) TOENAILS AT 4" O.C. PLUS

(4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

ASCE 7-93 GABLE DETAIL, DRAWINGS

A10105EN1103, A10015EN1103, A09015EN1103, A08015EN1103, A07015EN1103

A11030EN1103, A10030EN1103, A09030EN1103, A08030EN1103, A07030EN1103

ASCE 7-98 GABLE DETAIL, DRAWINGS

A13015EC1103, A12015EC1103, A11015EC1103, A10015EC1103, A08515EC1103

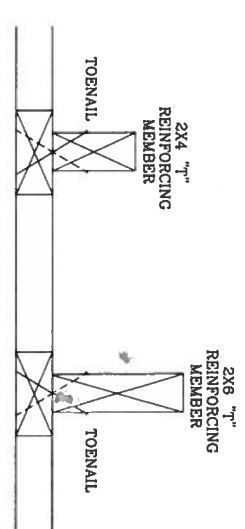
A13030EC1103, A12030EC1103, A11030EC1103, A10030EC1103, A08530EC1103

ASCE 7-02 GABLE DETAIL, DRAWINGS

A13015EB0405, A12015EB0405, A11015EB0405, A10015EB0405, A08515EB0405

A13030EB0405, A12030EB0405, A11030EB0405, A10030EB0405, A08530EB0405

SPE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE VERTICAL LENGTH.



TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 "L" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

MAXIMUM ALLOWABLE "T" REINFORCED GABLE VERTICAL LENGTH IS 14' FROM TOP TO BOTTOM CHORD.

## WEB LENGTH INCREASE W/ "T" BRACE

| WIND SPEED AND MRH | "T" REINF. MBR. SIZE | SBCCI | ASCE |
|--------------------|----------------------|-------|------|
| 110 MPH            | 2x4                  | 10 %  | 10 % |
| 110 MPH            | 2x6                  | 40 %  | 50 % |
| 110 MPH            | 2x8                  | 10 %  | 10 % |
| 110 MPH            | 2x4                  | 10 %  | 10 % |
| 110 MPH            | 2x6                  | 50 %  | 50 % |
| 110 MPH            | 2x8                  | 10 %  | 10 % |
| 100 MPH            | 2x4                  | 10 %  | 10 % |
| 100 MPH            | 2x6                  | 30 %  | 50 % |
| 100 MPH            | 2x8                  | 10 %  | 10 % |
| 90 MPH             | 2x4                  | 40 %  | 40 % |
| 90 MPH             | 2x6                  | 20 %  | 10 % |
| 90 MPH             | 2x8                  | 20 %  | 10 % |
| 80 MPH             | 2x4                  | 10 %  | 10 % |
| 80 MPH             | 2x6                  | 30 %  | 50 % |
| 80 MPH             | 2x8                  | 10 %  | 10 % |
| 80 MPH             | 2x4                  | 20 %  | 10 % |
| 80 MPH             | 2x6                  | 20 %  | 40 % |
| 80 MPH             | 2x8                  | 0 %   | 20 % |
| 70 MPH             | 2x4                  | 0 %   | 20 % |
| 70 MPH             | 2x6                  | 10 %  | 20 % |
| 70 MPH             | 2x8                  | 10 %  | 30 % |

**EXAMPLE:**

ASCE WIND SPEED = 100 MPH

MEAN ROOF HEIGHT = 30 FT

GABLE VERTICAL = 24" O.C. SP #3

"T" REINFORCING MEMBER SIZE = 2X4

"T" BRACE INCREASE (FROM ABOVE) = 10% = 1.10

(1) 2X4 "T" BRACE LENGTH = 6' 7"

MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH

1.10 x 6' 7" = 7' 3"

REPLACES DRAWINGS CAB98117 876,719 & HC26294035

| REF  | LET-IN VERT |
|------|-------------|
| DATE | 04/14/05    |
| DRWG | GBLETTN0405 |
| -ENG | DLJ/KAR     |

|              |        |
|--------------|--------|
| MAX TOT. LD. | 60 PSF |
| DUR. FAC.    | ANY    |
| MAX SPACING  | 24.0"  |

**ALPINE**

ALPINE ENGINEERED PRODUCTS, INC.  
POMPAN0 BEACH, FLORIDA

**\*\*\*WARNING\*\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 DUNDRI0 DR., SUITE 200, MADISON, VI. 53719) AND VTC (VALUED TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, VI. 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*\*IMPORTANT\*\*\*** FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, INCLUDING BUT NOT LIMITED TO BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF UDS (NATIONAL DESIGN SPEC. BY ASEA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (V/H/S/K) ASTM A573 GRADE 40/60 (V/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED IN THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (C) SHALL BE PER ANNEK A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THE SUITABILITY, ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE DESIGNER, PER ANSI/TPI 1 SEC. 2.

STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
No. 59687

Adm Lydia

# PRODUCT APPROVAL SPECIFICATION SHEET

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online @ [www.floridabuilding.org](http://www.floridabuilding.org)

| Category/Subcategory                     | Manufacturer      | Product Description          | Approval Number(s) |
|------------------------------------------|-------------------|------------------------------|--------------------|
| <b>1. EXTERIOR DOORS</b>                 |                   |                              |                    |
| A. SWINGING                              | TLC Doors & Trim  | 3/0 x 6/8 Steel              | FL 220             |
| B. SLIDING                               | NA                |                              |                    |
| C. SECTIONAL/ROLL UP                     | NA                |                              |                    |
| D. OTHER                                 | NA                |                              |                    |
| <b>2. WINDOWS</b>                        |                   |                              |                    |
| A. SINGLE/DOUBLE HUNG                    | Silver Line       | 3 x 5' Vinyl Low E Argon Gas | SL 7667            |
| B. HORIZONTAL SLIDER                     | " "               | 4 x 4 & 3 x 3' " " "         | FL 6136-R1         |
| C. CASEMENT                              | NA                |                              |                    |
| D. FIXED                                 | NA                |                              |                    |
| E. MULLION                               | NA                |                              |                    |
| F. SKYLIGHTS                             | NA                |                              |                    |
| G. OTHER                                 | NA                |                              |                    |
| <b>3. PANEL WALL</b>                     |                   |                              |                    |
| A. SIDING                                | James Hardy       | Hardy 7 1/4" Plank           | FL 889-R2          |
| B. SOFFITS                               | KAYCAN            | Aluminum                     | FL 4957            |
| C. STOREFRONTS                           | NA                |                              |                    |
| D. GLASS BLOCK                           | NA                |                              |                    |
| E. OTHER                                 | NA                |                              |                    |
| <b>4. ROOFING PRODUCTS</b>               |                   |                              |                    |
| A. ASPHALT SHINGLES                      | NA                |                              |                    |
| B. NON-STRUCT METAL                      | Unico             | 3' magnesium Panels          | FL 4586            |
| C. ROOFING TILES                         | NA                |                              |                    |
| D. SINGLE PLY ROOF                       | Norbord           | 7/16 Chipboard OSB           | basic Law          |
| E. OTHER                                 | NA                |                              |                    |
| <b>5. STRUCT COMPONENTS</b>              | see Engr. drawing |                              |                    |
| A. WOOD CONNECTORS                       |                   |                              |                    |
| B. WOOD ANCHORS                          |                   |                              |                    |
| C. TRUSS PLATES                          |                   |                              |                    |
| D. INSULATION FORMS                      |                   |                              |                    |
| E. LINTELS                               |                   |                              |                    |
| F. OTHERS                                |                   |                              |                    |
| <b>6. NEW EXTERIOR ENVELOPE PRODUCTS</b> |                   |                              |                    |
| A.                                       |                   |                              |                    |

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

\_\_\_\_\_  
APPLICANT SIGNATURE

\_\_\_\_\_  
DATE

# Residential System Sizing Calculation

## Summary

Webb, John & Alice  
SW Infiniti Place,  
, FL

Project Title:  
609052Webb,John&Alice

Class 3 Rating  
Registration No. 0  
Climate: North

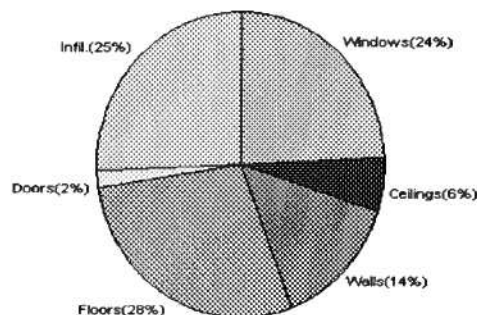
9/15/2006

|                                                                                                 |                   |                                       |                   |
|-------------------------------------------------------------------------------------------------|-------------------|---------------------------------------|-------------------|
| Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M) |                   |                                       |                   |
| Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)              |                   |                                       |                   |
| Winter design temperature                                                                       | 33 F              | Summer design temperature             | 92 F              |
| Winter setpoint                                                                                 | 70 F              | Summer setpoint                       | 75 F              |
| Winter temperature difference                                                                   | 37 F              | Summer temperature difference         | 17 F              |
| <b>Total heating load calculation</b>                                                           | <b>28239 Btuh</b> | <b>Total cooling load calculation</b> | <b>24489 Btuh</b> |
| Submitted heating capacity                                                                      | % of calc Btuh    | Submitted cooling capacity            | % of calc Btuh    |
| Total (Electric Heat Pump)                                                                      | 116.9 33000       | Sensible (SHR = 0.75)                 | 124.2 24750       |
| Heat Pump + Auxiliary(0.0kW)                                                                    | 116.9 33000       | Latent                                | 180.9 8250        |
|                                                                                                 |                   | Total (Electric Heat Pump)            | 134.8 33000       |

## WINTER CALCULATIONS

Winter Heating Load (for 1408 sqft)

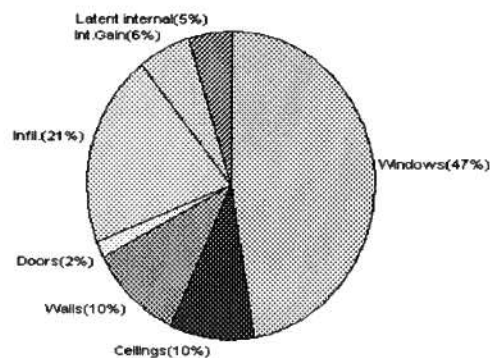
| Load component         |           | Load         |             |
|------------------------|-----------|--------------|-------------|
| Window total           | 214 sqft  | 6879         | Btuh        |
| Wall total             | 1218 sqft | 4001         | Btuh        |
| Door total             | 40 sqft   | 518          | Btuh        |
| Ceiling total          | 1408 sqft | 1659         | Btuh        |
| Floor total            | 184 sqft  | 8033         | Btuh        |
| Infiltration           | 176 cfm   | 7148         | Btuh        |
| Duct loss              |           | 0            | Btuh        |
| <b>Subtotal</b>        |           | <b>28239</b> | <b>Btuh</b> |
| Ventilation            | 0 cfm     | 0            | Btuh        |
| <b>TOTAL HEAT LOSS</b> |           | <b>28239</b> | <b>Btuh</b> |



## SUMMER CALCULATIONS

Summer Cooling Load (for 1408 sqft)

| Load component                        |           | Load         |             |
|---------------------------------------|-----------|--------------|-------------|
| Window total                          | 214 sqft  | 11570        | Btuh        |
| Wall total                            | 1218 sqft | 2541         | Btuh        |
| Door total                            | 40 sqft   | 392          | Btuh        |
| Ceiling total                         | 1408 sqft | 2332         | Btuh        |
| Floor total                           |           | 0            | Btuh        |
| Infiltration                          | 92 cfm    | 1712         | Btuh        |
| Internal gain                         |           | 1380         | Btuh        |
| Duct gain                             |           | 0            | Btuh        |
| Sens. Ventilation                     | 0 cfm     | 0            | Btuh        |
| <b>Total sensible gain</b>            |           | <b>19927</b> | <b>Btuh</b> |
| Latent gain(ducts)                    |           | 0            | Btuh        |
| Latent gain(infiltration)             |           | 3362         | Btuh        |
| Latent gain(ventilation)              |           | 0            | Btuh        |
| Latent gain(internal/occupants/other) |           | 1200         | Btuh        |
| <b>Total latent gain</b>              |           | <b>4562</b>  | <b>Btuh</b> |
| <b>TOTAL HEAT GAIN</b>                |           | <b>24489</b> | <b>Btuh</b> |



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: *[Signature]*

DATE: 9-15-06

# System Sizing Calculations - Winter

## Residential Load - Whole House Component Details

Webb, John & Alice  
SW Infiniti Place,  
, FL

Project Title:  
609052Webb,John&Alice

Class 3 Rating  
Registration No. 0  
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F  
This calculation is for Worst Case. The house has been rotated 315 degrees.

9/15/2006

### Component Loads for Whole House

| Window                  | Panes/SHGC/Frame/U                                         | Orientation | Area(sqft)  | X     | HTM= | Load       |
|-------------------------|------------------------------------------------------------|-------------|-------------|-------|------|------------|
| 1                       | 2, Clear, Metal, 0.87                                      | NW          | 2.0         |       | 32.2 | 64 Btuh    |
| 2                       | 2, Clear, Metal, 0.87                                      | NW          | 54.0        |       | 32.2 | 1738 Btuh  |
| 3                       | 2, Clear, Metal, 0.87                                      | NW          | 45.0        |       | 32.2 | 1449 Btuh  |
| 4                       | 2, Clear, Metal, 0.87                                      | NW          | 16.0        |       | 32.2 | 515 Btuh   |
| 5                       | 2, Clear, Metal, 0.87                                      | NE          | 2.7         |       | 32.2 | 87 Btuh    |
| 6                       | 2, Clear, Metal, 0.87                                      | SE          | 64.0        |       | 32.2 | 2060 Btuh  |
| 7                       | 2, Clear, Metal, 0.87                                      | SE          | 30.0        |       | 32.2 | 966 Btuh   |
| Window Total            |                                                            |             | 214(sqft)   |       |      | 6879 Btuh  |
| Walls                   | Type                                                       | R-Value     | Area        | X     | HTM= | Load       |
| 1                       | Frame - Wood - Ext(0.09)                                   | 13.0        | 1218        |       | 3.3  | 4001 Btuh  |
| Wall Total              |                                                            |             | 1218        |       |      | 4001 Btuh  |
| Doors                   | Type                                                       |             | Area        | X     | HTM= | Load       |
| 1                       | Insulated - Exterior                                       |             | 40          |       | 12.9 | 518 Btuh   |
| Door Total              |                                                            |             | 40          |       |      | 518Btuh    |
| Ceilings                | Type/Color/Surface                                         | R-Value     | Area        | X     | HTM= | Load       |
| 1                       | Vented Attic/D/Shin)                                       | 30.0        | 1408        |       | 1.2  | 1659 Btuh  |
| Ceiling Total           |                                                            |             | 1408        |       |      | 1659Btuh   |
| Floors                  | Type                                                       | R-Value     | Size        | X     | HTM= | Load       |
| 1                       | Slab On Grade                                              | 0           | 184.0       | ft(p) | 43.7 | 8033 Btuh  |
| Floor Total             |                                                            |             | 184         |       |      | 8033 Btuh  |
| Zone Envelope Subtotal: |                                                            |             |             |       |      | 21091 Btuh |
| Infiltration            | Type                                                       | ACH X       | Zone Volume | CFM=  |      |            |
|                         | Natural                                                    | 0.94        | 11264       | 176.5 |      | 7148 Btuh  |
| Ductload                | Unsealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00) |             |             |       |      | 0 Btuh     |
| Zone #1                 | Sensible Zone Subtotal                                     |             |             |       |      | 28239 Btuh |

### WHOLE HOUSE TOTALS

|  |                      |            |
|--|----------------------|------------|
|  | Subtotal Sensible    | 28239 Btuh |
|  | Ventilation Sensible | 0 Btuh     |
|  | Total Btuh Loss      | 28239 Btuh |

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Webb, John & Alice  
SW Infiniti Place,  
, FL

Project Title:  
609052Webb,John&Alice

Class 3 Rating  
Registration No. 0  
Climate: North

01/15/2000



Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear  
(Frame types - metal, wood or insulated metal)  
(U - Window U-Factor or 'DEF' for default)  
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types )

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# System Sizing Calculations - Winter

## Residential Load - Room by Room Component Details

Webb, John & Alice  
SW Infiniti Place,  
, FL

Project Title:  
609052Webb,John&Alice

Class 3 Rating  
Registration No. 0  
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F  
This calculation is for Worst Case. The house has been rotated 315 degrees.

