

Columbia County New Building Permit Application

For Office Use Only		Application # <u>44012</u>	Date Received <u>11/8</u>	By <u>MG</u>	Permit # <u>39063/39064</u>
Zoning Official <u>LW/CH</u>	Date <u>11-13-19</u>	Flood Zone <u>X</u>	Land Use <u>RLD</u>	Zoning <u>RSF-2</u>	
FEMA Map # _____	Elevation _____	MFE <u>108'</u>	River _____	Plans Examiner <u>Z.C.</u>	Date <u>11-22-19</u>
Comments					
<input checked="" type="checkbox"/> NOC <input checked="" type="checkbox"/> EH <input checked="" type="checkbox"/> Deed or PA <input checked="" type="checkbox"/> Site Plan <input type="checkbox"/> State Road Info <input checked="" type="checkbox"/> Well letter <input checked="" type="checkbox"/> 911 Sheet <input type="checkbox"/> Parent Parcel # _____ <input type="checkbox"/> Dev Permit # _____ <input type="checkbox"/> In Floodway <input checked="" type="checkbox"/> Letter of Auth. from Contractor <input type="checkbox"/> F W Comp. letter _____ <input type="checkbox"/> Owner Builder Disclosure Statement <input type="checkbox"/> Land Owner Affidavit <input type="checkbox"/> Ellisville Water <input checked="" type="checkbox"/> App Fee Paid <input checked="" type="checkbox"/> Sub VF Form _____					

Septic Permit No. 19-0888 **OR City Water** ☐ **Fax** N/A

Applicant (Who will sign/pickup the permit) Kim Sweat **Phone** 352-283-2002

Address 20267 NW 248th Way High Springs, FL 32643

Owners Name Gibraltar Contracting LLC **Phone** 352-283-2002

911 Address 259 SW Buttercup Dr. Lake City, FL 32024

Contractors Name Mark Bauer **Phone** 352-283-2002

Address 20267 NW 248th Way High Springs, FL 32643

Contractor Email gibraltarcontracting@gmail.com *****Include to get updates on this job.**

Fee Simple Owner Name & Address _____

Bonding Co. Name & Address _____

Architect/Engineer Name & Address Will Myer / Mark Disosway Lake City, FL

Mortgage Lenders Name & Address _____

Circle the correct power company ☐ **FL Power & Light** ☒ **Clay Elec.** ☐ **Suwannee Valley Elec.** ☐ **Duke Energy**

Property ID Number 15-48-16-03023-545 **Estimated Construction Cost** \$185,000⁰⁰

Subdivision Name Rolling Meadows **Lot** 45 **Block** _____ **Unit** _____ **Phase** _____

Driving Directions from a Major Road SR 247 South to SW Callahan Ave on Left. Follow to SW Morning Glory Dr. on Right. Follow to 1st Right (SW Buttercup Dr.) Property is on Right on curve just past SW Poppy Glen.

Construction of new SFD **Commercial** ☐ **OR** ☒ **Residential**

Proposed Use/Occupancy single family residence **Number of Existing Dwellings on Property** 0

Is the Building Fire Sprinkled? No **If Yes, blueprints included** _____ **Or Explain** _____

Circle Proposed ☒ **Culvert Permit** **or** ☐ **Culvert Waiver** **or** ☐ **D.O.T. Permit** **or** ☐ **Have an Existing Drive**

Actual Distance of Structure from Property Lines - Front 35' **Side** 12' **Side** 12' **Rear** 88'

Number of Stories 1 **Heated Floor Area** 1771 sf. **Total Floor Area** 2470 sf. **Acreage** 0.59 ac

Zoning Applications applied for (Site & Development Plan, Special Exception, etc.) _____

Columbia County Building Permit Application

CODE: Florida Building Code 2017 and the 2014 National Electrical Code.

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.

TIME LIMITATIONS OF APPLICATION : An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless pursued in good faith or a permit has been issued.

TIME LIMITATIONS OF PERMITS: Every permit issued shall become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

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

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

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

OWNERS CERTIFICATION: I CERTIFY THAT ALL THE FOREGOING INFORMATION IS ACCURATE AND THAT ALL WORK WILL BE DONE IN COMPLIANCE WITH ALL APPLICABLE LAWS REGULATING CONSTRUCTION AND ZONING.

NOTICE TO OWNER: There are some properties that may have deed restrictions recorded upon them. These restrictions may limit or prohibit the work applied for in your building permit. You must verify if your property is encumbered by any restrictions or face possible litigation and or fines.

Mark Bauer

Print Owners Name

[Signature]
Owners Signature

****Property owners must sign here before any permit will be issued.**

****If this is an Owner Builder Permit Application then, ONLY the owner can sign the building permit when it is issued.**

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

[Signature]
Contractor's Signature

Contractor's License Number CBC1259633
Columbia County
Competency Card Number 1501 ✓

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 7th day of November 2019.

Personally known ☒ or Produced Identification

[Signature]

State of Florida Notary Signature (For the Contractor)

SEAL:



JOB NAME

Lot 45 Rolling Meadows

PERMIT FEE: \$-SUBMITTED \$-FOR-A PERMIT WILL BE \$0.00

One permit will cover all trades doing work at the permitted site. It is the responsibility of the general contractor to make sure that all of the subcontractors are licensed with the County Building Department.

Subcontractors should confirm licenses at: <http://www.co.clatsop.wa.gov/PermitSearch/ContractorSearch.aspx>

If any changes should change prior to completion of the project, it is your responsibility to have a corrected form submitted to our office, before that work has begun.

Failure to do so will result in stop work orders and/or fines.

ELECTRICAL 811-088	Print Name: <u>Ryan Benile</u>	Signature: <u>[Signature]</u>	Need: <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
	Company Name: <u>RBI Electrical Contractors LLC</u>		
	License #: <u>EC 1300 4236</u>	Phone #: <u>352-339-0369</u>	
Mechanical	Print Name: _____	Signature: _____	Need: <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
	Company Name: _____		
	License #: _____	Phone #: _____	
Plumbing	Print Name: _____	Signature: _____	Need: <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
	Company Name: _____		
	License #: _____	Phone #: _____	
Roofing	Print Name: _____	Signature: _____	Need: <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
	Company Name: _____		
	License #: _____	Phone #: _____	
Foundation	Print Name: _____	Signature: _____	Need: <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
	Company Name: _____		
	License #: _____	Phone #: _____	
Structural	Print Name: _____	Signature: _____	Need: <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
	Company Name: _____		
	License #: _____	Phone #: _____	
Other	Print Name: _____	Signature: _____	Need: <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
	Company Name: _____		
	License #: _____	Phone #: _____	

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # _____ JOB NAME Lot 45 Rolling Meadows

THIS FORM MUST BE SUBMITTED BEFORE A PERMIT WILL BE ISSUED

Columbia County issues combination permits. One permit will cover all trades doing work at the permitted site. It is REQUIRED that we have records of the subcontractors who actually did the trade specific work under the general contractors permit.

NOTE: It shall be the responsibility of the general contractor to make sure that all of the subcontractors are licensed with the Columbia County Building Department.

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ELECTRICAL <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need - Lic - Liab - W/C - EX - DE
MECHANICAL/A/C <input checked="" type="checkbox"/> CC# <u>802</u>	Print Name <u>Clinton Wilson</u> Signature <u>Clinton Wilson</u> Company Name: <u>Wilson Heat & Air Inc.</u> License #: <u>CAC057886</u> Phone #: <u>386-496-9000</u>	Need - Lic - Liab - W/C - EX - DE
PLUMBING/GAS <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need - Lic - Liab - W/C - EX - DE
ROOFING <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need - Lic - Liab - W/C - EX - DE
SHEET METAL <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need - Lic - Liab - W/C - EX - DE
FIRE SYSTEM/SPRINKLER <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need - Lic - Liab - W/C - EX - DE
SOLAR <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need - Lic - Liab - W/C - EX - DE
STATE SPECIALTY <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need - Lic - Liab - W/C - EX - DE

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ELECTRICAL <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
MECHANICAL/ A/C <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
PLUMBING/ GAS <input checked="" type="checkbox"/> CC# <u>429</u>	Print Name <u>James L Butler</u> Signature <u>James L Butler</u> Company Name: <u>Butler Plumbing of Gainesville Inc</u> License #: <u>CFC057960</u> Phone #: <u>352 472 3677</u>	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
ROOFING <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
SHEET METAL <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
FIRE SYSTEM/ SPRINKLER <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
SOLAR <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
STATE <input type="checkbox"/> SPECIALTY CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE

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ELECTRICAL <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need - Lic - Liab - W/C - EX - DE
MECHANICAL/A/C <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need - Lic - Liab - W/C - EX - DE
PLUMBING/GAS <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need - Lic - Liab - W/C - EX - DE
ROOFING <input checked="" type="checkbox"/>	Print Name <u>Jeff Bokor</u> Signature <u>[Signature]</u> Company Name: <u>DWC Contracting LLC</u> License #: <u>CRC-1329756</u> Phone #: <u>352-3396367</u>	Need - Lic - Liab - W/C - EX - DE
SHEET METAL <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need - Lic - Liab - W/C - EX - DE
FIRE SYSTEM/SPRINKLER <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need - Lic - Liab - W/C - EX - DE
SOLAR <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need - Lic - Liab - W/C - EX - DE
STATE SPECIALTY <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need - Lic - Liab - W/C - EX - DE



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

LETTER OF AUTHORIZATION TO SIGN FOR PERMITS

I, Mark Bauer (license holder name), licensed qualifier
for Gibraltar Contracting, LLC (company name), do certify that
the below referenced person(s) listed on this form is/are contracted/hired by me, the license
holder, or is/are employed by me directly or through an employee leasing arrangement; or, is an
officer of the corporation; or, partner as defined in Florida Statutes Chapter 468, and the said
person(s) is/are under my direct supervision and control and is/are authorized to purchase
permits, call for inspections and sign on my behalf.

Printed Name of Person Authorized	Signature of Authorized Person
1. <u>Kim Sweat</u>	1. <u>[Signature]</u>
2.	2.
3.	3.
4.	4.
5.	5.

I, the license holder, realize that I am responsible for all permits purchased, and all work done
under my license and fully responsible for compliance with all Florida Statutes, Codes, and
Local Ordinances. I understand that the State and County Licensing Boards have the power and
authority to discipline a license holder for violations committed by him/her, his/her agents,
officers, or employees and that I have full responsibility for compliance with all statutes, codes
and ordinances inherent in the privilege granted by issuance of such permits.

If at any time the person(s) you have authorized is/are no longer agents, employee(s), or
officer(s), you must notify this department in writing of the changes and submit a new letter of
authorization form, which will supersede all previous lists. Failure to do so may allow
unauthorized persons to use your name and/or license number to obtain permits.

[Signature] CBC1259633 Nov 7, 2019
License Holders Signature (Notarized) License Number Date

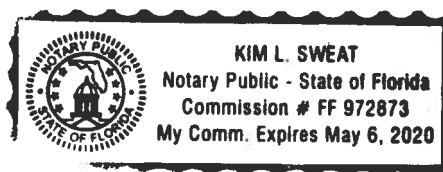
NOTARY INFORMATION:

STATE OF: Florida COUNTY OF: Columbia

The above license holder, whose name is Mark Bauer
personally appeared before me and is known by me or has produced identification
(type of I.D.) _____ on this 7th day of November, 2019.

