Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0605-23 Date Received 5-8-06 By LH Permit # 24580

Application Approved by - Zoning Official BLK Date 12.05.06 Plans Examiner OK JTH Date 6-22-06

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

Comments Floor Height Letter Attached

(NOC) ✓ Dot Permit Required RECD

Applicants Name ~~William and Carmen Scott~~ Marcus Petty Thielen Jackson fax# 813-571-1749 Phone 352-284-9545

Address P.O. Box 4 White Springs, FL 32096

Owners Name William and Carmen Scott Phone 386-397-4147

911 Address 7392 N.W. US Highway 41 Lake City fl, 32055

Contractors Name Thirlun Jackson Phone 813-416-1744

Address 10934 N. LANTANA AVE. TAMPA FLA. 33612 FAX 813-571-1749

Fee Simple Owner Name & Address

Bonding Co. Name & Address

Architect/Engineer Name & Address

Mortgage Lenders Name & Address AmSouth BANK

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

Property ID Number 27-2S-16-01770-140 Estimated Cost of Construction 23500

Subdivision Name Country Lane Estates Lot 40 Block A Unit ____ Phase ____

Driving Directions Hwy 41 north of Lake City approx 2.5 miles north of ~~Hwy~~ I-10. Property is located 600 feet north of Fire Station on Left Side of Hwy 41

Type of Construction Masonry Block SFD Number of Existing Dwellings on Property -0- SINCE

Total Acreage 5.07 Lot Size ____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 150 ✓ Side 158 ✓ Side 148 ✓ Rear 200 ✓

Total Building Height 21' Number of Stories 1 Heated Floor Area 2230 Roof Pitch 7/12

Porch 366 Garage 1104 TOTAL 3700

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 COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Owner Builder or Agent (Including Contractor)

Contractor Signature LIC

Contractors License Number CBC125375

Competency Card Number

NOTARY/STAMP/SEAL

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me this 4th day of May 2006.

Personally known ✓ or Produced Identification ✓

Notary Signature

SIVIA SANTIAGO
MY COMMISSION # DD 251207
EXPIRES: September 17, 2007
Bonded Thru Notary Public Underwriters

Florida Department of Transportation
District 2 – Lake City Maintenance

Rev. 8-15-05

F.D.O.T. Permits Office, Lake City Maintenance
Post Office Box 1415
Lake City, Florida 32056-1415

Date: 5-15-2006

Re: Notice of Approved State FDOT Residential Access Connection Permit
Access Permit Category A
Residential Connection

Permittee: William & Carmen Scott/ Owner
Mailing Address: P.O. BOX 4, White Spring, Fl.32096
Permit No: 2006-A-292-25 / State Hwy No: 25(N) /Mile Post: 7.305 + -
Road Section No. 29040 / Columbia, County

Mr. William Scott

Enclosed within is your approved state access permit applied for previously. I would like to take this opportunity to thank you for your courteous assistance during this time. Cooperation between yourself and our office has allowed us to process your application in a most timely manner, and for this I thank you.

Below is information that if followed can prevent permit and construction problems down the road, please read them carefully and pay special attention to item number 4, 5 and 6.

1.) If you plan to hire a contractor to construct your new access connection (driveway), we would recommend that you make several complete copies of the enclosed connection permit packet and seek at least three bids, as with most things in this life, all contractors are different. A complete listing of all contractors for the county you have permitted too is available on request.

2.) Please take the time to review your new permit package and read all of the permit construction descriptions and requirements as well as the General and any Special Provisions attached, very closely. **State Specifications call for much greater final construction requirements and standards than called for by either city or county government agencies.** Items such as sloped shoulders, mitered end sections, extended radii returns and grass sod are many times over-looked. Be sure to point these items out to those bidding for your business.

3.) Once a contractor is selected and you are ready to activate & commence construction of the approved connection, you **must contact** the Permits Office here at Lake City Maintenance 48 hours in advance. Be aware that failure to call and activate your approved permit according to this permit provision is legal reason to suspend or revoke the approved permit. Please take the time to call us to legally activate your permit so all will go well.

4.) A Final Access Connection Inspection is Mandatory before the new access can be utilized. We would highly recommend that before making any final payments to your contractor that you call our office and set up the required FDOT Final Inspection. Contractors who are not willing to accept this pre-contract agreement may not be worthy of your business. Be aware that you are legally responsible for liability of the access connection as long as you have not received a final passing inspection through this office.

5.) **A special note in regards to access permits issued on State Roadways where the State has future plan for construction or where the state contractor is presently working**: When this is the case, you are required to make 48 hour advance contact both to our office and the Lake City Construction Office before starting actual construction on your approved access permit. Please phone 961-7050 to notify them of your intentions, tell them the state highway number on which you are permitted and be specific about your permitted location Mile Post and permit number. If you decide to activate your permit and start construction during the on-going FDOT Project and you elect to hire a contractor other than the on-site FDOT Project contractor, then you must obtain legal permission from the on-site project supervisior before commencing. All contactors must complete all permitted construction, with a passing FDOT Permits Office inspection within 30 days of the first day of driveway construction. Failure to abide by this permit provision will automatically require the removal of the permitted connection by the State FDOT or On-site Contractor's forces. Neither the FDOT nor the FDOT's on-site project contractor is under any obligation to construct or complete you're permitted connection unless prior legal written agreements have been entered into by both parties.

6.) **Special Note about permit validation periods:** Your newly issued permit is valid for a period of 1 year from the date of original signature from the permits office, however, as a special provision of this permit, you only have 30 days of total construction time once you activate the permit and start any type if driveway construction upon the FDOT Right-of-Way.

No. 6 Continued: To explain this permit provision more clearly, let's say you activated your new permit to start construction on the first day of the 2nd month of your approved permit, then all work and the required final passing inspection must be completed by the first day of the 3rd month (30 days later.) The other 10 months are not valid after you have officially activated the permits construction commencement start date.

The same is true of whatever month you activate your permit. You must start construction in time to be completed within the 30 day period in which you activate the permit, (See Part 3, Permit Approval Section of Page 1 of 3 of the Driveway Connection Permit for All Categories Form No. 850-040-18). Once activated you have only 30 days in which to be completely finished and have received the required final passing FDOT inspection. In most all cases every driveway access permitted can be completed within this 30 day period. **THIS IS A VERY IMPORTANT PERMIT PROVISION, PLEASE READ CAREFULLY. IF YOU DO NOT UNDERSTAND THIS PROVISION YOU SHOULD CONTACT THE FDOT PERMITS OFFICE AND REQUEST FURTHER CLARIFICATION IMMEDIDEATELY UPON READING THESE PERMIT PROVISIONS.**

Important Notice about State and Local County Permits Offices:
If you are planning improvements to your property, please be aware that complete construction of the permitted State FDOT Access Connection with an official final passing FDOT inspection is required before we can release you back to the county government. Once the connection has passed State Inspection the County Government shall be officially notified at which time, you may make county application for property permit improvements.

Well there it is, if you follow the above suggestions both you and the Permits Office can expect all to be in order when the time comes for you to request the final driveway construction inspection. Remember that we here at the Permits Office are always available in case you have a question or problem, about your approved access permit. We also offer driveway layout assistance if requested, please call us!

Sincerely,

Neil E. Miles
Access Permits Coordinator

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

DRIVEWAY CONNECTION PERMIT FOR ALL CATEGORIES

PART 1: PERMIT INFORMATION

APPLICATION NUMBER: 06-A-292-25

Permit Category: A Access Classification: 04

Project: 14' RESIDENTAL DRIVEWAY WITH DOUBLE 30' TURN RADII..

Permittee: WILLIAM & CARMEN SCOTT

Section/Mile Post: 29040 / 7.305+- State Road: 25(N)

Section/Mile Post: N/A State Road: N/A

PART 2: PERMITTEE INFORMATION

Permittee Name: WILLIAM & CARMEN SCOTT

Permittee Mailing Address: P.O. BOX 4

City, State, Zip: WHITE SPRING , FL.32096

Telephone: (386)317-0804

Engineer/Consultant/or Project Manager: N/A

Engineer responsible for construction inspection: N/A
NAME P.E. #

Mailing Address: N/A

City, State, Zip: N/A

Telephone: N/A FAX

PART 3: PERMIT APPROVAL

The above application has been reviewed and is hereby approved subject to all Provisions as attached.

Permit Number: 06-A-292-25

Department of Transportation

Signature: Neil E. Miles Title: PERMITS COORDINATOR

Department Representative's Printed Name NEIL E. MILES

Temporary Permit ○ YES ◉ NO (If temporary, this permit is only valid for 6 months)

Special provisions attached ◉ YES ○ NO

Date of Issuance: MAY 17 2006

If this is a normal (non-temporary) permit it authorizes construction for one year from the date of issuance. This can only be extended by the Department as specified in 14-96.007(6).

See following pages for General and Special Provisions

PART 4: GENERAL PROVISIONS

1. Notify the Department of Transportation Maintenance Office at least 48 hours in advance of starting proposed work.

   Phone: 386-961-7180 , Attention: NEIL E. MILES, PERMITS COORDINATOR

2. A copy of the approved permit must be displayed in a prominent location in the immediate vicinity of the connection construction.
3. Comply with Rule 14-96.008(1), F.A.C., Disruption of Traffic.
4. Comply with Rule 14-96.008(7), F.A.C., on Utility Notification Requirements.
5. All work performed in the Department's right of way shall be done in accordance with the most current Department standards, specifications and the permit provisions.
6. The permittee shall not commence use of the connection prior to a final inspection and acceptance by the Department.
7. Comply with Rule 14-96.003(3)(a), F.A.C., Cost of Construction.
8. If a Significant Change of the permittee's land use, as defined in Section 335.182, Florida Statutes, occurs, the Permittee must contact the Department.
9. Medians may be added and median openings may be changed by the Department as part of a Construction Project or Safety Project. The provision for a median might change the operation of the connection to be for right turns only.
10. All conditions in NOTICE OF INTENT WILL APPLY unless specifically changed by the Department.
11. All approved connection(s) and turning movements are subject to the Department's continuing authority to modify such connection(s) or turning movements in order to protect safety and traffic operations on the state highway or State Highway System.
12. **Transportation Control Features and Devices in the State Right of Way.** Transportation control features and devices in the Department's right of way, including, but not limited to, traffic signals, medians, median openings, or any other transportation control features or devices in the state right of way, are operational and safety characteristics of the State Highway and are not means of access. The Department may install, remove or modify any present or future transportation control feature or device in the state right of way to make changes to promote safety in the right of way or efficient traffic operations on the highway.
13. The Permittee for him/herself, his/her heirs, his/her assigns and successors in interest, binds and is bound and obligated to save and hold the State of Florida, and the Department, its agents and employees harmless from any and all damages, claims, expense, or injuries arising out of any act, neglect, or omission by the applicant, his/her heirs, assigns and successors in interest that may occur by reason of this facility design, construction, maintenance, or continuing existence of the connection facility,except that the applicant shall not be liable under this provision for damages arising from the sole negligence of the Department.
14. The Permittee shall be responsible for determining and notify all other users of the right of way.
15. Starting work on the State Right of Way means that I am accepting all conditions on the Permit.

PART 5: SPECIAL PROVISIONS

NON-CONFORMING CONNECTIONS: ◉ YES ○ NO

If this is a non-conforming connection permit, as defined in Rule Chapters 14-96 and 14-97, then the following shall be a part of this permit.

1. The non-conforming connection(s) described in this permit is (are) not permitted for traffic volumes exceeding the Permit Category on page 1 of this permit, or as specified in "Other Special Provisions" below.

2. All non-conforming connections will be subject to closure or relocation when reasonable access becomes available in the future.

OTHER SPECIAL PROVISIONS:
REFER TO APPROVED ACCESS PERMIT, GENERAL AND SPECIAL PROVISION SHEET AND THE LEGAL ATTACHED COVER LETTER FOR OFFICIAL DRIVEAY CONSTRUCTION AND SAFETY SPECIFICATION, AND FDOT APPROVED SITE-PLN FOR ANY ADDITIONAL INFORMATION NEEDED TO COMPLETE DRIVEWAYS. ALL WORK APPROVED HEREIN UNDER THIS PLAN SHALL BE ACCORDING TO THE STATE FDOT'S MOST CURRENT ROADWAY AND CONSTRUCTION SPECIFICATION AT THE TIME OF ACTUAL CONSTRUCTION AND PERMIT ACTIVATION. UPON ACTIVATION OF PERMIT THE PERMITTEE HAVE ___30____ DAYS TO COMPLETE ALL PHASES OF PERMITTED PROJECT. PERMITTEE SHALL ADHERE TO THE FINAL APPROVED SITE-PLAN DATED MAY 17 2006. THIS PERMIT IS FOR(WILLIAM & CARMEN SCOTT RESIDENTAL ACCESS). PERMITTEE SHALL NOTIFY THE FDOT PERMITS DEPT FOR PRE-CONTRUCTION MEETING (BEFORE) BEGINNING ANY WORK ON THE D.O.T R.O.W. CONSTRUCTION CONSIST OF : 14' EARTH LIMROCK DRIVEWAY WITH DOUBLE 30' TURN RADII. WHILE ON WORKING ON THE FDOT'S R.O.W , APPROPRIATE (MOT) SHALL BE IN PLACE, CONES AND SIGNS,(ALL) CREW MEMBERS SHALL HAVE ON FDOT CERTIFIED SAFETY VEST (AT ALL TIMES). OTHERS WISE COULD RESULT IN FDOT SAFETY CODE VIOLATION.

PART 6: APPEAL PROCEDURES

You may request an administrative hearing pursuant to Sections 120.569 and 120.57, Florida Statutes. If you disagree with the facts stated in the foregoing Notice of Intended Department Action (hereinafter Notice), you may request a formal administrative hearing pursuant to Section 120.57(1), Florida Statutes. If you agree with the facts stated in the Notice, you may request an informal administrative hearing pursuant to Section 120.57(2), Florida Statutes. You must send the written request to:

Clerk of Agency Proceedings
Department of Transportation
Haydon Burns Building
605 Suwannee Street, M.S. 58
Tallahassee, Florida 32399-0458

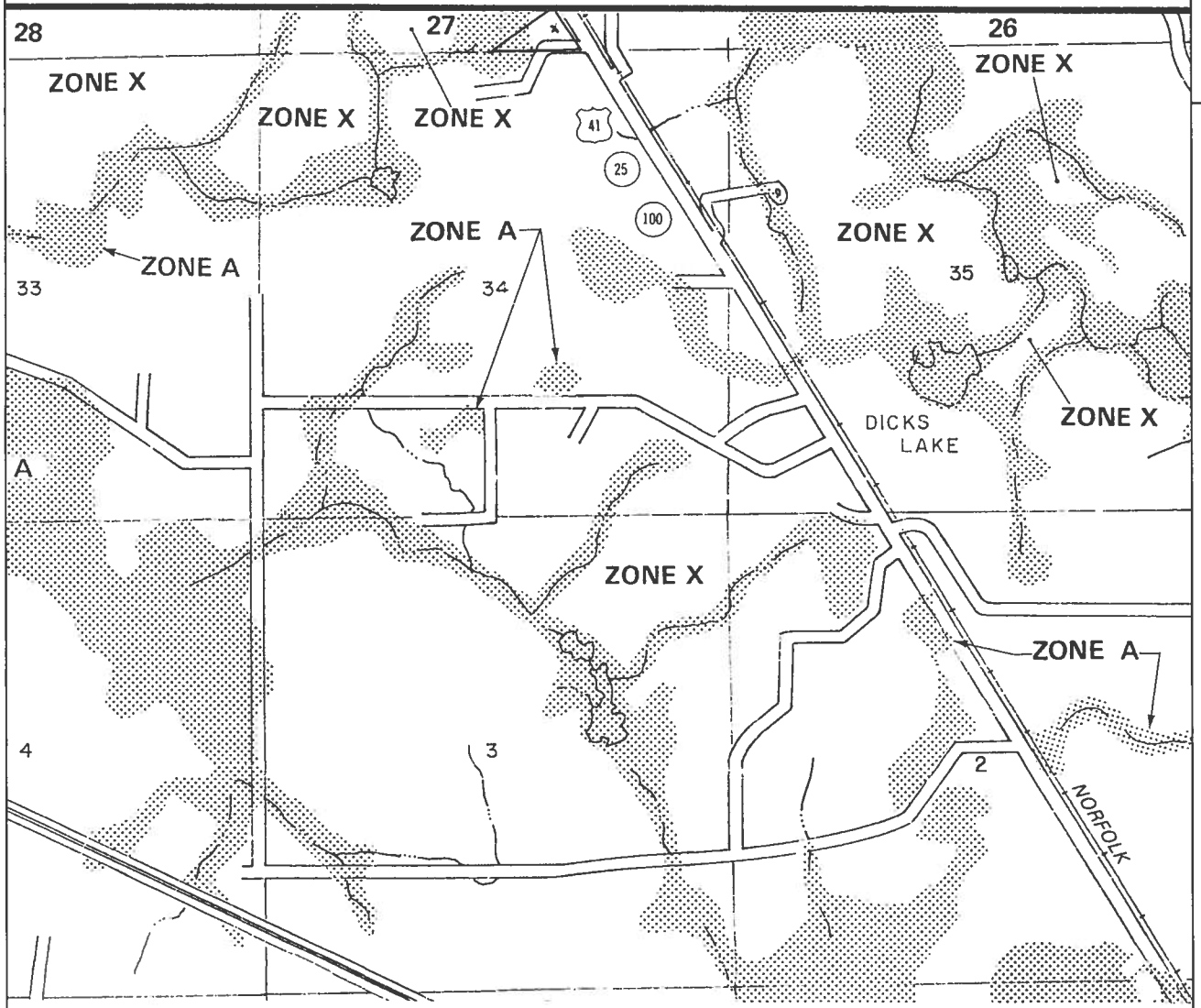
The written request for an administrative hearing must conform to the requirements of either Rule 28-106.201(2) or Rule 28-106.301(2), Florida Administrative Code, and must be received by the Clerk of Agency Proceedings by 5:00 P.M., no later than 21 days after you received the Notice. The written request for an administrative hearing should include a copy of the Notice, and must be legible, on 8 ½ by 11 inch white paper, and contain:

1. Your name, address, telephone number, and Department identifying number on the Notice, if known, and name, address, and telephone number of your representative, if any;
2. An explanation of how you are affected by the action described in the Notice.
3. A statement of how and when you received the Notice.
4. A statement of all disputed issues of material fact. If there are none, you must so indicate.
5. A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle you to relief; and
6. A demand for relief.

A formal hearing will be held if there are disputed issued of material fact. If a formal hearing is held, this matter will be referred to the Division of Administrative Hearings, where you may present witnesses and evidence and cross examine other witnesses before an administrative law judge. If there are no disputed issues of material fact, an informal hearing will be held, in which case you will have the right to provide the Department with any written documentation or legal arguments which you wish the Department to consider.

Mediation, pursuant to Section 120.573, Florida Statutes, will be available if agreed to by all parties, and on such terms as may be agreed upon by all parties. The right to an administrative hearing is not affected when mediation does not result in a settlement.

If a written request for an administrative hearing is not timely received you will have waived your right to have the intended action reviewed pursuant to Chapter 120, Florida Statutes, and the action set forth in the Notice shall be conclusive and final.



APPROXIMATE SCALE IN FEET

2000 0 2000

NATIONAL FLOOD INSURANCE PROGRAM

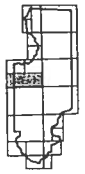
FIRM

FLOOD INSURANCE RATE MAP

COLUMBIA COUNTY, FLORIDA
(UNINCORPORATED AREAS)

PANEL 125 OF 290

PANEL LOCATION



COMMUNITY-PANEL NUMBER
120070 0125 B

EFFECTIVE DATE:
JANUARY 6, 1988

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT Version 1.0. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. Futher information about National Flood Insurance Program flood hazard maps is available at www.fema.gov/mit/tsd.

Print Date: 5/9/2006 (printed at scale and type A)

DYNAN GROUP
INC.
19 S.W. Second Street • Gainesville, Florida 32601
(352) 378-1511 Fax: (352) 378-4679

Civil Engineers, Land Surveyors and Real Estate

April 28, 2006

Columbia County
Building Department
Lake City, Florida

Re: William Scott
Residential Construction
Tax Parcel No.: 27-28-16-01770-140
Proposed Finish Floor Elevation

To Whom It May Concern:

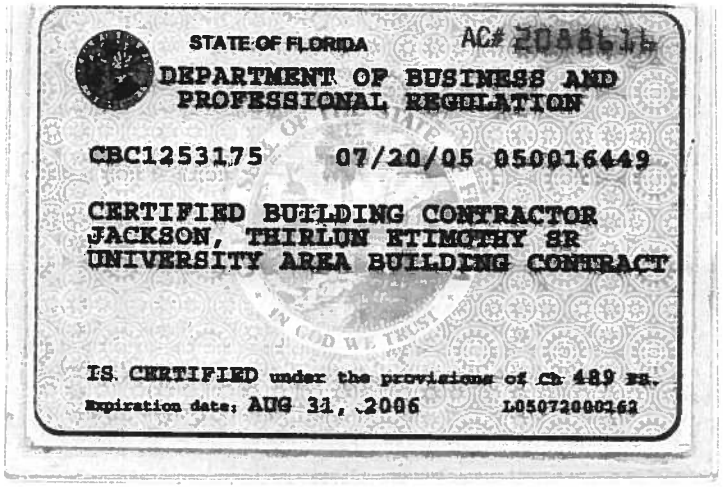
We hereby certify that if the finish floor of the proposed residential structure is set a minimum of 12 inches above the highest ground elevation within 25 feet of the proposed building structure, proper drainage of surface flow around the proposed structure can be accomplished through the construction diversion swales.

Please contact me if we can provide additional information.

Dynan Group, Inc.

G. A. Muldowney

Gerald A. Muldowney, PE
Florida Registered Professional Engineer
Certificate of Registration Number 43365



STATE OF FLORIDA

AC# 2088636

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CBC1253175 07/20/05 050016449

CERTIFIED BUILDING CONTRACTOR
JACKSON, THIRLON KTIMOTHY SR
UNIVERSITY AREA BUILDING CONTRACT

IS CERTIFIED under the provisions of Ch 489 FS.