9/15/2006

### Component Loads for Zone #1: Main

| Window                  | Panes/SHGC/Frame/U                                         | Orientation | Area(sqft)  | X     | HTM= | Load       |
|-------------------------|------------------------------------------------------------|-------------|-------------|-------|------|------------|
| 1                       | 2, Clear, Metal, 0.87                                      | NW          | 2.0         |       | 32.2 | 64 Btuh    |
| 2                       | 2, Clear, Metal, 0.87                                      | NW          | 54.0        |       | 32.2 | 1738 Btuh  |
| 3                       | 2, Clear, Metal, 0.87                                      | NW          | 45.0        |       | 32.2 | 1449 Btuh  |
| 4                       | 2, Clear, Metal, 0.87                                      | NW          | 16.0        |       | 32.2 | 515 Btuh   |
| 5                       | 2, Clear, Metal, 0.87                                      | NE          | 2.7         |       | 32.2 | 87 Btuh    |
| 6                       | 2, Clear, Metal, 0.87                                      | SE          | 64.0        |       | 32.2 | 2060 Btuh  |
| 7                       | 2, Clear, Metal, 0.87                                      | SE          | 30.0        |       | 32.2 | 966 Btuh   |
| Window Total            |                                                            |             | 214(sqft)   |       |      | 6879 Btuh  |
| Walls                   | Type                                                       | R-Value     | Area        | X     | HTM= | Load       |
| 1                       | Frame - Wood - Ext(0.09)                                   | 13.0        | 1218        |       | 3.3  | 4001 Btuh  |
| Wall Total              |                                                            |             | 1218        |       |      | 4001 Btuh  |
| Doors                   | Type                                                       |             | Area        | X     | HTM= | Load       |
| 1                       | Insulated - Exterior                                       |             | 40          |       | 12.9 | 518 Btuh   |
| Door Total              |                                                            |             | 40          |       |      | 518Btuh    |
| Ceilings                | Type/Color/Surface                                         | R-Value     | Area        | X     | HTM= | Load       |
| 1                       | Vented Attic/D/Shin)                                       | 30.0        | 1408        |       | 1.2  | 1659 Btuh  |
| Ceiling Total           |                                                            |             | 1408        |       |      | 1659Btuh   |
| Floors                  | Type                                                       | R-Value     | Size        | X     | HTM= | Load       |
| 1                       | Slab On Grade                                              | 0           | 184.0 ft(p) |       | 43.7 | 8033 Btuh  |
| Floor Total             |                                                            |             | 184         |       |      | 8033 Btuh  |
| Zone Envelope Subtotal: |                                                            |             |             |       |      | 21091 Btuh |
| Infiltration            | Type                                                       | ACH X       | Zone Volume | CFM=  |      |            |
|                         | Natural                                                    | 0.94        | 11264       | 176.5 |      | 7148 Btuh  |
| Ductload                | Unsealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00) |             |             |       |      | 0 Btuh     |
| Zone #1                 | Sensible Zone Subtotal                                     |             |             |       |      | 28239 Btuh |

### WHOLE HOUSE TOTALS

|  |                      |            |
|--|----------------------|------------|
|  | Subtotal Sensible    | 28239 Btuh |
|  | Ventilation Sensible | 0 Btuh     |
|  | Total Btuh Loss      | 28239 Btuh |

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Webb, John & Alice  
SW Infiniti Place,  
, FL

Project Title:  
609052Webb,John&Alice

Class 3 Rating  
Registration No. 0  
Climate: North

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear  
(Frame types - metal, wood or insulated metal)  
(U - Window U-Factor or 'DEF' for default)  
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types )



For Florida residences only



# System Sizing Calculations - Summer

## Residential Load - Whole House Component Details

Webb, John & Alice  
SW Infiniti Place,  
, FL

Project Title:  
609052Webb,John&Alice

Class 3 Rating  
Registration No. 0  
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

9/15/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

### Component Loads for Whole House

| Window        | Type*                                        | Ornt            | Overhang |               | Window Area(sqft) |              |           | HTM    |            | Load       |            |
|---------------|----------------------------------------------|-----------------|----------|---------------|-------------------|--------------|-----------|--------|------------|------------|------------|
|               | Pn/SHGC/U/InSh/ExSh/IS                       |                 | Len      | Hgt           | Gross             | Shaded       | Unshaded  | Shaded | Unshaded   |            |            |
| 1             | 2, Clear, 0.87, None,N,N                     | NW              | 1.5ft.   | 1.25f         | 2.0               | 0.0          | 2.0       | 29     | 60         | 120 Btuh   |            |
| 2             | 2, Clear, 0.87, None,N,N                     | NW              | 1.5ft.   | 3.5ft.        | 54.0              | 0.0          | 54.0      | 29     | 60         | 3242 Btuh  |            |
| 3             | 2, Clear, 0.87, None,N,N                     | NW              | 1.5ft.   | 5.5ft.        | 45.0              | 0.0          | 45.0      | 29     | 60         | 2702 Btuh  |            |
| 4             | 2, Clear, 0.87, None,N,N                     | NW              | 1.5ft.   | 4.5ft.        | 16.0              | 0.0          | 16.0      | 29     | 60         | 961 Btuh   |            |
| 5             | 2, Clear, 0.87, None,N,N                     | NE              | 1.5ft.   | 1.25f         | 2.7               | 0.0          | 2.7       | 29     | 60         | 162 Btuh   |            |
| 6             | 2, Clear, 0.87, None,N,N                     | SE              | 1.5ft.   | 4.5ft.        | 64.0              | 32.4         | 31.6      | 29     | 63         | 2915 Btuh  |            |
| 7             | 2, Clear, 0.87, None,N,N                     | SE              | 1.5ft.   | 5.5ft.        | 30.0              | 12.1         | 17.9      | 29     | 63         | 1468 Btuh  |            |
| Window Total  |                                              |                 |          |               |                   | 214 (sqft)   |           |        |            |            | 11570 Btuh |
| Walls         | Type                                         | R-Value/U-Value |          |               | Area(sqft)        |              |           | HTM    |            | Load       |            |
| 1             | Frame - Wood - Ext                           | 13.0/0.09       |          |               | 1218.3            |              |           | 2.1    |            | 2541 Btuh  |            |
| Wall Total    |                                              |                 |          |               |                   | 1218 (sqft)  |           |        |            |            | 2541 Btuh  |
| Doors         | Type                                         |                 |          |               | Area (sqft)       |              |           | HTM    |            | Load       |            |
| 1             | Insulated - Exterior                         |                 |          |               | 40.0              |              |           | 9.8    |            | 392 Btuh   |            |
| Door Total    |                                              |                 |          |               |                   | 40 (sqft)    |           |        |            |            | 392 Btuh   |
| Ceilings      | Type/Color/Surface                           | R-Value         |          |               | Area(sqft)        |              |           | HTM    |            | Load       |            |
| 1             | Vented Attic/DarkShingle                     | 30.0            |          |               | 1408.0            |              |           | 1.7    |            | 2332 Btuh  |            |
| Ceiling Total |                                              |                 |          |               |                   | 1408 (sqft)  |           |        |            |            | 2332 Btuh  |
| Floors        | Type                                         | R-Value         |          |               | Size              |              |           | HTM    |            | Load       |            |
| 1             | Slab On Grade                                | 0.0             |          |               | 184 (ft(p))       |              |           | 0.0    |            | 0 Btuh     |            |
| Floor Total   |                                              |                 |          |               |                   | 184.0 (sqft) |           |        |            |            | 0 Btuh     |
|               | Zone Envelope Subtotal:                      |                 |          |               |                   |              |           |        |            | 16835 Btuh |            |
| Infiltration  | Type                                         | ACH             |          |               | Volume(cuft)      |              |           | CFM=   |            | Load       |            |
|               | SensibleNatural                              | 0.49            |          |               | 11264             |              |           | 92.0   |            | 1712 Btuh  |            |
| Internal gain | Occupants                                    |                 |          | Btuh/occupant |                   |              | Appliance |        | Load       |            |            |
|               | 6                                            |                 |          | X 230 +       |                   |              | 0         |        | 1380 Btuh  |            |            |
| Duct load     | Unsealed, R6.0, Supply(Attic), Return(Attic) |                 |          |               |                   |              |           |        | DGM = 0.00 | 0.0 Btuh   |            |
|               | Sensible Zone Load                           |                 |          |               |                   |              |           |        |            | 19927 Btuh |            |

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Webb, John & Alice  
SW Infiniti Place,  
, FL

Project Title:  
609052Webb,John&Alice

Class 3 Rating  
Registration No. 0  
Climate: North

9/15/2006

### WHOLE HOUSE TOTALS

|                                           |                                                           |                   |
|-------------------------------------------|-----------------------------------------------------------|-------------------|
| <b>Whole House<br/>Totals for Cooling</b> | <b>Sensible Envelope Load All Zones</b>                   | <b>19927 Btuh</b> |
|                                           | Sensible Duct Load                                        | 0 Btuh            |
|                                           | <b>Total Sensible Zone Loads</b>                          | <b>19927 Btuh</b> |
|                                           | Sensible ventilation                                      | 0 Btuh            |
|                                           | Blower                                                    | 0 Btuh            |
|                                           | <b>Total sensible gain</b>                                | <b>19927 Btuh</b> |
|                                           | Latent infiltration gain (for 54 gr. humidity difference) | 3362 Btuh         |
|                                           | Latent ventilation gain                                   | 0 Btuh            |
|                                           | Latent duct gain                                          | 0 Btuh            |
|                                           | Latent occupant gain (6 people @ 200 Btuh per person)     | 1200 Btuh         |
|                                           | Latent other gain                                         | 0 Btuh            |
|                                           | <b>Latent total gain</b>                                  | <b>4562 Btuh</b>  |
|                                           | <b>TOTAL GAIN</b>                                         | <b>24489 Btuh</b> |

\*Key: Window types (Pn - Number of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



For Florida residences only

# System Sizing Calculations - Summer

## Residential Load - Room by Room Component Details

Webb, John & Alice  
SW Infiniti Place,  
, FL

Project Title:  
609052Webb,John&Alice

Class 3 Rating  
Registration No. 0  
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F  
This calculation is for Worst Case. The house has been rotated 315 degrees.

9/15/2006

### Component Loads for Zone #1: Main

| Window        | Type*                                        |                 | Overhang |               | Window Area(sqft) |        |           | HTM        |           | Load       |      |
|---------------|----------------------------------------------|-----------------|----------|---------------|-------------------|--------|-----------|------------|-----------|------------|------|
|               | Pn/SHGC/U/InSh/ExSh/IS                       | Ornt            | Len      | Hgt           | Gross             | Shaded | Unshaded  | Shaded     | Unshaded  |            |      |
| 1             | 2, Clear, 0.87, None,N,N                     | NW              | 1.5ft.   | 1.25f         | 2.0               | 0.0    | 2.0       | 29         | 60        | 120        | Btuh |
| 2             | 2, Clear, 0.87, None,N,N                     | NW              | 1.5ft.   | 3.5ft.        | 54.0              | 0.0    | 54.0      | 29         | 60        | 3242       | Btuh |
| 3             | 2, Clear, 0.87, None,N,N                     | NW              | 1.5ft.   | 5.5ft.        | 45.0              | 0.0    | 45.0      | 29         | 60        | 2702       | Btuh |
| 4             | 2, Clear, 0.87, None,N,N                     | NW              | 1.5ft.   | 4.5ft.        | 16.0              | 0.0    | 16.0      | 29         | 60        | 961        | Btuh |
| 5             | 2, Clear, 0.87, None,N,N                     | NE              | 1.5ft.   | 1.25f         | 2.7               | 0.0    | 2.7       | 29         | 60        | 162        | Btuh |
| 6             | 2, Clear, 0.87, None,N,N                     | SE              | 1.5ft.   | 4.5ft.        | 64.0              | 32.4   | 31.6      | 29         | 63        | 2915       | Btuh |
| 7             | 2, Clear, 0.87, None,N,N                     | SE              | 1.5ft.   | 5.5ft.        | 30.0              | 12.1   | 17.9      | 29         | 63        | 1468       | Btuh |
| Window Total  |                                              |                 |          |               | 214 (sqft)        |        |           |            |           | 11570 Btuh |      |
| Walls         | Type                                         | R-Value/U-Value |          |               | Area(sqft)        |        |           | HTM        |           | Load       |      |
| 1             | Frame - Wood - Ext                           | 13.0/0.09       |          |               | 1218.3            |        |           | 2.1        |           | 2541 Btuh  |      |
| Wall Total    |                                              |                 |          |               | 1218 (sqft)       |        |           |            |           | 2541 Btuh  |      |
| Doors         | Type                                         |                 |          |               | Area (sqft)       |        |           | HTM        |           | Load       |      |
| 1             | Insulated - Exterior                         |                 |          |               | 40.0              |        |           | 9.8        |           | 392 Btuh   |      |
| Door Total    |                                              |                 |          |               | 40 (sqft)         |        |           |            |           | 392 Btuh   |      |
| Ceilings      | Type/Color/Surface                           | R-Value         |          |               | Area(sqft)        |        |           | HTM        |           | Load       |      |
| 1             | Vented Attic/DarkShingle                     | 30.0            |          |               | 1408.0            |        |           | 1.7        |           | 2332 Btuh  |      |
| Ceiling Total |                                              |                 |          |               | 1408 (sqft)       |        |           |            |           | 2332 Btuh  |      |
| Floors        | Type                                         | R-Value         |          |               | Size              |        |           | HTM        |           | Load       |      |
| 1             | Slab On Grade                                | 0.0             |          |               | 184 (ft(p))       |        |           | 0.0        |           | 0 Btuh     |      |
| Floor Total   |                                              |                 |          |               | 184.0 (sqft)      |        |           |            |           | 0 Btuh     |      |
|               | Zone Envelope Subtotal:                      |                 |          |               |                   |        |           |            |           | 16835 Btuh |      |
| Infiltration  | Type                                         | ACH             |          |               | Volume(cuft)      |        |           | CFM=       |           | Load       |      |
|               | SensibleNatural                              | 0.49            |          |               | 11264             |        |           | 92.0       |           | 1712 Btuh  |      |
| Internal gain | Occupants                                    |                 |          | Btuh/occupant |                   |        | Appliance |            | Load      |            |      |
|               | 6                                            |                 |          | X 230 +       |                   |        | 0         |            | 1380 Btuh |            |      |
| Duct load     | Unsealed, R6.0, Supply(Attic), Return(Attic) |                 |          |               |                   |        |           | DGM = 0.00 |           | 0.0 Btuh   |      |
|               | Sensible Zone Load                           |                 |          |               |                   |        |           |            |           | 19927 Btuh |      |

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Webb, John & Alice  
SW Infiniti Place,  
, FL