[Signature]
NOTARY'S SIGNATURE

(Seal/Stamp)



Columbia County Property Appraiser

Jeff Hampton

2020 Working Values

updated: 10/30/2019

Parcel: << **15-4S-16-03023-545** >>**Owner & Property Info**

Result: 1 of 3

Owner	GIBALTAR CONTRACTING LLC 426 SW COMMERCE DRIVE, #130 LAKE CITY, FL 32025		
Site	259 BUTTERCUP DR,		
Description*	LOT 45 ROLLING MEADOWS S/D. WD 1063-1963, WD 1067-2436, CT 1171-916, WD 1192-592, WD 1374-1389,		
Area	0.59 AC	S/T/R	15-4S-16E
Use Code**	VACANT (000000)	Tax District	3

*The Description above is not to be used as the Legal Description for this parcel in any legal transaction.

**The Use Code is a FL Dept. of Revenue (DOR) code and is not maintained by the Property Appraiser's office. Please contact your city or county Planning & Zoning office for specific zoning information.

Property & Assessment Values

2019 Certified Values		2020 Working Values	
Mkt Land (1)	\$14,500	Mkt Land (1)	\$14,500
Ag Land (0)	\$0	Ag Land (0)	\$0
Building (0)	\$0	Building (0)	\$0
XFOB (0)	\$0	XFOB (0)	\$0
Just	\$14,500	Just	\$14,500
Class	\$0	Class	\$0
Appraised	\$14,500	Appraised	\$14,500
SOH Cap [?]	\$0	SOH Cap [?]	\$0
Assessed	\$14,500	Assessed	\$14,500
Exempt	\$0	Exempt	\$0
Total Taxable	county:\$14,500 city:\$14,500 other:\$14,500 school:\$14,500	Total Taxable	county:\$14,500 city:\$14,500 other:\$14,500 school:\$14,500

Aerial Viewer Pictometry Google Maps

☒ 2019
 ☐ 2016
 ☐ 2013
 ☐ 2010
 ☐ 2007
 ☐ 2005
 ☒ Sales
**▼ Sales History**

Sale Date	Sale Price	Book/Page	Deed	V/I	Quality (Codes)	RCode
11/14/2018	\$126,000	1374/1389	WD	V	Q	05 (Multi-Parcel Sale) - show
4/7/2010	\$44,700	1192/0592	WD	V	U	12
3/25/2009	\$100	1171/0916	CT	V	U	12
12/9/2005	\$48,000	1067/2436	WD	V	Q	
11/1/2005	\$678,571	1063/1963	WD	V	U	01

▼ Building Characteristics

Bldg Sketch	Bldg Item	Bldg Desc*	Year Blt	Base SF	Actual SF	Bldg Value
NONE						

▼ Extra Features & Out Buildings (Codes)

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

▼ **Land Breakdown**

Land Code	Desc	Units	Adjustments	Eff Rate	Land Value
000000	VAC RES (MKT)	1.000 LT - (0.590 AC)	1.00/1.00 1.00/1.00	\$14,500	\$14,500

Search Result: 1 of 3

© Columbia County Property Appraiser | Jeff Hampton | Lake City, Florida | 386-758-1083

by: GrizzlyLogic.com

Detail by Entity Name

Florida Limited Liability Company

GIBALTAR CONTRACTING, LLC

Filing Information

Document Number L13000113885
FEI/EIN Number 46-3603997
Date Filed 08/13/2013
State FL
Status ACTIVE

Principal Address

20267 NW 248TH WAY
 HIGH SPRINGS, FL 32643

Mailing Address

20267 NW 248TH WAY
 HIGH SPRINGS, FL 32643

Registered Agent Name & Address

BAUER, MARK D
 20267 NW 248TH WAY
 HIGH SPRINGS, FL 32643

Authorized Person(s) Detail

Name & Address

Title MGR

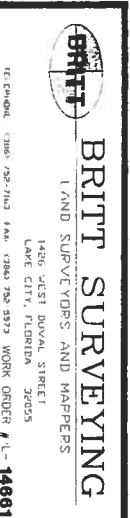
BAUER, MARK D
 20267 NW 248TH WAY
 HIGH SPRINGS, FL 32643

Annual Reports

Report Year	Filed Date
2017	04/26/2017
2018	01/16/2018
2019	05/01/2019

Document Images

05/01/2019 -- ANNUAL REPORT	View image in PDF format
01/16/2018 -- ANNUAL REPORT	View image in PDF format
04/26/2017 -- ANNUAL REPORT	View image in PDF format
01/23/2016 -- ANNUAL REPORT	View image in PDF format
04/21/2015 -- ANNUAL REPORT	View image in PDF format
04/18/2014 -- ANNUAL REPORT	View image in PDF format
08/13/2013 -- Florida Limited Liability	View image in PDF format



PLAT BOOK 8
PAGES 46
SHEET 2 OF 2

ROLLING MEADOWS

SECTION 15, TOWNSHIP 4 SOUTH,
RANGE 16 EAST,
COLUMBIA COUNTY, FLORIDA

SCALE: 1" = 100'



SVANEDILLEND.
DEPARTMENT OF REVENUE, AGONYMETHA

W. J. VAN DER CRUIJSE, PUJINI

SEE SHEET 1 OF 2 FOR CURVE INFORMATION TABLE

NOTICE: THIS PLAT AS RECORDED IN ITS GRAPHICAL FORM, IS THE OFFICIAL DEPICTION OF THE SUPERVISED LANDS DESCRIBED HEREIN AND WILL IN NO CIRCUMSTANCES BE SUPPLEMENTED IN AUTHORITY BY OTHER GRAPHICAL OR DIGITAL FORM OF THE PLAT. THERE MAY BE ADDITIONAL RESTRICTIONS THAT ARE NOT RECORDED ON THIS PLAT THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.

NOTICE

ENGINEER:

963 COUNTY ROAD 417
112 DAK. FLORIDA 3206
1 386-362-4797

DEVELOPER:
RML HERDINGS, INC
386-755 9444
2281 W US HWY 90
LAKE CITY, FL 32055

Legend

- Roads
- Roads
 - others
 - Dirt
 - Interstate
 - Main
 - Other
 - Paved
 - Private
 - LidarElevations

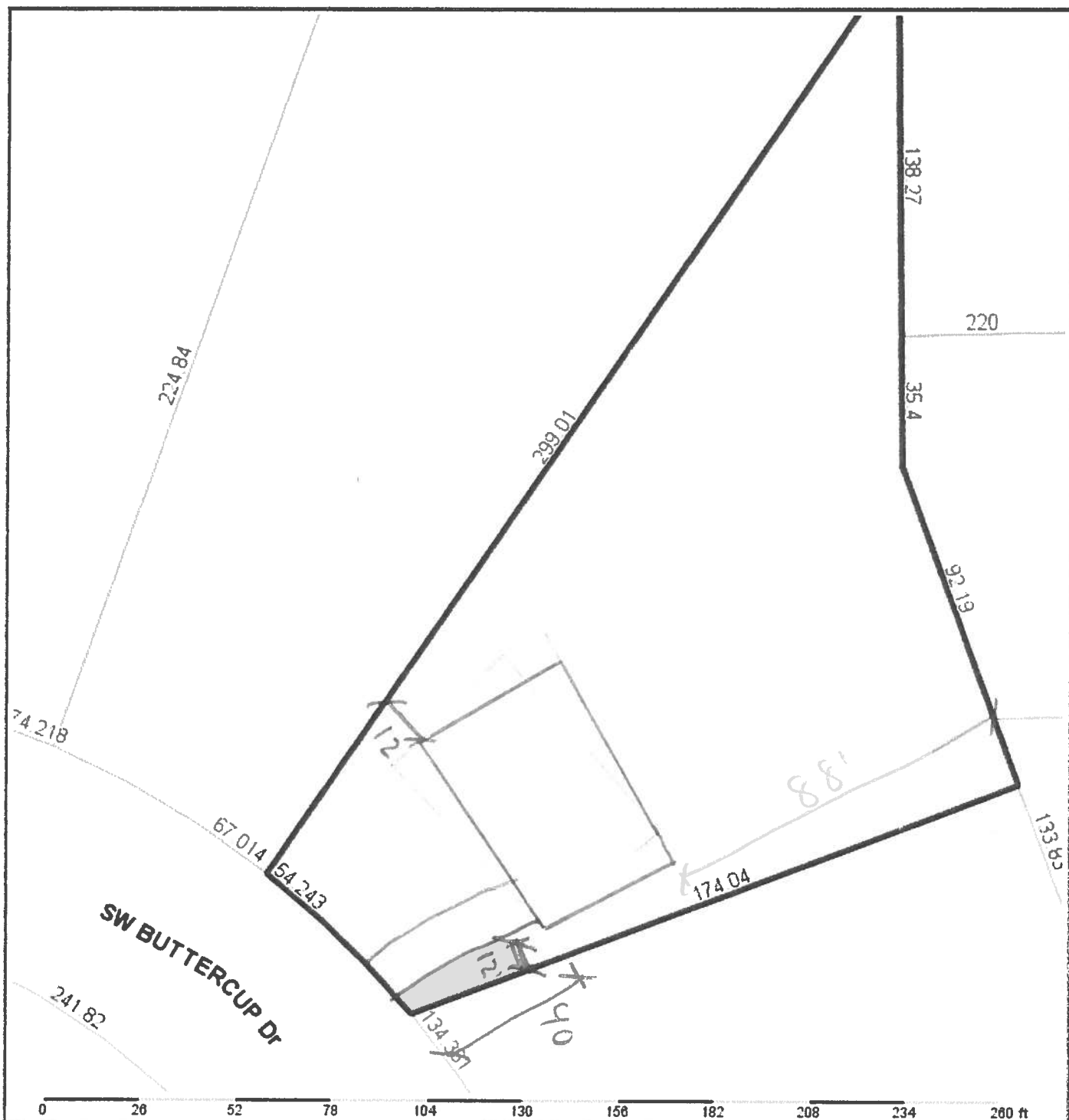
Columbia County, FLA - Building & Zoning Property Map

Printed: Wed Nov 13 2019 09:18:01 GMT-0500 (Eastern Standard Time)



Parcel Information

Parcel No: 15-4S-16-03023-545
Owner: GIBALTAR CONTRACTING LLC
Subdivision: ROLLING MEADOWS
Lot: 45
Acres: 0.5821955
Deed Acres:
District: District 3 Bucky Nash
Future Land Uses: Residential - Low
Flood Zones:
Official Zoning Atlas: RSF-2



Columbia County Property Appraiser Jeff Hampton | Lake City, Florida | 386-758-1083

PARCEL: 15-4S-16-03023-545 | VACANT (000000) | 0.59 AC

LOT 45 ROLLING MEADOWS S/D, WD 1063-1963, WD 1067-2436, CT 1171-916, WD 1192-592, WD 1374-1389,

GIBLALTAR CONTRACTING LLC

Owner: 426 SW COMMERCE DRIVE, #130
LAKE CITY, FL 32025

Site: 259 BUTTERCUP DR,

Sales 11/14/2018 \$126,000 V (Q)
4/7/2010 \$44,700 V (U)
Info 3/25/2009 \$100 V (U)

2020 Working Values

Mkt Lnd	\$14,500	Appraised	\$14,500
Ag Lnd	\$0	Assessed	\$14,500
Bldg	\$0	Exempt	\$0
XFOB	\$0	county:	\$14,500
Just	\$14,500	city:	\$14,500
		other:	\$14,500
		school:	\$14,500

NOTES:

Columbia County, FL

This information, 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, its use, or its interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office.

GrizzlyLogic.com

District No. 1 - Ronald Williams
District No. 2 - Rocky Ford
District No. 3 - Bucky Nash
District No. 4 - Toby Witt
District No. 5 - Tim Murphy

BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY



Address Assignment and Maintenance Document

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

Date/Time Issued: **10/29/2019 6:07:35 PM**
Address: **259 SW BUTTERCUP Dr**
City: **LAKE CITY**
State: **FL**
Zip Code **32024**

Parcel ID **03023-545**

REMARKS: Address Verification.