Expiration date: AUG 31, 2006 L05072000162

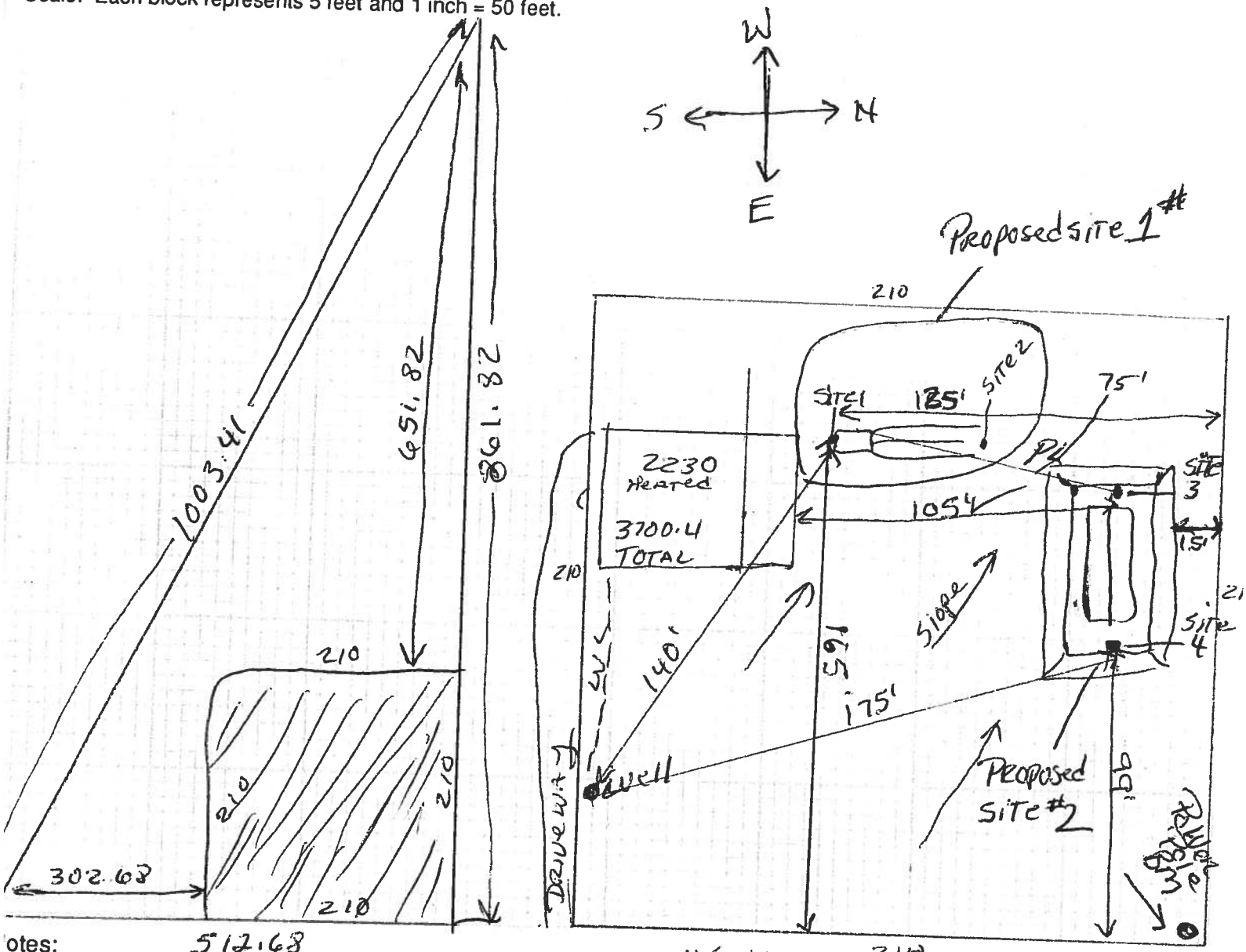
STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 06-0398N

PART II - SITE PLAN

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



Notes: Proposed SITE #1 will Gravity Flow to SEPTIC TANK

Proposed site #2 will Require PUMP TANK

Site Plan submitted by: Robert W Ford
Signature

Agent
Title

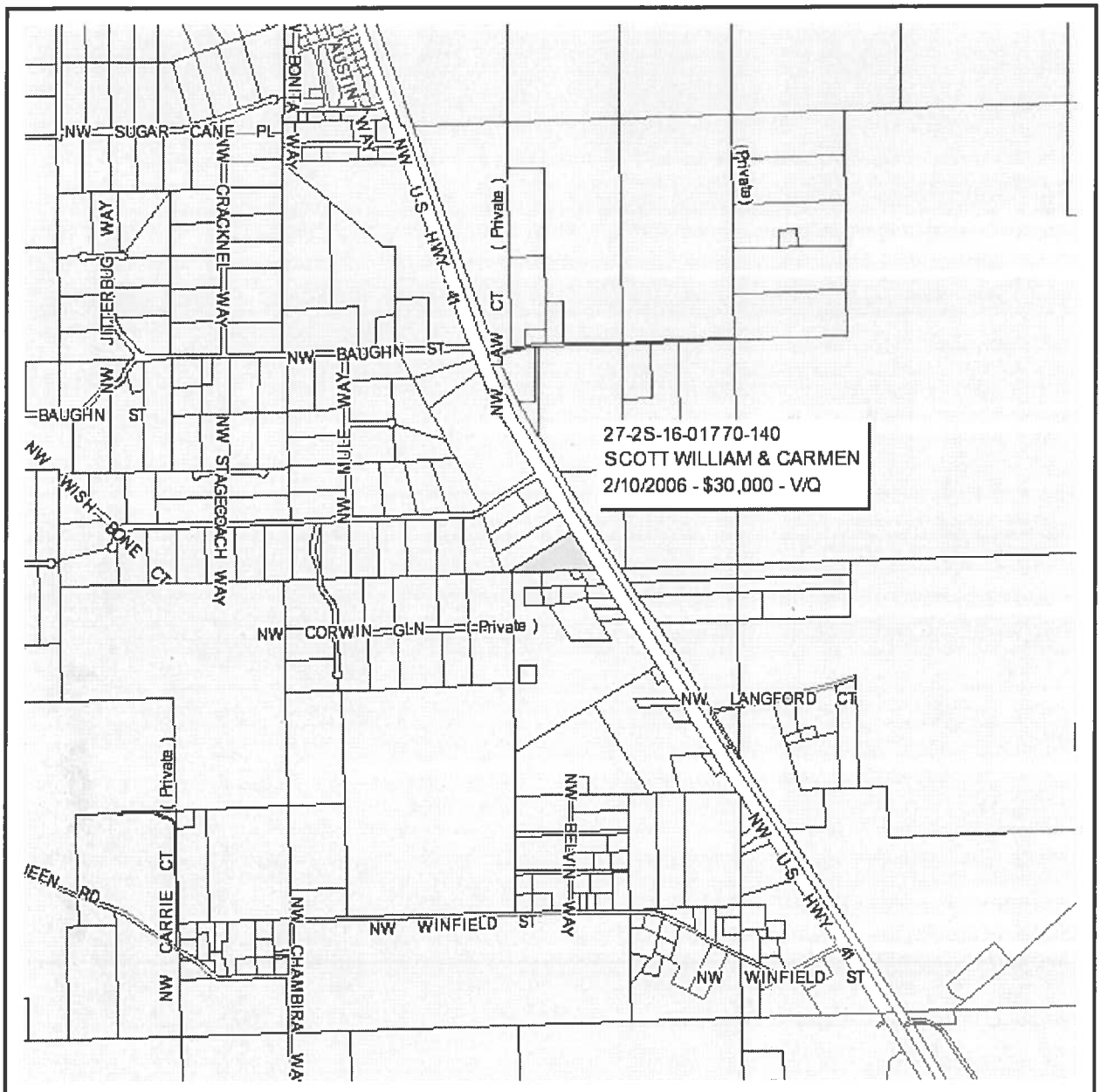
Plan Approved ✓ Not Approved ____

Date 4/24/06

Columbia County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

DH 4015, 10/96 (Replaces HRS-H Form 4015 which may be used)
Form Number: 5744-002-4015-6)



Columbia County Property Appraiser

J. Doyle Crews, CFA - Lake City, Florida - 386-758-1083

PARCEL: 27-2S-16-01770-140 - VACANT (000000)

Name:	SCOTT WILLIAM & CARMEN		LandVal		$28,000.00
Site:	COUNTRY LANE EST		BldgVal		$0.00
Mail:	P O BOX 4		ApprVal		$28,000.00
	WHITE SPRINGS, FL 32096		JustVal		$28,000.00
Sales Info	2/10/2006	$30,000.00 V / Q	Assd		$28,000.00
	3/18/2004	$100.00 V / U	Exmpt		$0.00
	4/21/1994	$10,995.00 V / Q	Taxable		$28,000.00

This information, GIS Map Updated: 5/5/2006, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

Columbia County Property Appraiser

DB Last Updated: 5/5/2006

2006 Proposed Values

Parcel: 27-2S-16-01770-140

Tax Record | Property Card | Interactive GIS Map | Print

Owner & Property Info

Search Result: 1 of 1

Owner's Name	SCOTT WILLIAM & CARMEN
Site Address	COUNTRY LANE EST
Mailing Address	P O BOX 4 WHITE SPRINGS, FL 32096
Description	LOT 40 BLOCK A COUNTRY LANE ESTATES S/D. ORB 682-200, 795-1606. PROBATE 1074-238 THRU 258,QCD 1074-264, WD 1074-265.

Use Desc. (code)	VACANT (000000)
Neighborhood	27216.02
Tax District	3
UD Codes	MKTA03
Market Area	03
Total Land Area	5.010 ACRES

Property & Assessment Values

Mkt Land Value	cnt: (1)	$28,000.00
Ag Land Value	cnt: (0)	$0.00
Building Value	cnt: (0)	$0.00
XFOB Value	cnt: (0)	$0.00
Total Appraised Value		$28,000.00

Just Value	$28,000.00
Class Value	$0.00
Assessed Value	$28,000.00
Exempt Value	$0.00
Total Taxable Value	$28,000.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale VImp	Sale Qual	Sale RCode	Sale Price
2/10/2006	1074/265	WD	V	Q		$30,000.00
3/18/2004	1074/264	QC	V	U	01	$100.00
4/21/1994	795/1606	WD	V	Q		$10,995.00

Building Characteristics

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

Extra Features & Out Buildings

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

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000000	VAC RES (MKT)	1.000 LT - (5.010AC)	1.00/1.00/1.00/1.00	$28,000.00	$28,000.00

Columbia County Property Appraiser DB Last Updated: 5/5/2006

1 of 1

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No 2502-0525

This form is completed by the licensed Pest Control Company.

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information is mandatory and is required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.
Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential.

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

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

#24580

Section 1: General Information (Treating Company Information)

Company Name: _____

Company Address: _____ City _____ State _____ Zip _____

Company Business License No. _____ Company Phone No. _____

FHA/VA Case No. (if any) _____

Section 2: Builder Information

Company Name: _____ Company Phone No. _____

Section 3: Property Information

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

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

Approximate Depth of Footing: Outside _____ Inside _____ Type of Fill _____

Section 4: Treatment Information

Date(s) of Treatment(s) _____

Brand Name of Product(s) Used _____

EPA Registration No. _____

Approximate Final Mix Solution % _____

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

Approximate Total Gallons of Solution Applied _____

Was treatment completed on exterior? ☐ Yes ☐ No

Service Agreement Available? ☐ Yes ☐ No

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

Attachments (List) _____

Comments _____

Name of Applicator(s) _____ Certification No. (if required by State law) _____

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

Authorized Signature _____ Date _____

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

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

FORM 600B-04 — **Residential Component Prescriptive Method B** — **NORTH 1 2 3**

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

PROJECT NAME AND ADDRESS:	HOUSE CONSTRUCTION	**BUILDER:**	
		PERMITTING OFFICE: Columbia	**CLIMATE ZONE:** 1 ☐ 2 ☐ 3 ☑
OWNER:		**PERMIT NO.:** 2458	**JURISDICTION NO.:** 221000

GENERAL DIRECTIONS

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

	Please Print	CK
1. Compliance package chosen (A-E)	1. PACKAGE C	✓
2. New construction or addition	2. NEW CONSTRUCTION	✓
3. Single family detached or Multifamily attached	3. SINGLE FAMILY	✓
4. If Multifamily—No. of units covered by this submission	4.	
5. Is this a worst case? (yes / no)	5.	
6. Conditioned floor area (sq. ft.)	6. 2230 SQ. FT.	✓
7. Predominant eave overhang (ft.)	7. 2 FT.	✓
8. Glass type and area :	Single Pane / Double Pane	
a. Clear glass	8a. 362.5 sq. ft. / _____ sq. ft.	✓
b. Tint, film or solar screen	8b. _____ sq. ft. / _____ sq. ft.	
9. Percentage of glass to floor area	9. 16.27 %	✓
10. Floor type, area or perimeter, and insulation:		
a. Slab on grade (R-value)	10a. R= 0 / 282 lin. ft.	✓
b. Wood, raised (R-value)	10b. R= _____ / _____ sq. ft.	
c. Wood, common (R-value)	10c. R= _____ / _____ sq. ft.	
d. Concrete, raised (R-value)	10d. R= _____ / _____ sq. ft.	
e. Concrete, common (R-value)	10e. R= _____ / _____ sq. ft.	
11. Wall type, area and insulation:		
a. Exterior: 1. Masonry (Insulation R-value)	11a-1 R= 5 / 344 sq. ft.	✓
2. Wood frame (Insulation R-value)	11a-2 R= _____ / _____ sq. ft.	
b. Adjacent: 1. Masonry (Insulation R-value)	11b-1 R= _____ / _____ sq. ft.	
2. Wood frame (Insulation R-value)	11b-2 R= 11 / 533 sq. ft.	✓
12. Ceiling type, area and insulation:		
a. Under attic (Insulation R-value)	12a. R= 30 / 2230 sq. ft.	✓
b. Single assembly (Insulation R-value)	12b. R= _____ / _____ sq. ft.	
13. Air Distribution System: Duct insulation, location	13. R= 6 / UNKNOWN	✓
Test report (attach if required)	14a. Type: CENTRAL	✓
14. Cooling system	14b. SEER/EER: 13.0	✓
(Types: central, room unit, package terminal A.C., gas, none)	14c. Capacity: 4 TONS	✓
15. Heating system:	15a. Type: ELECTRIC STRIP	✓
(Types: heat pump, elec. strip, nat. gas, L.P. gas, gas h.p., room or PTAC, none)	15b. HSPF/COP/AFUE: 7.4	✓
	15c. Capacity: 4 TONS	✓
16. Hot water system:	16a. Type: ELECTRIC	✓
(Types: elec., nat. gas, L.P. gas, solar, heat rec., ded. heat pump, other, none)	16b. EF: .92	✓

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

PREPARED BY: _____ **DATE:** 4-6-04

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

OWNER AGENT: _____ **DATE:** 4-6-04

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

BUILDING OFFICIAL: _____

DATE: _____

TABLE 6B-1 **MINIMUM REQUIREMENTS** **Climate Zones 1 2 3**

COMPONENTS		PACKAGES FOR NEW CONSTRUCTION					TO BE INSTALLED
		A	B	C	D	E	
GLASS	Max.%of glass to Floor Area	15%	15%	20%	20%	25%	10.87 %
	Type	Double Clear (DC)	Double Clear (DC)	Double Clear (DC)	Double Clear (DC)	Double Tint (DT)	DC: ☐ DT: ☐
	Overhang	1'4"	2'	2'	2'	2'	2 FEET
WALLS	Masonry	EXTERIOR AND ADJACENT MASONRY WALLS R-5 COMMON MASONRY WALLS R-3 EACH SIDE.					EXT: R = 5 ADJ: R = COM: R =
	Wood Frame	EXTERIOR, ADJACENT, AND COMMON WOOD FRAME WALLS R-11					EXT: R = ADJ: R = 11 COM: R =
CEILINGS		R-30	R-30 (NO SINGLE ASSEMBLY CEILINGS ALLOWED)	R-30	R-30	R-30	UNDER ATTIC: R = 30 COMMON: R =
FLOORS	Slab-On-Grade	R-0					R = 0
	Raised Wood	R-19 (ONLY STEM WALL CONSTRUCTION ALLOWED EXCEPT PACKAGE C)					R =
	Raised Concrete	R-7					R =
DUCTS		R-6	R-6	R-6, TESTED	R-6	R-6, TESTED	R = 6 COND. ☐
SPACE COOLING (SEER)		12.0	10.5	12.0	11.0	12.0	SEER = 13.0
HEAT	Elect. (HSPF)	7.9	7.1	7.4	7.4	7.4	COP= 7.4
	Gas/Oil (AFUE)	MINIMUM OF .73 (Direct heating) or .78 (Central)					AFUE =
HOT WATER SYSTEM	Electric Resistance**	EF .92	NOT ALLOWED (SEE BELOW)	EF .92	NOT ALLOWED (SEE BELOW)	EF .92	EF = .92
	Gas & Oil **	MINIMUM EF OF .59				NATURAL GAS ONLY (SEE BELOW)	EF =
	Other	Any of the following are allowed: dedicated heat pump, heat recovery unit or solar system.					DHP: ☐ EF= HRU: ☐ SOLAR: ☐ EF=

* Single package units minimum SEER=9.7, HSPF = 6.6.

** Minimum efficiencies for gas and electric hot water systems apply to to 40 gallon water heaters. Refer to Table 612.1 ABC.3.2 for minimum Code efficiencies for oil water heaters and other sizes.

DESCRIPTION OF BUILDING COMPONENTS LISTED

Percent of Glass to Floor Area: This percentage is calculated by dividing the total of all glass areas by the total conditioned floor area.

Overhang: The overhang is the distance the roof or soffit projects out horizontally from the face of the glass. All glass areas shall be under an overhang of at least the prescribed length with the following exceptions: 1) glass on the gabled ends of a house and 2) the glass in the lower stories of a multi-story house.

Wall, Ceiling and Floor Insulation Values: The R-values indicated represent the minimum acceptable insulation level added to the structural components of the wall, ceiling or floor. The R-value of the structural building materials shall not be included in this calculation. "Common" components are those separating conditioned tenancies in a multifamily building. "Adjacent" components separate conditioned space from unconditioned but enclosed space. "Exterior" components separate conditioned space from unconditioned and unenclosed space.

Floor: Slab-on-grade floors without edge insulation are acceptable. Raised wood floors shall have continuous stem walls with insulation placed on the stem wall or under the floor except Package C.

Ducts: "TESTED" shall mean the ducts have less than 5% leakage based on a certified test report by a State-approved tester.

Space Cooling System: Cooling systems shall have a Seasonal Energy Efficiency Ratio (SEER) for central units or Energy Efficiency Ratio (EER) for room units or PTAC's equal to or greater than the prescribed value.

Electric Space Heating Option: Heat pump systems shall be rated with a Heating Seasonal Performance Factor (HSPF) equal to or greater than the prescribed HSPF. Heat pump systems may contain electric strip backups meeting the criteria of section 608.1.ABC.3.2.1.2. No electric resistance space heat is allowed for these packages.

Electric Resistance Hot Water Option: For packages designated "Not Allowed", an electric resistance hot water system may be installed only in conjunction with one of the "Other Hot Water System Options". See below.

Other Hot Water System Options: Any dedicated heat pump, heat recovery unit, or solar hot water system may be installed. Solar systems must have an EF of 1.5 or higher. Electric resistance systems having an EF of .92 or greater, or natural gas systems with EF .59 or greater may be used in conjunction with these systems.

TABLE 6B-2 MINIMUM REQUIREMENTS FOR ALL PACKAGES

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Exterior Joints & Cracks	606.1	To be caulked, gasketed, weather-stripped or otherwise sealed.	✓
Exterior Windows & Doors	606.1	Max .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	✓
Sole & Top Plates	606.1	Sole plates and penetrations through top plates of exterior walls must be sealed.	✓
Recessed Lighting	606.1	Type IC rated with no penetrations (two alternatives allowed).	
Multi-story Houses	606.1	Air barrier on perimeter of floor cavity between floors.	✓
Exhaust Fans	606.1	Exhaust fans vented to unconditioned space shall have dampers, except for combustion devices with integral exhaust ductwork.	✓
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required for vertical pipe risers.	
Swimming Pools & Spas	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 minimum thermal efficiency of 78%.	✓
Hot Water Pipes	612.1	Insulation is required for hot water circulating systems (including heat recovery units).	✓
Shower Heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
HVAC Duct Construction, Insulation & Installation	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 610.1. Ducts in attics must be insulated to a minimum of R-6.	✓
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	✓

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2004 and FLORIDA RESIDENTIAL CODE 2004 WITH AMENDMENTS ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE OCTOBER 1, 2005

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 16 OF THE FLORIDA BUILDING CODE 2004 BY PROVIDING CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS. FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEED AS PER FIGURE 1609 SHALL BE USED.

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

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

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

GENERAL REQUIREMENTS; Two (2) complete sets of plans containing the following:

Applicant	Plans Examiner	
☑	☐	All drawings must be clear, concise and drawn to scale ("Optional " details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
☑	☐	Designers name and signature on document (FBC 106.1). If licensed architect or engineer, official seal shall be affixed.
☐	☐	**Site Plan including:** a) Dimensions of lot b) Dimensions of building set backs c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements. d) Provide a full legal description of property.
☑	☐	**Wind-load Engineering Summary, calculations and any details required** Plans or specifications must state compliance with FBC Section 1609. The following information must be shown as per section 1603.1.4 FBC a. Basic wind speed (3-second gust), miles per hour (km/hr). b. Wind importance factor, Iw, and building classification from Table 1604.5 or Table 6-1, ASCE 7 and building classification in Table 1-1, ASCE 7. c. Wind exposure, if more than one wind exposure is utilized, the wind exposure and applicable wind direction shall be indicated. d. The applicable enclosure classifications and, if designed with ASCE 7, internal pressure coefficient. e. Components and Cladding. The design wind pressures in terms of psf (kN/m^2) to be used for the design of exterior component and cladding materials not specifally designed by the registered design professional.
		Elevations including:
☑	☐	a) All sides
☑	☐	b) Roof pitch
☑	☐	c) Overhang dimensions and detail with attic ventilation

☐ ☐ d) Location, size and height above roof of chimneys.
☐ ☐ e) Location and size of skylights
☑ ☐ f) Building height
☐ ☐ e) Number of stories

Floor Plan including:

☑ ☐ a) Rooms labeled and dimensioned.
☑ ☐ b) Shear walls identified.
☐ ☐ c) Show product approval specification as required by Fla. Statute 553.842 and Fla. Administrative Code 9B-72 **(see attach forms).**
☐ ☐ d) Show safety glazing of glass, where required by code.
☐ ☐ e) Identify egress windows in bedrooms, and size.
☑ ☐ f) Fireplace (gas vented), (gas non-vented) or wood burning with hearth, **(Please circle applicable type).**
☐ ☐ g) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails.
☑ ☐ h) Must show and identify accessibility requirements (accessible bathroom)

Foundation Plan including:

☐ ☐ a) Location of all load-bearing wall with required footings indicated as standard or monolithic and dimensions and reinforcing.
☐ ☐ b) All posts and/or column footing including size and reinforcing
☐ ☐ c) Any special support required by soil analysis such as piling
☐ ☐ d) Location of any vertical steel.