Project Title:  
609052Webb,John&Alice

Class 3 Rating  
Registration No. 0  
Climate: North

9/15/2006

### WHOLE HOUSE TOTALS

|                                           |                                                           |                   |
|-------------------------------------------|-----------------------------------------------------------|-------------------|
| <b>Whole House<br/>Totals for Cooling</b> | <b>Sensible Envelope Load All Zones</b>                   | <b>19927 Btuh</b> |
|                                           | Sensible Duct Load                                        | 0 Btuh            |
|                                           | <b>Total Sensible Zone Loads</b>                          | <b>19927 Btuh</b> |
|                                           | Sensible ventilation                                      | 0 Btuh            |
|                                           | Blower                                                    | 0 Btuh            |
|                                           | <b>Total sensible gain</b>                                | <b>19927 Btuh</b> |
|                                           | Latent infiltration gain (for 54 gr. humidity difference) | 3362 Btuh         |
|                                           | Latent ventilation gain                                   | 0 Btuh            |
|                                           | Latent duct gain                                          | 0 Btuh            |
|                                           | Latent occupant gain (6 people @ 200 Btuh per person)     | 1200 Btuh         |
|                                           | Latent other gain                                         | 0 Btuh            |
|                                           | <b>Latent total gain</b>                                  | <b>4562 Btuh</b>  |
|                                           | <b>TOTAL GAIN</b>                                         | <b>24489 Btuh</b> |

\*Key: Window types (Pn - Number of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



For Florida residences only

# Residential Window Diversity

## MidSummer

Webb, John & Alice  
SW Infiniti Place,  
, FL

Project Title:  
609052Webb,John&Alice

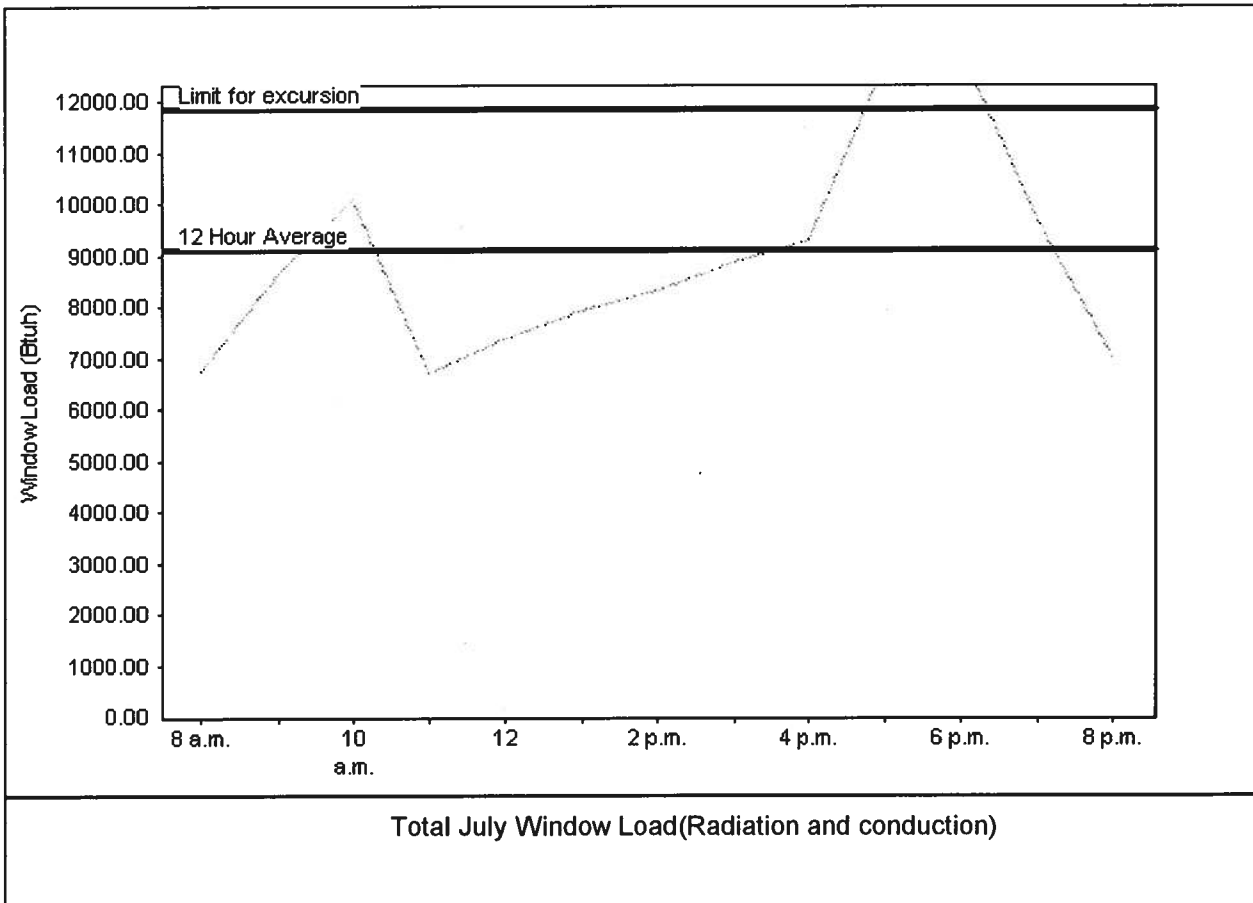
Class 3 Rating  
Registration No. 0  
Climate: North

9/15/2006

Weather data for: Gainesville - Defaults

|                               |          |                               |           |
|-------------------------------|----------|-------------------------------|-----------|
| Summer design temperature     | 92 F     | Average window load for July  | 9129 Btuh |
| Summer setpoint               | 75 F     | Peak window load for July     | 12942 Btu |
| Summer temperature difference | 17 F     | Excursion limit(130% of Ave.) | 11868 Btu |
| Latitude                      | 29 North | Window excursion (July)       | 1074 Btuh |

## WINDOW Average and Peak Loads



Warning: This application has glass areas that produce relatively large heat gains for part of the day. Variable air volume devices may be required to overcome spikes in solar gain for one or more rooms. A zoned system may be required or some rooms may require zone control.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: *Ben*

DATE: *9-15-06*

EnergyGauge® FLR2PB v4.1



**Test Specimen Description: (Continued)**

*The following descriptions apply to all specimens.*

**Finish:** All vinyl was white.

**Glazing Details:** The active sash and fixed lite utilized 3/4" thick, insulating glass fabricated from two sheets of clear annealed glass and a "U" shaped metal spacer system. The glass was exterior glazed against dual-sided adhesive foam tape. The glass was secured with vinyl snap-in glazing beads.

**Weatherstripping:**

| <u>Description</u>                                    | <u>Quantity</u> | <u>Location</u>                                |
|-------------------------------------------------------|-----------------|------------------------------------------------|
| 0.187" backed by 0.170" high polypile with center fin | 1 Row           | Top rail, bottom rail, and jamb stile per sash |
| 0.187" backed by 0.190" high polypile with center fin | 1 Row           | Sash meeting stile                             |
| 0.187" backed by 0.240" high polypile with center fin | 1 Row           | Fixed meeting stile                            |

**Frame Construction:** All frame members were constructed of extruded vinyl. All corners were mitered and welded. The fixed meeting stile was butted against the head and sill and secured with two #8 x 1-1/2" long flat head stainless steel screws per end. A foam pad was utilized at each end.

**Sash Construction:** All sash members were constructed of extruded vinyl. All corners were mitered and welded.

**Screen Construction:** All screen members were constructed of roll-formed aluminum. All corners were keyed. The screen mesh was secured with a flexible vinyl spline.

**Hardware:**

| <u>Description</u>              | <u>Quantity</u> | <u>Location</u>                                                     |
|---------------------------------|-----------------|---------------------------------------------------------------------|
| Metal spring retainer bar       | 2               | Ends of screen stile per screen                                     |
| Plastic pull tab                | 2               | Ends of screen stile per screen                                     |
| Metal cam lock                  | 1               | Midspan of sash with keeper aligned opposite on fixed meeting stile |
| Dual nylon rollers with housing | 2               | Ends of sash bottom rail                                            |

**Test Results: (Continued)**

| <u>Paragraph</u>                                                | <u>Title of Test - Test Method</u>                                                                                                      | <u>Results</u>  | <u>Allowed</u>  |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|
| <b><u>Test Specimen #2: HS-R13 73 x 48 (XO) (Continued)</u></b> |                                                                                                                                         |                 |                 |
| 2.1.4.2                                                         | Uniform Load Structural per ASTM E 330<br>(Permanent sets reported were taken on the meeting stile)<br>(Loads were held for 10 seconds) |                 |                 |
|                                                                 | 22.5 psf (positive)                                                                                                                     | 0.05"           | 0.18" max.      |
|                                                                 | 22.5 psf (negative)                                                                                                                     | 0.06"           | 0.18" max.      |
| 2.1.7                                                           | Welded Corner Test                                                                                                                      | Meets as stated | Meets as stated |
| 2.1.8                                                           | Forced Entry Resistance per CAWM 301-90<br><br>Type: 1                                                                                  |                 |                 |
|                                                                 | Disassembly Test                                                                                                                        | No entry        | No entry        |
|                                                                 | Test A through E                                                                                                                        | No entry        | No entry        |
| 2.2.2.5.2                                                       | Deglazing Test per ASTM E 987<br>In operating direction - 70 lbs                                                                        |                 |                 |
|                                                                 | Jamb stile                                                                                                                              | 0.13"/26%       | 0.50"/100%      |
|                                                                 | Meeting stile                                                                                                                           | 0.12"/24%       | 0.50"/100%      |
|                                                                 | In remaining direction - 50 lbs                                                                                                         |                 |                 |
|                                                                 | Top rail                                                                                                                                | 0.06"/12%       | 0.50"/100%      |
|                                                                 | Bottom rail                                                                                                                             | 0.06"/12%       | 0.50"/100%      |

**Test Specimen #3: HS-R35\* 73 x 36 (XO)**

**Optional Performance**

|     |                                                              |            |            |
|-----|--------------------------------------------------------------|------------|------------|
| 4.3 | Water Resistance per ASTM E 547<br>(with and without screen) |            |            |
|     | 5.25 psf                                                     | No leakage | No leakage |



**Test Results: (Continued)**

| <u>Paragraph</u>                                                                                                                                 | <u>Title of Test - Test Method</u>                                       | <u>Results</u>  | <u>Allowed</u>  |
|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------|-----------------|
| <b><u>Test Specimen #1:</u></b> HS-R30 75 x 60 (Continued)                                                                                       |                                                                          |                 |                 |
| 2.1.3                                                                                                                                            | Water Resistance per ASTM E 547<br>(with and without screen)<br>2.86 psf | No leakage      | No leakage      |
| 2.1.4.1                                                                                                                                          | Uniform Load Deflection Test per ASTM E 330                              |                 | See Note #2     |
| 2.1.4.2                                                                                                                                          | Uniform Load Structural Test per ASTM E 330                              |                 | See Note #2     |
| <b>Note #2:</b> The client opted to start at a pressure higher than the minimum required. Those results are listed under "Optional Performance". |                                                                          |                 |                 |
| 2.1.7                                                                                                                                            | Welded Corner Test                                                       | Meets as stated | Meets as stated |
| 2.1.8                                                                                                                                            | Forced Entry Resistance per CAWM 301-90<br><br>Type: I                   |                 |                 |
|                                                                                                                                                  | Disassembly Test                                                         | No entry        | No entry        |
|                                                                                                                                                  | Test A through E                                                         | No entry        | No entry        |
| 2.2.2.5.2                                                                                                                                        | Deglazing Test per ASTM E 987<br>In operating direction - 70 lbs         |                 |                 |
|                                                                                                                                                  | Jamb stile                                                               | 0.13"/26%       | 0.50"/100%      |
|                                                                                                                                                  | Meeting stile                                                            | 0.12"/24%       | 0.50"/100%      |
|                                                                                                                                                  | In remaining direction - 50 lbs                                          |                 |                 |
|                                                                                                                                                  | Top rail                                                                 | 0.06"/12%       | 0.50"/100%      |
|                                                                                                                                                  | Bottom rail                                                              | 0.06"/12%       | 0.50"/100%      |

**Optional Performance**

|     |                                                                          |            |            |
|-----|--------------------------------------------------------------------------|------------|------------|
| 4.3 | Water Resistance per ASTM E 547<br>(with and without screen)<br>5.25 psf | No leakage | No leakage |
|-----|--------------------------------------------------------------------------|------------|------------|

|                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                           |
|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|                                                                              | Footboard: No<br>Wood Extension Jamb: None<br>Lead Time: 14 Days                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |
| <b>0001</b><br>RO Size = 48" W x 48" H<br>Frame Size = 47 1/2" W x 47 1/2" H | Manufacturer: ThermoStar by Pella (TM)<br>47 1/2" x 47 1/2"<br>Product: Windows<br>Type: Sliding<br>Manufacturer: ThermoStar by Pella (TM)<br>Room Location: OTHER I<br>Material: Vinyl<br>Frame Type (Overall Width): Nail Fin w/<br>J-Channel (2 11/16" OAW - 1 5/8" WD)<br>Series: 10 Series<br>Configuration: XO<br>Frame Size Width: 47 1/2"<br>Frame Size Height: 47 1/2"<br>Vent Size: 1/2 Vent<br>Exterior Finish: White<br>Interior Finish: White<br>Glazing: Low-E (Recommended)<br>Argon Gas Filled IG: Yes<br>Tempered Glass: No<br>Grilles Between Glass Type: None<br>Hardware: 1 Cam Keeper Lock Set<br>Hardware Color: White<br>Screen: Half Unit Fiberglass Screen<br>Lead Time: 14 Days | \$181.03    5    \$905.15 |
| <b>0003</b><br>RO Size = 36" W x 35" H<br>Frame Size = 35 1/2" W x 35 1/2" H | Manufacturer: ThermoStar by Pella (TM)<br>35 1/2" x 35 1/2"<br>Product: Windows<br>Type: Sliding<br>Manufacturer: ThermoStar by Pella (TM)<br>Room Location: OTHER I<br>Material: Vinyl<br>Frame Type (Overall Width): Nail Fin w/<br>J-Channel (2 11/16" OAW - 1 5/8" WD)<br>Series: 10 Series<br>Configuration: XC<br>Frame Size Width: 35 1/2"<br>Frame Size Height: 35 1/2"<br>Vent Size: 1/2 Vent<br>Exterior Finish: White<br>Interior Finish: White<br>Glazing: Low-E (Recommended)<br>Argon Gas Filled IG: Yes<br>Tempered Glass: No<br>Grilles Between Glass Type: None<br>Hardware: 1 Cam Keeper Lock Set<br>Hardware Color: White<br>Screen: Half Unit Fiberglass Screen<br>Lead Time: 14 Days | \$134.47    5    \$672.35 |
| <b>0004</b><br>RO Size = 36" W x 60" H<br>Frame Size = 35 1/2" W x 59 1/2" H | Manufacturer: ThermoStar by Pella (TM)<br>35 1/2" x 59 1/2"<br>Product: Windows<br>Type: Single Hungs<br>Manufacturer: ThermoStar by Pella (TM)<br>Room Location: OTHER I<br>Material: Vinyl<br>Frame Type (Overall Width): Nail Fin w/<br>J-Channel (2 11/16" OAW - 1 5/8" WD)                                                                                                                                                                                                                                                                                                                                                                                                                           | \$185.40    5    \$927.00 |



Series: 10 Series  
Configuration: One Wide  
Frame Size Width: 35 1/2"  
Frame Size Height: 59 1/2"  
Vent Size: 1/2 Vent  
Exterior Finish: White  
Interior Finish: White  
Glazing: Low-E (Recommended)  
Argon Gas Filled IG: Yes  
Tempered Glass: No  
Grilles Between Glass Type: None  
Hardware: 2 Cam/Keeper Lock Sets  
Hardware Color: White  
Screen: Half Unit Fiberglass Screen  
Design Performance: Standard  
Lead Time: 14 Days

Salesperson: DEB MORRISON (S0179DM2)

Project Total: \$2,762.18

Accepted by: \_\_\_\_\_

Date: 10/19/2006

[Print this Page](#)

**This Millwork Quote is valid until 10/18/2006. This is an estimate only. This estimate does not include tax or delivery charges. Delivery of all materials contained in this estimate are subject to availability from the manufacturer or supplier. All the above quantities, dimensions, specifications and accessories have been verified and accepted.**

[Back to Quote](#)

Date: 10/19/2006

LOWE'S HOME CENTERS, INC.