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

Address Issued By: **Signed:/ Matt Crews**

Columbia County GIS/911 Addressing Coordinator

**COLUMBIA COUNTY
911 ADDRESSING / GIS DEPARTMENT**

263 NW Lake City Ave., Lake City, FL 32055 Telephone: (386) 758-1125
Email: gis@columbiacountyfla.com



STATE OF FLORIDA
DEPARTMENT OF HEALTH
ON-SITE SEWAGE TREATMENT AND DISPOSAL
SYSTEM
APPLICATION FOR CONSTRUCTION PERMIT

PERMIT NO. 19-0888
DATE PAID: 12-1-19
FEE PAID: 310.00
RECEIPT #: 1457488

APPLICATION FOR:

☒ New System ☐ Existing System ☐ Holding Tank ☐ Innovative
☐ Repair ☐ Abandonment ☐ Temporary ☐

APPLICANT: Gibraltar Contracting, LLC. MF Auffer Homes

AGENT: Mark Bauer

TELEPHONE: 352-283-2002

MAILING ADDRESS: 20267 NW 248th Way High Springs, FL 32643

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

PROPERTY INFORMATION

LOT: 45 BLOCK: SUBDIVISION: Rolling Meadows PLATTED: 10/17/05

PROPERTY ID #: 15-4S-16-03023-545 ZONING: R1S I/M OR EQUIVALENT: ☒ (S)

PROPERTY SIZE: 0.59 ACRES WATER SUPPLY: ☒ PRIVATE PUBLIC ☐ $\leq 2000\text{GPD}$ ☐ $> 2000\text{GPD}$

IS SEWER AVAILABLE AS PER 381.0065, FS? ☒ Y ☐ N DISTANCE TO SEWER: N/A FT

PROPERTY ADDRESS: 259 SW Buttercup Dr. Lake City 32024

DIRECTIONS TO PROPERTY: SR 247 South to SW Callahan Ave on L. Follow

to SW Morning Glory Dr. on R. Then to 1st Right (SW Buttercup Dr.)

Property is on R on Curve just past SW Poppy Glen.

BUILDING INFORMATION

☐ RESIDENTIAL ☐ COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	New (Site Built) Construction SFD	4	1771 H/C 2470 TOTAL	
2				
3				
4				

☐ Floor/Equipment Drains ☐ Other (Specify)

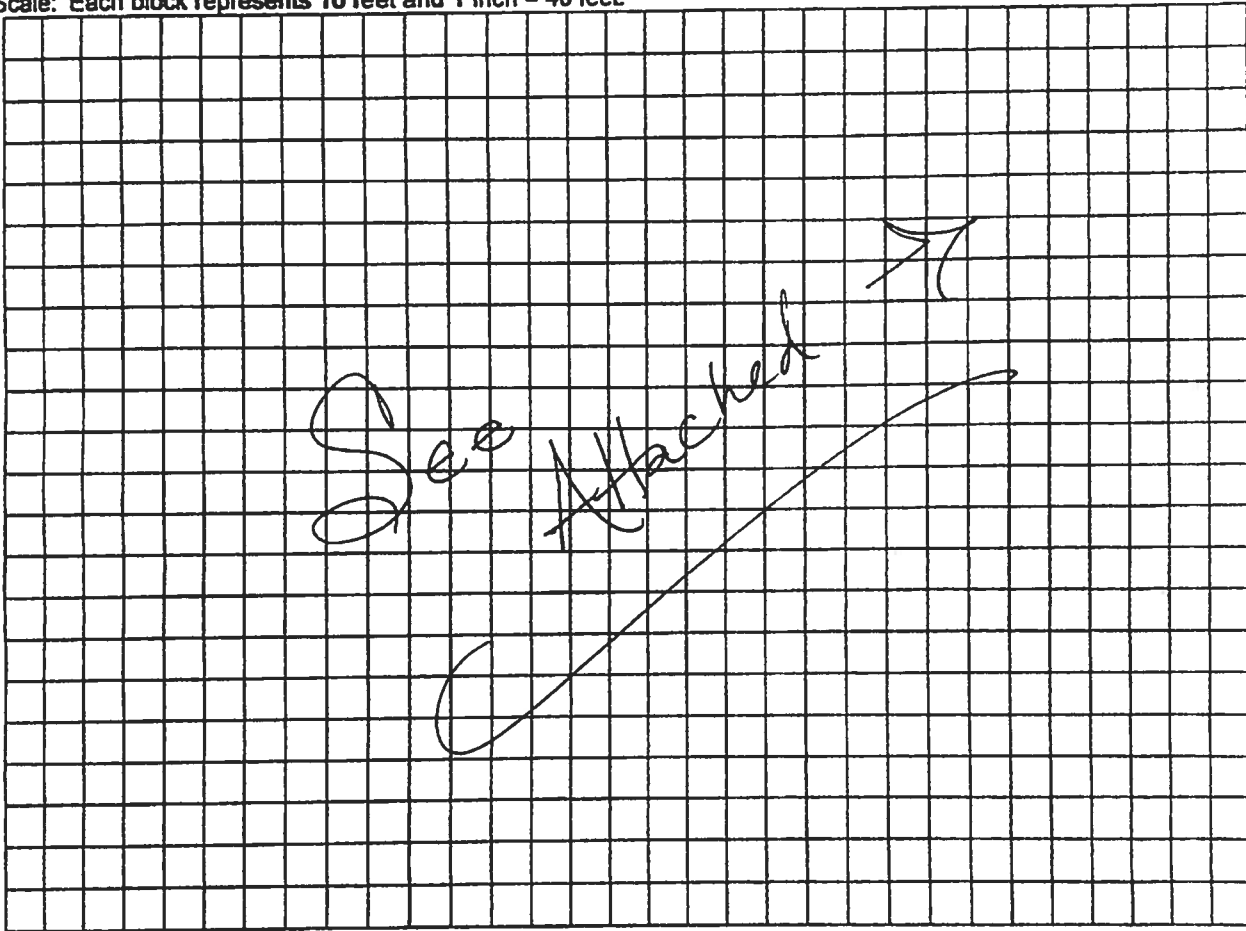
SIGNATURE: RC And RONALD FORD DATE: Nov 7, 2019

STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR CONSTRUCTION PERMIT

Permit Application Number 19-4888

----- PART II - SITEPLAN -----

Scale: Each block represents 10 feet and 1 inch = 40 feet.



Notes: _____

Site Plan submitted by: RC - Ronald Ford

Plan Approved ☒ Not Approved _____ Date 12/5/19

By [Signature] Columbia County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

PLOT PLAN

IN SECTION 15, TOWNSHIP 4 SOUTH, RANGE 16 EAST
COLUMBIA COUNTY, FLORIDA

THIS IS NOT A BOUNDARY SURVEY

S.W. HOPE HENRY STREET
(60' R/W)
R/W LINE

19-8888

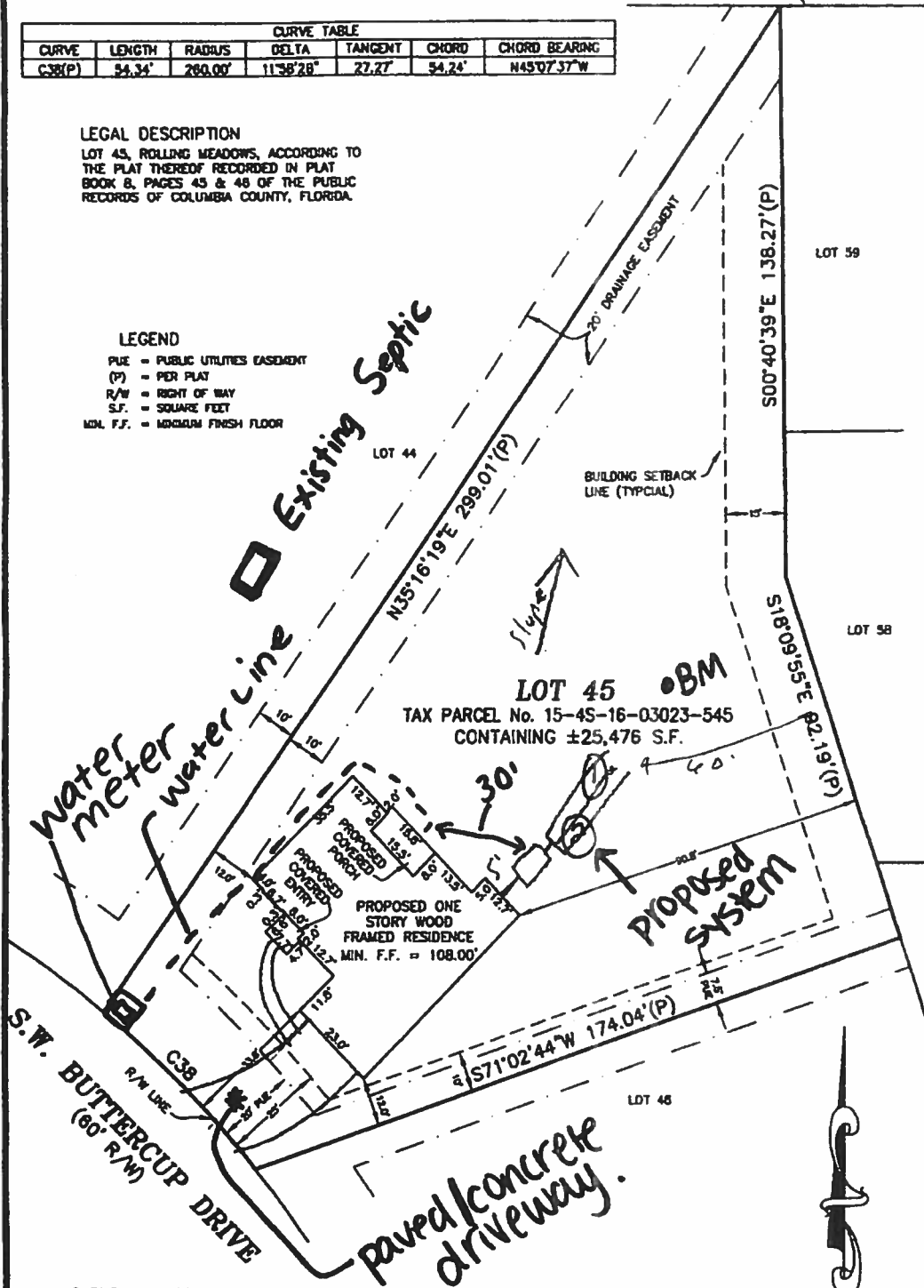
CURVE TABLE						
CURVE	LENGTH	RADIUS	DELTA	TANGENT	CHORD	CHORD BEARING
C38(P)	54.34'	280.00'	11°38'28"	27.27'	54.24'	N45°07'37"W

LEGAL DESCRIPTION

LOT 45, ROLLING MEADOWS, ACCORDING TO
THE PLAT THEREOF RECORDED IN PLAT
BOOK 8, PAGES 45 & 46 OF THE PUBLIC
RECORDS OF COLUMBIA COUNTY, FLORIDA.