Roof System:

☑ ☐ a) Truss package including:
1. Truss layout and truss details signed and sealed by Fl. Pro. Eng.
2. Roof assembly (FBC 106.1.1.2)Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

☐ ☐ b) Conventional Framing Layout including:
1. Rafter size, species and spacing
2. Attachment to wall and uplift
3. Ridge beam sized and valley framing and support details
4. Roof assembly (FBC 106.1.1.2)Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

Wall Sections including:

☑ ☐ a) Masonry wall
1. All materials making up wall
2. Block size and mortar type with size and spacing of reinforcement
3. Lintel, tie-beam sizes and reinforcement
4. Gable ends with rake beams showing reinforcement or gable truss and wall bracing details
5. ☒ All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation shall be designed by a Windload engineer using the engineered roof truss plans.
6. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating)
7. Fire resistant construction (if required)
8. Fireproofing requirements
9. Shoe type of termite treatment (termiticide or alternative method)
10. Slab on grade
    a. Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
    b. Must show control joints, synthetic fiber reinforcement or Welded fire fabric reinforcement and supports
11. Indicate where pressure treated wood will be placed
12. Provide insulation R value for the following:

a. Attic space
b. Exterior wall cavity
c. Crawl space (if applicable)

☐ ☐ b) Wood frame wall

1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers) shall be designed by a Windload engineer using the engineered roof truss plans.
7. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termite treatment (termiticide or alternative method)
11. Slab on grade
    a. Vapor retarder (6Mil. Polyethylene with joints lapped 6 inches and sealed
    b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports
12. Indicate where pressure treated wood will be placed
13. Provide insulation R value for the following:
    a. Attic space
    b. Exterior wall cavity
    c. Crawl space (if applicable)

☐ ☐ c) Metal frame wall and roof (designed, signed and sealed by Florida Prof. Engineer or Architect)

Floor Framing System:

☐ ☐ a) Floor truss package including layout and details, signed and sealed by Florida Registered Professional Engineer

☐ ☐ b) Floor joist size and spacing

☐ ☐ c) Girder size and spacing

☐ ☐ d) Attachment of joist to girder

☐ ☐ e) Wind load requirements where applicable

☐ ☐ **Plumbing Fixture layout**

Electrical layout including:

☐ ☐ a) Switches, outlets/receptacles, lighting and all required GFCI outlets identified

☐ ☐ b) Ceiling fans

☐ ☐ c) Smoke detectors

☐ ☐ d) Service panel and sub-panel size and location(s)

☐ ☐ e) Meter location with type of service entrance (overhead or underground)

☐ ☐ f) Appliances and HVAC equipment

☐ ☐ g) Arc Fault Circuits (AFCI) in bedrooms

☐ ☐ h) Exhaust fans in bathroom

HVAC information

☐ ☐ a) Energy Calculations (dimensions shall match plans)

☐ ☐ b) Manual J sizing equipment or equivalent computation

☐ ☐ c)Gas System Type (LP or Natural) Location and BTU demand of equipment

☐ ☐ **Disclosure Statement for Owner Builders**

☐ ☐ ***Notice Of Commencement Required Before Any Inspections Will Be Done**

☐ ☐ **Private Potable Water**

a) Size of pump motor
b) Size of pressure tank
c) Cycle stop valve if used

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

1. **Building Permit Application:** A current Building Permit Application form is to be completed and submitted for all residential projects.

2. **Parcel Number:** The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested.

3. **Environmental Health Permit or Sewer Tap Approval:** A copy of the Environmental Health permit, existing septic approval or sewer tap approval is required before a building permit can be issued. (386) 758-1058 **(Toilet facilities shall be provided for construction workers)**

4. **City Approval: If the project is to be located within the city limits of the Town of Fort White**, prior approval is required. The Town of Fort White approval letter is required to be submitted by the owner or contractor to this office when applying for a Building Permit. **(386) 497-2321**

5. **Flood Information:** All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.8 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.7 of the Columbia County Land Development Regulations. **CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED.**
A development permit will also be required. Development permit cost is **$50.00**

6. **Driveway Connection:** If the property does not have an existing access to a public road, then an application for a culvert permit **($25.00)** must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver **($50.00)**. All culvert waivers are sent to the Columbia County Public Works Department for approval or denial. **If the project is to be located on a F.D.O.T. maintained road, than an F.D.O.T. access permit is required.**

7. **911 Address:** If the project is located in an area where the 911 address has been issued, then the proper paperwork from the 911 Addressing Department must be submitted. (386) 752-8787

ALL REQUIRED INFORMATION IS TO BE SUBMITTED FOR REVIEW. YOU WILL BE NOTIFIED WHEN YOUR APPLICATION AND PLANS ARE APPROVED AND READY TO PERMIT. PLEASE DO NOT EXPECT OR REQUEST THAT PERMIT APPLICATIONS BE REVIEWED OR APPROVED WHILE YOU ARE HERE – TIME WILL NOT ALLOW THIS –PLEASE DO NOT ASK

RESIDENTIAL WIND DESIGN & ANALYSIS

NO COPIES ARE TO BE PERMITTED \ FBC2004

PREPARED FOR:

THE SCOTT RESIDENCE

PREPARED BY:

MARTY R. ESKRIDGE
14952 MAIN ST
ALACHUA FL 32615
386-462-1340 / 352-375-6329

MARTY R. ESKRIDGE & ASSOCIATES
14952 MAIN ST ALACHUA FL 32615 PH: 386-462-1340

February 16, 2006

SUMMARY: Wind Load Analysis for The Scott Residence
Wind Speed: 110 M.P.H. \ No Copies Permitted \ Florida Building Code \ Latest Edition

Foundation:
20" wide x 10" deep stemwall footing with (2) #5 rebar continuous minimum. CMU walls must have #5 dowels at 60" o.c. with a standard 90 degree ACI hook in footing and a 4" slab on grade. Monolithic slab to be 12" wide x 20" deep minimum with (2) #5 rebar continuous with 12" minimum coverage on face of foundation. It is assumed that ideal soil conditions and pad preparation are provided.

Walls:
8" CMU block with vertical #5 reinforcing bar in grout filled cell at 60" o.c. maximum spacing. Wall heights are 10' nominal. Provide an 8" x 8" bond beam with 1-#5 rebar horizontal continuous at the top course. Install pre-cast, pre-engineered lintels or pre-engineered steel lintels spanning over all openings. One #5 rebar each corner. One #5 rebar each side of door and window openings. Two #5 rebar in openings wider than 12'-0". One #5 rebar where girders or girder trusses bear on masonry wall.

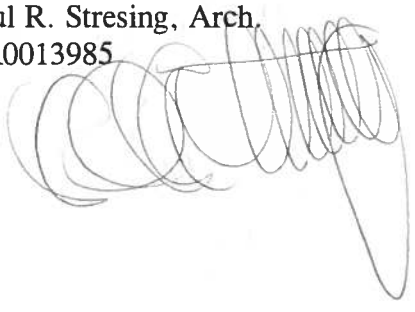
Shearwalls:
Transverse: 74'-0"
Longitudinal: 57'-0"

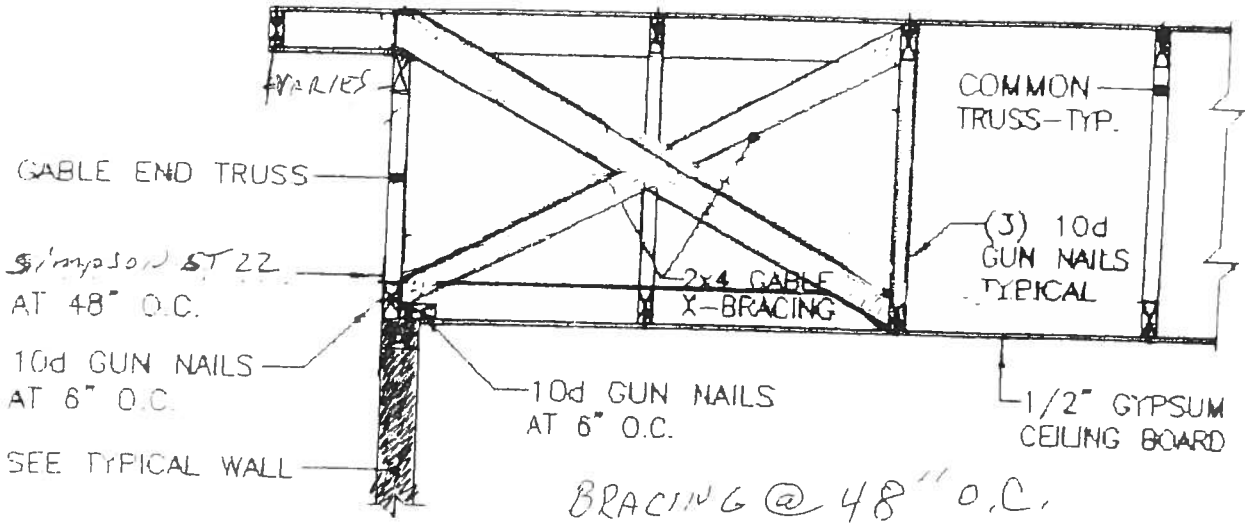
Trusses:
Pre-engineered Pre-fabricated with the bracing system designed by the manufacturer. Trusses must be anchored according to the truss engineering. Trusses must bear on all exterior walls and then porch headers.

Roof Sheathing:
7/16" osb minimum attached to the top chords of the trusses with 8d/131 gauge nails spaced at 4" o.c. edges and 8" interior.

Columns:
8" x 8" fully grouted cmu columns with (1) #5 rebar continuous minimum. See truss engineering for uplift anchorages.

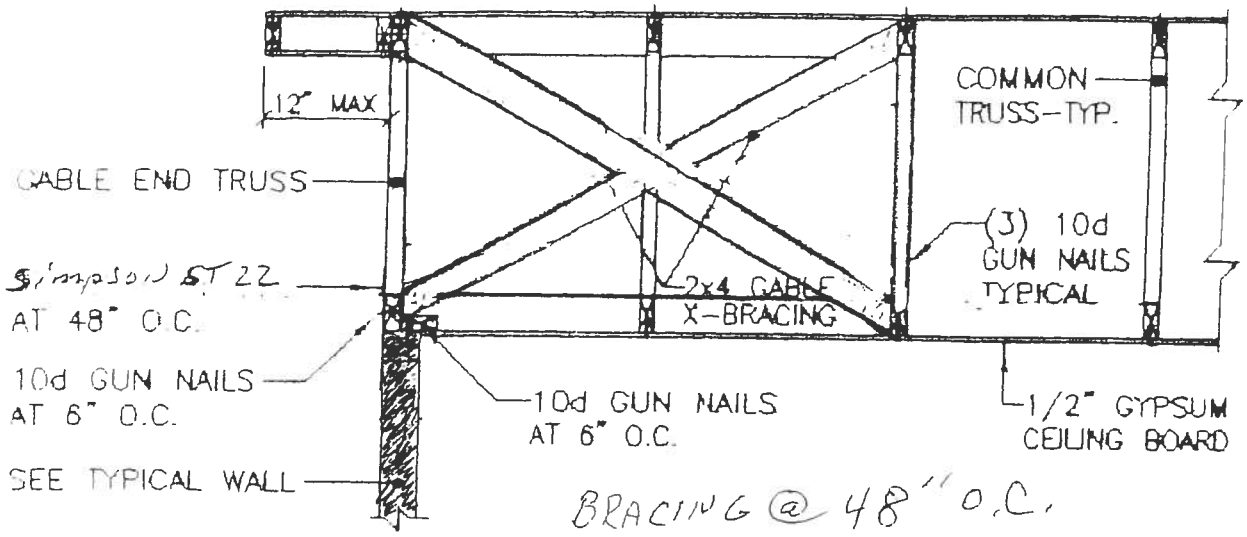
Paul R. Stresing, Arch.
AR0013985





GABLE END DETAIL

SCALE: NTS



GABLE END DETAIL

Scott

SCALE: NTS

A12001305
2/16/06

ASCE 7-98

2/16/06

Wind Load Design per ASCE 7-98

User Input Data		
Structure Type	Building	
Basic Wind Speed (V)	110	mph
Structural Category	II	
Exposure	B	
Struc Nat Frequency (n1)	1	Hz
Slope of Roof (Theta)	30.3	Deg
Type of Roof	Hipped	
Eave Height (Eht)	10.00	ft
Ridge Height (RHt)	26.41	ft
Mean Roof Height (Ht)	19.28	ft
Width Perp. to Wind (B)	70.00	ft
Width Parallel to Wind (L)	74.00	ft
Damping Ratio (beta)	0.01	

Red values should be changed only through "Main Menu"

Calculated Parameters		
Importance Factor	1	
Hurricane Prone Region (V>100 mph)		
Table C6-4 Values		
Alpha =	7.000	
zg =	1200.000	
At =	0.143	
Bt =	0.840	
Am =	0.250	
Bm =	0.450	
Cc =	0.300	
l =	320.00	ft
Epsilon =	0.333	
Zmin =	30.00	ft

Calculated Parameters	
Type of Structure	
Height/Least Horizontal Dim	0.28
Flexible Structure	No

Gust Factor Category I: Rigid Structures - Simplified Method			
Gust1	For rigid structures (Nat Freq > 1 Hz) use 0.85	0.85	
Gust Factor Category II: Rigid Structures - Complete Analysis			
Zm	Zmin	30.00	ft
lzm	Cc * (33/z)^0.167	0.3048	
Lzm	l*(zm/33)^Epsilon	309.99	ft
Q	(1/(1+0.63*((B+Ht)/Lzm)^0.63))^0.5	0.8813	
Gust2	0.925*((1+1.7*Izm*3.4*Q)/(1+1.7*3.4*Izm))	0.8549	
Gust Factor Category III: Flexible or Dynamically Sensitive Structures			
Vhref	V*(5280/3600)	161.33	ft/s
Vzm	bm*(zm/33)^Am*Vhref	70.89	ft/s
NF1	NatFreq*Lzm/Vzm	4.37	Hz
Rn	(7.47*NF1)/(1+10.302*NF1)^1.667	0.0552	
Nh	4.6*NatFreq*Ht/Vzm	1.25	
Nb	4.6*NatFreq*B/Vzm	4.54	
Nd	15.4*NatFreq*Depth/Vzm	16.08	
Rh	1/Nh-(1/(2*Nh^2)*(1-Exp(-2*Nh)))	0.5060	
Rb	1/Nb-(1/(2*Nb^2)*(1-Exp(-2*Nb)))	0.1959	
Rd	1/Nd-(1/(2*Nd^2)*(1-Exp(-2*Nd)))	0.0603	
RR	((1/Beta)*Rn*Rh*Rb*(0.53+0.47*Rd))^0.5	0.5527	
gg	+(2*LN(3600*n1))^0.5+0.577/(2*LN(3600*n1))^0.5	4.19	
Gust3	0.925*((1+1.7*Izm*(3.4^2*Q^2+GG^2*RR^2)^0.5)/(1+1.7*3.4*Izm))	0.99	

Gust Factor Summary			
Main Wind-force resisting system:		**Components and Cladding:**	
Gust Factor Category:	I	Gust Factor Category:	I
Gust Factor (G)	0.85	Gust Factor (G)	0.85

ASCE 7-98

2/16/06

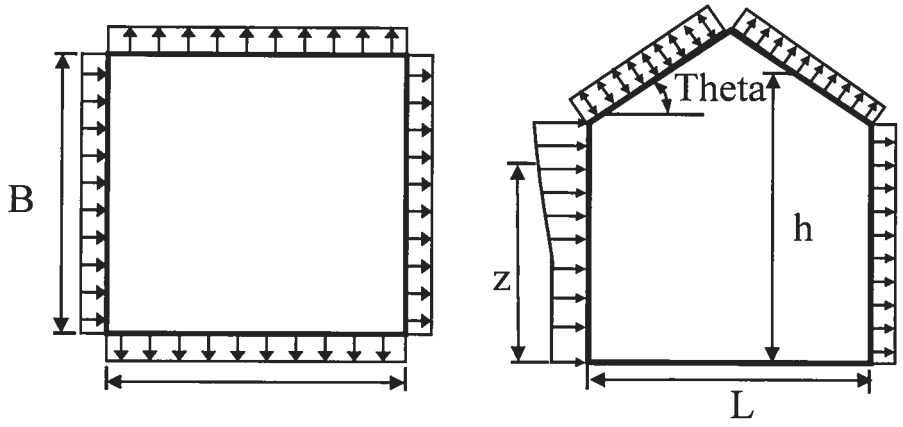
Wind Load Design per ASCE 7-98

6.5.12.2.1 Design Wind Pressure - Buildings of All Heights (Non-flexible)

Elev.	Kz	Kzt	Kd	qz	Pressure (lb/ft^2)	
					Windward Wall*	
ft			1.00	lb/ft^2	+GCpi	-GCpi
26.41	0.70	1.00	1.00	21.70	11.40	18.29
20	0.70	1.00	1.00	21.70	11.40	18.29
19.28	0.70	1.00	1.00	21.70	11.40	18.29
15	0.70	1.00	1.00	21.70	11.40	18.29

Figure 6-3 - External Pressure Coefficients, Cp

Loads on Main Wind-Force Resisting Systems



Variable	Formula	Value	Units
Kh	2.01*(Ht/zg)^(2/Alpha)	0.62	
Kht	Topographic factor (Fig 6-2)	1.00	
Qh	.00256*(V)^2*ImpFac*Kh*Kht*Kd	19.13	psf

Wall Pressure Coefficients, Cp	
Surface	**Cp**
Windward Wall (See Figure 6.5.12.2.1 for Pressures)	0.80

Roof Pressure Coefficients, Cp	
Roof Area (sq. ft.)	-
Reduction Factor	1.00

Description	Cp	Pressure (psf)	
		+GCpi	-GCpi
Leeward Walls (Wind Dir Parallel to 70 ft wall)	-0.49	-11.43	-4.55
Leeward Walls (Wind Dir Parallel to 74 ft wall)	-0.50	-11.62	-4.73
Side Walls	-0.70	-14.89	-8.00
Roof - Normal to Ridge (Theta>=10)			
Windward - Max Negative	-0.19	-6.53	0.36
Windward - Max Positive	0.30	1.49	8.38
Leeward Normal to Ridge	-0.60	-13.25	-6.37
Overhang Top	-0.19	-3.08	-3.08
Overhang Bottom	0.80	0.68	0.68
Roof - Parallel to Ridge (All Theta)			
Dist from Windward Edge: 0 ft to 9.64 ft	-0.90	-18.16	-11.27

ASCE 7-98

Wind Load Design per ASCE 7-98

Dist from Windward Edge: 9.64 ft to 19.28 ft	-0.90	-18.16	-11.27
Dist from Windward Edge: 19.28 ft to 38.56 ft	-0.50	-11.62	-4.73
Dist from Windward Edge: > 38.56 ft	-0.30	-8.35	-1.46

* Horizontal distance from windward edge

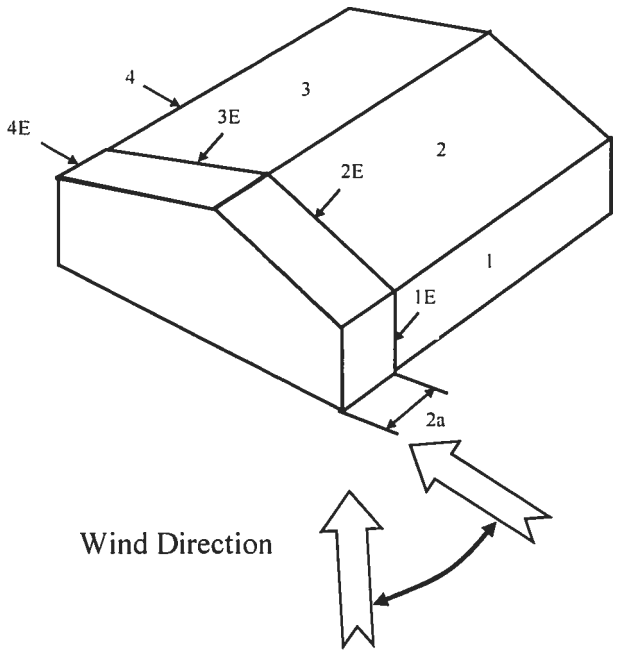
Figure 6-4 - External Pressure Coefficients, GCpf

Loads on Main Wind-Force Resisting Systems w/ Ht <= 60 ft

Kh =	2.01*(Ht/zg)^(2/Alpha)	=	0.62
Kht =	Topographic factor (Fig 6-2)	=	1.00
Qh =	0.00256*(V)^2*ImpFac*Kh*Kht*Kd	=	19.13

Case A						
Surface	**GCpf**	**+GCpi**	**-GCpi**	**qh (psf)**	**Min P (psf)**	**Max P (psf)**
1	0.56	0.18	-0.18	21.70	8.25	16.06
2	0.21	0.18	-0.18	21.70	0.65	8.46
3	-0.43	0.18	-0.18	21.70	-13.24	-5.43
4	-0.37	0.18	-0.18	21.70	-11.94	-4.12
5	0.00	0.18	-0.18	21.70	-3.91	3.91
6	0.00	0.18	-0.18	21.70	-3.91	3.91
1E	0.69	0.18	-0.18	21.70	11.07	18.88
2E	0.27	0.18	-0.18	21.70	1.95	9.77
3E	-0.53	0.18	-0.18	21.70	-15.41	-7.60
4E	-0.48	0.18	-0.18	21.70	-14.32	-6.51
5E	0.00	0.18	-0.18	21.70	-3.91	3.91
6E	0.00	0.18	-0.18	21.70	-3.91	3.91

* p = qh * (GCpf - GCpi)



ASCE 7-98

Wind Load Design per ASCE 7-98

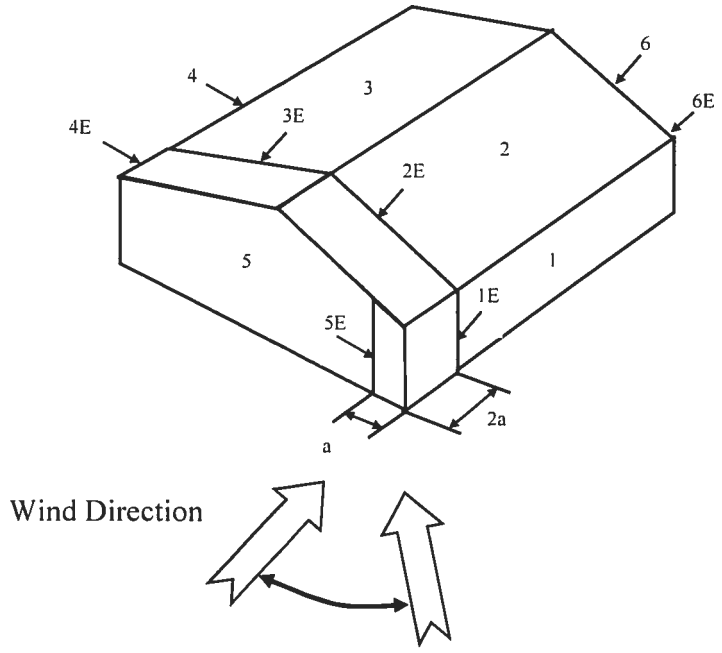
Figure 6-4 - External Pressure Coefficients, GCpf

Loads on Main Wind-Force Resisting Systems w/ Ht <= 60 ft

Kh =	2.01*(Ht/zg)^(2/Alpha)	=	0.62
Kht =	Topographic factor (Fig 6-2)	=	1.00
Qh =	0.00256*(V)^2*ImpFac*Kh*Kht*Kd	=	19.13

Case B						
Surface	GCpf	+GCpi	-GCpi	qh (psf)	Min P (psf)	Max P (psf)
1	-0.45	0.18	-0.18	21.70	-13.67	-5.86
2	-0.69	0.18	-0.18	21.70	-18.88	-11.07
3	-0.37	0.18	-0.18	21.70	-11.94	-4.12
4	-0.45	0.18	-0.18	21.70	-13.67	-5.86
5	0.40	0.18	-0.18	21.70	4.77	12.59
6	-0.29	0.18	-0.18	21.70	-10.20	-2.39
1E	-0.48	0.18	-0.18	21.70	-14.32	-6.51
2E	-1.07	0.18	-0.18	21.70	-27.13	-19.31
3E	-0.53	0.18	-0.18	21.70	-15.41	-7.60
4E	-0.48	0.18	-0.18	21.70	-14.32	-6.51
5E	0.61	0.18	-0.18	21.70	9.33	17.14
6E	-0.43	0.18	-0.18	21.70	-13.24	-5.43

* p = qh * (GCpf - GCpi)

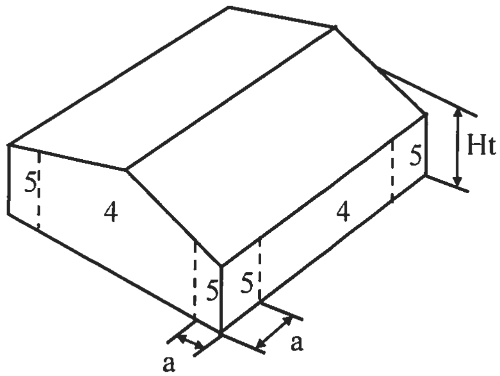


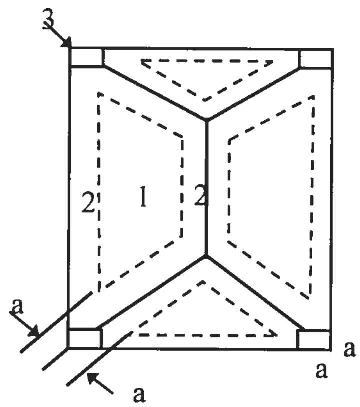
ASCE 7-98

Wind Load Design per ASCE 7-98

Figure 6-5 - External Pressure Coefficients, GCp

Loads on Components and Cladding for Buildings w/ Ht <= 60 ft





Hipped Roof
10 < Theta <= 30

a = 7 ==> 7.00 ft

Component	Width (ft)	Length (ft)	Area (ft^2)	Zone	GCp Max	GCp Min	Wind Press (lb/ft^2) Max	Wind Press (lb/ft^2) Min
	16	7	112.00	5	0.81	-1.03	19.03	-23.13
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
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	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					

Note: * Enter Zone 1 through 5, or 1H through 3H for overhangs.