#179

3463 NW BASCOM NORRIS DRIVE  
LAKE CITY, FL 32055  
(386) 719-6622

Project #: 168268201 Description: windows  
 Customer Name: JOHN WEBB  
 Customer Phone: (386) 754-6508  
 Customer Address: 488 SW SHEPPARD  
 WAY  
 LAKE CITY FL 32024

| Line Item<br>Frame Size                                                                                                                                   | Product Code<br>Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Unit Price | Quantity | Total Price |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|-------------|
| 0005<br>RO Size = 36" W x 12" H<br>FS Size = 35 1/2" W x 11 1/2" H<br> | Manufacturer: ReliaBilt by W Lok<br>Division: Millwork<br>Product: Windows<br>Type: Transoms<br>Manufacturer: ReliaBilt by W Lok<br>Product Type: Slider Picture Window Transom<br>Product Line: New Construction<br>Series: 451<br>Color: White<br>*****See in-store displays for exact color samples for both interior and exterior color.*****<br>Glass Energy Efficiency: Low-E w/ Argon<br>Glass Color: Clear<br>*****The graphics present an estimation of the color and are not a completely accurate representation *****<br>Glass Strength/Safety: Double Strength<br>Grid Type: No Grids<br>Footbolt: No<br>Wood Extension Jamb: None<br>Lead Time: 14 Days | \$106.82   | 1        | \$106.82    |
| 0011<br>RO Size = 48" W x 12" H<br>FS Size = 47 1/2" W x 11 1/2" H<br> | Manufacturer: ReliaBilt by W Lok<br>Division: Millwork<br>Product: Windows<br>Type: Transoms<br>Manufacturer: ReliaBilt by W Lok<br>Product Type: Slider Picture Window Transom<br>Product Line: New Construction<br>Series: 451<br>Color: White<br>*****See in-store displays for exact color samples for both interior and exterior color.*****<br>Glass Energy Efficiency: Low-E w/ Argon<br>Glass Color: Clear<br>*****The graphics present an estimation of the color and are not a completely accurate representation *****<br>Glass Strength/Safety: Tempered<br>Grid Type: No Grids                                                                           | \$150.86   | 1        | \$150.86    |



# **NOTICE**

THIS DOCUMENT IS BEING PROVIDED FOR THE LIMITED PURPOSE OF OBTAINING BUILDING CODE APPROVAL. ACTUAL TEST RESULTS PROVIDED HEREIN SUPPORT AND, IN SOME CASES, EXCEED PUBLISHED PERFORMANCE CLAIMS. SEE PRODUCT LITERATURE FOR COMPLETE PERFORMANCE INFORMATION.

## **ANSI/AAMA/NWDA 101/LS.2-97 TEST REPORT**

Rendered to:

**PELLA WINDOWS AND DOORS**

**SERIES/MODEL: 10 Series Sliding Window  
with Integral Sill Track (XO)**

**PRODUCT TYPE: Vinyl Horizontal Sliding Window**

| Summary of Results                    |                          |                          |                  |
|---------------------------------------|--------------------------|--------------------------|------------------|
| Title                                 | Test Specimen #1         | Test Specimen #2         | Test Specimen #3 |
| Rating                                | HS-R30 73 x 60           | HS-R15 73 x 48           | HS-R35* 73 x 36  |
| Operating Force                       | 8 lbf                    | 13 lbf                   | N/A              |
| Air Infiltration                      | 0.10 cfm/ft <sup>2</sup> | 0.06 cfm/ft <sup>2</sup> | N/A              |
| Water Resistance Test Pressure        | 5.25 psf                 | 2.86 psf                 | 5.25 psf         |
| Uniform Load Deflection Test Pressure | +31.0 psf/-30.0 psf      | ±15.0 psf                | ±35.0 psf        |
| Uniform Load Structural Test Pressure | +46.5 psf/-45.0 psf      | ±22.5 psf                | ±52.5 psf        |
| Forced Entry Resistance               | Type I                   | Type I                   | N/A              |

Reference should be made to ATI Report No. 58118.02-122-44 for complete test specimen description and data.

130 Derry Court  
York, PA 17402-9405  
phone: 717-764-7700  
fax: 717-764-4129  
www.archtest.com

**Test Specimen Description: (Continued)**

**Test Specimen #1:** HS-R30 73 x 60 (Continued)

**Glazing Type:** 1/8" clear annealed glass

**Reinforcement:** Steel reinforcement in the fixed meeting stile and the sash meeting stile.

**Test Specimen #2:** HS-R15 73 x 48

**Overall Size:** 6' 1-1/2" wide by 4' 0" high

**Active Sash Size:** 3' 0-1/4" wide by 3' 10" high

**Fixed Daylight Opening Size:** 2' 9-1/2" wide by 3' 9" high

**Screen Size:** 2' 11-1/2" wide by 3' 10" high

**Glazing Type:** 3/32" clear annealed glass

**Reinforcement:** Steel reinforcement in the sash meeting stile.

**Test Specimen #3:** HS-R35\* 73 x 36

**Overall Size:** 6' 1-1/2" wide by 3' 0" high

**Active Sash Size:** 3' 0-1/4" wide by 2' 10" high

**Fixed Daylight Opening Size:** 2' 9-3/8" wide by 2' 8-7/8" high

**Screen Size:** 2' 11-3/16" wide by 2' 10-1/8" high

**Glazing Type:** 3/32" clear annealed glass

**Reinforcement:** Steel reinforcement in the sash meeting stile.

**Test Specimen Description: (Continued)**

**Drainage:**

| <u>Description</u>               | <u>Quantity</u> | <u>Location</u>                              |
|----------------------------------|-----------------|----------------------------------------------|
| 5/8" wide by 3/16" high weepslot | 2               | 3-15/16" from ends of each bottom rail       |
| 5/8" wide by 1/8" high weepslot  | 2               | 2-3/8" from ends of sill interior sash track |
| 5/8" wide by 1/8" high weepslot  | 2               | 2-3/8" from ends of the sill screen track    |
| 1" wide by 1/8" high weepslot    | 4               | Ends of vertical legs in the sill hollows    |
| 1" wide by 1/8" high weepslot    | 2               | 3" from ends of the sill face                |
| 1/8" diameter weephole           | 2               | At fixed meeting stile on sill               |

**Installation:** The window was installed into a Spruce-Pine-Fir #2 wood test buck. The window was secured with 2" long galvanized roofing nails, 3" from ends and 8" on center. The nails went through the flange and into the test buck. Adhesive backed flashing tape was utilized over the flange at the exterior perimeter.

**Test Results:** The results are tabulated as follows:

| <u>Paragraph</u>                               | <u>Title of Test - Test Method</u>          | <u>Results</u>           | <u>Allowed</u>          |
|------------------------------------------------|---------------------------------------------|--------------------------|-------------------------|
| <b><u>Test Specimen #1:</u> HS-R30 73 x 60</b> |                                             |                          |                         |
| 2.2.2.5.1                                      | Operating Force                             | 8 lbf                    | 20 lbf                  |
| 2.1.2                                          | Air Infiltration per ASTM E 283<br>1.57 psf | 0.10 cfm/ft <sup>2</sup> | 0.3 cfm/ft <sup>2</sup> |

**Note #1:** The tested specimen meets (or exceeds) the performance levels specified in ANSI/AAMA/NWDA 101/I.S.2-97 for air infiltration.

**Test Results: (Continued)**

| <u>Paragraph</u>                                           | <u>Title of Test - Test Method</u>                                                                                                   | <u>Results</u> | <u>Allowed</u> |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|
| <b><u>Test Specimen #1: HS-R30 73 x 60 (Continued)</u></b> |                                                                                                                                      |                |                |
| <b><u>Optional Performance: (Continued)</u></b>            |                                                                                                                                      |                |                |
| 4.4.1                                                      | Uniform Load Deflection per ASTM E 330<br>(Deflections reported were taken on the meeting stile)<br>(Loads were held for 52 seconds) |                |                |
|                                                            | 31.0 psf (positive)                                                                                                                  | 1.03"          | See Note #3    |
|                                                            | 30.0 psf (negative)                                                                                                                  | 1.14"          | See Note #3    |

**Note #3:** The Uniform Load Deflection test is not a requirement of ANSI/AAMA/NWWDA 101/I.S.2-97 for this product designation. The deflection data is recorded in this report for special code compliance and information only.

|       |                                                                                                                                         |       |            |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|------------|
| 4.4.2 | Uniform Load Structural per ASTM E 330<br>(Permanent sets reported were taken on the meeting stile)<br>(Loads were held for 10 seconds) |       |            |
|       | 46.5 psf (positive)                                                                                                                     | 0.21" | 0.23" max. |
|       | 45.0 psf (negative)                                                                                                                     | 0.11" | 0.23" max. |

**Test Specimen #2: HS-R15 73 x 48 (XO)**

|           |                                                                                                                                           |                          |                         |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------|
| 2.2.2.5.1 | Operating Force                                                                                                                           | 13 lbf                   | 20 lbf                  |
| 2.1.2     | Air Infiltration per ASTM E 283<br>1.57 psf                                                                                               | 0.06 cfm/ft <sup>2</sup> | 0.3 cfm/ft <sup>2</sup> |
| 2.1.3     | Water Resistance per ASTM E 547<br>(with and without screen)<br>2.86 psf                                                                  | No leakage               | No leakage              |
| 2.1.4.1   | Uniform Load Deflection Test per ASTM E 330<br>(Deflections reported were taken on the meeting stile)<br>(Loads were held for 52 seconds) |                          |                         |
|           | 15.0 psf (positive)                                                                                                                       | 0.49"                    | See Note #3             |
|           | 15.0 psf (negative)                                                                                                                       | 0.41"                    | See Note #3             |



**Test Results: (Continued)**

| <u>Paragraph</u>                                          | <u>Title of Test - Test Method</u>                                                                                                      | <u>Results</u> | <u>Allowed</u> |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|
| <b>Test Specimen #3: HS-R35* 73 x 36 (XO) (Continued)</b> |                                                                                                                                         |                |                |
| 4.4.1                                                     | Uniform Load Deflection per ASTM E 330<br>(Deflections reported were taken on the meeting stile)<br>(Loads were held for 52 seconds)    |                |                |
|                                                           | 35.0 psf (positive)                                                                                                                     | 0.42"          | See Note #3    |
|                                                           | 35.0 psf (negative)                                                                                                                     | 0.41"          | See Note #3    |
| 4.4.2                                                     | Uniform Load Structural per ASTM E 330<br>(Permanent sets reported were taken on the meeting stile)<br>(Loads were held for 10 seconds) |                |                |
|                                                           | 52.5 psf (positive)                                                                                                                     | 0.03"          | 0.14" max.     |
|                                                           | 52.5 psf (negative)                                                                                                                     | 0.05"          | 0.14" max.     |

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years from the original test date. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator. This report may not be reproduced, except in full, without approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC:

*Jay Leader* *UMS*

Digitally Signed for: Jay Leader by Vicki L. McSwain

Jay Leader  
Technician

JL:jld/vlm

Attachments (pages):  
Appendix-A: Drawings (14)

*St 2 2*

Digitally Signed by: Steven M. Urich

Steven M. Urich, P.E.  
Senior Project Engineer





### NOTICE

THIS DOCUMENT IS BEING PROVIDED FOR  
THE LIMITED PURPOSE OF OBTAINING  
BUILDING CODE APPROVAL. ACTUAL TEST  
RESULTS PROVIDED HEREIN SUPPORT AND,  
IN SOME CASES, EXCEED PUBLISHED  
PERFORMANCE CLAIMS. SEE PRODUCT  
LITERATURE FOR COMPLETE  
PERFORMANCE INFORMATION.

### ANSI/AAMA/NWDA 101/LS-2-97 TEST REPORT

Rendered to:

**PELLA WINDOWS AND DOORS**

**SERIES/MODEL: 10 Series Sliding Window  
with Integral Sill Track (XOX)**

**PRODUCT TYPE: Vinyl Horizontal Sliding Window**

| Title                                 | Summary of Results       |                     |                          |
|---------------------------------------|--------------------------|---------------------|--------------------------|
|                                       | Test Specimen #1         | Test Specimen #2    | Test Specimen #3         |
| Rating                                | HS-R20* 108 x 60         | HS-R30* 108 x 48    | HS-R35* 108 x 36         |
| Air Infiltration                      | 0.09 cfm/ft <sup>2</sup> | N/A                 | 0.13 cfm/ft <sup>2</sup> |
| Water Resistance Test Pressure        | 4.50 psf                 | 4.50 psf            | 5.25 psf                 |
| Uniform Load Deflection Test Pressure | +22.0 psf/-20.0 psf      | +41.0 psf/-35.0 psf | +41.0 psf/-35.0 psf      |
| Uniform Load Structural Test Pressure | +33.0 psf/-30.0 psf      | +61.5 psf/-52.5 psf | +61.5 psf/-52.5 psf      |

Reference should be made to ATI Report No. 58118.01-122-44 for complete test specimen description and data.

130 Derry Court  
York, PA 17402-9405  
phone: 717-764-7700  
fax: 717-764-4129  
www.archtest.com

**Test Specimen Description: (Continued)**

**Test Specimen #1:** HS-R20\* 108 x 60 (Continued)

**Glazing Type:** 1/8" clear annealed glass

**Reinforcement:** Steel reinforcement in the fixed meeting stile and the sash meeting stile.

**Test Specimen #2:** HS-R30\* 108 x 48

**Overall Size:** 9' 0" wide by 4' 0" high

**Active Sash Size (2):** 2' 2-3/8" wide by 3' 9-7/8" high

**Fixed Daylight Opening Size:** 4' 2-1/2" wide by 3' 8-3/4" high

**Screen Size (2):** 2' 1-3/8" wide by 3' 10-1/8" high

**Glazing Type:** 1/8" clear annealed glass

**Reinforcement:** Steel reinforcement in the fixed meeting stile and the sash meeting stile.

**Test Specimen #3:** HS-R35\* 108 x 36

**Overall Size:** 9' 0" wide by 3' 0" high

**Active Sash Size (2):** 2' 2-1/4" wide by 2' 10" high

**Fixed Daylight Opening Size:** 4' 3-1/2" wide by 2' 10-1/4" high

**Screen Size (2):** 2' 1-1/2" wide by 2' 10-1/8" high

**Glazing Type:** 1/8" clear annealed glass

**Reinforcement:** Steel reinforcement in the sash meeting rail.

**Test Specimen Description: (Continued)**

**Hardware:**

| <u>Description</u>              | <u>Quantity</u> | <u>Location</u>                                                                |
|---------------------------------|-----------------|--------------------------------------------------------------------------------|
| Metal spring retainer bar       | 4               | Ends of screen stile per screen                                                |
| Plastic pull tab                | 4               | Ends of screen stile per screen                                                |
| Metal cam lock                  | 2               | Midspace of each sash with keeper aligned opposite on each fixed meeting stile |
| Dual nylon rollers with housing | 4               | Ends of each sash bottom rail                                                  |

**Drainage:**

| <u>Description</u>               | <u>Quantity</u> | <u>Location</u>                                        |
|----------------------------------|-----------------|--------------------------------------------------------|
| 5/8" wide by 3/16" high weepslot | 4               | 3-15/16" from ends of each bottom rail                 |
| 5/8" wide by 1/8" high weepslot  | 4               | Two weeps 2-3/8" from ends of sill interior sash track |
| 5/8" wide by 1/8" high weepslot  | 2               | 2-3/8" from ends of the sill screen track              |
| 1" wide by 1/8" high weepslot    | 4               | Ends of vertical legs in the sill hollows              |
| 1/8" diameter weephole           | 4               | Two at each fixed meeting stile on sill                |

**Installation:** The window was installed into a Spruce-Pine-Fir #2 wood test buck. The window was secured with 2" long galvanized roofing nails, 3" from ends and 8" on center. The nails went through the flange and into the test buck. Adhesive backed flashing tape was utilized over the flange at the exterior perimeter.