LEGEND

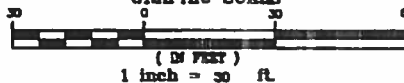
PUE = PUBLIC UTILITIES EASEMENT
(P) = PER PLAT
R/W = RIGHT OF WAY
S.F. = SQUARE FEET
MFL F.F. = MEDIUM FINISH FLOOR



SURVEYOR NOTES:

1. THE BEARINGS SHOWN HEREON ARE BASED THE PLAT OF ROLLING MEADOWS.
2. RECORDED EASEMENT AND/OR DEEDS NOT FURNISHED TO THE SURVEYOR ARE NOT SHOWN.
3. THIS IS NOT A BOUNDARY SURVEY

GRAPHIC SCALE





COLUMBIA COUNTY BUILDING DEPARTMENT RESIDENTIAL CHECK LIST

MINIMUM PLAN REQUIREMENTS: FLORIDA BUILDING CODE RESIDENTIAL 2017 EFFECTIVE 1 JANUARY 2018
AND THE NATIONAL ELECTRICAL 2014 EFFECTIVE 1 JANUARY 2018

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT FLORIDA BUILDING CODES RESIDENTIAL AND THE NATIONAL ELECTRICAL CODE. ALL PLANS OR DRAWINGS SHALL PROVIDE CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS, FBC 1609.3.1 THRU 1609.3.3.

FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FLORIDA BUILDING CODE FIGURE 1609-A THROUGH 1609-C ULTIMATE DESIGN WIND SPEEDS FOR RISK CATEGORY AND BUILDINGS AND OTHER STRUCTURES
Revised 7/1/18

Website: <http://www.columbiacountyfla.com/BuildingandZoning.asp>

Items to Include-
Each Box shall be
Circled as
Applicable

GENERAL REQUIREMENTS:
APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

		Select From Drop down		
1	Two (2) complete sets of plans containing the following:	<input checked="" type="checkbox"/>		
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void	<input checked="" type="checkbox"/>		
3	Condition space (Sq. Ft.) <u>1771</u> Total (Sq. Ft.) under roof <u>2470</u>	Yes	No	NA

Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall be affixed to the plans and documents as per the FLORIDA BUILDING CODES RESIDENTIAL 107.1.

Site Plan information including:

4	Dimensions of lot or parcel of land	Yes		<input type="checkbox"/>
5	Dimensions of all building set backs	Yes		<input type="checkbox"/>
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.	Yes		<input type="checkbox"/>
7	Provide a full legal description of property.	Yes		<input type="checkbox"/>

Wind-load Engineering Summary, calculations and any details are required.

GENERAL REQUIREMENTS: APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
8	Plans or specifications must show compliance with FBCR Chapter 3	Yes	No	NA
		Select From Drop down		
9	Basic wind speed (3-second gust), miles per hour	Yes		<input type="checkbox"/>
10	(Wind exposure - if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)	Yes		<input type="checkbox"/>
11	Wind importance factor and nature of occupancy	Yes		<input type="checkbox"/>
12	The applicable internal pressure coefficient, Components and Cladding	Yes		<input type="checkbox"/>
13	The design wind pressure in terms of psf (kN/m ²), to be used for the design of exterior component, cladding materials not specifi ally designed by the registered design professional.	Yes		<input type="checkbox"/>

Elevations Drawing including:

14	All side views of the structure	Yes		<input type="checkbox"/>
15	Roof pitch	Yes		<input type="checkbox"/>
16	Overhang dimensions and detail with attic ventilation	Yes		<input type="checkbox"/>
17	Location, size and height above roof of chimneys	Yes		<input type="checkbox"/>
18	Location and size of skylights with Florida Product Approval	NA		<input type="checkbox"/>
19	Number of stories	Yes		<input type="checkbox"/>
20	Building height from the established grade to the roofs highest peak	Yes		<input type="checkbox"/>

Floor Plan Including:

21	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies	Yes		<input type="checkbox"/>
22	Raised floor surfaces located more than 30 inches above the floor or grade	NA		<input type="checkbox"/>
23	All exterior and interior shear walls indicated	Yes		<input type="checkbox"/>
24	Shear wall opening shown (Windows, Doors and Garage doors)	Yes		<input type="checkbox"/>
25	Show compliance with Section FBCR 310 Emergency escape and rescue opening shown in each bedroom (net clear opening shown) and Show compliance with Section FBC 1405.13.2 where the opening of an operable window is located more than 72 inches above the finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches above the finished floor of the room in which the window is located. Glazing between the floor and 24 inches shall be fixed or have openings through which a 4-inch-diameter sphere cannot pass.	Yes		<input type="checkbox"/>
26	Safety glazing of glass where needed	Yes		<input type="checkbox"/>
27	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 and chapter 24 of FBCR)	Yes		<input type="checkbox"/>
28	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails	NA		<input type="checkbox"/>
29	Identify accessibility of bathroom (see FBCR SECTION 320)	Yes		<input type="checkbox"/>

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

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable	
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FBCR 403: Foundation Plans

		Select From Drop down		
30	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.	Yes		<input type="checkbox"/>
31	All posts and/or column footing including size and reinforcing	Yes		<input type="checkbox"/>
32	Any special support required by soil analysis such as piling.	NA		<input type="checkbox"/>
33	Assumed load-bearing value of soil Pound Per Square Foot	NA		<input type="checkbox"/>
34	Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3	NA		<input type="checkbox"/>

FBCR 506: CONCRETE SLAB ON GRADE

35	Show Vapor retarder (6mil. Polyethylene with joints sealed 6 inches and sealed)	Yes		<input type="checkbox"/>
36	Show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and Supports	Yes		<input type="checkbox"/>

FBCR 318: PROTECTION AGAINST TERMITES

37	Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or Submit other approved termite protection methods. Protection shall be provided by registered termiticides	Yes		<input type="checkbox"/>
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FBCR 606: Masonry Walls and Stem walls (load bearing & shear Walls)

38	Show all materials making up walls, wall height, and Block size, mortar type	NA		<input type="checkbox"/>
39	Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement	NA		<input type="checkbox"/>

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

Floor Framing System: First and/or second story

40	Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer	NA		<input type="checkbox"/>
41	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or piers	NA		<input type="checkbox"/>
42	Girder type, size and spacing to load bearing walls, stem wall and/or piers	NA		<input type="checkbox"/>
43	Attachment of joist to girder	NA		<input type="checkbox"/>
44	Wind load requirements where applicable	NA		<input type="checkbox"/>
45	Show required under-floor crawl space	NA		<input type="checkbox"/>
46	Show required amount of ventilation opening for under-floor spaces	NA		<input type="checkbox"/>
47	Show required covering of ventilation opening	NA		<input type="checkbox"/>
48	Show the required access opening to access to under-floor spaces	NA		<input type="checkbox"/>
49	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & intermediate of the areas structural panel sheathing	NA		<input type="checkbox"/>
50	Show Draftstopping, Fire caulking and Fire blocking	NA		<input type="checkbox"/>
51	Show fireproofing requirements for garages attached to living spaces, per FBCR section 302.6	NA		<input type="checkbox"/>
52	Provide live and dead load rating of floor framing systems (psf).	NA		<input type="checkbox"/>

FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION

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

53	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	Yes		<input type="checkbox"/>
54	Fastener schedule for structural members per table FBC-R602.3.2 are to be shown	Yes		<input type="checkbox"/>
55	Show wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing	Yes		<input type="checkbox"/>
56	Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems	Yes		<input type="checkbox"/>
57	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FBC-R602.7.	Yes		<input type="checkbox"/>
58	Indicate where pressure treated wood will be placed	Yes		<input type="checkbox"/>
59	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas	Yes		<input type="checkbox"/>
60	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail	Yes		<input type="checkbox"/>

FBCR :ROOF SYSTEMS:

61	Truss design drawing shall meet section FBC-R 802.10. 1 Wood trusses	Yes		<input type="checkbox"/>
62	Include a layout and truss details, signed and sealed by Florida Professional Engineer	Yes		<input type="checkbox"/>
63	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	Yes		<input type="checkbox"/>
64	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details	Yes		<input type="checkbox"/>
65	Provide dead load rating of trusses	Yes		<input type="checkbox"/>

FBCR 802:Conventional Roof Framing Layout

66	Rafter and ridge beams sizes, span, species and spacing	Yes		<input type="checkbox"/>
67	Connectors to wall assemblies' include assemblies' resistance to uplift rating	Yes		<input type="checkbox"/>
68	Valley framing and support details	Yes		<input type="checkbox"/>
69	Provide dead load rating of rafter system	Yes		<input type="checkbox"/>

FBCR 803 ROOF SHEATHING

70	Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness	Yes		<input type="checkbox"/>
71	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas	Yes		<input type="checkbox"/>

ROOF ASSEMBLIES FRC Chapter 9

72	Include all materials which will make up the roof assemblies covering	Yes		<input type="checkbox"/>
73	Submit Florida Product Approval numbers for each component of the roof assemblies covering	Yes		<input type="checkbox"/>

FBCR Chapter 11 Energy Efficiency Code for Residential Building

Residential construction shall comply with this code by using the following compliance methods in the FBCR Chapter 11 Residential buildings compliance methods. Two of the required forms are to be submitted, *N1100.1.1.1 As an alternative to the computerized Compliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form 600A, may be used. All requirements specific to this calculation are located in Sub appendix C to Appendix G. Buildings complying by this alternative shall meet all mandatory requirements of this chapter. Computerized versions of the Alternate Residential Point System Method shall not be acceptable for code compliance.*

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

Select from Drop Down

74	Show the insulation R value for the following areas of the structure	Yes		<input type="checkbox"/>
75	Attic space	Yes		<input type="checkbox"/>
76	Exterior wall cavity	Yes		<input type="checkbox"/>
77	Crawl space	Yes		<input type="checkbox"/>

HVAC information

78	Submit two copies of a Manual J sizing equipment or equivalent computation study	Yes		<input type="checkbox"/>
79	Exhaust fans shown in bathrooms Mechanical exhaust capacity of 50 cfm intermittent or 20 cfm continuous required	Yes		<input type="checkbox"/>
80	Show clothes dryer route and total run of exhaust duct	Yes		<input type="checkbox"/>

Plumbing Fixture layout shown

81	All fixtures waste water lines shall be shown on the foundation plan	Yes		<input type="checkbox"/>
82	Show the location of water heater	Yes		<input type="checkbox"/>

Private Potable Water

83	Pump motor horse power	NA		<input type="checkbox"/>
84	Reservoir pressure tank gallon capacity	NA		<input type="checkbox"/>
85	Rating of cycle stop valve if used	NA		<input type="checkbox"/>

Electrical layout shown including

86	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	Yes		<input type="checkbox"/>
87	Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected by Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A	Yes		<input type="checkbox"/>
88	Show the location of smoke detectors & Carbon monoxide detectors	Yes		<input type="checkbox"/>
89	Show service panel, sub-panel, location(s) and total ampere ratings	Yes		<input type="checkbox"/>
90	On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type. For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an Grounding electrode system. Per the National Electrical Code article 250.52.3	Yes		<input type="checkbox"/>
91	Appliances and HVAC equipment and disconnects	Yes		<input type="checkbox"/>
92	Show all 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed Combination arc-fault circuit interrupter, Protection device.	Yes		<input type="checkbox"/>

Notice Of Commencement:

A notice of commencement form **RECORDED** in the Columbia County Clerk Office is required to be filed with the Building Department **BEFORE ANY INSPECTIONS** can be performed.