Table 6-7 Internal Pressure Coefficients for Buildings, Gcpi

ASCE 7-98

Wind Load Design per ASCE 7-98

Condition	Gcpi	
	Max +	Max -
Open Buildings	0.00	0.00
Partially Enclosed Buildings	0.55	-0.55
Enclosed Buildings	0.18	-0.18
Enclosed Buildings	**0.18**	**-0.18**

Table 6-8 External Pressure Coefficients for Arched Roofs, Cp

r (Rise-to-Span Ratio) = 0.3

Condition	Variable	Cp		
		Windward Quarter	Center Half	Leeward Quarter
Roof on Elevated Structure	Cp	0.13	-1	-0.5
	P (+GCpi) - psf	-1.40	-19.79	-11.62
	P (-GCpi) -psf	5.49	-12.91	-4.73
Roof Springing from Ground	Cp	0.42	-1	-0.5
	P (+GCpi) - psf	3.43	-19.79	-11.62
	P (-GCpi) -psf	3.43	-19.79	-11.62

Table 6-9 Force Coefficients for Monoslope Roofs over Open Buildings, Cf

Variable	Description	Value	
L	Roof dimension normal to wind direction	74.00	ft
B	Roof dimension parallel to wind direction	70.00	ft
L/B	Ratio of L to B	1.057	
Theta	Slope of Roof	30.3	Deg
Cf	Force Coefficient	0.00	
X	Distance to center of pressure from windward edge	0.00	ft

TIE-DOWN TABLES

HEADERS				
Uplift Force Lbs	Top Connector **	Rating Lbs	Bottom Connector **	Rating Lbs
to 455	LSTA9	725	H3	455
to 910	LSTA12	905	2-H3	910
to 1265	LSTA18	1265	LTT19	1350
to 1750	2-LSTA12	1810	LTT20	1750
to 2530	2-LSTA18	2530	HD2A-2.5	2565
to 2865	3-LSTA18	3255	HD2A-3.5	2865
to 3700	3-LSTA24	3880	HD5A-3	3700
Total uplift for each truss resting on the header and divide by 2 to determine the uplift force. Use proper bolt anchors sufficient to support required load.				

TRUSSES/GIRDERS		
Uplift Force Lbs	Top Connector **	Bottom Connector **
to 500	H2.5	N/A
501-1049	H10	N/A
1050-1350	TS22	LTT19
1351-1750	2-TS22	LTT20
1751-2570	2-TS22	HD2A
2571-3665	3-TS22	HD5A
3666-5260	2-MST148	HTT22
5261-8300	2-MST48	HD10A
Two 12d common toenails are required per truss/rafter per bearing point into plate. Use proper bolt anchors. Strap rafters to truss or at each end with minimum uplift resistance of 450# each end. Strap ridge beam at each end with minimum uplift resistance of 1000#. It is the contractors responsibility to provide a continuous load path from truss/rafter/ridge beam to foundation		

	Top Connector **	Rating Lbs	Bottom Connector **	Rating
BEAM SEATS	LSTA18*	1200	LTT19*	1250
POSTS (max 17' spacing)	2-LSTA18	2400	ABU44	2300
*or per truss engineering Use proper bolt anchors All beams to be sheathed or strapped to Double Top Plate when applicable.				

CRIPPLES	Sheathing nailing alone adequate w/8d nails @ 3" O.C.

STUDS
Wall sheathing nailing Adequate exterior walls bottom w/8d nails @ 3" O.C.
Wall sheathing nailing Adequate exterior walls top w/8d nails @ 3" O.C., as long as sheathing covers top plate, otherwise use SP2 @ 32" O.C. in addition to sheathing nailing.
Use SP2 top and SP1 bottom each stud for all interior load bearing walls and anchor bolts @ 32" O.C.
Interior anchor bolts to be ½" x 8" A307 or ½" x 6" wedge anchor or equivalent.

** Equivalent Simpson hardware, or other manufacturer, may be substituted for any of the hardware specified on this page as long as it meets the required load capacities/uplift resistance.
NOTE: For nailing into SPF members, multiply table values by .86

THREE-TAB SHINGLES

YOUR OBJECTIVE:
To learn the correct procedures for installing three-tab type strip shingles.

ENGLISH DIMENSIONS
CLASSIC HORIZON SHANGLE,® PATRIOT™ AR, XT™ 30, XT™ 30 IR, XT™ 25, SEALDON® 25, CT 20,

METRIC DIMENSIONS
CT 20 AND XT™ 30

All of these shingles are "good" or "better" quality roofing products. This means that when offering a choice of "good," "better" and "best" products, these shingles would fall in the "good "or "better" categories.

The fiber glass versions of these products are UL Class A fire resistance-rated. The organic versions are UL Class C fire resistance-rated. All CertainTeed three-tab shingles are made to have a dimensional tolerance size of ± 1/16". Wind resistance ratings are 60 MPH, 70 MPH or 80 MPH, depending upon the shingle. All of these products have tear resistance ratings that exceed ASTM D3462 requirements.

★ XT30 IR – the IR stands for impact resistant – is specially manufactured with a reinforced fiberglass scrim to meet UL 2218 Class 4 impact resistance rating and is also algae-resistant.

NOTE: XT30 IR must be installed over a clean deck (no roof-overs) to obtain the UL 2218 rating. It is strongly recommended that impact resistant cap shingles made from XT 30 IR shingles be installed on all hips and ridges. Some insurance carriers may not consider the roof system as compliant to UL 2218 Class 4 without impact resistant cap shingles

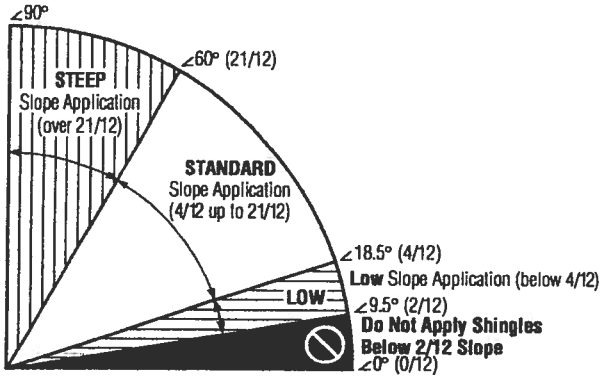


Figure 12-1: Slope definitions.

STANDARD OR STEEP SLOPE UNDERLAYMENT: Shingle underlayment* meeting ASTM D4869 Type I standards is suggested. CertainTeed's Roofers' Select™, ShingleFelt™, or RoofWrap™ is preferred.

LOW SLOPE UNDERLAYMENT: One layer of WinterGuard™ Waterproofing Shingle Underlayment or its equivalent*, or two layers of 36" (915 mm) wide felt shingle underlayment lapped 19" (485 mm) must be applied over the entire roof.

THE ROOF DECK* MUST BE AT LEAST: 3/8" (9.5 mm) thick plywood, **or** 7/16" (11 mm) thick non-veneer, **or** nominal 1" (25 mm) thick wood deck.

COLD WEATHER CLIMATES (ALL SLOPES): Applying WinterGuard or its equivalent* is strongly recommended wherever there is a possibility of ice build-up.

FLASHING: Corrosion-resistant flashing must be used to help prevent leaks where a roof meets a wall, another roof, a chimney or other objects that penetrate a roof.

SEALING: Shingle sealing may be delayed if shingles are applied in cool weather and may be further delayed by airborne dust accumulation. If any shingles have not sealed after a reasonable time period, hand sealing may be necessary.

CAUTION: To prevent cracking, shingles must be sufficiently warm to allow proper forming for hips, ridges and valleys.

WARRANTY: These shingles are warranted against manufacturing defects and are covered by SureStart™ protection. See the warranty itself for specific details and limitations.

NOTE: Some roofers choose to apply shingles at 4" exposure (vs. standard 5") at slopes less than 4/12 in order to increase the wind-driven rain resistance. In some cases, this can be an acceptable practice, but there are risks for which CertainTeed will not take responsibility. A shortened exposure can harm the appearance of the applied roofing, especially those with shadow lines, and it can reduce shingle ability to resist wind blow-offs by shifting the adhesive seal line away from the bottom edge of the shingles.

*

For technical questions, information on acceptable alternative application methods and materials, or a copy of the product warranty, contact the sources listed below:		Warranty	Alternate Instructions	Technical Questions
Your supplier or roofing applicator		✓		
CertainTeed Home Institute	800-782-8777	✓	✓	
CertainTeed Fax-on-Demand	800-947-0057	✓	✓	
CertainTeed-RPG Technical Services	800-345-1145	✓	✓	✓

FASTENING

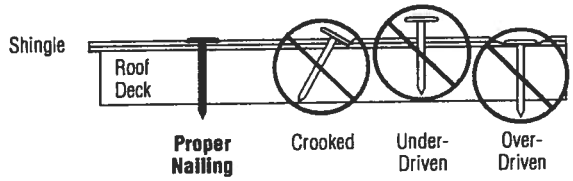


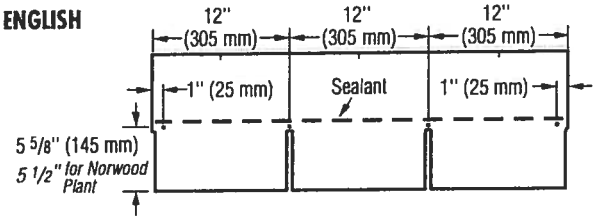
Figure 12-2: Proper and improper nailing.

IMPORTANT: For decks 3/4" (19 mm) thick or thicker, nails must go at least 3/4" (19 mm) into the deck. On thinner decks, nails must go at least 1/8" (3.2 mm) through the deck.

Nails must be 11- or 12-gauge roofing nails, corrosion-resistant, with at least 3/8" (9.5 mm) heads, and at least 1" (25 mm) long.

LOW AND STANDARD SLOPE

ENGLISH



METRIC

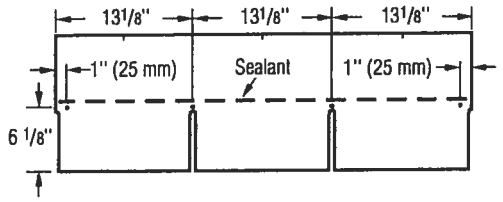
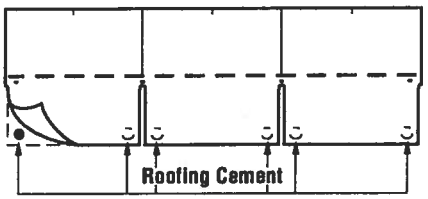


*Figure 12-3: Use **four** nails for every full shingle.*

STEEP SLOPE

Use **four** nails and six spots of asphalt roofing cement* for every full shingle (*Figure 12-4*). Asphalt roofing cement meeting ASTM D4586 Type II is suggested.



Apply 1" (25 mm) spots of asphalt roofing cement under each tab corner.

*Figure 12-4: Use **four** nails and six spots of asphalt cement on steep slopes.*

***CAUTION:** Excessive use of roofing cement can cause shingles to blister.

HIGH WIND AREAS

DO NOT USE STAPLES.

"Storm nailing" is not required by CertainTeed; however, the installer can use six nails to secure each shingle. In addition, the installer can seal each shingle with four spots of asphalt roofing cement ASTM D4586 Type II the size of a quarter, equally spaced, but it is not required by CertainTeed.

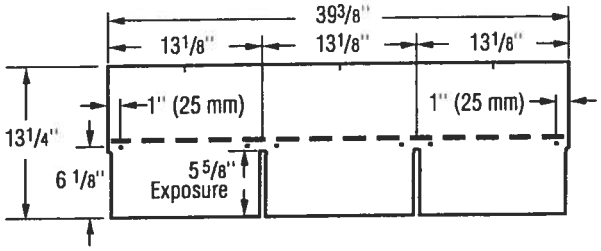


*Figure 12-5: **Six** nails can be used for high wind applications.*

THREE CLEAN-DECK APPLICATION METHODS FOR ENGLISH DIMENSION SHINGLES

Install on new roofs and tear-offs using the following methods:

- The standard "Six-Course, Six-Inch, Stepped-Off Diagonal Method";
- The alternate "Five-Inch, Stepped-Off Diagonal Method"; or
- The alternate "Six-Inch, Single-Column, Vertical Racking Method."

(1) SIX-COURSE, SIX-INCH, STEPPED-OFF DIAGONAL METHOD ("SIX UP, SIX OFF")

PREPARING THE DECK:

- Apply underlayment as required. CertainTeed suggests that a layer of shingle underlayment be applied. For UL fire rating, underlayment is generally required. Apply flat and unwrinkled.
- Snap horizontal and vertical chalklines to assure shingles will be correctly aligned. Expose all shingles 5" (125 mm).

STARTER COURSE:

1. Use CertainTeed Starter™ (10" x 36") or a starter course consisting of the shingles from which the lower 5" tabs have been removed (*Figure 12-6*). Remember, the sealant on starter courses should lie as close as possible to the eaves edge of the roof.

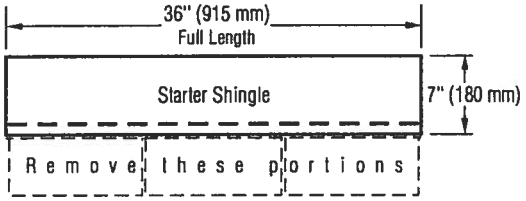


Figure 12-6: Make starter shingles by removing the lower 5" tabs.

2. Next, cut 6" off the length of the first starter-course shingle. Install this shingle on the lower left corner of the roof. Make sure there is 1/2" left overhanging both rakes and eaves if drip edge is being used. If you are not using drip edge, make the overhang 3/4".
3. Continue with full-length starter course shingles along the eaves (*Figure 12-7*).

1ST COURSE: Apply a full shingle at the lower left corner of the roof. Make tabs lie flush with the edges of the starter course. In this way, sealant on the starter strip will adhere to the first-course tabs and help keep them from lifting in high winds (*Figure 12-8*).

2ND THROUGH 6TH COURSES:

1. Cut 6" off the left side of a shingle and install this 30" piece over and above the first-course shingle, in line with the left edge of the starter course. Leave the 5" tabs of the first-course shingle exposed (*Figure 12-8*).
2. Cut 12" off the first shingle of the third course, 18" off the first shingle of the fourth course, 24" off the first shingle on the fifth course, and 30" off the first shingle of the sixth course. Apply each with its left edge in line with the previous course (*Figure 12-8*).
3. Install full shingles flush against the six applied courses (Figure 12-10 – see **A**).

SUCCEEDING COURSES: As you go up the rake, repeat the same pattern used to start the first six courses (*Figure 12-10 – see B*).

Finish the courses with full shingles, working from the eaves up the roof.

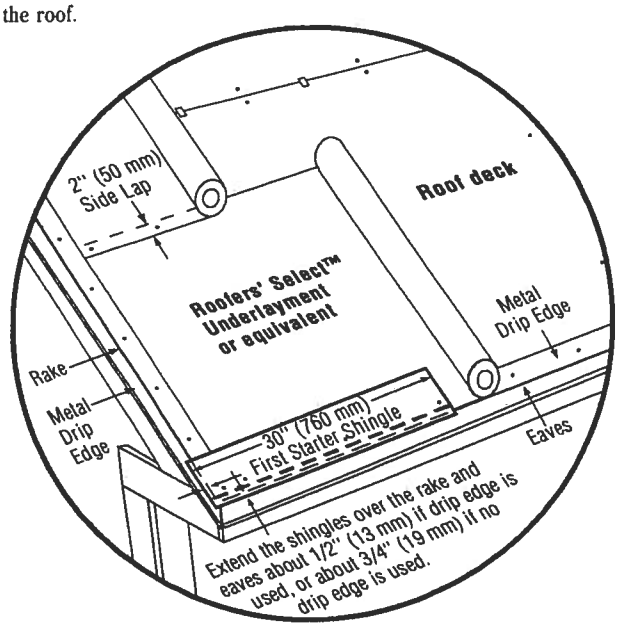


Figure 12-7: Standard slope underlayment and starter drip edge details.

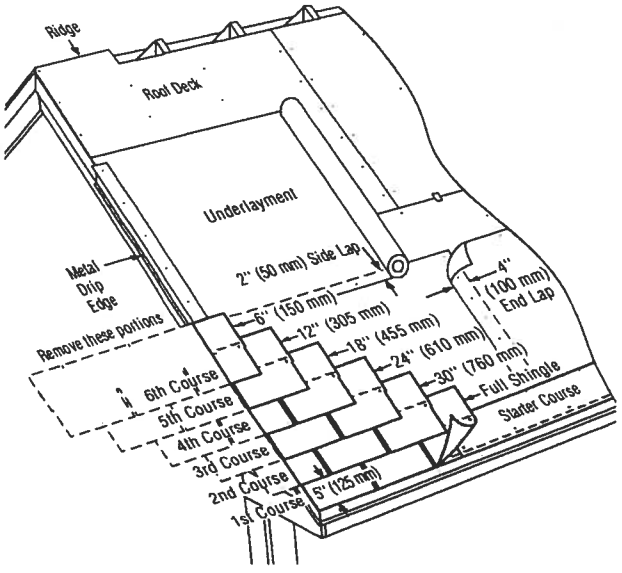


Figure 12-8: Applying the first 6 courses on a standard slope.

(2) FIVE-INCH, STEPPED-OFF DIAGONAL METHOD ("TWELVE UP, FIVE OFF")

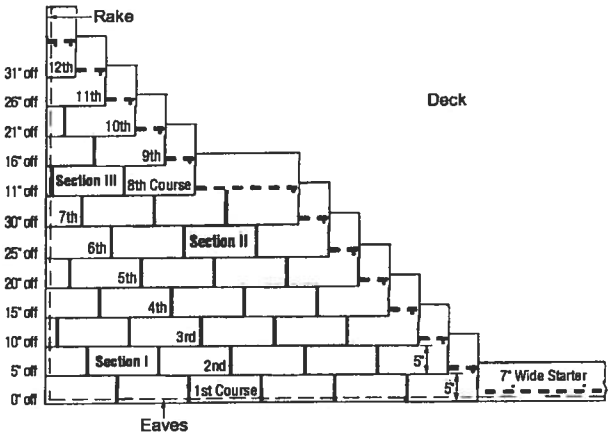


Figure 12-9: Five-Inch, Stepped-Off Diagonal Method.

STARTER COURSE:

1. Use CertainTeed Starter™ (10" x 36") or a starter course consisting of the shingles from which the lower 5" tabs have been removed (*Figure 12-6*). Remember, the sealant on starter courses should lay as close as possible to the eaves edge of the roof.
2. Cut 5" off the length of the first starter strip and apply the resulting 31" piece at the lower left corner of the roof. This starter strip should overhang the rakes and eaves ½" when drip edge is used, or ¾" when no drip edge is used (*Figure 12-7*).
3. Continue with full-length starter-course shingles along the eaves.

1ST COURSE: Begin "Section I" by applying a full shingle at the lower left corner of the roof, tabs flush with the starter course.

2ND TO 7TH COURSE:

1. Begin the second course by cutting 5" off the left end of a shingle and applying the 31" piece over the first-course shingle, flush with the left edge of the first-course shingle, and exposing the first course 5" (*Figure 12-9*).
2. Each succeeding course, up to and including the seventh course, should start with a shingle 5" shorter (off the left end) than the previous course. Expose each course 5". This completes "Section I" and establishes the first seven courses of the 12-course repeating cycle.
3. Install "Section II" as shown in *Figure 12-9* using full shingles against the seven courses in "Section I." This must be done before continuing with courses eight through 12 ("Section III"). These "Section II" shingles are to be butted-up against the "Section I" shingles that started courses one through seven. Fasten all shingles in the normal fashion.

User: Public User - Not Associated with Organization -

Need Help ?

Application #:	FL183-R1
Date Submitted:	07/15/2005
Code Version:	2004
Product Manufacturer:	GAF Materials Corporation
Address/Phone/email:	1361 Alps Road Wayne, NJ 07470 (973) 628-4119
Technical Representative:	Michael Rew
Technical Representative Address/Phone/email:	1361 Alps Road Wayne, NJ 07470 (973) 628-4119 mrew@gaf.com
Category:	Roofing
Subcategory:	Asphalt Shingles
Evaluation Method:	Certification Mark or Listing

Referenced Standards from the Florida Building Code:

Section	Standard	Year
	TAS 110	2000
	TAS 100	1995
	TAS 107	1995
	ASTM D3462	2001

Certification Agency:	Miami-Dade BCCO - CER
Quality Assurance Entity:	
Validation Entity:	
Authorized Signature:	Roger Anderson randerson@gaf.com
Evaluation/Test Reports Uploaded:	
Installation Documents Uploaded:	PTID_183_R1_I_M-D NOA country mansion, estates.pdf PTID_183_R1_I_M-D NOA grand canyon shingle.pdf PTID_183_R1_I_M-D NOA grand sequoia shingle.pdf PTID_183_R1_I_M-D NOA grand slate shingle.pdf

PTID_183_R1_I_M-D NOA jumbo royal sovereign shingle.pdf
PTID_183_R1_I_M-D NOA marquis weathermax, shingle.pdf
PTID_183_R1_I_M-D NOA royal sovereign shingle.pdf
PTID_183_R1_I_M-D NOA slateline shingle.pdf
PTID_183_R1_I_M-D NOA timberline 30.pdf
PTID_183_R1_I_M-D NOA timberline select 40.pdf
PTID_183_R1_I_M-D NOA timberline ultra.pdf

Product Approval Method: Method 1 Option A

Application Status: Approved
Date Validated: 07/27/2005
Date Approved: 08/24/2005
Date Certified to the 2004 Code:

Page: Go

Page 1 / 1

App/Seq #	Product Model # or Name	Model Description	Limits of Use
183.1	Country Estates	Architectural Laminate	See Limitations in Miami-Dade NOA.
183.2	Country Mansion	Architectural Laminate	See Limitations in Miami-Dade NOA.
183.3	Grand Canyon	Architectural Laminate	See Limitations in Miami-Dade NOA.
183.4	Grand Sequoia	Achitectural Laminate	See Limitations in Miami-Dade NOA.
183.5	Grand Slate	Architectural Shingle	See Limitations in Miami-Dade NOA.
183.6	Jumbo Royal Sovereign	Large 3-tab shingle	See Limitations in Miami-Dade NOA.
183.7	Marquis WeatherMax	3-tab Shingle	See Limitations in Miami-Dade NOA.
183.8	Royal Sovereign	3-tab asphalt shingle	See Limitations in Miami-Dade NOA.
183.9	Slateline	Multi-tab Shngle	See Limitations in Miami-Dade NOA.
183.10	Timberline 30	Laminated shingle	See Limitations in Miami-Dade NOA.
183.11	Timberline Select 40	Laminated Shingle	See Limitations in Miami-Dade NOA.
183.12	Timberline Ultra	Premium Laminated Shingle	See Limitations in Miami-Dade NOA.

MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

GAF Materials Corporation
1361 Alps Road.
Wayne, NJ 07470

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: GAF Royal Sovereign Shingle

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA #03-0219.04 and consists of pages 1 through 4.
The submitted documentation was reviewed by Frank Zuloaga, RRC

ROOFING ASSEMBLY APPROVAL

Category:	Roofing
Sub-Category:	07310 Asphalt Shingles
Materials	3-Tab
Deck Type:	Wood

1. SCOPE

This renews GAF Royal Sovereign Shingle as manufactured by GAF Materials Corp described in Section 2 of this Notice of Acceptance.

2. PRODUCT DESCRIPTION

Product	Dimensions	Test Specifications	Product Description
GAF Royal Sovereign	12" x 36"	PA 110	Fiberglas reinforced heavy weight asphalt roof shingle, with a 3-Tab profile

3. EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Test Name/Report	Date
Center for Applied Engineering	PA 100		02/23/94
Underwriters Laboratories, Inc.	PA 107	Modifed ASTM D 3161	04/13/94
Underwriters Laboratories, Inc.	ASTM 3462	ASTM D3462	03/26/94
Center for Applied Engineering	257966	ASTM D3462	03/21/97

4. LIMITATIONS

4.1 Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.

4.2 Shall not be installed on roof mean heights in excess of 33 ft.

5. INSTALLATION

5.1 Shingles shall be installed in compliance with Roofing Application Standard RAS 115.

5.2 Flashing shall be in accordance with Roofing Application Standard RAS 115

5.3 The manufacturer shall provide clearly written application instructions.

5.4 Exposure and course layout shall be in compliance with Detail 'A', attached.

5.5 Nailing shall be in compliance with Detail 'B', attached.

6. LABELING

6.1 Shingles shall be labeled with the Miami-Dade Logo or the wording "Miami-Dade County Product Control Approved".

7. BUILDING PERMIT REQUIREMENTS

7.1 Application for building permit shall be accompanied by copies of the following:

7.1.1 This Notice of Acceptance.

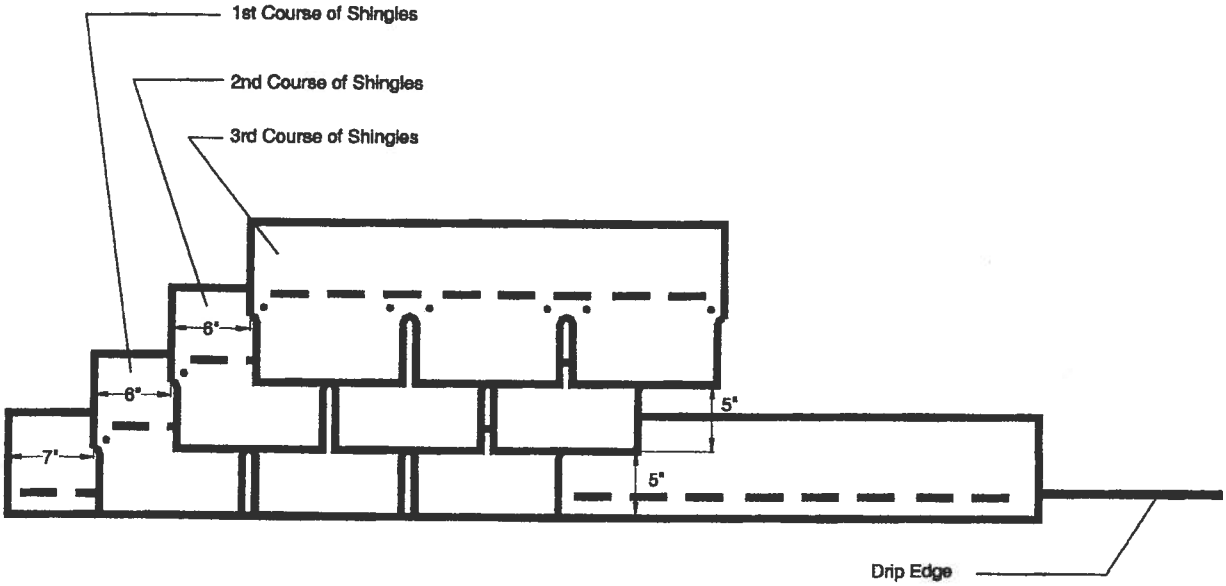
7.1.2 Any other documents required by the Building Official or the applicable code in order to properly evaluate the installation of this system.

8. MANUFACTURING PLANTS

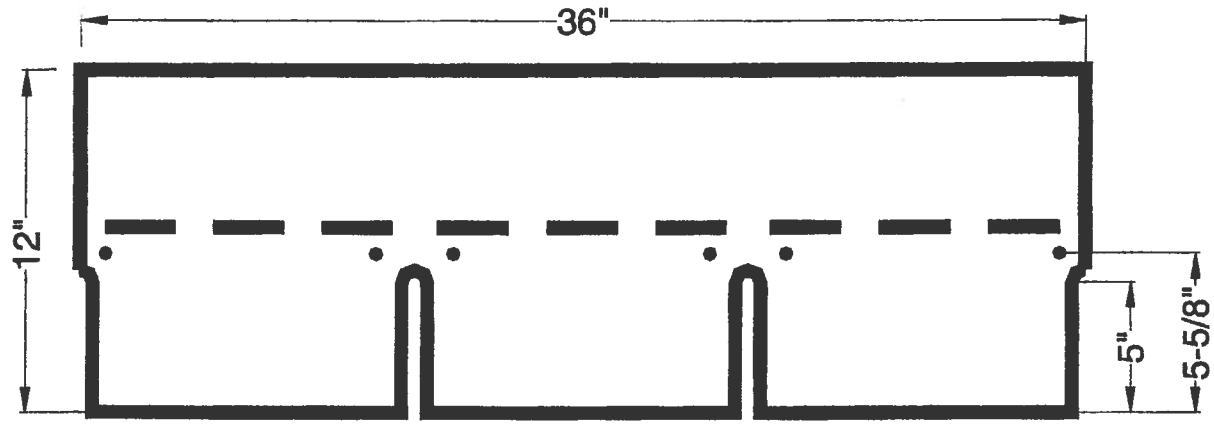
8.1 Tampa, FL
GAFMC
5138 Madison Avenue,
Tampa, FL 33619
Ph: (813) 248-6202

8.2 Savannah, GA
GAFMC
1 Brampton Road
P.O. Box 7329
Savannah, GA 31418
Ph: (912) 966-8800

DETAIL A



DETAIL B



END OF THIS ACCEPTANCE

From: The Columbia County Building & Zoning Department
Plan Review
135 NE Hernando Av.
P.O. Box 1529
Lake City Florida 32056-1529

Reference to a building permit application Number: 0605-23

Contractor Thirlun Jackson Owner William & Carmen Scott lot 40 Bock A Country Lane Estates

On the date of May 9, 2006 application 0605-23 and plans for construction of a single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0605-23 when making reference to this application.

Received 5-22-06

1. Please provide an approved driveway permit from the Florida Department of Transportation to gain access to your property from US Highway 41 North.
2. Please verify compliance with the FRC-2004 section R308.4 Hazardous locations which will apply to the windows in the master bathroom area. Glazing in doors and enclosures for hot tubs, whirlpools, saunas, steam rooms, bathtubs and showers. Glazing in any part of a building wall

enclosing these compartments where the bottom exposed edge of the glazing is less than 60 inches (1524 mm) measured vertically above any standing or walking surface. Each pane of glazing installed in hazardous locations as defined in Section R308.4 shall be provided with a manufacturer's or installer's label, designating the type and thickness of glass and the safety glazing standard with which it complies, which is visible in the final installation. The label shall be acid etched, sandblasted, ceramic-fired, embossed mark, or shall be of a type which once applied cannot be removed without being destroyed.

3. Please provide for compliance with the FRC-2004 section R322.1.1
   All new single-family houses, duplexes, triplexes, condominiums and townhouses shall provide at least one bathroom, located with maximum possible privacy, where bathrooms are provided on habitable grade levels, with a door that has a 29-inch (737 mm) clear opening. However, if only a toilet room is provided at grade level, such toilet rooms shall have a clear opening of not less than 29 inches (737 mm).
4. In the garage area show compliance with the FRC-2004 sections R309
   R309.1 Opening protection: Openings from a private garage directly into a room used for sleeping purposes shall not be permitted. Other openings between the garage and residence shall be equipped with solid wood doors not less than 13/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 13/8 inches (35 mm) thick, or 20-minute fire-rated doors.R309.1.1 Duct penetration: Ducts in the garage and ducts

penetrating the walls or ceilings separating the dwelling from the garage shall be constructed of a minimum No. 26 gage (0.48 mm) sheet steel or other approved material and shall have no openings into the garage. R309.2 Separation required: The garage shall be separated from the residence and its attic area by not less than ½-inch (12.7 mm) gypsum board applied to the garage side. Garages beneath habitable rooms shall be separated from all habitable rooms above by not less than 5/8-inch (15.9 mm) Type X gypsum board or equivalent. Where the separation is a floor-ceiling assembly, the structure supporting the separation shall also be protected by not less than ½-inch (12.7 mm) gypsum board or equivalent.

5. For the garage area show the method of protecting the appliances as required by the Florida Mechanical Code, Sections: 303.4 Protection from damage: Appliances shall not be installed in a location where subject to mechanical damage unless protected by approved barriers.
6. Please show compliance the FRC -2004 sections R313.1 Smoke alarms. Smoke alarms shall be installed in the following locations: In each sleeping room. Outside each separate sleeping area in the immediate vicinity of the bedrooms. On each additional story of the dwelling, including basements but not including crawl spaces and uninhabitable attics. In dwellings or dwelling units with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the

lower level is less than one full story below the upper level. When more than one smoke alarm is required to be installed within an individual dwelling unit the alarm devices shall be interconnected in such a manner that the actuation of one alarm will activate all of the alarms in the individual unit. The alarm shall be clearly audible in all bedrooms over background noise levels with all intervening doors closed. All smoke alarms shall be listed and installed in accordance with the provisions of this code and the household fire warning equipment provisions of NFPA72.

7. The electrical plan shows the location of the electrical service, Please indicate on the electrical plan that an overcurrent protection device will be installed on the exterior of structures to serve as a disconnecting means. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground.

Thank you,

Joe Haltiwanger
Plan Examiner
Columbia County Building Department

Proposal

UNIVERSITY AREA BUILDING CONTRACTORS INC.
10934 N. LANTANTA AVE
TAMPA, FL 33612
License # CBC1253175
(813) 416-1744

PROPOSAL SUBMITTED TO: Columbia County Building & Zoning	PHONE:	DATE: 5/22/2006
STREET: 135 NE Hernando AVE. P.OBox 1529	JOB NAME: William&Carmen Scott Lot 40blo	
CITY, STATE and ZIP CODE: Lake City Florida 32056-1529	JOB LOCATION: Lot 40 block A County Lane Estates	
ARCHITECT:	DATE OF PLANS:	JOB PHONE:

We hereby submit specifications and estimates for: Reference Building Permit Application # 0605-23

This Proposal is to let the Columbia County Building & zoning Dep Know , That the builder will comply with all request made by the Plans review done by Mr. Joe Haltiwanger .

A total of six items were discussed per phone call.

permit # 0605-23

5/22/2006

Thirlun Etimothy Jackson sr (president)

University Area Building ContraCTORS Inc.

Megan M. Marable

MEGAN M MARABLE
MY COMMISSION # DD412865
EXPIRES: Mar. 30, 2009
(407) 398-0153 Florida Notary Service.com

We Propose hereby to furnish material and labor — complete in accordance with above specifications, for the sum of:

_____ dollars ($ _____).

Payment to be made as follows:

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workman's Compensation Insurance.

Authorized Signature _____

Note: This proposal may be withdrawn by us if not accepted within _____ days.

Acceptance of Proposal — The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Signature _____

Date of Acceptance: _____

Signature _____

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

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

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

[signature] | Thralun E. Jackson | 5/6/0

Contractor or Contractor's Authorized Agent Signature | Print Name | Date

Location | Permit # **(FOR STAFF USE ONLY)**

PRODUCT APPROVAL SPECIFICATION SHEET

.on:_____ **Project Name:**_____

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

Category/Subcategory	Manufacturer	Product Description	Approval Number
A. EXTERIOR DOORS			
1. Swinging			
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung			
2. Horizontal Slider			
3. Casement			
4. Double Hung			
5. Fixed			
6. Awning			
7. Pass -through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11 Dual Action			
12. Other			
C. PANEL WALL			
1. Siding			
2. Soffits	Alside	Vented Soffit Vinyl	FL 6005
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other		Stucco	
D. ROOFING PRODUCTS			
1. Asphalt Shingles	TamKo	30 Year Architectural	FL 1956.3
2. Underlayments	TamKo	Felt Paper	FL 1744-R1
3. Roofing Fasteners			
4. Non-structural Metal Rf			
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			

PRODUCT APPROVAL

Product Type Detail

User: Public User - Not Associated with Organization -

Need Help ?

Application #:	FL675
Date Submitted:	10/21/2003
Code Version:	2001
Product Manufacturer:	Capitol
Address/Phone/email:	650 W Market St Gratz, PA 17030 (717) 365-3300
Category:	Windows
Subcategory:	Single Hung
Evaluation Method:	Certification Mark or Listing

Referenced Standards from the Florida Building Code:

Section	Standard	Year
	AAMA/NWWDA 101/IS2	1997

Certification Agency:	American Architectural Manufacturers Association
Quality Assurance Entity:	
Validation Entity:	
Authorized Signature:	Andrew Brill abrill@mihp.com
Evaluation/Test Reports Uploaded:	
Installation Documents Uploaded:	
Product Approval Method:	Method 1 Option A
Application Status:	Approved
Date Validated:	

Date Approved: 11/19/2003

Date Certified to the 2004 Code:

Page: Go

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App/Seq #	Product Model # or Name	Model Description	Limits of Use
675.1	165	Fin Frame 52x72 R-35 DP+35.3/-43.1	Per manufacturer"s installation instructions. More information available at: www.mihp.com
675.2	165	Flange Frame 53x73 R-35 DP+35/-47.2	Per manufacturer"s installation instructions. More information available at: www.mihp.com
675.3	165	Fin Frame Oriel 47x89 R-30 DP+33.4/-42.7	Per manufacturer"s installation instructions. More information available at: www.mihp.com
675.4	165	Fin Frame Oriel 40x90 R-35 DP+35.3/-47.2	Per manufacturer"s installation instructions. More information available at: www.mihp.com
675.5	165	Flange Frame Oriel 47x89 R-25 DP+25.9/-34.7	Per manufacturer"s installation instructions. More information available at: www.mihp.com
675.6	165	Flange Frame Oriel 36x88 R-35 DP+35.3/-47.2	Per manufacturer"s installation instructions. More information available at: www.mihp.com
675.7	165	Flange Frame in Beveled Buck 53x72 R-35 DP+35.3/-47.2	Per manufacturer"s installation instructions. More information available at: www.mihp.com
675.8	165	Triple with Continuous Head and Sill 106x72 R-20 DP+24.2/-31.4	Per manufacturer"s installation instructions. More information available at: www.mihp.com
675.9	3540	Fin Frame 36x73 R-47 DP+47/-47	Per manufacturer"s installation instructions. More information available at: www.mihp.com
675.10	3540	Fin Frame 44x72 R-40 DP+45/-47.2	Per manufacturer"s installation instructions. More information available at: www.mihp.com
675.11	3540	Fin Frame 43x73 R-43 DP+43/-43	Per manufacturer"s installation instructions. More information available at: www.mihp.com
675.12	455	Fin Frame 54x90 C-35 DP+35.3/-50	Per manufacturer"s installation instructions. More information available at: www.mihp.com
		Fin Frame	Per manufacturer"s

675.13	455	48x84 C-50 DP+50/-50	installation instructions. More information available at: www.mihp.com
675.14	650	Flange Frame 52x72 R-40 DP+45/-47.2	Per manufacturer"s installation instructions. More information available at: www.mihp.com
675.15	650	Triple with Continuous Head and Sill 112x72 R-35 DP+35.3/-35	Per manufacturer"s installation instructions. More information available at: www.mihp.com
675.16	650	Fin Frame 53x90 LC-30 DP+32.8/-47.2	Per manufacturer"s installation instructions. More information available at: www.mihp.com
675.17	650	Flange Frame 48x84 LC-35 DP+35.3/-47.2	Per manufacturer"s installation instructions. More information available at: www.mihp.com
675.18	650	Fin Frame Oriel 48x84 R-35 DP+35.3/-47.2	Per manufacturer"s installation instructions. More information available at: www.mihp.com
675.19	650	Flange Frame Oriel 48x84 R-35 DP+35.3/-47.2	Per manufacturer"s installation instructions. More information available at: www.mihp.com
675.20	650	Fin Frame 52x72 R-40 DP+45/-47.2	Per manufacturer"s installation instructions. More information available at: www.mihp.com

Next

VeriSign Secured VERIFY

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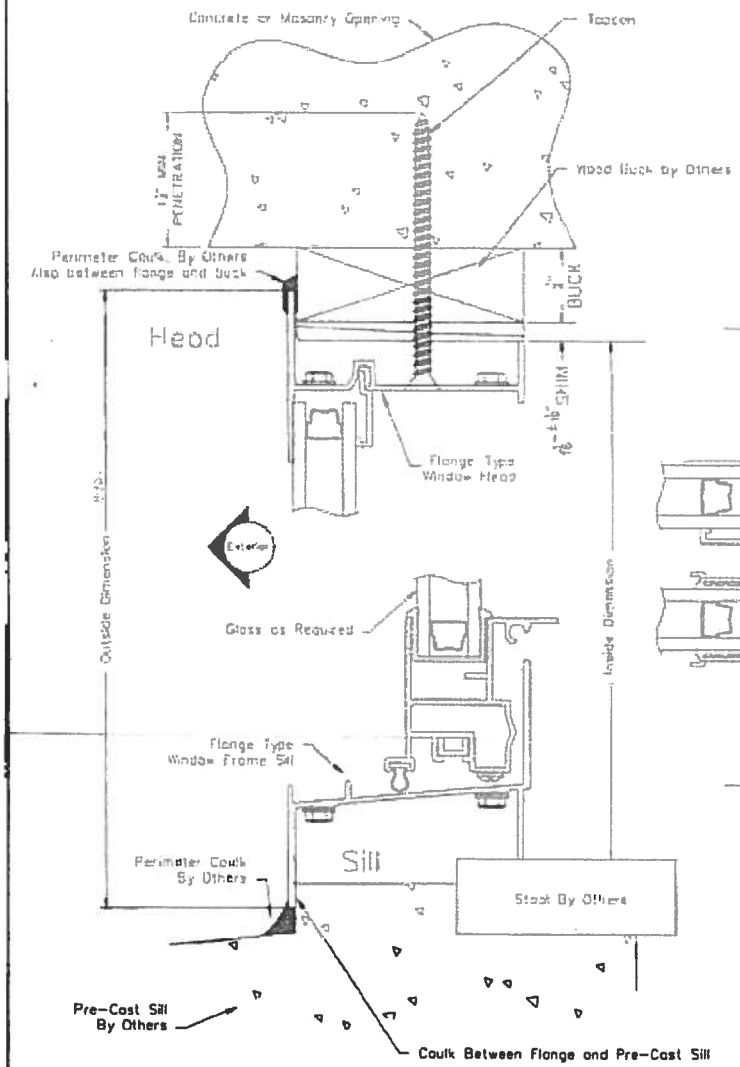
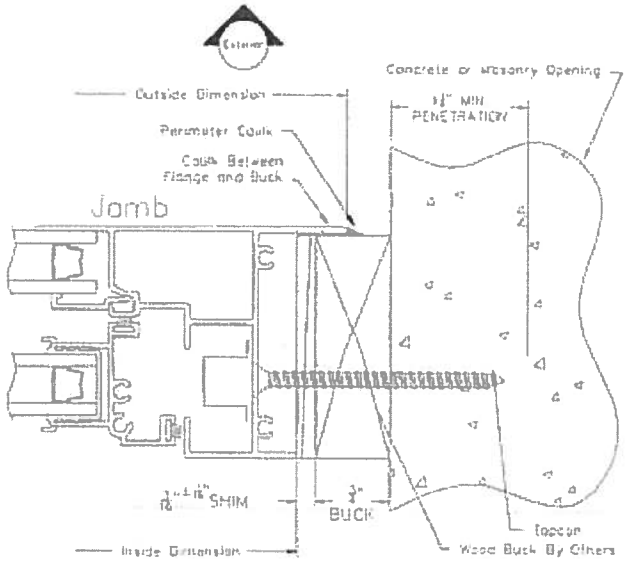
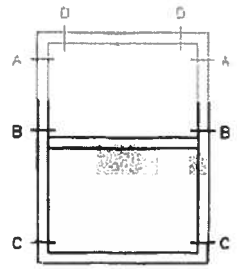


1. Shim as required at each installation anchor as shown.
2. Anchor must be of a length to have 1 1/4" penetration into masonry or concrete.
3. Caulk between window flange and buck.
4. Caulk full perimeter of window.
5. If exact window size is not given, use anchor quantity for next larger window in chart.
6. Glass thickness will vary with window size and design load.
7. Letter designations on the tapcon location chart indicate where anchors are to be installed using the elevation as a key.
8. All factory applied holes not designated for tapcon anchor should be filled with #8 screws of sufficient length to provide min. 5/8" embedment into wood buck.