**Test Results: (Continued)**

| <u>Paragraph</u>                                       | <u>Title of Test - Test Method</u> | <u>Results</u> | <u>Allowed</u> |
|--------------------------------------------------------|------------------------------------|----------------|----------------|
| <b><u>Test Specimen #2: HS-R30* 108 x 48 (XOX)</u></b> |                                    |                |                |

**Optional Performance**

|       |                                                                                                                                                                                       |                |                            |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------|
| 4.3   | Water Resistance per ASTM E 547<br>(with and without screen)<br>4.50 psf                                                                                                              | No leakage     | No leakage                 |
| 4.4.1 | Uniform Load Deflection per ASTM E 330<br>(Deflections reported were taken on the meeting stile)<br>(Loads were held for 52 seconds)<br>41.0 psf (positive)<br>35.0 psf (negative)    | 0.68"<br>0.53" | See Note #2<br>See Note #2 |
| 4.4.2 | Uniform Load Structural per ASTM E 330<br>(Permanent sets reported were taken on the meeting stile)<br>(Loads were held for 10 seconds)<br>61.5 psf (positive)<br>52.5 psf (negative) | 0.09"<br>0.02" | 0.19" max.<br>0.19" max.   |

**Test Specimen #3: HS-R35\* 108 x 36 (XOX)**

|       |                                                      |                          |                              |
|-------|------------------------------------------------------|--------------------------|------------------------------|
| 2.1.2 | Air Infiltration per ASTM E 283<br>1.57 psf (25 mph) | 0.13 cfm/ft <sup>2</sup> | 0.3 cfm/ft <sup>2</sup> max. |
|-------|------------------------------------------------------|--------------------------|------------------------------|

***Note #1: The tested specimen meets (or exceeds) the performance levels specified in ANSI/AAMA/NWDA 101/1.S.2-97 for air infiltration.***

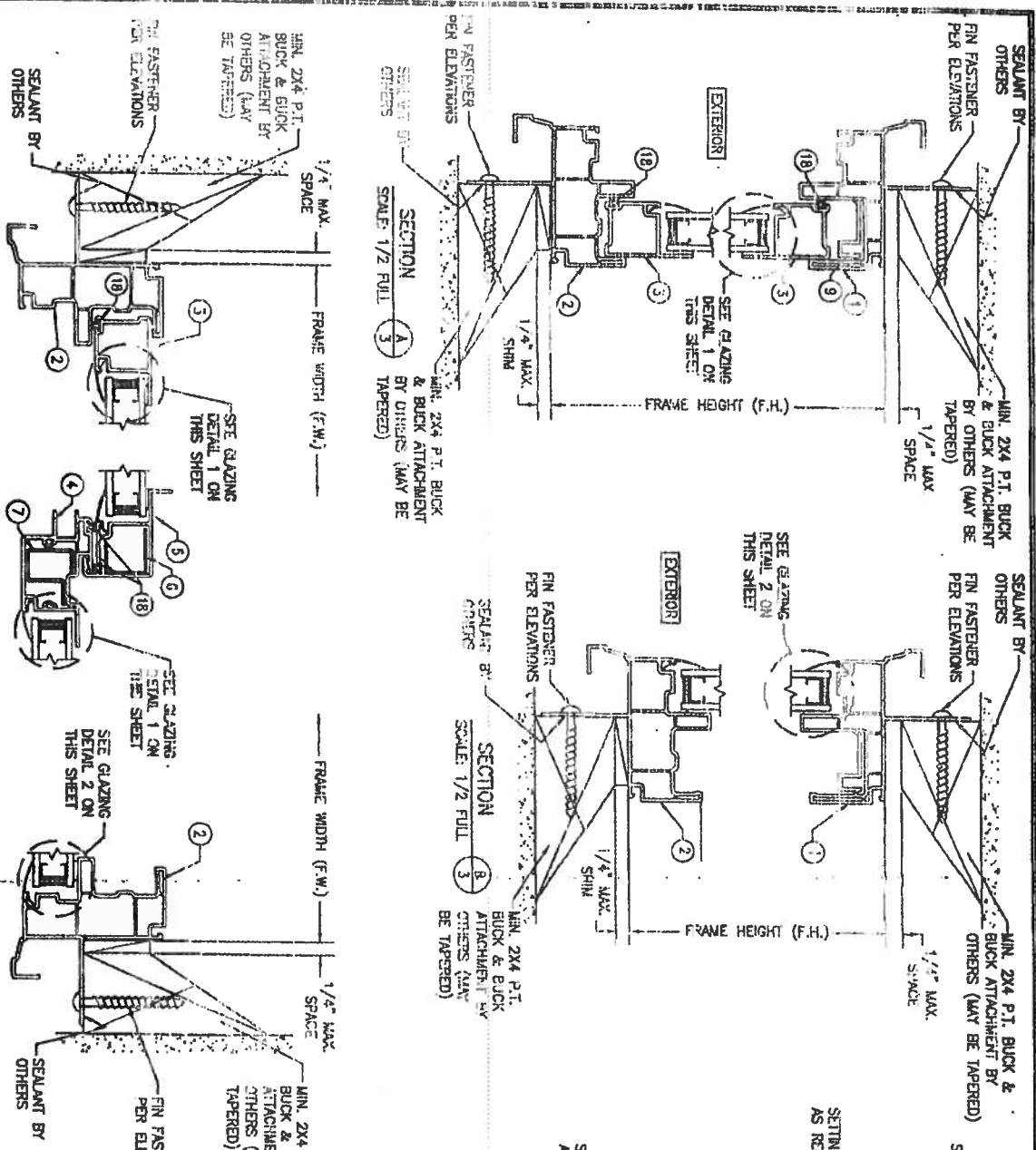
**Optional Performance**

|       |                                                                                                                                                                                    |                |                            |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------|
| 4.3   | Water Resistance per ASTM E 547<br>(with and without screen)<br>5.25 psf                                                                                                           | No leakage     | No leakage                 |
| 4.4.1 | Uniform Load Deflection per ASTM E 330<br>(Deflections reported were taken on the meeting stile)<br>(Loads were held for 52 seconds)<br>41.0 psf (positive)<br>35.0 psf (negative) | 0.52"<br>0.33" | See Note #2<br>See Note #2 |

Revision Log

| <u>Rev. #</u> | <u>Date</u> | <u>Page(s)</u>          | <u>Revision(s)</u>        |
|---------------|-------------|-------------------------|---------------------------|
| 0             | 09/23/05    | N/A                     | Original report issue     |
| 1             | 09/28/05    | Page 7                  | Added a Florida P.E. Seal |
| 2             | 10/13/05    | Summary Page and Page 1 | Changed Series/Model      |

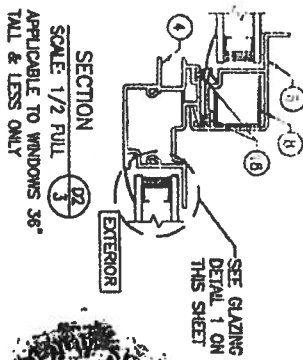




SECTION C  
SCALE: 1/2" FULL

SECTION D1  
SCALE: 1/2" FULL

SECTION E  
SCALE: 1/2" FULL

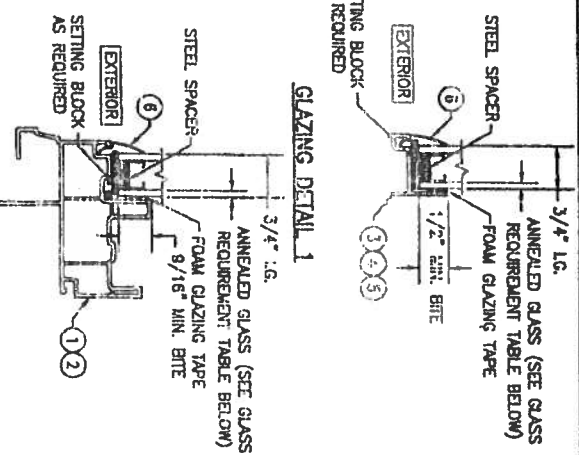


SECTION D2  
SCALE: 1/2" FULL  
APPLICABLE TO WINDOWS 36" TALL & LESS ONLY

**GLASS REQUIREMENT TABLE**

| D.L.O. SIZE                        | GLASS PANE THICKNESS |
|------------------------------------|----------------------|
| 12" x 24" FT. OR LESS              | 3/4" MIN.            |
| GREATER THAN 12" x 24" FT. OR LESS | 3/4" MIN.            |

GLAZING DETAIL 2



GLAZING DETAIL 1

|                                                                                          |                         |                                                                                                                                                                                                  |                           |                                                                                                        |                           |
|------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------------------------------------------------------------------------------|---------------------------|
| DRAWING TITLE<br><b>SERIES 10 VINYL HORIZONTAL SLIDING WINDOW W/ INTEGRAL SILL TRACK</b> |                         | CONSULTANTS<br><b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b><br>8806 N. MILITARY TRAIL, SUITE C-204<br>P.O. BOX 6000, GAITHERSBURG, MD 20878<br>PHONE: 301-775-4902 FAX: 301-775-4903 |                           | MANUFACTURER<br><b>PELLA CORPORATION</b><br>2000 PROLINE PLACE<br>GETTYSBURG, PA 17325<br>717-334-0099 |                           |
| SHEET NO.<br><b>3</b> OF <b>4</b>                                                        | DATE<br><b>10/15/93</b> | REVISION NO.<br><b>1</b>                                                                                                                                                                         | REVISION BY<br><b>WWS</b> | DATE<br><b>10/15/93</b>                                                                                | REVISION BY<br><b>WWS</b> |



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**Product Approval**  
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|                                                      |                                                                         |
|------------------------------------------------------|-------------------------------------------------------------------------|
| <b>FL #</b>                                          | FL6074                                                                  |
| <b>Application Type</b>                              | New                                                                     |
| <b>Code Version</b>                                  | 2004                                                                    |
| <b>Application Status</b>                            | Approved                                                                |
| <b>Comments</b>                                      |                                                                         |
| <b>Archived</b>                                      | <input type="checkbox"/>                                                |
| <b>Product Manufacturer</b>                          | Pella Corporation                                                       |
| <b>Address/Phone/Email</b>                           | 102 Main St.<br>Pella, IA 50219<br>(641) 521-1000<br>jahayden@pella.com |
| <b>Authorized Signature</b>                          | Joseph Hayden<br>jahayden@pella.com                                     |
| <b>Technical Representative</b>                      |                                                                         |
| <b>Address/Phone/Email</b>                           |                                                                         |
| <b>Quality Assurance Representative</b>              |                                                                         |
| <b>Address/Phone/Email</b>                           |                                                                         |
| <b>Category</b>                                      | Windows                                                                 |
| <b>Subcategory</b>                                   | Horizontal Slider                                                       |
| <b>Compliance Method</b>                             | Certification Mark or Listing                                           |
| <b>Certification Agency</b>                          | Window and Door Manufacturers Association                               |
| <b>Referenced Standard and Year (of Standard)</b>    | <b>Standard</b><br>ANSI/AAMA/NWWDA 101/1.S.2-97<br>ASTM E1300-02        |
| <b>Equivalence of Product Standards Certified By</b> |                                                                         |
| <b>Product Approval Method</b>                       | Method 1 Option A                                                       |

|                                                                                                                                                                                                                                                                             |                                                         |                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------------------|
| <b>Design Pressure:</b> +/-<br><b>Other:</b> HS-R30 (6ft 1-1/2in x 5ft 0in). Configurations of glass conform to ASTM E1300-02.                                                                                                                                              |                                                         |                                                                                 |
| 6074.7                                                                                                                                                                                                                                                                      | 20 Series Sliding Window with Integral Sill Track (XO)  | (411-H-798.01) Vinyl Horizontal                                                 |
| <b>Limits of Use (See Other)</b><br><b>Approved for use in HVHZ:</b><br><b>Approved for use outside HVHZ:</b><br><b>Impact Resistant:</b><br><b>Design Pressure:</b> +/-<br><b>Other:</b> HS-R35 (6ft 1-1/2in x 3ft 0in). Configurations of glass conform to ASTM E1300-02. |                                                         | <b>Certification Agency Certified Installation Instructions</b><br>Verified By: |
| 6074.8                                                                                                                                                                                                                                                                      | 20 Series Sliding Window with Integral Sill Track (XO)  | (411-H-798.02) Vinyl Horizontal                                                 |
| <b>Limits of Use (See Other)</b><br><b>Approved for use in HVHZ:</b><br><b>Approved for use outside HVHZ:</b><br><b>Impact Resistant:</b><br><b>Design Pressure:</b> +/-<br><b>Other:</b> HS-R35 (3ft 0in x 2ft 0in). Configurations of glass conform to ASTM E1300-02.     |                                                         | <b>Certification Agency Certified Installation Instructions</b><br>Verified By: |
| 6074.9                                                                                                                                                                                                                                                                      | 20 Series Sliding Window with Integral Sill Track (XOX) | (411-H-797.02) Vinyl Horizontal                                                 |
| <b>Limits of Use (See Other)</b><br><b>Approved for use in HVHZ:</b><br><b>Approved for use outside HVHZ:</b><br><b>Impact Resistant:</b><br><b>Design Pressure:</b> +/-<br><b>Other:</b> HS-R35 (9ft 0in x 3ft 0in). Configurations of glass conform to ASTM E1300-02.     |                                                         | <b>Certification Agency Certified Installation Instructions</b><br>Verified By: |
| 6074.10                                                                                                                                                                                                                                                                     | 20 Series Sliding Window with Integral Sill Track (XOX) | (411-H-797.00) Vinyl Horizontal                                                 |
| <b>Limits of Use (See Other)</b><br><b>Approved for use in HVHZ:</b><br><b>Approved for use outside HVHZ:</b><br><b>Impact Resistant:</b><br><b>Design Pressure:</b> +/-<br><b>Other:</b> HS-R20 (9ft 0in x 5ft 0in). Configurations of glass conform to ASTM E1300-02.     |                                                         | <b>Certification Agency Certified Installation Instructions</b><br>Verified By: |
| 6074.11                                                                                                                                                                                                                                                                     | 20 Series Sliding Window with Integral Sill Track (XOX) | (411-H-797.01) Vinyl Horizontal                                                 |
| <b>Limits of Use (See Other)</b><br><b>Approved for use in HVHZ:</b><br><b>Approved for use outside HVHZ:</b><br><b>Impact Resistant:</b><br><b>Design Pressure:</b> +/-<br><b>Other:</b> HS-R30 (9ft 0in x 4ft 0in). Configurations of glass conform to ASTM E1300-02.     |                                                         | <b>Certification Agency Certified Installation Instructions</b><br>Verified By: |
| 6074.12                                                                                                                                                                                                                                                                     | Series 10 Trackless Sliding Windows (XO)                | (411-H-786.00) Vinyl Horizontal                                                 |
| <b>Limits of Use (See Other)</b><br><b>Approved for use in HVHZ:</b><br><b>Approved for use outside HVHZ:</b><br><b>Impact Resistant:</b><br><b>Design Pressure:</b> +/-<br><b>Other:</b> HS-R30 (6ft 1-1/2in x 5ft). Configurations of glass conform to ASTM E1300-02.     |                                                         | <b>Certification Agency Certified Installation Instructions</b><br>Verified By: |
| 6074.13                                                                                                                                                                                                                                                                     | Series 10 Trackless Sliding Windows (XO)                | (411-H-786.03) Vinyl Horizontal                                                 |
| <b>Limits of Use (See Other)</b><br><b>Approved for use in HVHZ:</b>                                                                                                                                                                                                        |                                                         | <b>Certification Agency Certified Installation Instructions</b>                 |



## INSTALLATION INSTRUCTIONS FOR EXTERIOR DOOR, SLIDING, SINGLE-HUNG, FIXED, CASERMENT, AND AWNING WINDOW WITH NAILED FIN

Illustrations shown are for a Double-Hung Window product. The steps are the same for the Single-hung, Sliding, Fixed, Casement, and Awning units. Notes are provided at steps where the information is not the same for all products.