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

****ITEMS 95, 96, & 98 Are Required After APPROVAL from the ZONING DEPT.****

Select from Drop down

93	Building Permit Application A current Building Permit Application is to be completed, by following the Checklist all supporting documents must be submitted. There is a \$15.00 application fee. The completed application with attached documents and application fee can be mailed.	Yes		<input type="checkbox"/>
94	Parcel Number The parcel number (Tax ID number) from the Property Appraisers Office (386) 758-1083 is required. A copy of property deed is also required. www.columbiacountyfla.com	Yes		<input type="checkbox"/>
95	Environmental Health Permit or Sewer Tap Approval A copy of a approved Columbia County Environmental Health (386) 758-1058	-		
96	City of Lake City A City Water and/or Sewer letter. Call 386-752-2031	-		
97	Toilet facilities shall be provided for all construction sites	Yes		<input type="checkbox"/>
98	Town of Fort White (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White, an approval land use development letter issued by the Town of Fort is required to be submitted with the application for a building permit.	-		
99	Flood Information: All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting a application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.5.2 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.5.3 of the Columbia County Land Development Regulations (Municode.com)	NA		<input type="checkbox"/>
100	CERTIFIED FINISHED FLOOR ELEVATIONS will be required on any project where the approved FIRM Flood Maps show the property is in a AE, Floodway, and AH flood zones. Additionally One Foot Rise letters are required for AE and AH zones. In the Floodway Flood zones a Zero Rise letter is required.	Yes		<input type="checkbox"/>
101	A Flood development permit is also required for AE, Floodway & AH. Development permit cost is \$50.00	NA		<input type="checkbox"/>
102	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. County Public Works Dept. determines the size and length of every culvert before instillation and completes a final inspection before permanent power is granted. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (\$50.00) Separate Check when issued. If the project is to be located on an F.D.O.T. maintained road, then an F.D.O.T. access permit is required.	Yes		<input type="checkbox"/>
103	911 Address: An application for a 911 address must be applied for and received through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125.	Yes		<input type="checkbox"/>

Ordinance Sec. 90-75. - Construction debris. (e) It shall be unlawful for any person to dispose of or discard solid waste, including construction or demolition debris at any place within the county other than on an authorized disposal site or at the county's solid waste facilities. The temporary storage, not to exceed seven days of solid waste (excluding construction and demolition debris) on the premises where generated or vegetative trash pending disposition as authorized by law or ordinance, shall not be deemed a violation of this section. The temporary storage of construction and demolition debris on the premises where generated or vegetative trash pending disposition as authorized by law or ordinance shall not be deemed in violation of this section; provided, however, such construction and demolition debris must be disposed of in accordance with this article prior to the county's issuance of a certificate of occupancy for the premises. The burning of lumber from a construction or demolition project or vegetative trash when done so with legal and proper permits from the authorized agencies and in accordance with such agencies' rules and regulations, shall not be deemed a violation of this section. No person shall bury, throw, place, or deposit, or cause to be buried, thrown, placed, or deposited, any solid waste, special waste, or debris of any kind into or on any of the public streets, road right-of-way, highways, bridges, alleys, lanes, thoroughfares, waters, canals, or vacant lots or lands within the county. No person shall bury any vegetative trash on any of the public streets, road right-of-way, highways, bridges, lanes, thoroughfares, waters, canals, or lots less than ten acres in size within the county.

Disclosure Statement for Owner Builders:

If you as the Applicant will be acting as your own contractor or owner/builder under section 489.103(7) Florida Statutes, you must submit the required notarized Owner Builder Disclosure Statement form.

****This form can be printed from the Columbia County Website on the Building and Zoning page under Documents. Web address is - <http://www.columbiacountyfla.com/BuildingandZoning.asp>**

Section 105 of the Florida Building Code defines the:

Time limitation of application.

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

Single-family residential dwelling.

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

Permit intent.

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

If work has commenced.

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

New Permit.

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

Work Shall Be:

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

The Fee:

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

Notification:

When the application is approved for permitting the applicant will be notified by phone as to the status by the Columbia County Building & Zoning Department.

Lot 45 R.M.

11/7/2019

To: Columbia County Building Department

A&B Well Drilling, Inc.

5673 NW Lake Jeffery Road
Lake City, FL 32055
Telephone: (386) 758-3409
Cell: (386) 623-3151
Fax: (386) 758-3410
Owner: Bruce Park

Description of Well to be installed for Customer _____ Gibraltar Const _____

Located @ Address: _____ 259 SW Buttercup Dr _____

1 HP 20 GPM submersible pump, 11/4" drop pipe, 85 gallon captive tank, and backflow prevention.
With SRWMD permit.

Bruce Park _____

Sincerely,
Bruce N. Park
President

NOTICE OF COMMENCEMENT

Tax Parcel Identification Number:

15-45-16-03023-545

Clerk's Office Stamp

Inst: 201912026073 Date: 11/07/2019 Time: 2:40PM
Page 1 of 1 B: 1398 P: 1036, P.DeWitt Cason, Clerk of Court
Columbia, County, By: KV
Deputy Clerk

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

1. Description of property (legal description): Lot 45 Rolling Meadows
a) Street (job) Address: 259 SW Buttercup Dr Lake City FL 32024
2. General description of improvements: New Construction SFD
3. Owner information or Lessee information if the Lessee contracted for the improvements:
a) Name and address: Gibraltar Contracting, LLC
b) Name and address of fee simple titleholder (if other than owner):
c) Interest in property owner/builder
4. Contractor Information
a) Name and address: Mark Bauer 20267 NW 248th Way High Springs 32643
b) Telephone No.: 352-283-2002
5. Surety Information (if applicable, a copy of the payment bond is attached):
a) Name and address:
b) Amount of Bond:
c) Telephone No.:
6. Lender
a) Name and address:
b) Phone No.:
7. Person within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes:
a) Name and address:
b) Telephone No.:
8. In addition to himself or herself, Owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes:
a) Name: _____ OF _____
b) Telephone No.: _____
9. Expiration date of Notice of Commencement (the expiration date will be 1 year from the date of recording unless a different date is specified): _____

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

STATE OF FLORIDA
COUNTY OF COLUMBIA

10. _____

Signature of Owner or Lessee, or Owner's or Lessee's Authorized Office/Director/Partner/Manager

Mark Bauer / owner
Printed Name and Signatory's Title/Office

The foregoing instrument was acknowledged before me, a Florida Notary, this 7th day of November, 2019, by:

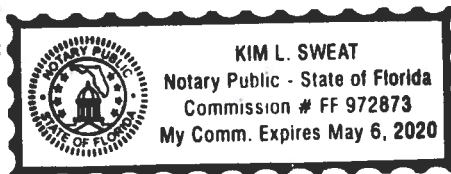
Mark Bauer as owner for Gibraltar Contracting, LLC
(Name of Person) (Type of Authority) (name of party on behalf of whom instrument was executed)

Personally Known X OR Produced Identification _____ Type _____

Notary Signature

Kim L. SWEAT

Notary Stamp or Seal:



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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING	Plastpro	Swinging Doors Exterior	FL-16094.1
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	MI	Single Hung Vinyl Windows	FL-17499
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING	Hardie	Concrete Masonry Siding	FL-13192
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	Tamko	Architectural Shingles	FL-18355-R4
B. NON-STRUCT METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS	Simpson	Wood Connectors / Anchors	
B. WOOD ANCHORS		SP 4	10456.43
C. TRUSS PLATES		HETA 16	11473.3
D. INSULATION FORMS		LLSTA 24	10852.4
E. LINTELS		ABW 66Z	10849.6
F. OTHERS		ABW 44Z	10849.6
6. NEW EXTERIOR			
ENVELOPE PRODUCTS			

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

Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.

NOTES: _____

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

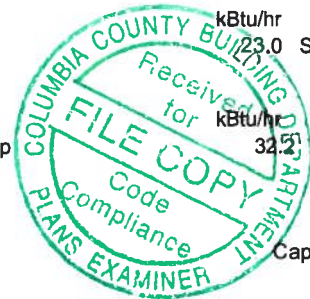
Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 45 Rolling Meadows Street: City, State, Zip: Lake City, FL, 32025 Owner: N/A Design Location: FL, Gainesville	Builder Name: Gibraltar Contracting, Inc. Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)
--	--

<table style="width:100%;"> <tr> <td>1. New construction or existing</td> <td>New (From Plans)</td> </tr> <tr> <td>2. Single family or multiple family</td> <td>Single-family</td> </tr> <tr> <td>3. Number of units, if multiple family</td> <td>1</td> </tr> <tr> <td>4. Number of Bedrooms</td> <td>4</td> </tr> <tr> <td>5. Is this a worst case?</td> <td>No</td> </tr> <tr> <td>6. Conditioned floor area above grade (ft²)</td> <td>1771</td> </tr> <tr> <td>Conditioned floor area below grade (ft²)</td> <td>0</td> </tr> <tr> <td>7. Windows (353.3 sqft.)</td> <td>Description Area</td> </tr> <tr> <td>a. U-Factor:</td> <td>Dbl, U=0.36 353.33 ft²</td> </tr> <tr> <td>SHGC:</td> <td>SHGC=0.25</td> </tr> <tr> <td>b. U-Factor:</td> <td>N/A ft²</td> </tr> <tr> <td>SHGC:</td> <td></td> </tr> <tr> <td>c. U-Factor:</td> <td>N/A ft²</td> </tr> <tr> <td>SHGC:</td> <td></td> </tr> <tr> <td>d. U-Factor:</td> <td>N/A ft²</td> </tr> <tr> <td>SHGC:</td> <td></td> </tr> <tr> <td>Area Weighted Average Overhang Depth:</td> <td>3.985 ft.</td> </tr> <tr> <td>Area Weighted Average SHGC:</td> <td>0.250</td> </tr> <tr> <td>8. Floor Types (1771.0 sqft.)</td> <td>Insulation Area</td> </tr> <tr> <td>a. Slab-On-Grade Edge Insulation</td> <td>R=0.0 1771.00 ft²</td> </tr> <tr> <td>b. N/A</td> <td>R= ft²</td> </tr> <tr> <td>c. N/A</td> <td>R= ft²</td> </tr> </table>	1. New construction or existing	New (From Plans)	2. Single family or multiple family	Single-family	3. Number of units, if multiple family	1	4. Number of Bedrooms	4	5. Is this a worst case?	No	6. Conditioned floor area above grade (ft²)	1771	Conditioned floor area below grade (ft²)	0	7. Windows (353.3 sqft.)	Description Area	a. U-Factor:	Dbl, U=0.36 353.33 ft²	SHGC:	SHGC=0.25	b. U-Factor:	N/A ft²	SHGC:		c. U-Factor:	N/A ft²	SHGC:		d. U-Factor:	N/A ft²	SHGC:		Area Weighted Average Overhang Depth:	3.985 ft.	Area Weighted Average SHGC:	0.250	8. Floor Types (1771.0 sqft.)	Insulation Area	a. Slab-On-Grade Edge Insulation	R=0.0 1771.00 ft²	b. N/A	R= ft²	c. N/A	R= ft²	<table style="width:100%;"> <tr> <td>9. Wall Types (1906.8 sqft.)</td> <td>Insulation Area</td> </tr> <tr> <td>a. Frame - Wood, Exterior</td> <td>R=13.0 1615.80 ft²</td> </tr> <tr> <td>b. Frame - Wood, Adjacent</td> <td>R=13.0 291.00 ft²</td> </tr> <tr> <td>c. N/A</td> <td>R= ft²</td> </tr> <tr> <td>d. N/A</td> <td>R= ft²</td> </tr> <tr> <td>10. Ceiling Types (1860.0 sqft.)</td> <td>Insulation Area</td> </tr> <tr> <td>a. Under Attic (Vented)</td> <td>R=38.0 1860.00 ft²</td> </tr> <tr> <td>b. N/A</td> <td>R= ft²</td> </tr> <tr> <td>c. N/A</td> <td>R= ft²</td> </tr> <tr> <td>11. Ducts</td> <td>R ft²</td> </tr> <tr> <td>a. Sup: Attic, Ret: Attic, AH: Garage</td> <td>6 440.75</td> </tr> <tr> <td>12. Cooling systems</td> <td>kBtu/hr Efficiency</td> </tr> <tr> <td>a. Central Unit</td> <td>23.0 SEER:15.00</td> </tr> <tr> <td>13. Heating systems</td> <td>kBtu/hr Efficiency</td> </tr> <tr> <td>a. Electric Heat Pump</td> <td>32.2 HSPF:8.20</td> </tr> <tr> <td>14. Hot water systems</td> <td></td> </tr> <tr> <td>a. Electric</td> <td>Cap: 40 gallons</td> </tr> <tr> <td>b. Conservation features</td> <td>EF: 0.920</td> </tr> <tr> <td>15. Credits</td> <td>CF, CV, Pstat</td> </tr> </table>	9. Wall Types (1906.8 sqft.)	Insulation Area	a. Frame - Wood, Exterior	R=13.0 1615.80 ft²	b. Frame - Wood, Adjacent	R=13.0 291.00 ft²	c. N/A	R= ft²	d. N/A	R= ft²	10. Ceiling Types (1860.0 sqft.)	Insulation Area	a. Under Attic (Vented)	R=38.0 1860.00 ft²	b. N/A	R= ft²	c. N/A	R= ft²	11. Ducts	R ft²	a. Sup: Attic, Ret: Attic, AH: Garage	6 440.75	12. Cooling systems	kBtu/hr Efficiency	a. Central Unit	23.0 SEER:15.00	13. Heating systems	kBtu/hr Efficiency	a. Electric Heat Pump	32.2 HSPF:8.20	14. Hot water systems		a. Electric	Cap: 40 gallons	b. Conservation features	EF: 0.920	15. Credits	CF, CV, Pstat
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Glass/Floor Area: 0.200	Total Proposed Modified Loads: 53.07	PASS
	Total Baseline Loads: 54.82	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: <u> </u> DATE: <u>11/5/2019</u> I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: <u> </u> DATE: <u> </u>	Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes. BUILDING OFFICIAL: <u> </u> DATE: <u> </u>
---	---



- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Lot 45 Rolling Meadows	Bedrooms:	4	Address Type:	Lot Information
Building Type:	User	Conditioned Area:	1771	Lot #	45
Owner Name:	N/A	Total Stories:	1	Block/Subdivision:	Rolling Meadows
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	Gibraltar Contracting, Inc.	Rotate Angle:	0	Street:	
Permit Office:	Columbia County	Cross Ventilation:	Yes	County:	Columbia
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	Lake City , FL , 32025
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

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

BLOCKS

Number	Name	Area	Volume
1	Block1	1771	15939

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	1771	15939	Yes	4	4	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulation	Main	210 ft	0	1771 ft²	----	0	0	1

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Hip	Composition shingles	2051 ft²	0 ft²	Medium	Y	0.96	No	0.9	No	0	30.3

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	1771 ft²	Y	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	38	Double Batt	1860 ft²	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS

✓	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
___	1	S	Exterior	Frame - Wood	Main	13	12	8	10		126.7 ft²		0.23	0.75	0
___	2	S	Exterior	Frame - Wood	Main	13	8	0	10		80.0 ft²		0.23	0.75	0
___	3	E	Exterior	Frame - Wood	Main	13	2	4	10		23.3 ft²		0.23	0.75	0
___	4	S	Exterior	Frame - Wood	Main	13	10	8	9		96.0 ft²		0.23	0.75	0
___	5	E	Exterior	Frame - Wood	Main	13	35	6	9		319.5 ft²		0.23	0.75	0
___	6	N	Exterior	Frame - Wood	Main	13	37	6	9		337.5 ft²		0.23	0.75	0
___	7	W	Exterior	Frame - Wood	Main	13	6		9		54.0 ft²		0.23	0.75	0
___	8	E	Exterior	Frame - Wood	Main	13	8		10		80.0 ft²		0.23	0.75	0
___	9	N	Exterior	Frame - Wood	Main	13	16	10	10		168.3 ft²		0.23	0.75	0
___	10	E	Exterior	Frame - Wood	Main	13	5		10		50.0 ft²		0.23	0.75	0
___	11	W	Exterior	Frame - Wood	Main	13	31	2	9		280.5 ft²		0.23	0.75	0
___	12	W	Garage	Frame - Wood	Main	13	10	4	9		93.0 ft²		0.23	0.75	0
___	13	S	Garage	Frame - Wood	Main	13	22		9		198.0 ft²		0.23	0.75	0

DOORS

✓	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
___	1	S	Insulated	Main	None	.46	3		6	8	20 ft²
___	2	S	Insulated	Main	None	.46	3		6	8	20 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

✓	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
___	1	S	4	Vinyl	Low-E Double	Yes	0.36	0.25	N	16.0 ft²	1 ft 0 in	1 ft 0 in	None	None
___	2	S	2	Vinyl	Low-E Double	Yes	0.36	0.25	N	13.3 ft²	7 ft 6 in	1 ft 6 in	None	None
___	3	S	2	Vinyl	Low-E Double	Yes	0.36	0.25	N	5.0 ft²	7 ft 6 in	0 ft 6 in	None	None
___	4	S	1	Vinyl	Low-E Double	Yes	0.36	0.25	N	36.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___	5	E	5	Vinyl	Low-E Double	Yes	0.36	0.25	N	20.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___	6	E	5	Vinyl	Low-E Double	Yes	0.36	0.25	N	6.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___	7	N	6	Vinyl	Low-E Double	Yes	0.36	0.25	N	45.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___	8	N	6	Vinyl	Low-E Double	Yes	0.36	0.25	N	25.0 ft²	1 ft 6 in	0 ft 6 in	None	None
___	9	N	6	Vinyl	Low-E Double	Yes	0.36	0.25	N	45.0 ft²	1 ft 6 in	0 ft 6 in	None	None
___	10	N	6	Vinyl	Low-E Double	Yes	0.36	0.25	N	15.0 ft²	1 ft 6 in	0 ft 6 in	None	None
___	11	W	7	Vinyl	Low-E Double	Yes	0.36	0.25	N	20.0 ft²	5 ft 6 in	0 ft 6 in	None	None
___	12	E	8	Vinyl	Low-E Double	Yes	0.36	0.25	N	20.0 ft²	7 ft 6 in	0 ft 6 in	None	None
___	13	N	9	Vinyl	Low-E Double	Yes	0.36	0.25	N	72.0 ft²	9 ft 6 in	0 ft 6 in	None	None
___	14	W	11	Vinyl	Low-E Double	Yes	0.36	0.25	N	15.0 ft²	1 ft 6 in	0 ft 6 in	None	None

INPUT SUMMARY CHECKLIST REPORT

GARAGE												
✓	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation						
	1	502.159 ft²	502.159 ft²	60.833 ft	9 ft	1						

INFILTRATION								
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000286	1328.3	72.92	137.14	.1128	5

HEATING SYSTEM									
✓	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts		
	1	Electric Heat Pump/	None	HSPF:8.2	32.2 kBtu/hr	1	sys#1		

COOLING SYSTEM									
✓	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
	1	Central Unit/	None	SEER: 15	22.97 kBtu/hr	690 cfm	0.85	1	sys#1

HOT WATER SYSTEM									
✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
	1	Electric	None	Garage	0.92	40 gal	40 gal	120 deg	None

SOLAR HOT WATER SYSTEM							
✓	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
	None	None			ft²		

DUCTS														
✓	#	--- Supply ---			--- Return ---		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat Cool	
	1	Attic	6	440.75 f	Attic	88.15 ft²	Default Leakage	Garage	(Default) c	(Default) c			1	1

INPUT SUMMARY CHECKLIST REPORT

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

Cooling	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input type="checkbox"/> Dec
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input type="checkbox"/> Dec

Thermostat Schedule: HERS 2006 Reference

Hours

Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66

MASS

Mass Type	Area	Thickness	Furniture Fraction	Space
Default(8 lbs/sq.ft.	0 ft²	0 ft	0.3	Main

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD**ESTIMATED ENERGY PERFORMANCE INDEX* = 97****The lower the Energy Performance Index, the more efficient the home.**

1. New home or, addition	1. <u>New (From Plans)</u>	12. Ducts, location & insulation level
2. Single-family or multiple-family	2. <u>Single-family</u>	a) Supply ducts R <u>6.0</u>
3. No. of units (if multiple-family)	3. <u>1</u>	b) Return ducts R <u>6.0</u>
4. Number of bedrooms	4. <u>4</u>	c) AHU location <u>Garage</u>
5. Is this a worst case? (yes/no)	5. <u>No</u>	13. Cooling system: Capacity <u>23.0</u>
6. Conditioned floor area (sq. ft.)	6. <u>1771</u>	a) Split system SEER <u> </u>
7. Windows, type and area		b) Single package SEER <u> </u>
a) U-factor:(weighted average)	7a. <u>0.360</u>	c) Ground/water source SEER/COP <u> </u>
b) Solar Heat Gain Coefficient (SHGC)	7b. <u>0.250</u>	d) Room unit/PTAC EER <u> </u>
c) Area	7c. <u>353.3</u>	e) Other <u>15.0</u>
8. Skylights		14. Heating system: Capacity <u>32.2</u>
a) U-factor:(weighted average)	8a. <u>NA</u>	a) Split system heat pump HSPF <u> </u>
b) Solar Heat Gain Coefficient (SHGC)	8b. <u>NA</u>	b) Single package heat pump HSPF <u> </u>
9. Floor type, insulation level:		c) Electric resistance COP <u> </u>
a) Slab-on-grade (R-value)	9a. <u>0.0</u>	d) Gas furnace, natural gas AFUE <u> </u>
b) Wood, raised (R-value)	9b. <u> </u>	e) Gas furnace, LPG AFUE <u> </u>
c) Concrete, raised (R-value)	9c. <u> </u>	f) Other <u>8.20</u>
10. Wall type and insulation:		15. Water heating system
A. Exterior:		a) Electric resistance EF <u>0.92</u>
1. Wood frame (Insulation R-value)	10A1. <u>13.0</u>	b) Gas fired, natural gas EF <u> </u>
2. Masonry (Insulation R-value)	10A2. <u> </u>	c) Gas fired, LPG EF <u> </u>
B. Adjacent:		d) Solar system with tank EF <u> </u>
1. Wood frame (Insulation R-value)	10B1. <u>13.0</u>	e) Dedicated heat pump with tank EF <u> </u>
2. Masonry (Insulation R-value)	10B2. <u> </u>	f) Heat recovery unit HeatRec% <u> </u>
11. Ceiling type and insulation level		g) Other <u> </u>
a) Under attic	11a. <u>38.0</u>	16. HVAC credits claimed (Performance Method)
b) Single assembly	11b. <u> </u>	a) Ceiling fans <u>Yes</u>
c) Knee walls/skylight walls	11c. <u> </u>	b) Cross ventilation <u>Yes</u>
d) Radiant barrier installed	11d. <u>Yes</u>	c) Whole house fan <u>No</u>
		d) Multizone cooling credit <u> </u>
		e) Multizone heating credit <u> </u>
		f) Programmable thermostat <u>Yes</u>

*Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

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

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: Lake City, FL 32025

Envelope Leakage Test Report (Blower Door Test)
Residential Prescriptive, Performance or ERI Method Compliance
2017 Florida Building Code, Energy Conservation, 6th Edition

Jurisdiction:

Permit #:

Job Information

Builder: Gibraltar Contracting, Inc.

Community:

Lot: 45

Address:

City: Lake City

State: FL

Zip: 32025

Air Leakage Test Results *Passing results must meet either the Performance, Prescriptive, or ERI Method*



PRESCRIPTIVE METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Climate Zones 1 and 2.



PERFORMANCE or ERI METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on Form R405-2017 (Performance) or R406-2017 (ERI), section labeled as infiltration, sub-section ACH50.