TAPCON* LOCATION CHART

CODE SIZE	WINDOW ID SIZE	FASTENER LOCATIONS UP TO DP35	FASTENER LOCATIONS DP35.1 TO DP50
12	18 1/8 x 25	C, D	C, D
13	18 1/8 x 37 3/8	C, D	C, D
14	18 1/8 x 49 5/8	C, D	C, D
15	18 1/8 x 62	C, D	C, D
16	18 1/8 x 71 1/4	C, D	C, D
1/2 32	25 1/2 x 25	C, D	C, D
1/2 33	25 1/2 x 37 3/8	C, D	C, D
1/2 34	25 1/2 x 49 5/8	C, D	C, D
1/2 35	25 1/2 x 62	C, D	C, D
1/2 36	25 1/2 x 71 1/4	C, D	B, C, D
22	36 x 25	C, D	C, D
23	36 x 37 3/8	C, D	C, D
24	36 x 49 5/8	C, D	C, D
245	36 x 55 1/4	C, D	B, C, D
25	36 x 62	C, D	B, C, D
26	36 x 71 1/4	B, C, D	B, C, D
32	52 1/8 x 25	B, C, D	B, C, D
33	52 1/8 x 37 3/8	B, C, D	B, C, D
34	52 1/8 x 49 5/8	B, C, D	B, C, D
345	52 1/8 x 55 1/4	B, C, D	B, C, D
35	52 1/8 x 62	B, C, D	B, C, D
36	52 1/8 x 71 1/4	B, C, D	A, B, C, D

TAPCON* LOCATION CHART

CODE SIZE	WINDOW ID SIZE	FASTENER LOCATIONS UP TO DP35	FASTENER LOCATIONS DP35.1 TO DP50
2'-0" x 3'-0"	23 1/8 x 35 5/8	C, D	C, D
2'-0" x 4'-0"	23 1/8 x 47 5/8	C, D	C, D
3'-0" x 3'-0"	35 1/8 x 35 5/8	C, D	C, D
3'-0" x 4'-0"	35 1/8 x 47 5/8	C, D	C, D
3'-0" x 4'-4"	35 1/8 x 51 5/8	C, D	B, C, D
3'-0" x 5'-0"	35 1/8 x 59 5/8	C, D	B, C, D
3'-0" x 6'-0"	35 1/8 x 71 5/8	B, C, D	B, C, D
3'-4" x 3'-0"	39 1/8 x 35 5/8	C, D	C, D
3'-4" x 4'-0"	39 1/8 x 47 5/8	C, D	B, C, D
3'-4" x 4'-4"	39 1/8 x 51 5/8	C, D	B, C, D
3'-4" x 5'-0"	39 1/8 x 59 5/8	C, D	B, C, D
3'-4" x 6'-0"	39 1/8 x 71 5/8	B, C, D	B, C, D
3'-8" x 4'-0"	43 1/8 x 47 5/8	C, D	B, C, D
3'-8" x 4'-4"	43 1/8 x 51 5/8	C, D	B, C, D
3'-8" x 5'-0"	43 1/8 x 59 5/8	C, D	B, C, D
3'-8" x 6'-0"	43 1/8 x 71 5/8	B, C, D	B, C, D
4'-0" x 4'-0"	47 1/8 x 47 5/8	C, D	B, C, D
4'-8" x 4'-4"	47 1/8 x 51 5/8	C, D	B, C, D
4'-0" x 5'-0"	47 1/8 x 59 5/8	B, C, D	B, C, D
4'-0" x 6'-0"	47 1/8 x 71 5/8	B, C, D	B, C, D

*"TAPCON" TYPE HARDENED MASONRY SCREWS INCLUDE TAPCON, RAWL, & SIMPSON

02-02-02

TITLE: INSTALLATION INSTRUCTIONS & FASTENER SCHEDULE

PRODUCT: 650 FLANGE SINGLE HUNG

DRAWN BY:	DATE:
Tony C	02/26/02
CHECKED:	DATE:
SCALE: NONE	SHEET: 1 OF 1
DWG NO: 650 FLANGE INSTALLATION INSTRUCTIONS	REV: —

AAMA/NWWDA 101/I.S.2-97
TEST REPORT

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 450/650/850
Oriel with Drop-in Glazing
TYPE: Aluminum Single Hung Window with Flange

Title	Summary of Results
AAMA Rating	H-R35 48 x 84
Operating Force	19 lb max.
Air Infiltration	0.18 cfm/ft^2
Water Resistance Test Pressure	6.00 psf
Uniform Load Deflection Test Pressure	+35.3 psf -47.2 psf
Uniform Load Structural Test Pressure	+53.0 psf -70.8 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

Reference should be made to ATI Report No. 01-42963.02 for complete test specimen description and data.

Architectural Testing

AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to:

MI HOME PRODUCTS, INC.
P.O. Box 370
650 West Market Street
Gratz, Pennsylvania 17030-0370

Report No: 01-42963.02
Test Dates: 10/18/02
And: 10/21/02
Report Date: 11/07/02
Expiration Date: 10/18/06

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to witness performance testing on a Series/Model 450/650/850 Oriel with Drop-in Glazing, aluminum single hung window at MI Home Products, Inc.'s test facility in Elizabethville, Pennsylvania. The sample tested successfully met the performance requirements for an H-R35 48 x 84 rating.

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

Test Specimen Description:

Series/Model: 450/650/850 Oriel with Drop-in Glazing

Type: Aluminum Single Hung Window with Flange

Overall Size: 3' 11-3/4" wide by 6' 11-5/8" high

Interior Sash Size: 3' 9-3/8" wide by 2' 5-3/4" high

Fixed Daylight Opening Size: 3' 6-3/8" wide by 4' 2-1/2" high

Screen Size: 3' 7-5/8" wide by 2' 5" high

Finish: All aluminum was white.

130 Derry Court
York, PA 17402-9405
phone: 717.764.7700
fax: 717.764.4129
www.archtest.com

Test Specimen Description: (Continued)

Glazing Details: The active and fixed lite utilized 5/8" thick sealed insulating glass constructed from two sheets of 3/16" thick clear annealed glass and a metal reinforced butyl spacer system. The lites were interior glazed onto double-sided adhesive foam tape and secured with a flexible vinyl snap-in glazing beads.

Weatherstripping:

Description	Quantity	Location
0.230" high by 0.187" backed polypile with center fin	1 Row	Fixed meeting rail interlock
0.230" high by 0.187 backed polypile with center fin	2 Rows	Active sash stiles
3/4" wide by 5/8" long polypile pad	4 Pieces	Active sash all corners
1/4" foam filled vinyl bulb seal	1 Row	Bottom rail

Frame Construction: The frame was constructed of thermally broken extruded aluminum with coped, butted, sealed and fastened with two #8 x 1" screws through head and sill into jamb screw boss. End caps were utilized on the ends of the fixed meeting rail and secured with two #6 x 1" screws per cap. Meeting rail was then secured to the frame utilizing two #6 x 1" screws.

Sash Construction: The sash was constructed of thermally broken extruded aluminum with coped, butted and fastened with one #8 x 3/4" screws per corner through the rails into the stile screw boss.

Screen Construction: The screen was constructed of roll-formed aluminum with keyed corners. The fiberglass mesh was secured with a flexible spline.

Hardware:

Description	Quantity	Location
Metal cam lock	1	Interior meeting rail midspan
Plastic tile latch	2	Interior meeting rail ends
Metal tilt pins	2	Bottom rail ends
Balance assembly	2	One per jamb
Screen spring loaded retainer pin	2	4" from jambs on bottom screen rail

Test Specimen Description: (Continued)

Drainage: Sloped sill.

Installation: The unit was installed into a 2 x 8 #2 Spruce-Pine-Fir wood buck. The unit was secured utilizing #6 x 1-1/4" screws, 2 per jamb, one 4" from sill and one at meeting rail. Polyurethane was used as a sealant around the exterior perimeter.

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.1	Operating Force	19 lbs	30 lbs max.
2.1.2	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.18 cfm/ft^2	0.3 cfm/ft^2 max.

Note #1: *The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for air infiltration.*

2.1.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 52 seconds)		
	@ 15.0 psf (positive)	0.14"	0.24" max.
	@ 15.0 psf (negative)	0.14"	0.24" max.
2.1.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds)		
	@ 22.5 psf (positive)	<0.01"	0.17" max.
	@ 22.5 psf (negative)	0.01"	0.17" max.
2.2.1.6.2	Deglazing Test (ASTM E 987-88) In operating direction at 70 lbs		
	Meeting rail	0.12"/25%	0.50"/100%
	Bottom rail	0.12"/25%	0.50"/100%
	In remaining direction at 50 lbs		
	Right stile	0.06"/12%	0.50"/100%
	Left stile	0.06"/12%	0.50"/100%

The Florida Department of Community Affairs
Building Code Information System

SITE NAVIGATION

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Testing

Product Approval

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Mailing List

Florida Building Commission

PRODUCT APPROVAL

Product Type Detail

Overview | Product Search | Organization Search | Product Application

User: Public User - Not Associated with Organization -

Need Help ?

Application #:	FL18
Date Submitted:	08/04/2003
Code Version:	2001
Product Manufacturer:	Masonite International
Address/Phone/email:	One North Dale Mabry Suite 950 Tampa, FL 33609 (615) 441-4258
Technical Representative:	Steve Schreiber
Technical Representative Address/Phone/email:	1 Premdor Drive Dickson, TN 37055 (615) 441-4258 sschreiber@masonite.com
Category:	Exterior Doors
Subcategory:	Swinging Exterior Door Assemblies
Evaluation Method:	Certification Mark or Listing

Referenced Standards from the Florida Building Code:

Section	Standard	Year
	TAS201	1994
	TAS202	1994
	TAS203	1994

Certification Agency:	Intertek Testing Services - ETL/Warnock Hersey
Quality Assurance Entity:	
Validation Entity:	
Authorized Signature:	Steve Schreiber sschreiber@masonite.com

Evaluation/Test Reports Uploaded:
Installation Documents Uploaded:

Product Approval Method: Method 1 Option A

Application Status: Approved
Date Validated: 08/11/2003
Date Approved: 10/15/2003
Date Certified to the 2004 Code:

Page: Go Page 1 / 1

App/Seq #	Product Model # or Name	Model Description	Limits of Use
18.1	Wood-Edge Steel Door Units		None Known

Next

VeriSign Secured VERIFY

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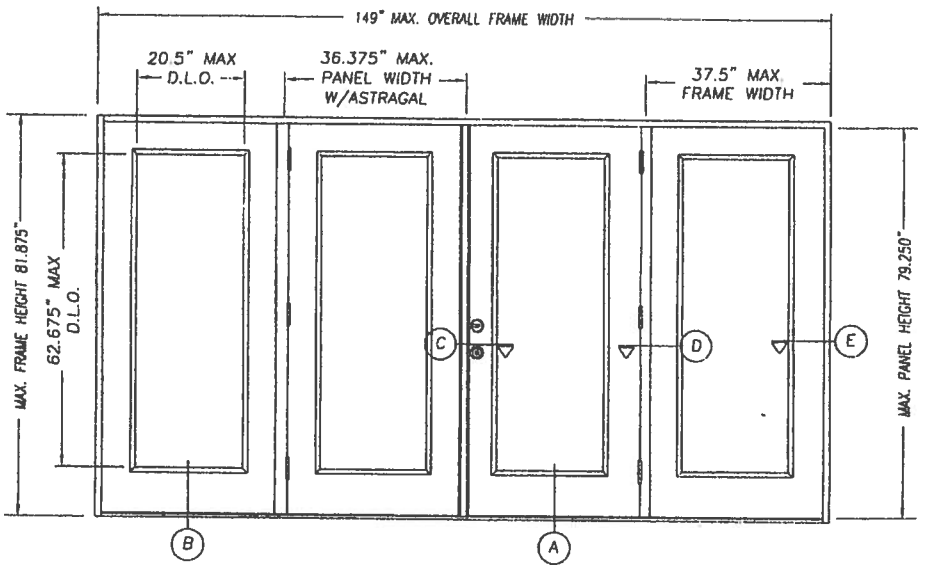
Masonite

SIDE-HINGED FIBERGLASS DOOR UNIT (excluding Barrington)
6'-8" GLAZED DOUBLE DOOR WITH / WITHOUT SIDELITES



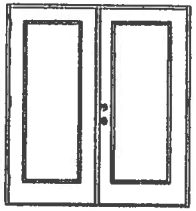
DOUBLE INSWING UNIT W/SIDELITES

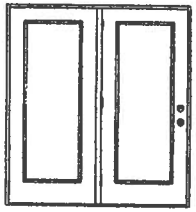
GENERAL NOTES

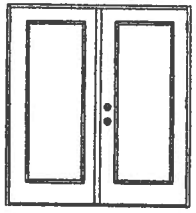
1. EVALUATED FOR USE IN LOCATIONS ADHERING TO THE FLORIDA BUILDING CODE AND WHERE PRESSURE REQUIREMENTS AS DETERMINED BY ASCE 7, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, DOES NOT EXCEED THE DESIGN PRESSURES LISTED.
2. THIS PRODUCT DOES NOT REQUIRE THE USE OF A HURRICANE PROTECTIVE DEVICE (SHUTTERS).
3. PLASTICS TESTING OF LAMINATE GLASS INTERLAYER CONFIRMED PER DADE NOA 03-0827.08

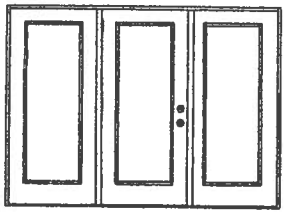
Addendum to HAMI
Certification No.: NI005930
Reviewed By:
Date Reviewed: 3/1/05

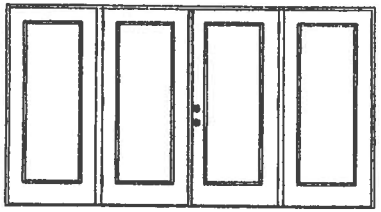

SINGLE DOOR UNIT


DOUBLE DOOR UNIT


SINGLE DOOR UNIT WITH SIDELITE


SINGLE DOOR UNIT WITH SIDELITE


SINGLE DOOR UNIT W/SIDELITES


DOUBLE DOOR UNIT W/SIDELITES

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SHEET #	DESCRIPTION
1	TYPICAL ELEVATIONS & GENERAL NOTES
2	CROSS SECTIONS
3	ANCHORING LOCATIONS & DETAILS
4	ANCHORING LOCATIONS & DETAILS
5	UNIT COMPONENTS

CONFIG	MAX WIDTH	DESIGN PRESSURE RATING		WHERE WATER INFILTRATION PERFORMANCE IS REQUIRED TO BE 15% OF DESIGN PRESSURE		
		INSWING	OUTSWING	INSWING	OUTSWING	OUTSWING*
X	37.5"	+60.0 / -60.0	+60.0 / -60.0	+19.0 / -19.0	+40.0 / -40.0	+60.0 / -60.0
XX	74"	+60.0 / -60.0	+60.0 / -60.0	+19.0 / -19.0	+40.0 / -40.0	+60.0 / -60.0
OX or XO	75"	+60.0 / -60.0	+60.0 / -60.0	+19.0 / -19.0	+40.0 / -40.0	+60.0 / -60.0
OXO	112.5"	+60.0 / -60.0	+60.0 / -60.0	+19.0 / -19.0	+40.0 / -40.0	+60.0 / -60.0
OXXO	149"	+60.0 / -60.0	+60.0 / -60.0	+19.0 / -19.0	+40.0 / -40.0	+60.0 / -60.0

* High Dam Threshold Design

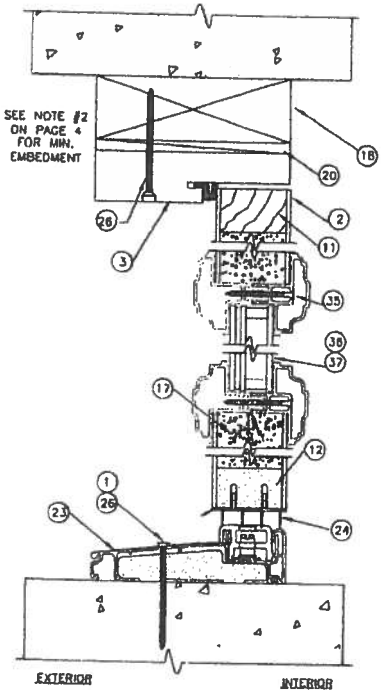
MASONITE INTERNATIONAL CORP.
7300 REAMES RD.
CHARLOTTE, NC 28216

PRODUCT: "EXTERIOR DOOR PRODUCT" DOUBLE 6'8" GLAZED FIBERGLASS DOOR

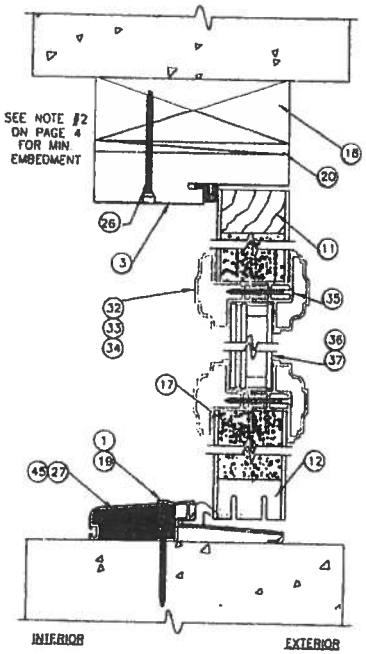
PART OR ASSEMBLY: TYPICAL ELEVATIONS & GENERAL NOTES

NO.	DATE	REVISIONS	BY
B	3/1/05	FLORIDA CHANGES	SWS
A	2/22/05	ADDED GLASS DETAIL	SWS

DATE: 2/11/05
SCALE: N.T.S.
DWG. BY: SWS
CHK. BY:
DRAWING NO: DWG-MA-FL0122-05
SHEET 1 OF 5



A VERTICAL CROSS SECTION INSWING DOOR UNIT



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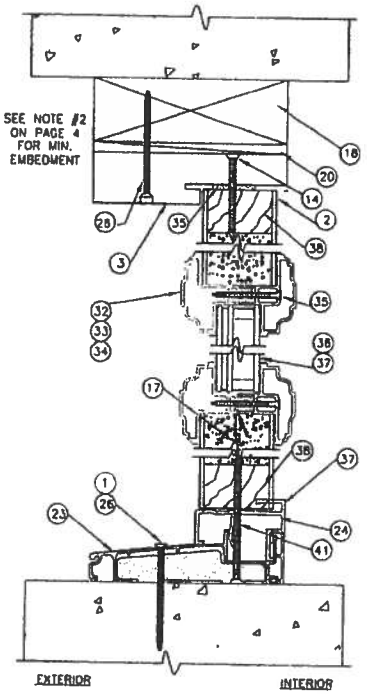

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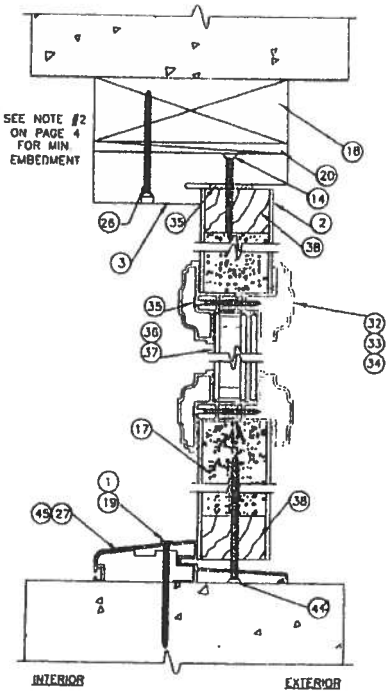

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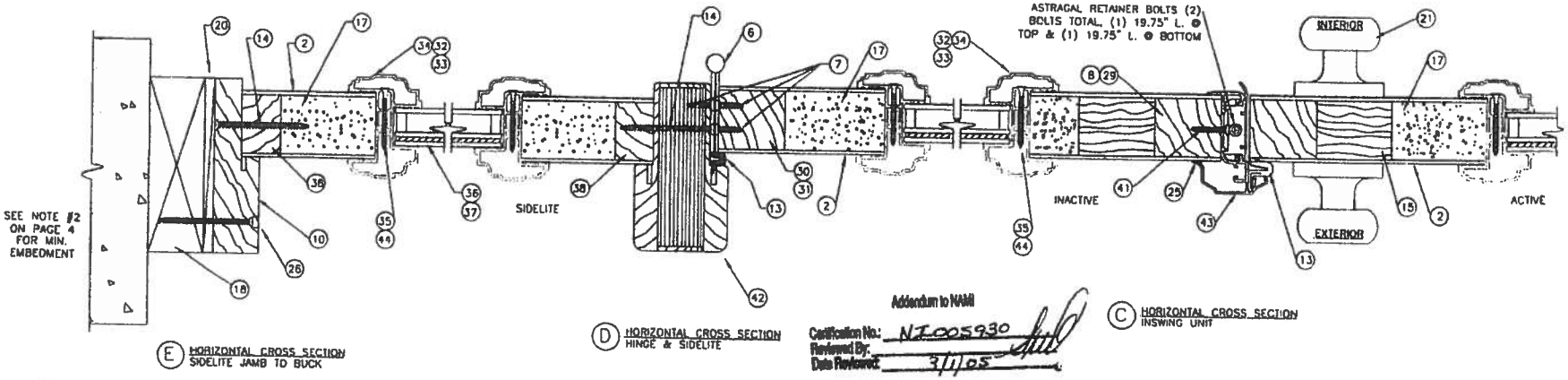


E HORIZONTAL CROSS SECTION SIDELITE JAMB TO BUCK

D HORIZONTAL CROSS SECTION HINGE & SIDELITE

C HORIZONTAL CROSS SECTION INSWING UNIT

Addendum to NAMI
Certification No.: NI005930
Reviewed By:
Date Reviewed: 3/1/05

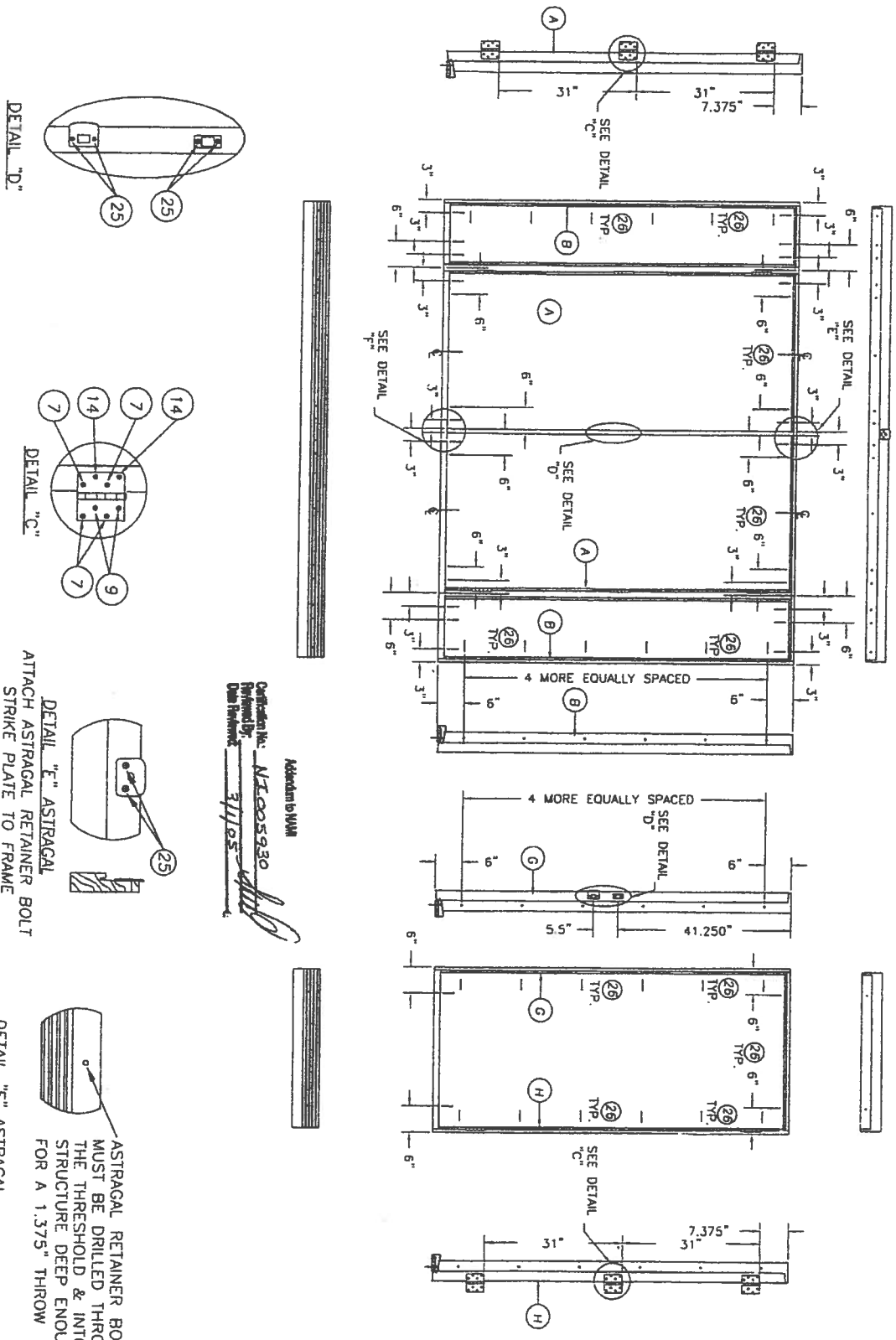
MASONITE INTERNATIONAL CORP.
7300 REAMES RD.
CHARLOTTE, NC 28216

PRODUCT: "EXTERIOR DOOR PRODUCT" 6'-0" FIBERGLASS GLAZED DOUBLE DOOR

PART OR ASSEMBLY: CROSS SECTIONS

NO.	DATE	REVISIONS	BY
B	3/1/05	FLORIDA CHANGES	SWS
A	2/22/05	ADDED GLASS DETAIL	SWS

DATE: 2/11/05
SCALE: N.T.S.
DWG. BY: SWS
CHK. BY:
DRAWING NO.: DWG--MA--FL0122-05
SHEET 2 OF 5



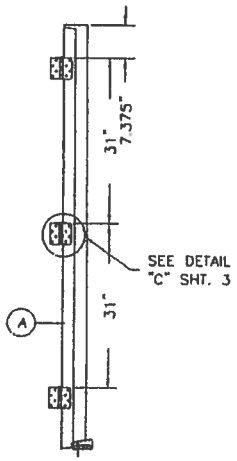
NO.	DATE	REVISIONS	BY
B	3/1/05	FLORIDA CHANGES	SWS
A	2/22/05	ADDED GLASS DETAIL	SWS