### Installation Instructions for Typical Wood Frame Construction

These instructions were developed and tested for use with typical wood frame wall construction in a wall system designed to manage water. These instructions are not to be used with any other construction method. Installation instructions for use with other construction methods may be obtained from Pella Corporation, a local Pella retailer, or by visiting <http://www.thermastarbypella.com>. Building designs, construction methods, building materials, and site conditions unique to your project may require an installation method different from these instructions and additional care in determining the appropriate installation method is the responsibility of you, your architect, or construction professional.

### Handling and Storage

Provide full support under the framework while storing, moving and installing the product. DO NOT lift the product by the head member only. Remove the plastic shipping material prior to storing or installing the product. DO NOT store in direct sunlight. Allow sufficient spacing between products for ventilation.

### YOU WILL NEED TO SUPPLY:

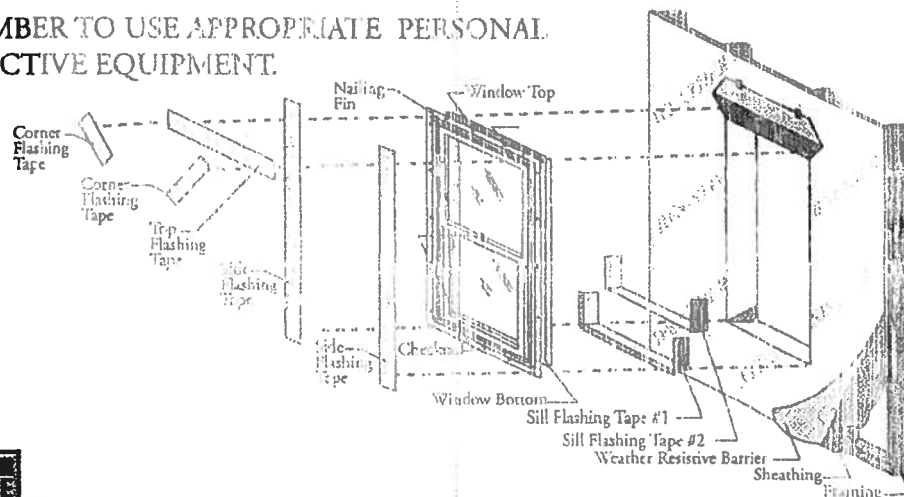
- Cedar shims/spacers (12 to 20)
- 2" galvanized roofing nails (1/4 lb.)
- Closed cell foam backer rod/sealant backer (12 to 30 ft.)
- Pella® SmartFlash™ foil backed butyl window and door flashing tape or equivalent
- Great Stuff™ Window and Door Insulating Foam Sealant by the Dow Chemical Company or equivalent low pressure polyurethane window and door foam - DO NOT use high pressure or latex foams.
- High quality exterior grade polyurethane or silicone sealant (1 tube per window)

### TOOLS REQUIRED:

- Tape measure
- Level
- Square
- Hammer
- Stapler
- Scissors or utility knife
- Small flat blade screwdriver

Installation will require (2) or more persons for safety reasons.

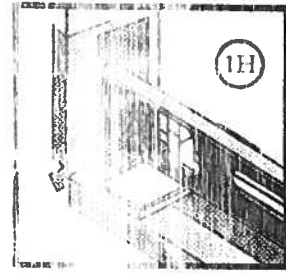
### REMEMBER TO USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.



Always read the ThermaStar by Pella™ Limited Warranty before purchasing or installing ThermaStar by Pella products. By installing this product, you are acknowledging that this Limited Warranty is part of the terms of the sale. Failure to comply with all Pella installation and maintenance instructions may void your Pella limited warranty. See Limited Warranty for complete details at <http://warranty.thermastar.com>.

- H. **Install and level sill.** Place 1" wide by 1/4" thick shims on the bottom of the window opening, 1/2" from each side, beneath transition bars, mullion joints and sliding window interlockers. Place an additional 1" wide by 1/2" thick shims, ensuring that the distance between shims is not more than 18" on center. Adjust shims as necessary to ensure the sill is level.

*Note: To determine the depth of the shim, measure the distance from the back of the fin to the interior frame edge and cut the shim to this dimension. Place the exterior edge of the shim flush with the exterior of the building. Improper placement of shims may result in bowing the bottom of the window.*



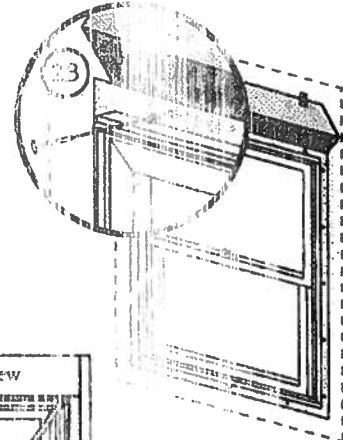
## 2 SETTING AND FASTENING THE WINDOW

- A. Remove packaging from window. DO NOT open the window until it is fully fastened. Inspect the unit for any crack or penetration in the frame. DO NOT install damaged units.

**TWO OR MORE PEOPLE WILL BE REQUIRED FOR THE FOLLOWING STEPS.**

- B. **Insert the window from the exterior of the building.** Place the bottom of the window on the spacer at the bottom of the opening, then tilt the top into position. Center the window between the sides of the opening to allow clearance for shimming, and insert one roofing nail in the first hole from the corner on each end of the top nailing fin. These are used to hold the window in place while shimming it plumb and square.

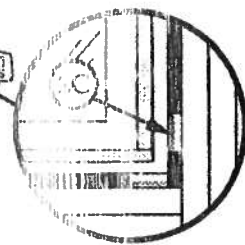
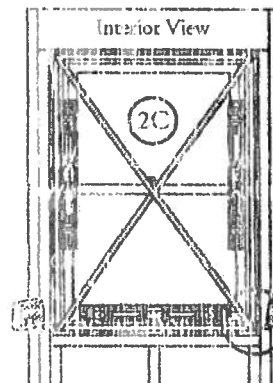
*Note: DO NOT drive the nail all the way in.*



- C. **Plumb and square window.** Place shims 1" from the bottom and top of the window between the window and the sides of the opening. Adjust the shims as required to plumb and square the window in the opening.

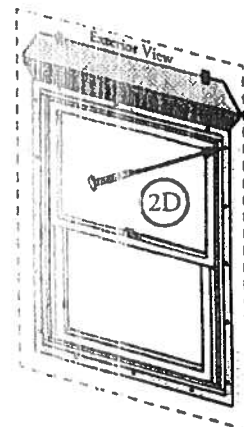
**Casement, Fixed & Sliding:** If the frame height exceeds 47", place shims at the midpoint of the window sides.

**Double and Single-hung:** Be sure to shim at the checkrail. If the frame height exceeds 47", place additional shims midway between the checkrail shims and both the top and bottom shims.



- D. **Fasten the window to opening by driving 2" galvanized roofing nails into every other pre-punched hole in the nailing fin.** Drive nails until the head contacts the fin, however do not sink the head. This allows for movement of building materials.

**DP 50:** Insert #8 x 2" pan head stainless steel wood screws with flat washers into every pre-punched hole in the nailing fin. Drive screws until the head/washer contacts the fin, however do not sink the washer. This allows for movement of building material.



- E. **Check window operation (vent units only).** Open and close the window a few times to check for proper operation. Close and lock the window. Double and Single-hung: Make sure the window will tilt correctly.

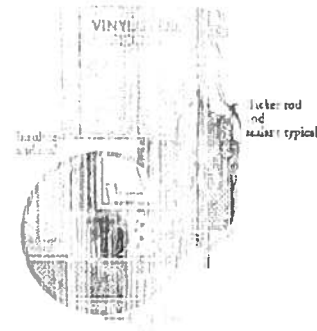
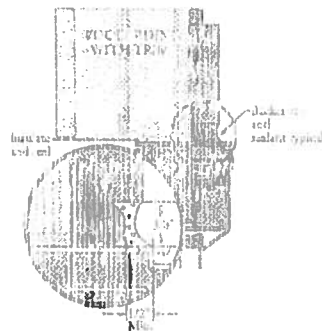
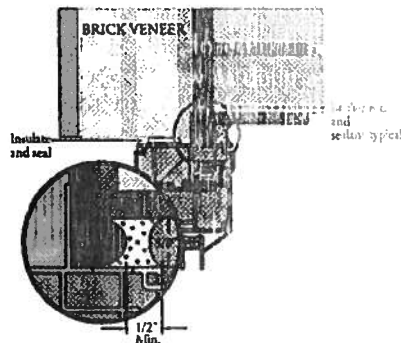
*Note: If there are any problems with the operation of the window, recheck shim locations and adjust for plumb and square.*

- B. Check window operation by opening and closing the window.

*Note: If the window does not operate correctly, check to make sure it is still plumb, level, square and that the sides are not bowed. If adjustments are required, remove the foam with a serrated knife. Adjust the shims, and reapply the insulating foam to start.*

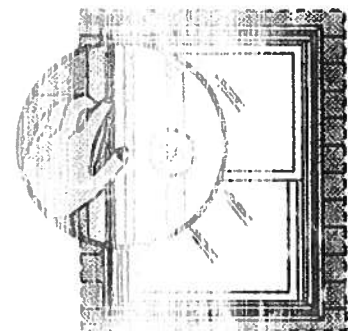
## 5 SEALING THE WINDOW TO THE EXTERIOR WALL CLADDING

*Note: The Vinyl/Steel siding detail below applies to windows that do not have a J-mould as part of the frame. For windows that have J-mould as part of the frame, this step needs to be omitted. When using windows that have J-mould as part of the frame in masonry or solid wall sealing, the J-mould must be removed from the frame, and the backer rod sealant must be applied as shown in the details below.*



- A. Insert closed cell foam backer rod into the space around the window as deep as it will go. This should provide at least a 1/2" clearance between the backer rod and the exterior face of the window.

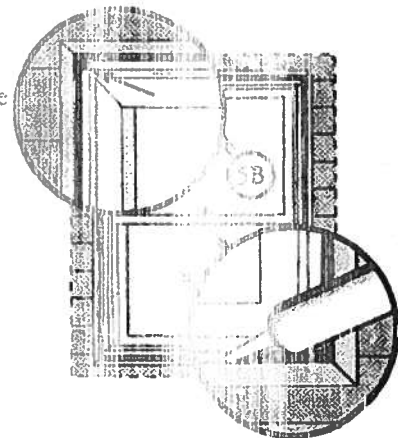
*Note: Backer rod adds shape and depth for the sealant line.*



- B. Apply a bead of high quality exterior grade sealant to the entire perimeter of the window. Note: Refer to the sealant manufacturer's label to verify compatibility with vinyl and the adjoining building components and priming requirements.

- C. Shape, tool and clean excess sealant. When finished, the sealant should be the shape of an hourglass.

*Note: This method creates a more flexible sealant line capable of expanding and contracting.*



## **CLEANING INSTRUCTIONS**

Remove labels and clean the glass, using a soft, clean, grit-free cloth and mild soap or detergent. Be sure to remove all liquid by wiping dry or use a clean squeegee. The vinyl frame may be cleaned as described above. For stubborn dirt, a "non-abrasive" cleaner such as Bon-Ami® or Soft Scrub® may be used. Do not use solvents such as mineral spirits, acetone, xylene, naphtha or muriatic acid as they can dull the finish, soften the vinyl and/or cause failure of the insulated unit seal. Keep door tracks clear of dirt and debris. Keep weep holes open and clear of obstructions.

## **IMPORTANT NOTICE**

Because all construction must anticipate some water infiltration, it is important that the wall system be designed and constructed to properly manage moisture. Pella Corporation is not responsible for claims or damages caused by anticipated and unanticipated water infiltration; deficiencies in building design, construction and maintenance; failure to install Pella products in accordance with Pella's installation instructions; or the use of Pella products in wall systems which do not allow for proper management of moisture within the wall systems. The determination of the suitability of all building components, including the use of Pella products, as well as the design and installation of allow for proper management of moisture within the wall systems. The determination of the suitability of all building components, including the use of Pella products, as well as the design and installation of flashing and sealing systems are the responsibility of the Buyer or User, the architect, contractor, installer, or other construction professional and are not the responsibility of Pella.

Pella products should not be used in barrier wall systems which do not allow for proper management of moisture within the wall systems, such as barrier Exterior Insulation and Finish Systems, (EIFS) (also known as synthetic stucco) or other non-water managed systems. Except in the states of California, New Mexico, Arizona, Nevada, Utah, and Colorado, Pella makes no warranty of any kind on and assumes no responsibility for Pella windows and doors installed in barrier wall systems. In the states listed above, the installation of Pella Products in barrier wall or similar systems must be in accordance with Pella's installation instructions.

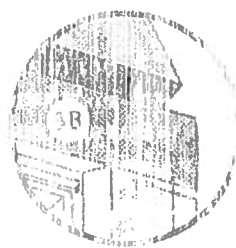
Product modifications that are not approved by Pella Corporation will void the Limited Warranty.

### 3 INTEGRATING THE WINDOW TO THE WEATHER RESISTIVE BARRIER

- A. Apply side flashing tape. Cut 2 pieces of flashing tape 4" longer than the frame height of the window. Apply one piece to each side over the nailing fin and onto the weather resistive barrier. The tape should extend 2" above the top of the window and 2" below the bottom of the window. Press the tape down firmly.

- B. Apply top flashing tape. Cut a piece of flashing tape long enough to go across the top of the window and extend at least 1' past the side flashing tape on both sides. Apply the tape over the top nailing fin as shown. Press the tape down firmly.

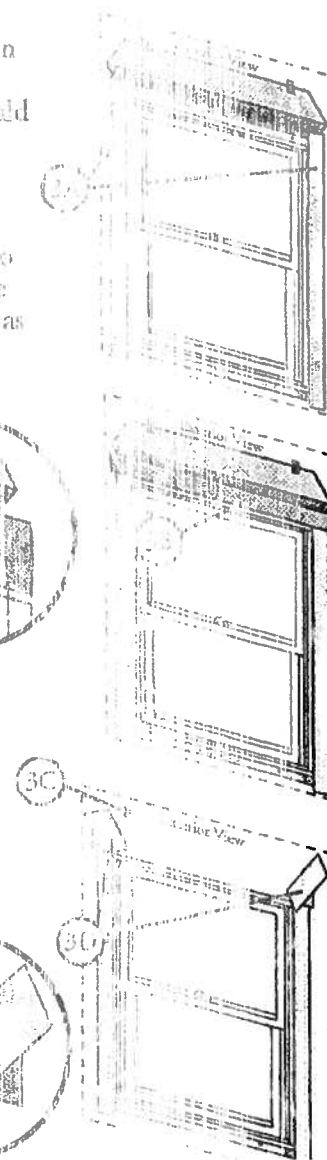
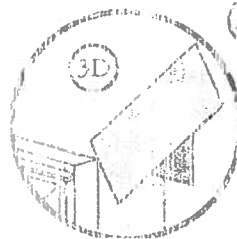
**Note:** DO NOT tape or seal the bottom nailing fin.



- C. Fold down top flap of weather resistive barrier (3C).

- D. Apply flashing tape to diagonal cuts. Cut pieces of flashing tape at least 1' longer than the diagonal cuts in the weather resistive barrier. Apply the tape, covering the entire diagonal cut in the weather resistive barrier at both upper corners of the window. Press the tape down firmly.