ACH(50) specified on Form R405-2017-Energy Calc (Performance) or R406-2017 (ERI):

5.000

$$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div 15939 = \text{ACH}(50)$$



PASS



When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department.

Method for calculating building volume:



Retrieved from architectural plans



Code software calculated



Field measured and calculated

R402.4.1.2 Testing. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7) *Florida Statutes* or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the *code official*. Testing shall be performed at any time after creation of all penetrations of the *building thermal envelope*.

During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
2. Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
3. Interior doors, if installed at the time of the test, shall be open.
4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
5. Heating and cooling systems, if installed at the time of the test, shall be turned off.
6. Supply and return registers, if installed at the time of the test, shall be fully open.

Testing Company

Company Name: _____ Phone: _____

I hereby verify that the above Air Leakage results are in accordance with the 2017 6th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.

Signature of Tester: _____ Date of Test: _____

Printed Name of Tester: _____

License/Certification #: _____ Issuing Authority: _____

Residential System Sizing Calculation

Summary

N/A

Project Title:
Lot 45 Rolling Meadows

Lake City, FL 32025

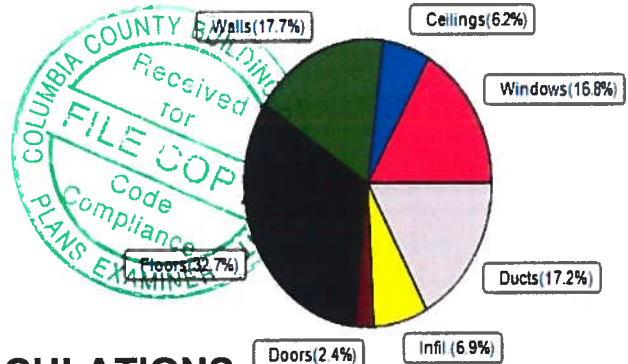
10/26/2019

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)			
Winter design temperature(TMY3 99%)	30 F	Summer design temperature(TMY3 99%)	94 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	40 F	Summer temperature difference	19 F
Total heating load calculation	30302 Btuh	Total cooling load calculation	21238 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	106.3 32200	Sensible (SHR = 0.85)	108.8 19520
Heat Pump + Auxiliary(0.0kW)	106.3 32200	Latent	104.3 3445
		Total (Electric Heat Pump)	108.1 22965

WINTER CALCULATIONS

Winter Heating Load (for 1771 sqft)

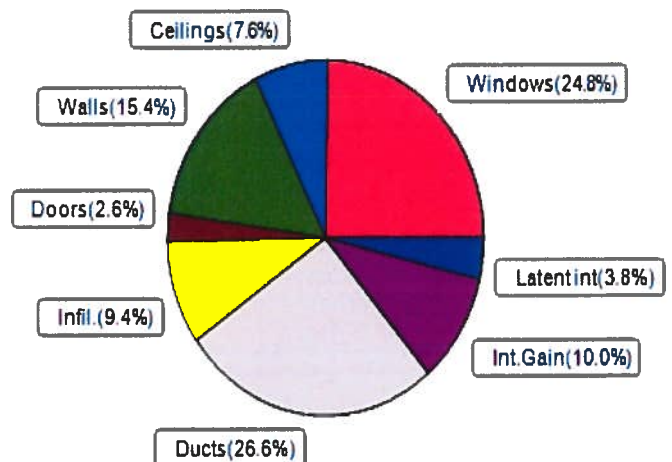
Load component			Load	
Window total	353	sqft	5088	Btuh
Wall total	1513	sqft	5373	Btuh
Door total	40	sqft	736	Btuh
Ceiling total	1860	sqft	1888	Btuh
Floor total	1771	sqft	9912	Btuh
Infiltration	48	cfm	2099	Btuh
Duct loss			5205	Btuh
Subtotal			30302	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			30302	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1771 sqft)

Load component			Load	
Window total	353	sqft	5259	Btuh
Wall total	1513	sqft	3269	Btuh
Door total	40	sqft	552	Btuh
Ceiling total	1860	sqft	1605	Btuh
Floor total			0	Btuh
Infiltration	36	cfm	748	Btuh
Internal gain			2120	Btuh
Duct gain			4383	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			17937	Btuh
Latent gain(ducts)			1261	Btuh
Latent gain(infiltration)			1241	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			800	Btuh
Total latent gain			3302	Btuh
TOTAL HEAT GAIN			21238	Btuh



8th Edition

EnergyGauge® System Sizing

PREPARED BY: _____

DATE: _____

Ans/2019

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

N/A

Project Title:
Lot 45 Rolling Meadows
Building Type: User

Lake City, FL 32025

10/26/2019

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 40.0 F (TMY3 99%)

Component Loads for Whole House

Window	Panes/Type	Frame	U	Orientation	Area(sqft)	X	HTM=	Load
1	2, NFRC 0.25	Vinyl	0.36	S	16.0		14.4	230 Btuh
2	2, NFRC 0.25	Vinyl	0.36	S	13.3		14.4	192 Btuh
3	2, NFRC 0.25	Vinyl	0.36	S	5.0		14.4	72 Btuh
4	2, NFRC 0.25	Vinyl	0.36	S	36.0		14.4	518 Btuh
5	2, NFRC 0.25	Vinyl	0.36	E	20.0		14.4	288 Btuh
6	2, NFRC 0.25	Vinyl	0.36	E	6.0		14.4	86 Btuh
7	2, NFRC 0.25	Vinyl	0.36	N	45.0		14.4	648 Btuh
8	2, NFRC 0.25	Vinyl	0.36	N	25.0		14.4	360 Btuh
9	2, NFRC 0.25	Vinyl	0.36	N	45.0		14.4	648 Btuh
10	2, NFRC 0.25	Vinyl	0.36	N	15.0		14.4	216 Btuh
11	2, NFRC 0.25	Vinyl	0.36	W	20.0		14.4	288 Btuh
12	2, NFRC 0.25	Vinyl	0.36	E	20.0		14.4	288 Btuh
13	2, NFRC 0.25	Vinyl	0.36	N	72.0		14.4	1037 Btuh
14	2, NFRC 0.25	Vinyl	0.36	W	15.0		14.4	216 Btuh
Window Total					353.3(sqft)			5088 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area	X	HTM=	Load
1	Frame - Wood	- Ext	(0.089)	13.0/0.0	91		3.55	322 Btuh
2	Frame - Wood	- Ext	(0.089)	13.0/0.0	42		3.55	148 Btuh
3	Frame - Wood	- Ext	(0.089)	13.0/0.0	23		3.55	83 Btuh
4	Frame - Wood	- Ext	(0.089)	13.0/0.0	80		3.55	284 Btuh
5	Frame - Wood	- Ext	(0.089)	13.0/0.0	294		3.55	1042 Btuh
6	Frame - Wood	- Ext	(0.089)	13.0/0.0	208		3.55	737 Btuh
7	Frame - Wood	- Ext	(0.089)	13.0/0.0	34		3.55	121 Btuh
8	Frame - Wood	- Ext	(0.089)	13.0/0.0	60		3.55	213 Btuh
9	Frame - Wood	- Ext	(0.089)	13.0/0.0	96		3.55	342 Btuh
10	Frame - Wood	- Ext	(0.089)	13.0/0.0	50		3.55	178 Btuh
11	Frame - Wood	- Ext	(0.089)	13.0/0.0	266		3.55	943 Btuh
12	Frame - Wood	- Adj	(0.089)	13.0/0.0	93		3.55	330 Btuh
13	Frame - Wood	- Adj	(0.089)	13.0/0.0	178		3.55	632 Btuh
Wall Total					1514(sqft)			5373 Btuh
Doors	Type	Storm	Ueff.		Area	X	HTM=	Load
1	Insulated - Exterior, n		(0.460)		20		18.4	368 Btuh
2	Insulated - Garage, n		(0.460)		20		18.4	368 Btuh
Door Total					40(sqft)			736Btuh
Ceilings	Type/Color/Surface		Ueff.	R-Value	Area	X	HTM=	Load
1	Vented Attic/L/Shing		(0.025)	38.0/0.0	1860		1.0	1888 Btuh
Ceiling Total					1860(sqft)			1888Btuh
Floors	Type		Ueff.	R-Value	Size	X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	210.0 ft(perim.)		47.2	9912 Btuh
Floor Total					1771 sqft			9912 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

N/A

Lake City, FL 32025

Project Title:
Lot 45 Rolling Meadows
Building Type: User

10/26/2019

	Envelope Subtotal:						22998 Btuh
Infiltration	Type Natural	Wholehouse ACH 0.18	Volume(cuft) 15939	Wall Ratio 1.00	CFM= 47.9		2099 Btuh
Duct load	Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.207)						5205 Btuh
All Zones	Sensible Subtotal All Zones						30302 Btuh

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sensible Heat Loss Total Heat Loss	30302 Btuh 0 Btuh 30302 Btuh
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EQUIPMENT

1. Electric Heat Pump	#	32200 Btuh
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Key: Window types - NFRC (Requires U-Factor and Shading coefficient(SHGC) of glass as numerical values)
or - Glass as 'Clear' or 'Tint' (Uses U-Factor and SHGC defaults)
U - (Window U-Factor)
HTM - (ManualJ Heat Transfer Multiplier)



Version 8

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

N/A

Project Title:
Lot 45 Rolling Meadows

Lake City, FL 32025

10/26/2019

Reference City: Gainesville, FL

Temperature Difference: 19.0F(TMY3 99%) Humidity difference: 51gr.