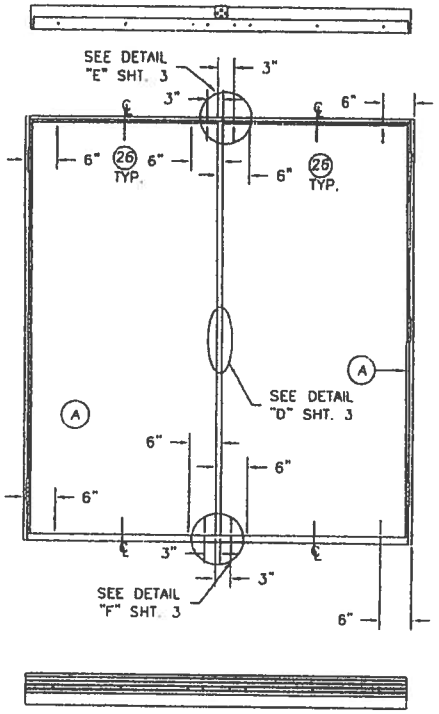
DATE: 2/11/05
SCALE: N.T.S.
DWG BY: SWS
CHK BY:
DRAWING NO.
DWG#-MA-FL0122-05
SHEET 3 OF 5

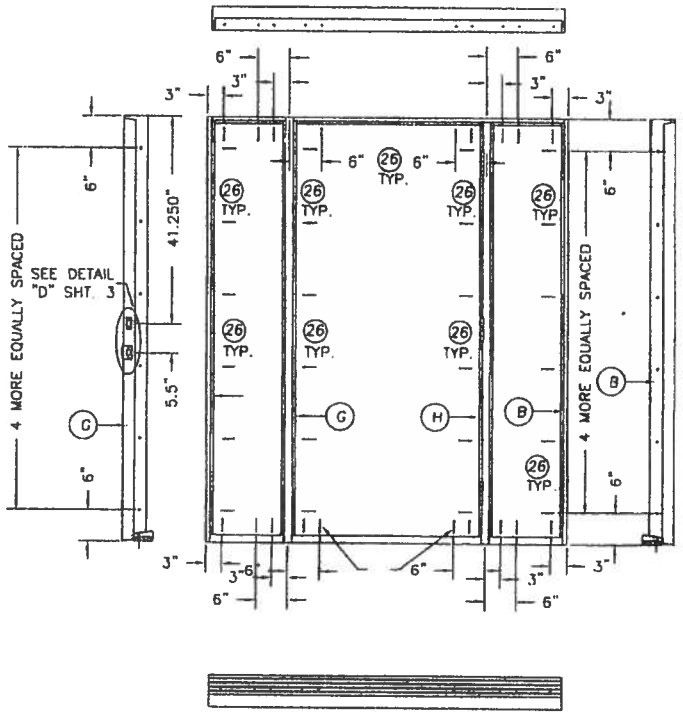
PRODUCT:
"EXTERIOR DOOR PRODUCT"
6'-8" FIBERGLASS GLAZED
DOUBLE DOOR UNIT

PART OR ASSEMBLY:
ANCHORING LOCATIONS
& DETAILS

MASONITE INTERNATIONAL CORP.
7300 REAMES RD.
CHARLOTTE, NC 28216







ATTACHMENT DETAIL

1. ANCHOR CALCULATIONS HAVE BEEN CARRIED OUT WITH THE LOWEST (LEAST) FASTENER RATING FROM THE DIFFERENT FASTENERS BEING CONSIDERED FOR USE. JAMB, HEAD, AND THRESHOLD FASTENERS ANALYZED FOR THIS UNIT INCLUDE #8 AND #10 WOOD SCREWS OR 3/16" TAPCONS. A PHYSICAL SHIM MUST BE PLACED IN SHIM SPACE AT EACH ANCHOR LOCATION.
2. THE WOOD SCREW SINGLE SHEAR DESIGN VALUES COME FROM ANSI/AF&PA NDA FOR SOUTHERN PINE LUMBER AND ACHEIVEMENT OF 1-1/4" MINIMUM EMBEDMENT.
3. WOOD BUCKS BY OTHERS MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO STRUCTURE.
4. MINIMUM DESIGN VALUE STRENGTH OF ANCHORS 148 LBS.

Addendum to NAMI
Certification No.: NI005930
Reviewed By:
Date Reviewed: 3/1/05

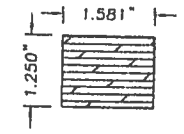
MASONITE INTERNATIONAL CORP.
7300 REAMES RD.
CHARLOTTE, NC 28216

PRODUCT: "EXTERIOR DOOR PRODUCT" 6'-8" FIBERGLASS GLAZED DOUBLE DOOR UNIT

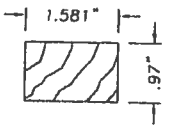
PART OR ASSEMBLY: ANCHORING LOCATIONS & DETAILS

NO.	DATE	REVISIONS	BY
A	2/22/05	ADDED GLASS DETAIL	SWS
B	3/1/05	FLORIDA CHANGES	SWS

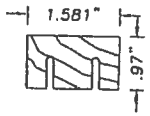
DATE: 2/11/05
SCALE: N.T.S.
DWG BY: SWS
CHK. BY:
DRAWING NO.: DWG-MA-FL0122-05
SHEET 4 OF 5



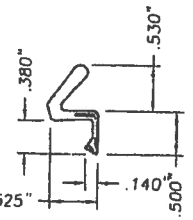
(8) LATCH STILE LAMINATED LUMBER



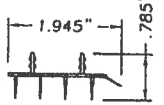
(11) WOOD DOOR TOP RAIL



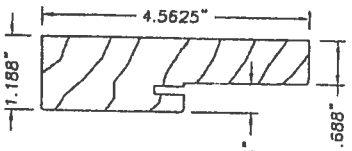
(12) DOOR BOTTOM RAIL WOOD COMPOSITE



(13) WEATHERSRTIP

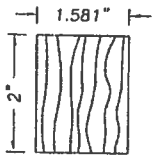


(24) DOOR SWEEP

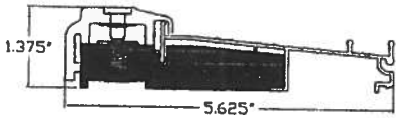


FINGER JOINTED PINE FRAME

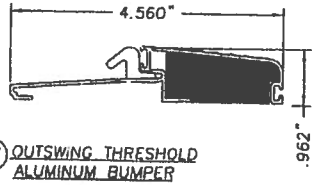
(3) (4) (5)



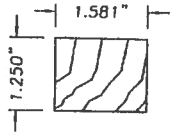
(15) LOCK BLOCK



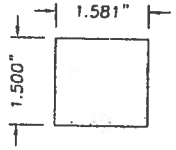
(23) INSWING ADJUSTABLE THRESHOLD ALUMINUM



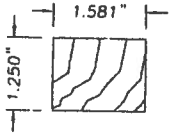
(27) OUTSWING THRESHOLD ALUMINUM BUMPER



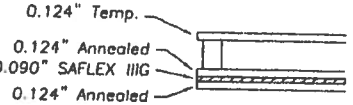
(29) LATCH STILE FINGERJOINTED PINE



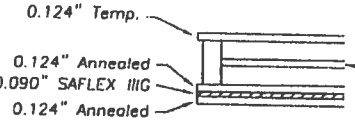
(30) HINGE STILE MDF



(31) HINGE STILE FINGERJOINTED PINE

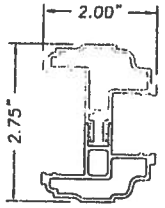


(36) 1" IMPACT GLASS

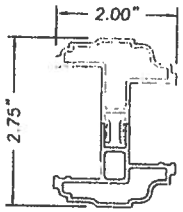


(37) 1-1/4" IMPACT GLASS

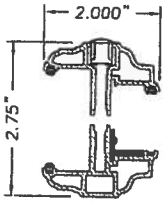
Addendum to NAMI
Certification No.: NI005930
Reviewed By:
Date Reviewed: 3/1/05



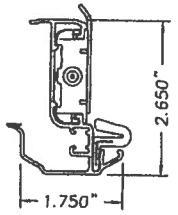
(32) 1" GLASS FRAME (SPECIALTY)



(32) 1-1/4" GLASS FRAME (SPECIALTY)

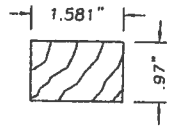


(34) 1" GLASS FRAME (ODL)

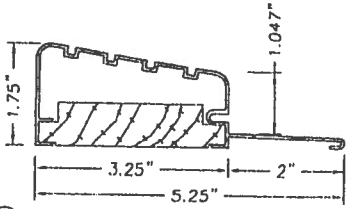


(43) ASTRAGAL

ITEM	DESCRIPTION	MATERIAL
1	3/16" TAPCON	-
2	REINFORCED FIBERGLASS DOOR FACING 0.075" THK.	FIBERGLASS
3	HEAD JAMB (1 3/16" x 4 9/16")	WOOD
4	HINGE JAMB (1 3/16" x 4 9/16")	WOOD
5	STRIKE JAMB (1 3/16" X 4 9/16")	WOOD
6	4" x 4" BUTT HINGE	STEEL
7	#10 X 3/4" PFH WOOD SCREW (HINGE TO DOOR)	STEEL
8	DOOR LATCH SIDE STILE (1.581" W x 1.250"H)	LAM. LUMBER
9	#10 X 1 1/4" PFH WOOD SCREW	STEEL
10	BLANK JAMB (1-3/16" x 4-9/16")	WOOD
11	DOOR TOP RAIL (1.581" W x 1.97"H)	WOOD
12	DOOR BOTTOM RAIL (1.581" W x .97")	COMPOSITE
13	COMPRESSION WEATHERSTRIP	FOAM
14	#10 x 2" PFH WOOD SCREW	STEEL
15	LOCK BLOCK (1.581" W x 2.5" H)	WOOD
16	#8 x 1 3/4" PFH WOOD SCREW	STEEL
17	POLYURETHANE FOAM CORE	FOAM
18	2X BUCK BY OTHERS (SOUTHERN PINE OR EQUAL)	WOOD
19	#8 x 3" PFH WOOD SCREW	STEEL
20	SHIM MATERIAL (.25" MAX. THK.)	-
21	KWIKSET 400 SERIES KNOB OR EQUAL	-
22	KWIKSET 970 SERIES DEADBOLT OR EQUAL	-
23	INSWING ADJUSTABLE THRESHOLD (.050" WALL)	ALUMINUM
24	INSWING DOOR BOTTOM SWEEP	PVC
25	#8 x 2-1/2" PFH WOOD SCREW	STEEL
26	#8 x 2 3/4" PFH WOOD SCREW	STEEL
27	OUTSWING THRESHOLD (BUMPER)	ALUMINUM
28	NOT USED	-
29	DOOR LATCH SIDE STILE	WOOD
30	DOOR HINGE SIDE STILE	MDF
31	DOOR HINGE SIDE STILE	WOOD
32	GLASS FRAME SURROUND (SPECIALTY 1" I.G.)	ALUMINUM
33	GLASS FRAME SURROUND (SPECIALTY 1-1/4" I.G.)	ALUMINUM
34	GLASS FRAME SURROUND (ODL 1" I.G.)	ALUMINUM
35	#10 x 1-3/4" PFH SCREW	STEEL
36	1" LAMINATED IMPACT GLASS	GLASS
37	1-1/4" LAMINATED IMPACT GLASS	GLASS
38	SIDELITE STILE/RAIL	MDF
39	SIDELITE SPACER	VINYL
40	PAK WIK SPACER	-
41	#10 x 3" PFH WOOD SCREW	STEEL
42	MULLION (2-1/2 x 4-3/8 LAMINATED LUMBER)	LAM. LUMBER
43	ASTRAGAL EXTRUDED ALUM. (ULTIMATE BY ENDURA)	ALUMINUM
44	#6 x 1-1/2" PAN HEAD SCREW	STEEL
45	OUTSWING THRESHOLD (HIGH DAM)	ALUMINUM



(38) SIDELITE STILE/RAIL



(45) OUTSWING BUMPER FACE ALUMINUM THRESHOLD

MASONITE INTERNATIONAL CORP.
7300 REAMES RD.
CHARLOTTE, NC 28216

PRODUCT: "EXTERIOR DOOR PRODUCT" 6'-8" GLAZED FIBERGLASS DOUBLE DOOR

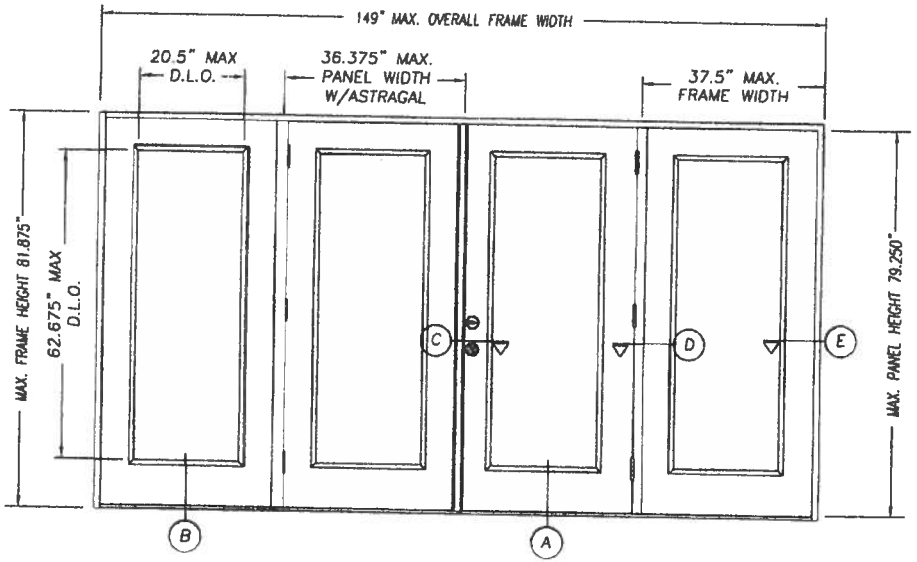
PART OR ASSEMBLY: UNIT COMPONENTS & BILL OF MATERIALS

NO.	DATE	REVISIONS	BY
B	3/1/05	FLORIDA CHANGES	SWS
A	2/22/05	ADDED GLASS DETAIL	SWS

DATE: 2/11/05
SCALE: N.T.S.
DWG. BY: SWS
CHK. BY:
DRAWING NO.: DWG-MA-FL0122-05
SHEET 5 OF 5

Masonite

SIDE-HINGED FIBERGLASS DOOR UNIT (excluding Barrington)
6'-8" GLAZED DOUBLE DOOR WITH / WITHOUT SIDELITES



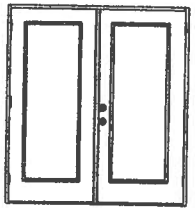
DOUBLE INSWING UNIT W/SIDELITES

GENERAL NOTES

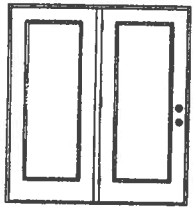
1. EVALUATED FOR USE IN LOCATIONS ADHERING TO THE FLORIDA BUILDING CODE AND WHERE PRESSURE REQUIREMENTS AS DETERMINED BY ASCE 7, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, DOES NOT EXCEED THE DESIGN PRESSURES LISTED.
2. THIS PRODUCT DOES NOT REQUIRE THE USE OF A HURRICANE PROTECTIVE DEVICE (SHUTTERS).
3. PLASTICS TESTING OF LAMINATE GLASS INTERLAYER CONFIRMED PER DADE NOA 03-0827.08

Addendum to NAMI
Certification No: NI005930
Reviewed By:
Date Reviewed: 3/1/05

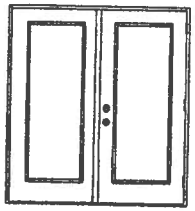
SINGLE DOOR UNIT



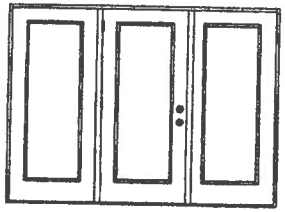
DOUBLE DOOR UNIT



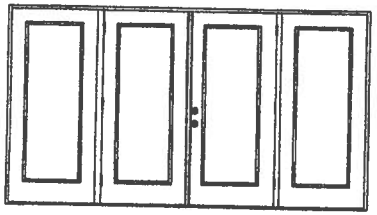
SINGLE DOOR UNIT WITH SIDELITE



SINGLE DOOR UNIT WITH SIDELITE



SINGLE DOOR UNIT W/SIDELITES



DOUBLE DOOR UNIT W/SIDELITES

TABLE OF CONTENTS

SHEET #	DESCRIPTION
1	TYPICAL ELEVATIONS & GENERAL NOTES
2	CROSS SECTIONS
3	ANCHORING LOCATIONS & DETAILS
4	ANCHORING LOCATIONS & DETAILS
5	UNIT COMPONENTS

CONFIG	MAX WIDTH	DESIGN PRESSURE RATING		WHERE WATER INFILTRATION PERFORMANCE IS REQUIRED TO BE 15% OF DESIGN PRESSURE			
		INSWING	OUTSWING	INSWING	OUTSWING	OUTSWING*	
X	37.5"	+60.0 / -60.0	+60.0 / -60.0	+19.0 / -19.0	+40.0 / -40.0	+60.0 / -60.0	
XX	74"	+60.0 / -60.0	+60.0 / -60.0	+19.0 / -19.0	+40.0 / -40.0	+60.0 / -60.0	
OX or XO	75"	+60.0 / -60.0	+60.0 / -60.0	+19.0 / -19.0	+40.0 / -40.0	+60.0 / -60.0	
OXO	112.5"	+60.0 / -60.0	+60.0 / -60.0	+19.0 / -19.0	+40.0 / -40.0	+60.0 / -60.0	
OXXO	149"	+60.0 / -60.0	+60.0 / -60.0	+19.0 / -19.0	+40.0 / -40.0	+60.0 / -60.0	

* High Dam Threshold Design

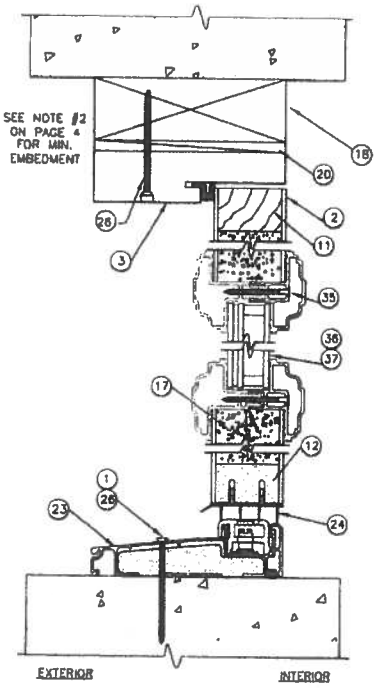
MASONITE INTERNATIONAL CORP.
7300 REAMES RD.
CHARLOTTE, NC 28216

PRODUCT: "EXTERIOR DOOR PRODUCT" DOUBLE 6'8" GLAZED FIBERGLASS DOOR

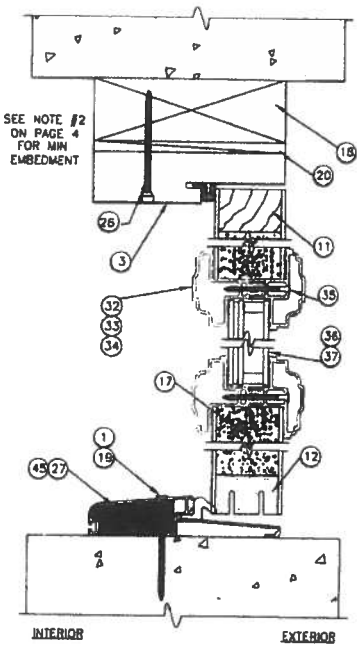
PART OR ASSEMBLY: TYPICAL ELEVATIONS & GENERAL NOTES

NO.	DATE	REVISIONS	BY
B	3/1/05	FLORIDA CHANGES	SWS
A	2/22/05	ADDED GLASS DETAIL	SWS

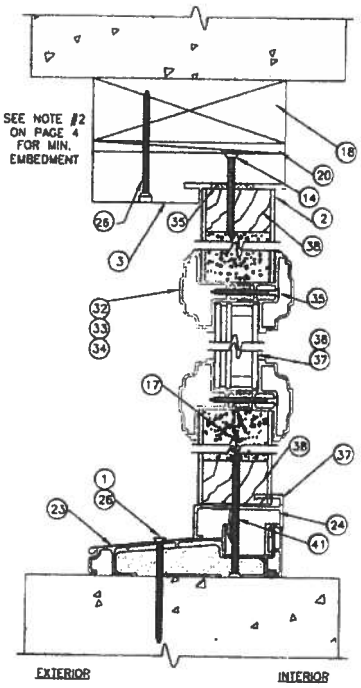
DATE: 2/11/05
SCALE: N.T.S.
DWG. BY: SWS
CHK. BY:
DRAWING NO: DWG-MA-FL0122-05
SHEET 1 OF 5