**Note:** Be sure to overlap the top corners (3D).

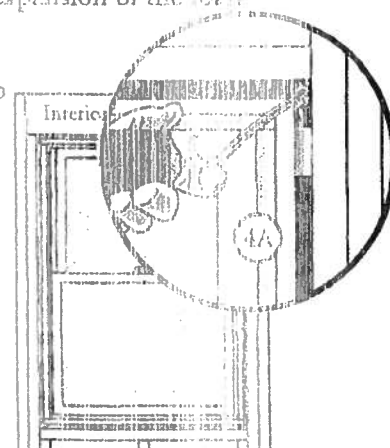


### 4 INTERIOR SEAL

**Caution:** Ensure use of low pressure polyurethane window and door insulating foam and strictly follow the foam manufacturer's recommendations for application. Use of high pressure foams or improper application of the foam may cause the window frame to bind and hinder operation.

- A. Apply insulating foam sealant. From the interior, insert the nozzle of the applicator approximately 1" deep into the space between the window and the rough opening and apply a 1" deep bead of foam. This will allow room for expansion of the foam and will minimize squeeze out. For windows with jamb extensions installed, ensure the foam is placed between the window frame and the rough opening, not between the jamb extension and the rough opening. If using insulating foam other than Great Stuff™ Window and Door Insulation Foam by the Dow Chemical Company, allow the foam to cure completely (usually 8 to 24 hours) before proceeding to the next step.

**Note:** It may be necessary to squeeze the end of the tube with pliers to be able to insert into the space between the window frame and the rough opening. DO NOT completely fill the space from the back of the fin to the interior face of the window.





# 1

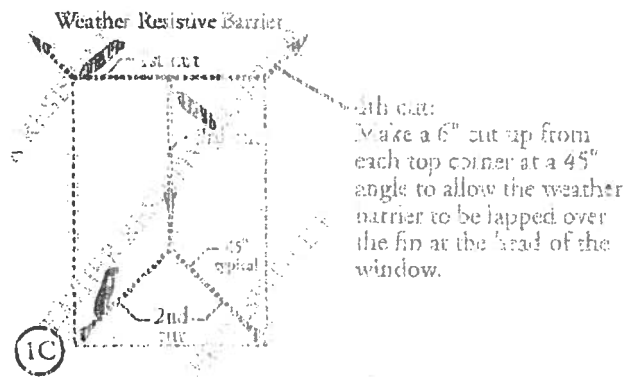
## ROUGH OPENING PREPARATION

- A. **Verify the opening is plumb, level and square.** Ensure the bottom of the rough opening does not slope toward the interior.  
**Note: Do not install in out-of-square opening or on a surface that is not level.**

- B. **Verify the window will fit the opening.** Measure all four sides of the opening to make sure it is  $1/2"$  larger than the window in both width and height. On larger openings measure the width and height in several places to ensure the header or studs are not bowed.

**Note: 1-1/2" or more of solid wood blocking is required around the perimeter of the opening. Fix any problems with the rough opening before proceeding.**

- C. **Cut the weather resistive barrier (1C).**



4th cut:  
Make a 6" cut up from each top corner at a 45° angle to allow the weather barrier to be lapped over the fin at the head of the window.

- D. **Fold the weather resistive barrier (1D).** Fold side and bottom flaps into the opening and staple to inside wall. Fold top flap up and temporarily fasten with flashing tape.

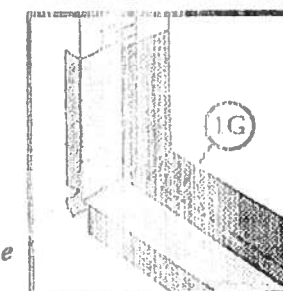
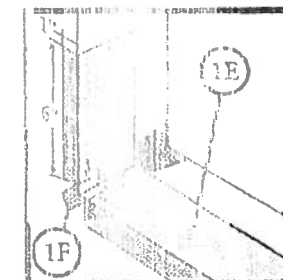
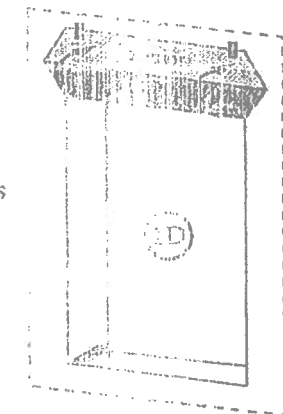
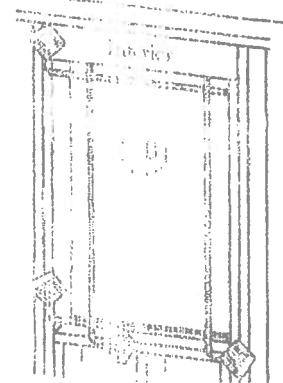
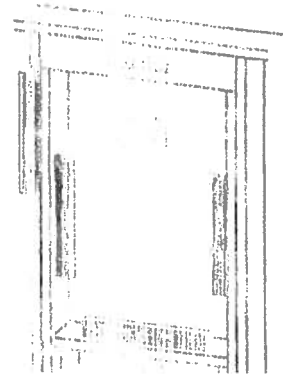
- E. **Apply sill flashing tape #1.** Cut a piece of flashing tape 12" longer than the opening width. Apply at the bottom of the opening as shown (1E) so it overhangs 1" to the exterior.

**Note: The tape is cut 12" longer than the width so that it will extend 6" up each side of the opening.**

- F. **Tab the sill flashing tape and fold.** Cut 1" wide tabs at each corner (1/2" from each side of corner) (1F). Fold tape to the exterior and press firmly to adhere it to the weather resistive barrier.

- G. **Apply sill flashing tape #2.** Cut a piece of flashing tape 12" longer than the opening width. Apply at the bottom, overlapping tape #1 by at least 1". Do not allow the tape to extend past the interior face of the framing (1G).

**Note: The flashing tape does not need to extend all the way to the interior of the framing.**





Back Next

1990

|                              |            |
|------------------------------|------------|
| First Submitted              | 12/30/2005 |
| First Validation             | 12/30/2005 |
| First Building Code Approval | 01/04/2006 |
| Latest Approval              | 02/07/2006 |

|                                                                                                                                                                                                                                                                           |                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| <b>Summary of Products</b>                                                                                                                                                                                                                                                |                                                              |
| 6074.1                                                                                                                                                                                                                                                                    | 10 Series Horizontal Sliding Window<br>Manufacturer by Pella |
| <b>Limits of Use (See Other)</b><br><b>Approved for use in HVHZ:</b><br><b>Approved for use outside HVHZ:</b><br><b>Impact Resistant:</b><br><b>Design Pressure: +/-</b><br><b>Other:</b> HS-730 (71-1/2in x 59-1/2in). Configurations of glass conform to ASTM E1300-02. |                                                              |
| 6074.2                                                                                                                                                                                                                                                                    | 10 Series Horizontal Sliding Window<br>Manufacturer by Pella |
| <b>Limits of Use (See Other)</b><br><b>Approved for use in HVHZ:</b><br><b>Approved for use outside HVHZ:</b><br><b>Impact Resistant:</b><br><b>Design Pressure: +/-</b><br><b>Other:</b> HS-840 (71-1/2in x 48in). Configurations of glass conform to ASTM E1300-02.     |                                                              |
| 6074.3                                                                                                                                                                                                                                                                    | 10 Series Sliding Window with Integral Sill<br>Track (XOX)   |
| <b>Limits of Use (See Other)</b><br><b>Approved for use in HVHZ:</b><br><b>Approved for use outside HVHZ:</b><br><b>Impact Resistant:</b><br><b>Design Pressure: +/-</b><br><b>Other:</b> HS-820 (108in x 60in). Configurations of glass conform to ASTM E1300-02.        |                                                              |
| 6074.4                                                                                                                                                                                                                                                                    | 10 Series Sliding Window with Integral Sill<br>Track (XOX)   |
| <b>Limits of Use (See Other)</b><br><b>Approved for use in HVHZ:</b><br><b>Approved for use outside HVHZ:</b><br><b>Impact Resistant:</b><br><b>Design Pressure: +/-</b><br><b>Other:</b> HS-830 (108in x 48in). Configurations of glass conform to ASTM E1300-02.        |                                                              |
| 6074.5                                                                                                                                                                                                                                                                    | 10 Series Sliding Window with Integral Sill<br>Track (XOX)   |
| <b>Limits of Use (See Other)</b><br><b>Approved for use in HVHZ:</b><br><b>Approved for use outside HVHZ:</b><br><b>Impact Resistant:</b><br><b>Design Pressure: +/-</b><br><b>Other:</b> HS-835 (108in x 36in). Configurations of glass conform to ASTM E1300-02.        |                                                              |
| 6074.6                                                                                                                                                                                                                                                                    | 20 Series Sliding Window with Integral Sill<br>Track (XOX)   |
| <b>Limits of Use (See Other)</b><br><b>Approved for use in HVHZ:</b><br><b>Approved for use outside HVHZ:</b><br><b>Impact Resistant:</b>                                                                                                                                 |                                                              |

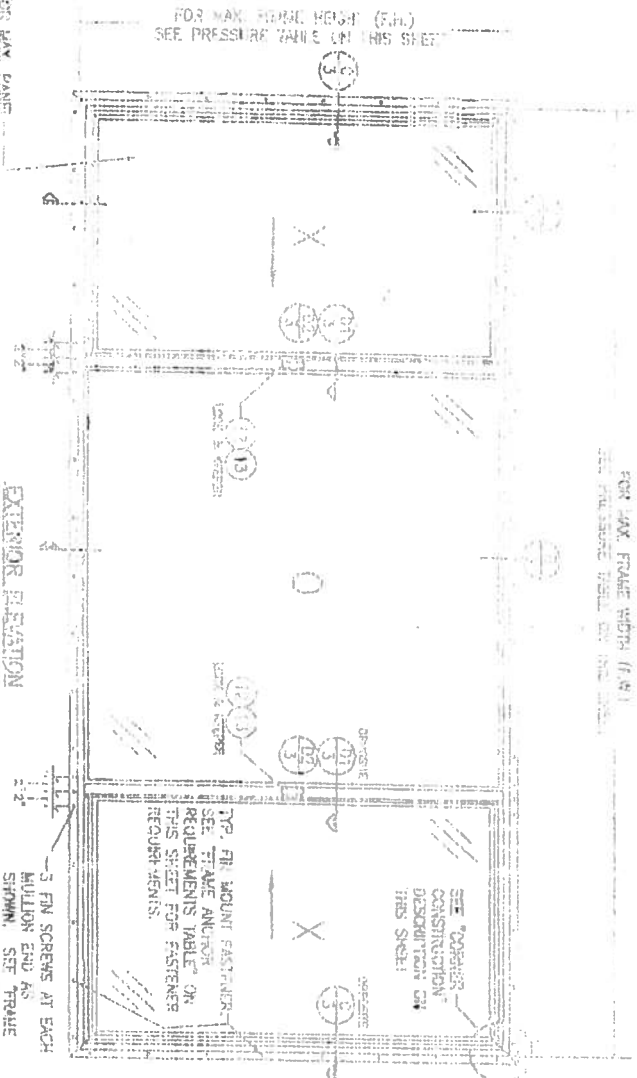
[illegible]

| ITEM # | PART # | ITEM DESCRIPTION   | MANUFACTURER NOTES |
|--------|--------|--------------------|--------------------|
| 1      | 782252 | ROCK HEAD          |                    |
| 2      | 782004 | FRONT JAW AND SILL |                    |
| 3      | 782006 | FRONT JAW AND SILL |                    |
| 4      | 782007 | FRONT JAW AND SILL |                    |
| 5      | 782008 | FRONT JAW AND SILL |                    |
| 6      | 782009 | FRONT JAW AND SILL |                    |
| 7      | 782010 | FRONT JAW AND SILL |                    |
| 8      | 782011 | FRONT JAW AND SILL |                    |
| 9      | 802003 | WALL-LIFT CLIP     |                    |
| 10     | 802004 | WALL-LIFT CLIP     |                    |
| 11     | 802005 | WALL-LIFT CLIP     |                    |
| 12     | 802006 | WALL-LIFT CLIP     |                    |
| 13     | 802007 | WALL-LIFT CLIP     |                    |
| 14     | 802008 | WALL-LIFT CLIP     |                    |
| 15     | 802009 | WALL-LIFT CLIP     |                    |
| 16     | 802010 | WALL-LIFT CLIP     |                    |
| 17     | 802011 | WALL-LIFT CLIP     |                    |
| 18     | 802012 | WALL-LIFT CLIP     |                    |
| 19     | 802013 | WALL-LIFT CLIP     |                    |
| 20     | 802014 | WALL-LIFT CLIP     |                    |
| 21     | 802015 | WALL-LIFT CLIP     |                    |
| 22     | 802016 | WALL-LIFT CLIP     |                    |
| 23     | 802017 | WALL-LIFT CLIP     |                    |
| 24     | 802018 | WALL-LIFT CLIP     |                    |
| 25     | 802019 | WALL-LIFT CLIP     |                    |
| 26     | 802020 | WALL-LIFT CLIP     |                    |
| 27     | 802021 | WALL-LIFT CLIP     |                    |
| 28     | 802022 | WALL-LIFT CLIP     |                    |
| 29     | 802023 | WALL-LIFT CLIP     |                    |
| 30     | 802024 | WALL-LIFT CLIP     |                    |
| 31     | 802025 | WALL-LIFT CLIP     |                    |
| 32     | 802026 | WALL-LIFT CLIP     |                    |
| 33     | 802027 | WALL-LIFT CLIP     |                    |
| 34     | 802028 | WALL-LIFT CLIP     |                    |
| 35     | 802029 | WALL-LIFT CLIP     |                    |
| 36     | 802030 | WALL-LIFT CLIP     |                    |
| 37     | 802031 | WALL-LIFT CLIP     |                    |
| 38     | 802032 | WALL-LIFT CLIP     |                    |
| 39     | 802033 | WALL-LIFT CLIP     |                    |
| 40     | 802034 | WALL-LIFT CLIP     |                    |
| 41     | 802035 | WALL-LIFT CLIP     |                    |
| 42     | 802036 | WALL-LIFT CLIP     |                    |
| 43     | 802037 | WALL-LIFT CLIP     |                    |
| 44     | 802038 | WALL-LIFT CLIP     |                    |
| 45     | 802039 | WALL-LIFT CLIP     |                    |
| 46     | 802040 | WALL-LIFT CLIP     |                    |
| 47     | 802041 | WALL-LIFT CLIP     |                    |
| 48     | 802042 | WALL-LIFT CLIP     |                    |
| 49     | 802043 | WALL-LIFT CLIP     |                    |
| 50     | 802044 | WALL-LIFT CLIP     |                    |
| 51     | 802045 | WALL-LIFT CLIP     |                    |
| 52     | 802046 | WALL-LIFT CLIP     |                    |
| 53     | 802047 | WALL-LIFT CLIP     |                    |
| 54     | 802048 | WALL-LIFT CLIP     |                    |
| 55     | 802049 | WALL-LIFT CLIP     |                    |
| 56     | 802050 | WALL-LIFT CLIP     |                    |
| 57     | 802051 | WALL-LIFT CLIP     |                    |
| 58     | 802052 | WALL-LIFT CLIP     |                    |
| 59     | 802053 | WALL-LIFT CLIP     |                    |
| 60     | 802054 | WALL-LIFT CLIP     |                    |
| 61     | 802055 | WALL-LIFT CLIP     |                    |
| 62     | 802056 | WALL-LIFT CLIP     |                    |
| 63     | 802057 | WALL-LIFT CLIP     |                    |
| 64     | 802058 | WALL-LIFT CLIP     |                    |
| 65     | 802059 | WALL-LIFT CLIP     |                    |
| 66     | 802060 | WALL-LIFT CLIP     |                    |
| 67     | 802061 | WALL-LIFT CLIP     |                    |
| 68     | 802062 | WALL-LIFT CLIP     |                    |
| 69     | 802063 | WALL-LIFT CLIP     |                    |
| 70     | 802064 | WALL-LIFT CLIP     |                    |
| 71     | 802065 | WALL-LIFT CLIP     |                    |
| 72     | 802066 | WALL-LIFT CLIP     |                    |
| 73     | 802067 | WALL-LIFT CLIP     |                    |
| 74     | 802068 | WALL-LIFT CLIP     |                    |
| 75     | 802069 | WALL-LIFT CLIP     |                    |
| 76     | 802070 | WALL-LIFT CLIP     |                    |
| 77     | 802071 | WALL-LIFT CLIP     |                    |
| 78     | 802072 | WALL-LIFT CLIP     |                    |
| 79     | 802073 | WALL-LIFT CLIP     |                    |
| 80     | 802074 | WALL-LIFT CLIP     |                    |
| 81     | 802075 | WALL-LIFT CLIP     |                    |
| 82     | 802076 | WALL-LIFT CLIP     |                    |
| 83     | 802077 | WALL-LIFT CLIP     |                    |
| 84     | 802078 | WALL-LIFT CLIP     |                    |
| 85     | 802079 | WALL-LIFT CLIP     |                    |
| 86     | 802080 | WALL-LIFT CLIP     |                    |
| 87     | 802081 | WALL-LIFT CLIP     |                    |
| 88     | 802082 | WALL-LIFT CLIP     |                    |
| 89     | 802083 | WALL-LIFT CLIP     |                    |
| 90     | 802084 | WALL-LIFT CLIP     |                    |
| 91     | 802085 | WALL-LIFT CLIP     |                    |
| 92     | 802086 | WALL-LIFT CLIP     |                    |

| ALLOWABLE PRESSURE TABLE FOR XOX CONFIGURATION |                         |                          |                         |                    |          |  |
|------------------------------------------------|-------------------------|--------------------------|-------------------------|--------------------|----------|--|
| MAX. FRAME HEIGHT (F.H.)                       | MAX. FRAME WIDTH (F.W.) | MAX. PANEL HEIGHT (F.H.) | MAX. PANEL WIDTH (F.W.) | ALLOWABLE PRESSURE |          |  |
|                                                |                         |                          |                         | POSITIVE           | NEGATIVE |  |
| 60"                                            | 108"                    | 58"                      | 26 3/8"                 | 20 PSF             | 20 PSF   |  |
| 48"                                            | 108"                    | 46"                      | 26 3/8"                 | 30 PSF             | 30 PSF   |  |
| 36"                                            | 108"                    | 34"                      | 26 3/8"                 | 35 PSF             | 35 PSF   |  |

NOTE: MAX. PANEL WIDTHS CONSIDERED IN THIS TABLE ARE FOR SLIDING PANELS. FIXED PANEL WIDTH IS LIMITED TO 54" IN ALL CASES.