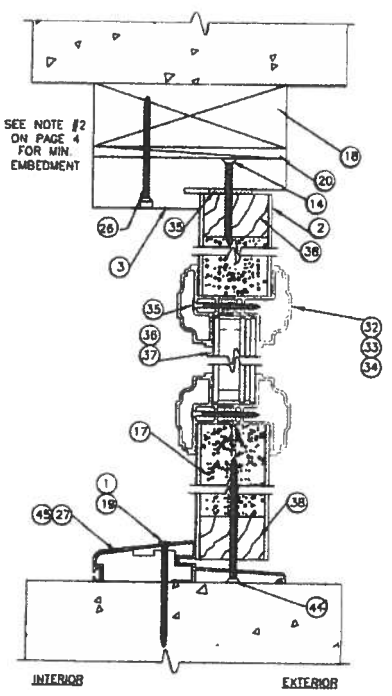
A VERTICAL CROSS SECTION INSWING DOOR UNIT



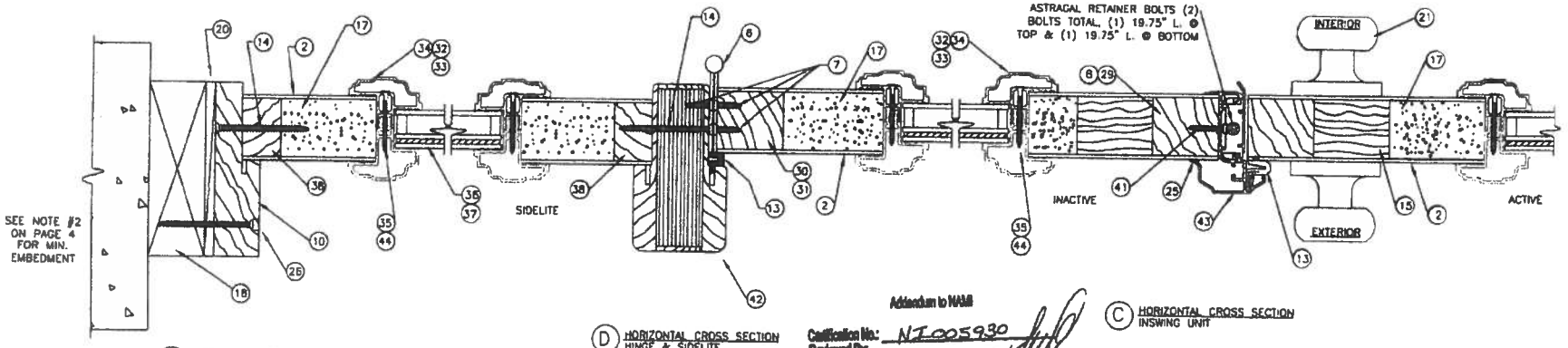
A VERTICAL CROSS SECTION OUTSWING DOOR UNIT



A VERTICAL CROSS SECTION INSWING SIDELITE



A VERTICAL CROSS SECTION OUTSWING SIDELITE



E HORIZONTAL CROSS SECTION SIDELITE JAMB TO BUCK

D HORIZONTAL CROSS SECTION HINGE & SIDELITE

C HORIZONTAL CROSS SECTION INSWING UNIT

Addendum to NAMI
Certification No: NI005930
Reviewed By:
Date Reviewed: 3/1/05

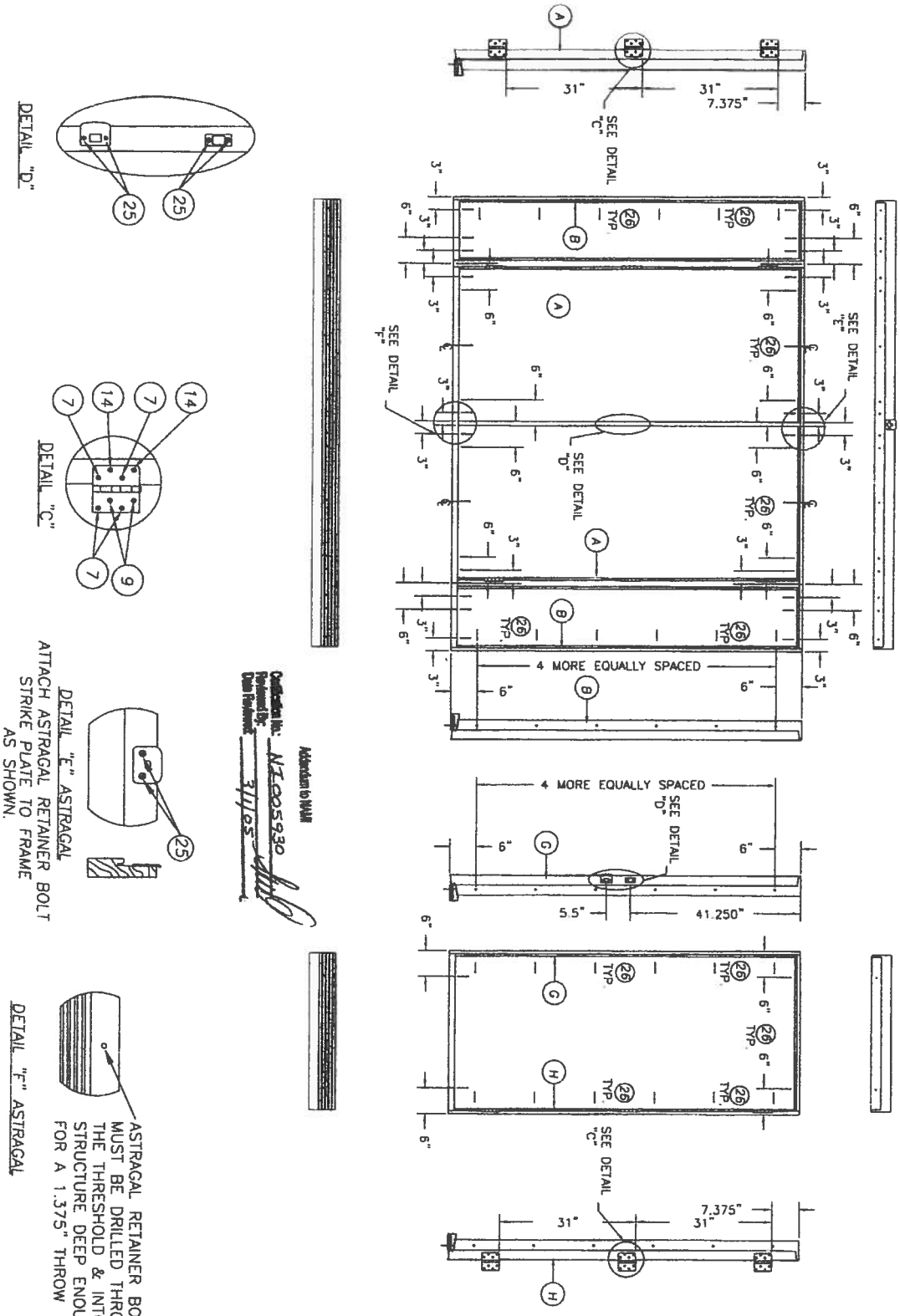
MASONITE INTERNATIONAL CORP.
7300 REAMES RD.
CHARLOTTE, NC 28216

PRODUCT: "EXTERIOR DOOR PRODUCT" 6'-8" FIBERGLASS GLAZED DOUBLE DOOR

PART OR ASSEMBLY: CROSS SECTIONS

NO.	DATE	REVISIONS	BY
B	3/1/05	FLORIDA CHANGES	SWS
A	2/22/05	ADDED GLASS DETAIL	SWS

DATE: 2/11/05
SCALE: N.T.S.
DWG. BY: SWS
CHK. BY:
DRAWING NO.: DWG-MA-FL0122-05
SHEET 2 OF 5



DETAIL "D"

DETAIL "C"

DETAIL "E" ASTRAGAL
ATTACH ASTRAGAL RETAINER BOLT STRIKE PLATE TO FRAME AS SHOWN.

Addendum to NAMI
Certification No: NTC005930
Reviewed By:
Date Reviewed: 3/1/05

ASTRAGAL RETAINER BOLT HOLE MUST BE DRILLED THROUGH THE THRESHOLD & INTO THE STRUCTURE DEEP ENOUGH FOR A 1.375" THROW

DETAIL "F" ASTRAGAL

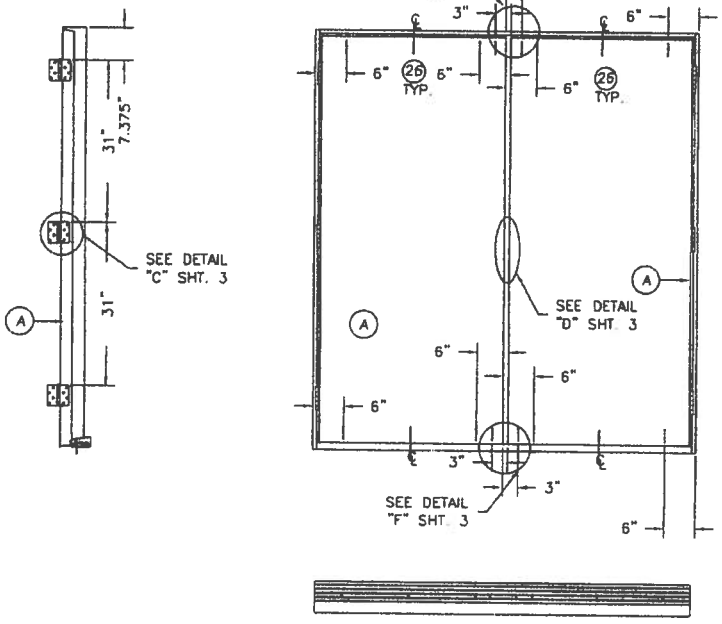
NO.	DATE	REVISIONS	BY
B	3/1/05	FLORIDA CHANGES	SWS
A	2/22/05	ADDED GLASS DETAIL	SWS

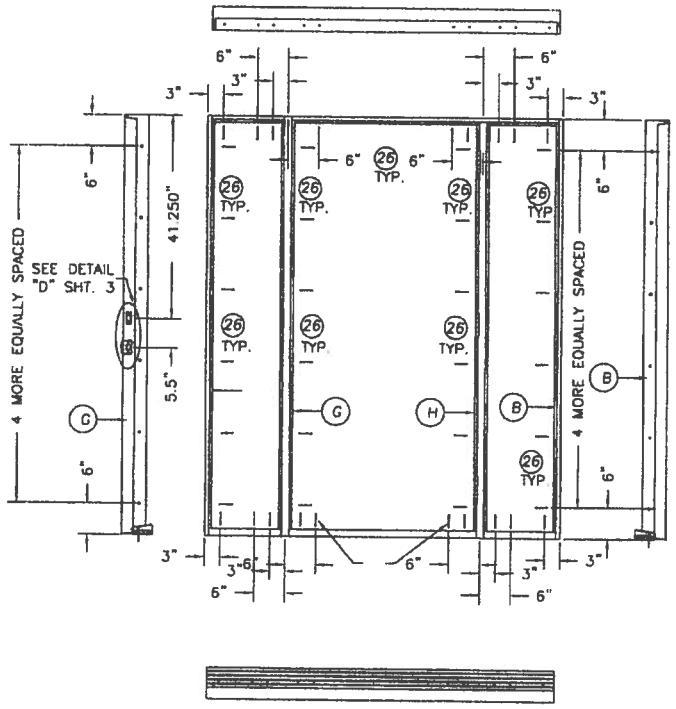
DATE: 2/11/05
SCALE: N.T.S.
DWG. BY: SWS
CHK. BY:
DRAWING NO.
DWG-MA-FL0122-05
SHEET 3 OF 5

PRODUCT:
"EXTERIOR DOOR PRODUCT"
6'-8" FIBERGLASS GLAZED
DOUBLE DOOR UNIT

PART OR ASSEMBLY:
ANCHORING LOCATIONS
& DETAILS

MASONITE INTERNATIONAL CORP.
7300 REAMES RD.
CHARLOTTE, NC 28216





ATTACHMENT DETAIL

1. ANCHOR CALCULATIONS HAVE BEEN CARRIED OUT WITH THE LOWEST (LEAST) FASTENER RATING FROM THE DIFFERENT FASTENERS BEING CONSIDERED FOR USE. JAMB, HEAD, AND THRESHOLD FASTENERS ANALYZED FOR THIS UNIT INCLUDE #8 AND #10 WOOD SCREWS OR 3/16" TAPCONS. A PHYSICAL SHIM MUST BE PLACED IN SHIM SPACE AT EACH ANCHOR LOCATION.
2. THE WOOD SCREW SINGLE SHEAR DESIGN VALUES COME FROM ANSI/AF&PA NDA FOR SOUTHERN PINE LUMBER AND ACHEIVEMENT OF 1-1/4" MINIMUM EMBEDMENT.
3. WOOD BUCKS BY OTHERS MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO STRUCTURE.
4. MINIMUM DESIGN VALUE STRENGTH OF ANCHORS 148 LBS.

Addendum to NAMI
Certification No.: NI-005930
Reviewed By:
Date Reviewed: 3/1/05

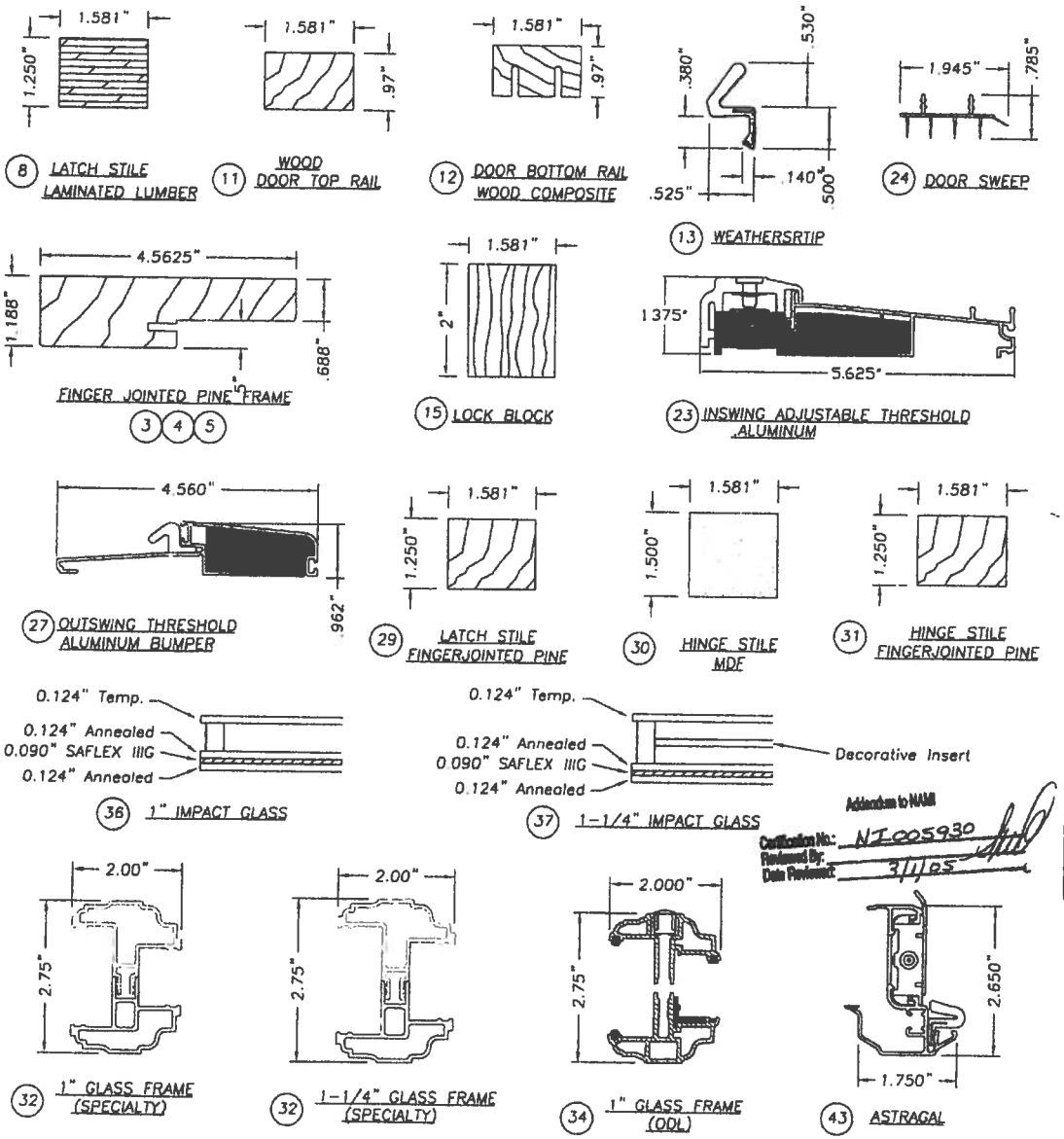
MASONITE INTERNATIONAL CORP.
7300 REAMES RD.
CHARLOTTE, NC 28216

PRODUCT: "EXTERIOR DOOR PRODUCT" 6'-8" FIBERGLASS GLAZED DOUBLE DOOR UNIT

PART OR ASSEMBLY: ANCHORING LOCATIONS & DETAILS

NO.	DATE	REVISIONS	BY
B	3/1/05	FLORIDA CHANGES	SWS
A	2/22/05	ADDED GLASS DETAIL	SWS

DATE: 2/11/05
SCALE: N.T.S.
DWG. BY: SWS
CHK. BY:
DRAWING NO.: DWG-MA-FL0122-05
SHEET 4 OF 5



Addendum to NAMI
Certification No.: NJ-005930
Reviewed By:
Date Reviewed: 3/1/05

ITEM	DESCRIPTION	MATERIAL
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13	COMPRESSION WEATHERSTRIP	FOAM
14	#10 x 2" PFH WOOD SCREW	STEEL
15	LOCK BLOCK (1.581" W x 2.5" H)	WOOD
16	#8 x 1 3/4" PFH WOOD SCREW	STEEL
17	POLYURETHANE FOAM CORE	FOAM
18	2X BUCK BY OTHERS (SOUTHERN PINE OR EQUAL)	WOOD
19	#8 x 3" PFH WOOD SCREW	STEEL
20	SHIM MATERIAL (.25" MAX. THK.)	-
21	KWIKSET 400 SERIES KNOB OR EQUAL	-
22	KWIKSET 970 SERIES DEADBOLT OR EQUAL	-
23	INSWING ADJUSTABLE THRESHOLD (.050" WALL)	ALUMINUM
24	INSWING DOOR BOTTOM SWEEP	PVC
25	#8 x 2-1/2" PFH WOOD SCREW	STEEL
26	#8 x 2 3/4" PFH WOOD SCREW	STEEL
27	OUTSWING THRESHOLD (BUMPER)	ALUMINUM
28	NOT USED	-
29	DOOR LATCH SIDE STILE	WOOD
30	DOOR HINGE SIDE STILE	MDF
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32	GLASS FRAME SURROUND (SPECIALTY 1" I.G.)	ALUMINUM
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40	PAK WIK SPACER	-
41	#10 x 3" PFH WOOD SCREW	STEEL
42	MULLION (2-1/2 x 4-3/8 LAMINATED LUMBER)	LAM. LUMBER
43	ASTRAGAL EXTRUDED ALUM. (ULTIMATE BY ENDURA)	ALUMINUM
44	#6 x 1-1/2" PAN HEAD SCREW	STEEL
45	OUTSWING THRESHOLD (HIGH DAM)	ALUMINUM

MASONITE INTERNATIONAL CORP.
7300 REAMES RD.
CHARLOTTE, NC 28216

PRODUCT: "EXTERIOR DOOR PRODUCT" 6'-8" GLAZED FIBERGLASS DOUBLE DOOR

PART OR ASSEMBLY: UNIT COMPONENTS & BILL OF MATERIALS

NO.	DATE	REVISIONS	BY
B	3/1/05	FLORIDA CHANGES	SWS
A	2/22/05	ADDED GLASS DETAIL	SWS

DATE: 2/11/05
SCALE: N.T.S.
DWG. BY: SWS
CHK. BY:
DRAWING NO.: DWG-MA-FL0122-05
SHEET 5 OF 5

The Wood Stove, Inc.

611 North Main Street
Gainesville, FL 32601
352 377-9535 Fax: 352 377-8712

Estimate

Date	Estimate #
12/10/2005	364

Name / Address
William Scott PO Box 4 White Springs , Fl 32096 352-317-0804

P.O. No.	Rep	
	Cliff	

Qty	Item	Description	Retail	Total
1	Maj uvdr42c	UV fireplace 42"		
1	FGL 360AFP	24" LP gas log w/on/off remote (2boxes), Logs L360BY, & burner Serial #		

	Subtotal
	Sales Tax (6.25%)
	Total

PRICES SUBJECT TO CHANGE !!

Short Form
Entire House
WILSON HEATING & AIR, INC.

Job: SCOTT
Date: Oct 04, 2004
By:

LAKE BUTLER, FL 32054 Phone: 386-752-8796

Project Information

Design Information

	Htg	Clg
Outside db (°F)	17	91
Inside db (°F)	70	75
Design TD (°F)	53	16
Daily range	-	M
Inside humidity (%)	-	50
Moisture difference (gr/lb)	-	35

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

HEATING EQUIPMENT

Make		
Trade		
Model		
Efficiency	80 AFUE	
Heating input	0	Btuh
Heating output	0	Btuh
Temperature rise	0	°F
Actual air flow	2095	cfm
Air flow factor	0.040	cfm/Btuh
Static pressure	0.00	in H2O
Space thermostat		

COOLING EQUIPMENT

Make		
Trade		
Cond		
Coil		
Efficiency	0 EER	
Sensible cooling	0	Btuh
Latent cooling	0	Btuh
Total cooling	0	Btuh
Actual air flow	2095	cfm
Air flow factor	0.053	cfm/Btuh
Static pressure	0.00	in H2O
Load sensible heat ratio	0.90	

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
HOUSE	2275	52210	39185	2095	2095
Entire House d	2275	52210	39185	2095	2095
Other equip loads		0	0		
Equip. @ 0.96 RSM			37617		
Latent cooling			4239		
TOTALS	2275	52210	41856	2095	2095

Printout certified by ACCA to meet all requirements of Manual J 7th Ed.

Short Form
Entire House
WILSON HEATING & AIR, INC.

Job: SCOTT
Date: Oct 04, 2004
By:

LAKE BUTLER, FL 32054 Phone: 386-752-8796

Project Information

Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	17	91	Method	Simplified
Inside db (°F)	70	75	Construction quality	Average
Design TD (°F)	53	16	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	-	50		
Moisture difference (gr/lb)	-	35		

HEATING EQUIPMENT

Make		
Trade		
Model		
Efficiency	80 AFUE	
Heating input	0	Btuh
Heating output	0	Btuh
Temperature rise	0	°F
Actual air flow	2095	cfm
Air flow factor	0.040	cfm/Btuh
Static pressure	0.00	in H2O
Space thermostat		

COOLING EQUIPMENT

Make		
Trade		
Cond		
Coil		
Efficiency	0 EER	
Sensible cooling	0	Btuh
Latent cooling	0	Btuh
Total cooling	0	Btuh
Actual air flow	2095	cfm
Air flow factor	0.053	cfm/Btuh
Static pressure	0.00	in H2O
Load sensible heat ratio	0.90	

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
HOUSE	2275	52210	39185	2095	2095
Entire House d	2275	52210	39185	2095	2095
Other equip loads		0	0		
Equip. @ 0.96 RSM			37617		
Latent cooling			4239		
TOTALS	2275	52210	41856	2095	2095

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