FOR MAX. PANEL HEIGHT AND WIDTH REFER TO THE PRESSURE TABLE ON THIS SHEET



EXTERIOR ELEVATION  
XOX SLIDING WINDOW  
MODEL 100-100-100

3 FIN. SCREWS AT EACH  
MULLION END AS  
SHOWN. SEE "FRAME  
ANCHOR REQUIREMENTS  
TABLE" ON THIS SHEET  
FOR FASTENER  
REQUIREMENTS.

| DATE: NOV 8 8 2001<br>DRAWN BY: [Signature]<br>CHECKED BY: [Signature] |      | SERIES 10 VINYL HORIZONTAL SLIDING WINDOW W/ INTEGRAL SILL TRACK<br>W. W. SCHAEFER ENGINEERING & CONSULTING, P.C.<br>6645 N. BENTLEY TRAIL, SUITE 100<br>PALM BEACH GARDENS, FL 33410<br>PHONE: 361-771-4002 FAX: 361-771-4003 | MANUFACTURED BY:<br>PELLA CORPORATION<br>2000 PROLINE PLACE<br>GETTYSBURG, PA 17325<br>717-334-0399 | <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>REVISION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table> | NO. | DATE | REVISION |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|----------|--|--|--|--|--|--|--|--|--|--|--|--|
| NO.                                                                    | DATE | REVISION                                                                                                                                                                                                                       |                                                                                                     |                                                                                                                                                                                                                                                                     |     |      |          |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                        |      |                                                                                                                                                                                                                                |                                                                                                     |                                                                                                                                                                                                                                                                     |     |      |          |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                        |      |                                                                                                                                                                                                                                |                                                                                                     |                                                                                                                                                                                                                                                                     |     |      |          |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                        |      |                                                                                                                                                                                                                                |                                                                                                     |                                                                                                                                                                                                                                                                     |     |      |          |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                        |      |                                                                                                                                                                                                                                |                                                                                                     |                                                                                                                                                                                                                                                                     |     |      |          |  |  |  |  |  |  |  |  |  |  |  |  |

**Test Results: (Continued)**

| <u>Paragraph</u> | <u>Title of Test - Test Method</u> | <u>Results</u> | <u>Allowed</u> |
|------------------|------------------------------------|----------------|----------------|
|------------------|------------------------------------|----------------|----------------|

**Test Specimen #3: HS-R35<sup>1</sup> 102 x 36 (XOX) (Continued)**

**Optional Performance: (Continued)**

|       |                                                                                                                                         |       |            |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|------------|
| 4.4.2 | Uniform Load Structural per ASTM E 330<br>(Permanent sets reported were taken on the meeting stile)<br>(Loads were held for 10 seconds) |       |            |
|       | 61.5 psf (positive)                                                                                                                     | 0.02" | 0.14" max. |
|       | 52.5 psf (negative)                                                                                                                     | 0.03" | 0.14" max. |

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years from the original test date. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator. This report may not be reproduced, except in full, without approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC:

*Jay Leader*

Digitally Signed for: Jay Leader by Vicki L. McElwain

Jay Leader  
Technician

JL:jld/vlm

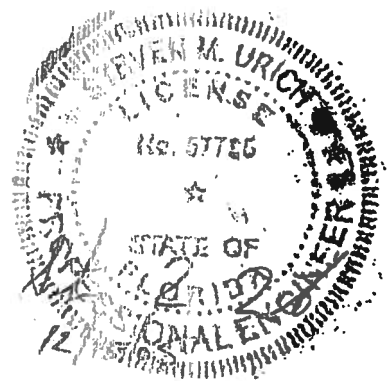
Attachments (pages):

Appendix-A: Drawings (14)

*St 2 2*

Digitally Signed by: Steven M. Ulrich

Steven M. Ulrich, P.E.  
Senior Project Engineer



## Test Results:

The results are tabulated as follows:

| <u>Paragraph</u>                                       | <u>Title of Test - Test Method</u>                   | <u>Results</u>           | <u>Allowed</u>               |
|--------------------------------------------------------|------------------------------------------------------|--------------------------|------------------------------|
| <b><u>Test Specimen #1: HS-R20* 108 x 60 (ZOX)</u></b> |                                                      |                          |                              |
| 2.1.2                                                  | Air Infiltration per ASTM E 283<br>1.57 psf (25 mph) | 0.09 cfm/ft <sup>2</sup> | 0.3 cfm/ft <sup>2</sup> max. |

**Note #1:** The tested specimen meets (or exceeds) the performance levels specified in ANSI/AAMA/NWDA 101/I.S.2-97 for air infiltration.

### Optional Performance

|       |                                                                                                                                                                                    |                |                            |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------|
| 4.3   | Water Resistance per ASTM E 547<br>(with and without screen)<br>4.50 psf                                                                                                           | No leakage     | No leakage                 |
| 4.4.1 | Uniform Load Deflection per ASTM E 330<br>(Deflections reported were taken on the meeting stile)<br>(Loads were held for 52 seconds)<br>22.0 psf (positive)<br>20.0 psf (negative) | 0.81"<br>0.69" | See Note #2<br>See Note #2 |

**Note #2:** The Uniform Load Deflection test is not a requirement of ANSI/AAMA/NWDA 101/I.S.2-97 for this product designation. The deflection data is recorded in this report for special code compliance and information only.

|       |                                                                                                                                                                                       |                |                          |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------|
| 4.4.2 | Uniform Load Structural per ASTM E 330<br>(Permanent sets reported were taken on the meeting stile)<br>(Loads were held for 10 seconds)<br>33.0 psf (positive)<br>30.0 psf (negative) | 0.09"<br>0.07" | 0.23" max.<br>0.23" max. |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------|

**Test Specimen Description: (Continued)**

*The following descriptions apply to all specimens.*

**Finish:** All vinyl was white.

**Glazing Details:** The active sash and fixed line utilized 3/4" thick, insulating glass fabricated from two sheets of clear annealed glass and a "U" shaped metal spacer system. The glass was exterior glazed against dual-sided adhesive foam tape. The glass was secured with vinyl snap-in glazing beads.

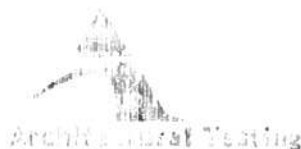
**Weatherstripping:**

| <u>Description</u>                                    | <u>Quantity</u> | <u>Location</u>                                |
|-------------------------------------------------------|-----------------|------------------------------------------------|
| 0.187" backed by 0.170" high polypile with center fin | 1 Row           | Top rail, bottom rail, and jamb stile per sash |
| 0.187" backed by 0.193" high polypile with center fin | 1 Row           | Sash meeting stile                             |
| 0.187" backed by 0.240" high polypile with center fin | 1 Row           | Fixed meeting stile                            |

**Frame Construction:** All frame members were constructed of extruded vinyl. All corners were mitered and welded. The fixed meeting stiles were butted against the head and sill members and secured with two #8 x 1-1/2" long flat head stainless steel screws per end. A foam pad was utilized at each end between each member.

**Sash Construction:** All sash members were constructed of extruded vinyl. All corners were mitered and welded.

**Screen Construction:** All screen members were constructed of roll-formed aluminum. All corners were keyed. The screen mesh was secured with a flexible vinyl spline.



ANSI/AAMA/NWWDA 101/LS-2-97 TEST REPORT

Rendered to:

PELLA WINDOWS AND DOORS  
2000 Pella Place  
Gettysburg, Pennsylvania 17325-4626

Report No.: 58118.01-122-44  
Revision 2: 12/15/05  
Test Date: 09/02/05  
Report Date: 09/23/05  
Expiration Date: 09/02/09

**Project Summary:** Architectural Testing, Inc. (ATI) was contracted by Pella Windows and Doors to perform testing on three Series/Model 10 Series Sliding Window with Integral Sill Track (XOX), vinyl horizontal sliding window. The samples tested successfully met the performance requirements for the following ratings: Test Specimen #1: HS-R20\* 108 x 60; Test Specimen #2: HS-R30\* 108 x 48; and Test Specimen #3: HS-R35\* 108 x 36. Reference ATI Report No. 58118.02-122-44 for Gateway performance test results. Test specimen description and results are reported herein.

**General Note:** An asterisk (\*) next to the performance grade indicates that the size tested for optional performance was smaller than the Gateway test size for the product type and class.

**Test Specification:** The test specimens were evaluated in accordance with ANSI/AAMA/NWWDA 101/LS-2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors*.

**Test Specimen Description:**

**Series/Model:** 10 Series Sliding Window with Integral Sill Track (XOX)

**Product Type:** Vinyl Horizontal Sliding Window

**Test Specimen #1:** HS-R20\* 108 x 60

**Overall Size:** 9' 6" wide by 5' 0" high

**Active Size (2):** 1' 11-3/8" wide by 4' 10" high

**Fixed Daylight Opening Size:** 4' 2-13/16" wide by 4' 9" high

**Screen Size (2):** 2' 1-1/2" wide by 4' 10-1/8" high

130 Derry Court  
York, PA 17402-9405  
phone: 717-764-7750  
fax: 717-764-4129  
www.architest.com



### Revision Log

| <u>Rev. #</u> | <u>Date</u> | <u>Page(s)</u>                              | <u>Revision(s)</u>                                                             |
|---------------|-------------|---------------------------------------------|--------------------------------------------------------------------------------|
| 0             | 09/23/05    | N/A                                         | Original report issue                                                          |
| 1             | 09/28/05    | Page 10                                     | Needed to add a Florida P.R. Seal                                              |
| 2             | 12/15/05    | Summary Page and Page 1                     | Changed Series/Model                                                           |
|               |             | Summary Page, Page 1,<br>Page 2, and Page 9 | Deleted Test Specimen #3 from report,<br>Test Specimen #4 is now #3.           |
|               |             | Page 3                                      | Test Specimen #3 - Deleted steel<br>reinforcement from the fixed meeting stile |
|               |             | Page 6 and Page 8                           | Changed FER from ASTM F 588 to<br>CAWM 301-90                                  |

ANSI/AAMA/NWDA 101.15.2-91, Test Method

Rendered to:

2531 E. WINDYBROOK AND DOORS

2000 Rockwell Place

Bedford, Pennsylvania 17315-4506

Report No.: 58118.02-122-44  
Revision 2:  
Test Date: 09/02/05  
Through:  
Report Date: 09/23/05  
Expiration Date: 09/22/09

**Project Summary:** Architectural Testing, Inc. (ATI) was contacted by Bella Windows and Doors to perform testing on four Series Sliding Window with Integral Sill Track (XO), vinyl horizontal sliding windows. The samples tested successfully met the performance requirements for the following ratings: Test Specimen #1: HS-R30 73 x 60; Test Specimen #2: HS-R45 73 x 48; and Test Specimen #3: HS-R35\* 73 x 36. Test specimen description and results are reported below.

**General Note:** An asterisk (\*) next to the performance grade indicates that the size tested for optional performance was smaller than the Gateway test size for the product type and class.

**Test Specification:** The test specimens were evaluated in accordance with ANSI/AAMA/NWDA 101.15.2-91, voluntary specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.

**Test Specimen Description:**

**Series/Model:** 10 Series Sliding Window with Integral Sill Track (XO)

**Product Type:** Vinyl Horizontal Sliding Window

**Test Specimen #1:** HS-R30 73 x 60

**Overall Size:** 6' 1-1/2" wide by 5' 0" high

**Active Sash Size:** 5' 0-3/16" wide by 4' 10-1/8" high

**Fixed Daylight Opening Size:** 2' 9-11/16" wide by 4' 9" high

**Screen Size:** 2' 11-1/8" wide by 4' 10-3/16" high

# RON E. BIAS

## WELL DRILLING

317 SW Brecken Ridge • Fort White, FL 32038

(386) 497-1045 • Mobile: (386) 364-9233 • Fax: (386) 497-1045

Name: John Webb No. \_\_\_\_\_  
Date: 9-28-06

Address: 488 SW Shepard way

Phone: \_\_\_\_\_

DESCRIPTION:

4" deep well  
down 100'  
1- 1/2" Hp. Sub pump  
80+ Gallon tank  
constant pressure  
1 1/4" drop  
Back 7 feet present

Total: \_\_\_\_\_

Deposit: \_\_\_\_\_

Balance: \_\_\_\_\_

Date Wanted: \_\_\_\_\_

Authorized By: Ron E Bias

Received By: \_\_\_\_\_

# Notice of Treatment

12319

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

Address: BAYA Ave

City Lake City Phone \_\_\_\_\_

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

Lot # \_\_\_\_\_ Block# \_\_\_\_\_ Permit # 000025264

Address 677 SW

## Product used

## Active Ingredient

## % Concentration

☒ Premise Imidacloprid 0.1%

☐ Termidor Fipronil 0.12%

☐ Bora-Care Disodium Octaborate Tetrahydrate 23.0%

## Type treatment:

☒ Soil

☐ Wood

## Area Treated

## Square feet

## Linear feet

## Gallons Applied

Dwelling

1900

184

200

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 \_\_\_\_\_.

1-10-07

Date

1500

Time

F254 Gunny

Print Technician's Name

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

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05

©



# 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 24-5S-16-03707-034

Building permit No. 000025264

Use Classification SFD, UTILITY

Fire: 16.74

Permit Holder AHMI M. FRANZWA

Waste: 50.25

Owner of Building AHMI M. FRANZWA

Total: 66.99

Location: 677 SW INFINITY PLACE, LAKE CITY, FL

Date: 07/30/2007

*Harry Dickel*

Building Inspector

POST IN A CONSPICUOUS PLACE  
(Business Places Only)