Component Loads for Whole House

Window	Type*						Overhang		Window Area(sqft)			HTM		Load	
	Panes	SHGC	U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2 NFRC	0.25, 0.36	No	No	S		1.0ft.	1.0ft.	16.0	16.0	0.0	12	14	194	Btuh
2	2 NFRC	0.25, 0.36	No	No	S		7.5ft.	1.5ft.	13.3	13.3	0.0	12	14	161	Btuh
3	2 NFRC	0.25, 0.36	No	No	S		7.5ft.	0.5ft.	5.0	5.0	0.0	12	14	60	Btuh
4	2 NFRC	0.25, 0.36	No	No	S		1.5ft.	1.0ft.	36.0	36.0	0.0	12	14	436	Btuh
5	2 NFRC	0.25, 0.36	No	No	E		1.5ft.	1.0ft.	20.0	1.0	19.0	12	31	600	Btuh
6	2 NFRC	0.25, 0.36	No	No	E		1.5ft.	1.0ft.	6.0	0.5	5.5	12	31	176	Btuh
7	2 NFRC	0.25, 0.36	No	No	N		1.5ft.	1.0ft.	45.0	0.0	45.0	12	12	544	Btuh
8	2 NFRC	0.25, 0.36	No	No	N		1.5ft.	0.5ft.	25.0	0.0	25.0	12	12	302	Btuh
9	2 NFRC	0.25, 0.36	No	No	N		1.5ft.	0.5ft.	45.0	0.0	45.0	12	12	544	Btuh
10	2 NFRC	0.25, 0.36	No	No	N		1.5ft.	0.5ft.	15.0	0.0	15.0	12	12	181	Btuh
11	2 NFRC	0.25, 0.36	No	No	W		5.5ft.	0.5ft.	20.0	12.2	7.8	12	31	389	Btuh
12	2 NFRC	0.25, 0.36	No	No	E		7.5ft.	0.5ft.	20.0	17.2	2.8	12	31	295	Btuh
13	2 NFRC	0.25, 0.36	No	No	N		9.5ft.	0.5ft.	72.0	0.0	72.0	12	12	871	Btuh
14	2 NFRC	0.25, 0.36	No	No	W		1.5ft.	0.5ft.	15.0	2.2	12.8	12	31	422	Btuh
	Excursion													81	Btuh
	Window Total								353 (sqft)					5259 Btuh	
Walls	Type	U-Value		R-Value		Area(sqft)		HTM		Load					
1	Frame - Wood - Ext		0.09		13.0/0.0		90.7		2.3		205 Btuh				
2	Frame - Wood - Ext		0.09		13.0/0.0		41.7		2.3		94 Btuh				
3	Frame - Wood - Ext		0.09		13.0/0.0		23.3		2.3		53 Btuh				
4	Frame - Wood - Ext		0.09		13.0/0.0		80.0		2.3		181 Btuh				
5	Frame - Wood - Ext		0.09		13.0/0.0		293.5		2.3		664 Btuh				
6	Frame - Wood - Ext		0.09		13.0/0.0		207.5		2.3		470 Btuh				
7	Frame - Wood - Ext		0.09		13.0/0.0		34.0		2.3		77 Btuh				
8	Frame - Wood - Ext		0.09		13.0/0.0		60.0		2.3		136 Btuh				
9	Frame - Wood - Ext		0.09		13.0/0.0		96.3		2.3		218 Btuh				
10	Frame - Wood - Ext		0.09		13.0/0.0		50.0		2.3		113 Btuh				
11	Frame - Wood - Ext		0.09		13.0/0.0		265.5		2.3		601 Btuh				
12	Frame - Wood - Adj		0.09		13.0/0.0		93.0		1.7		157 Btuh				
13	Frame - Wood - Adj		0.09		13.0/0.0		178.0		1.7		300 Btuh				
	Wall Total								1513 (sqft)				3269 Btuh		
Doors	Type	Area (sqft)		HTM		Load									
1	Insulated - Exterior		20.0		13.8	276 Btuh									
2	Insulated - Garage		20.0		13.8	276 Btuh									
	Door Total								40 (sqft)				552 Btuh		
Ceilings	Type/Color/Surface	U-Value		R-Value		Area(sqft)		HTM		Load					
1	Vented Attic/Light/Shingle/RB		0.025		38.0/0.0		1860.0		0.86		1605 Btuh				
	Ceiling Total								1860 (sqft)				1605 Btuh		
Floors	Type	R-Value		Size		HTM		Load							
1	Slab On Grade		0.0		1771 (ft-perimeter)		0.0		0 Btuh						
	Floor Total								1771.0 (sqft)				0 Btuh		
	Envelope Subtotal:											10686 Btuh			

Manual J Summer Calculations

Residential Load - Component Details (continued)

N/A

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A
Lot 45 Rolling Meadows

Lake City, FL 32025

10/26/2019

Infiltration	Type Natural	Average ACH 0.14	Volume(cuft) 15939	Wall Ratio 1	CFM= 35.9	Load 748 Btuh
Internal gain		Occupants 4	Btuh/occupant X 230	Appliance +	1200	Load 2120 Btuh
	Sensible Envelope Load:					13553 Btuh
Duct load	Average sealed,Supply(R6.0-Attic), Return(R6.0-Attic)				(DGM of 0.323)	4383 Btuh
	Sensible Load All Zones					17937 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

N/A

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A
Lot 45 Rolling Meadows

Lake City, FL 32025

10/26/2019

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	13553 Btuh
	Sensible Duct Load	4383 Btuh
	Total Sensible Zone Loads	17937 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	17937 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	1241 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	1261 Btuh
	Latent occupant gain (4.0 people @ 200 Btuh per person)	800 Btuh
	Latent other gain	0 Btuh
	Latent total gain	3302 Btuh
	TOTAL GAIN	21238 Btuh

EQUIPMENT

1. Central Unit	#	22965 Btuh
-----------------	---	------------

*Key: Window types (Panels - Number and type of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value)

(U - Window U-Factor)

(InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))

- For Blinds: Assume medium color, half closed

For Draperies: Assume medium weave, half closed

For Roller shades: Assume translucent, half closed

(IS - Insect screen: none(N), Full(F) or Half(½))

(Ornt - compass orientation)



Version 8



Unit width (in)

Number of anchors required. Units anchored using 6d nails.

Number of anchors required. Units anchored using 6d nails.

Number of anchors required. Units anchored with #8 wood screw

Number of anchors required. Units anchored with #8 wood screw

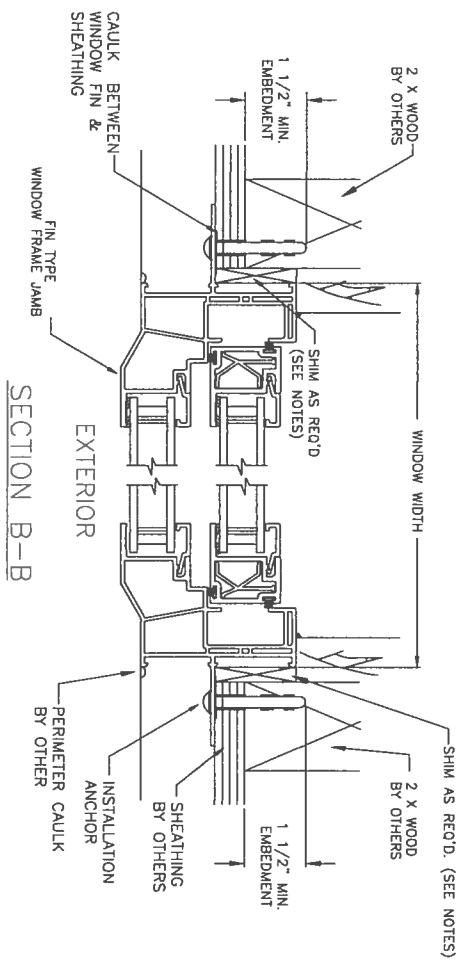
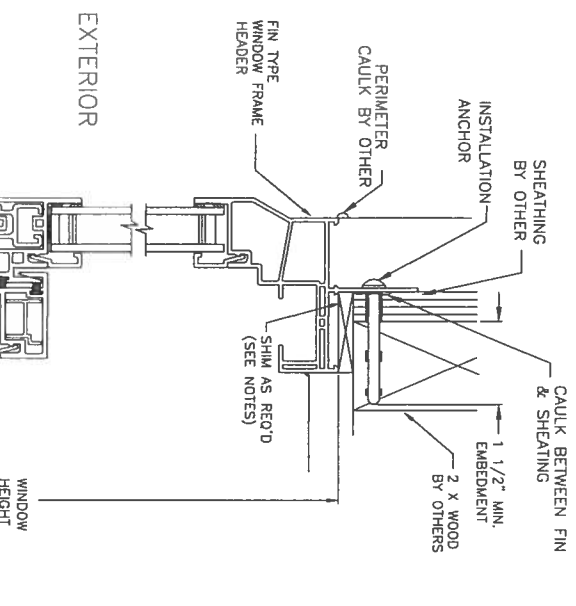
- 1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
- 2) OPENING TO BE DESIGNED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. OPENING DESIGN IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- 3) CONTRACTOR IS RESPONSIBLE FOR MAINTAINING STRUCTURAL INTEGRITY OF WINDOW OPENING AND ALL WOOD FRAMING AROUND WINDOW.
- 4) WINDOW FRAME MATERIAL TO BE PVC.
- 5) ALL FASTENERS SHALL BE MADE OF CORROSION RESISTANT MATERIAL.
- 6) SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
- 7) INSTALL UNITS IN SPRUCE PINE FIR OR BETTER USING 6d .120" DIAMETER NAIL OR #8 WOOD SCREWS LOCATE ANCHORS 6" FROM EACH CORNER AND 17" MAX O.C.THEREAFTER.
- 8) APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED ON THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
- 9) CAULK BEHIND WINDOW FLANGE AT HEAD, SILL AND JAMBS.
- 10) USE CAULK FOR PERIMETER SEAL AROUND EXTERIOR OF WINDOW.
- 11) WHERE WATER RESISTANCE TEST REQUIREMENT OF 15% OF DESIGN LOAD APPLIES, POSITIVE DESIGN PRESSURE IS LIMITED TO 35PSF DUE TO WATER TEST PRESSURE OF 5.25PSF ACHIEVED IN TEST.
- 12) IF EXACT WINDOW SIZE IS NOT LISTED USE NEXT LARGER SIZE FOR THE APPROPRIATE DESIGN PRESSURE.
- 13) UNITS MUST BE GLAZED IN ACCORDANCE WITH ASTM E1300--04 AND MAY VARY DEPENDING UPON SIZE.

REVISIONS		
REV	DESCRIPTION	DATE
A	REVISED PER 2007 FBC	B/13/08
B	ADDED ANCHOR CHARTS	01/25/12
C	REVISED NAME	10/15/13

MI WINDOWS AND DOORS LLC			
1001 W. CROSBY RD. CARROLLTON, TX 75006			
SERIES GA 7050 RECTANGULAR PVC SH TILT WINDOW -- 53 1/8 X 72 INSTALLATION DETAILS AND DESIGN PRESSURE CHART			
DRAWN:	DWG NO	REV	
R.L.	08-00248	C	
SCALE	DATE 9/09/07	SHEET 1	OF 2

SIGNED: 10/18/2013

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER 2007 FBC	8/13/08	R.L.
B	ADDED ANCHOR CHARTS	01/25/12	R.L.
C	REVISED NAME	10/15/13	R.L.



SECTION A-A

Horizontal	
Window Horizontal Cell Size	Window Horizontal I.F.D.
1-6	17 1/2
1-8	19 1/2
2-0	23 1/2
2-4	27 1/2
2-6	29 1/2
2-8	31 3/4
3-0	35 1/2
3-4	39 1/2
3-6	41 1/2
3-8	43 1/2
4-0	47 1/2
SPCL	53 1/8

Vertical	
Window Vertical Cell Size	Window Vertical I.F.D.
2-4	27 1/2
3-0	35 1/2
3-6	43 1/2
4-0	47 1/2
4-4	51 1/2
4-8	55 1/2
5-0	59 3/4
SPCL	72

MI WINDOWS AND DOORS LLC

1001 W. GROSBY RD.
CARROLLTON, TX 75006

SERIES GA 7050 RECTANGULAR PVC SH
TILT WINDOW - 53 1/8 X 72
INSTALLATION DETAILS AND DESIGN PRESSURE CHART

SCALE: NTS

DATE: 9/09/07

SHEET: 2 OF 2

DRAWN: R.L.

DWG NO: 08-0024B

REV: C

APPROVED

DATE: 10/15/13

REVISIONS

Professional Engineer

State of Texas

No. 92614

Michael R. L. Thomas



plastro

5200 W. CENTURY BLVD.
LOS ANGELES, CA 90045

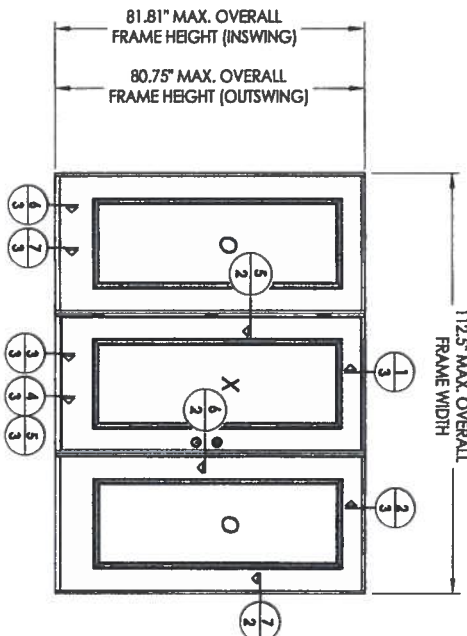
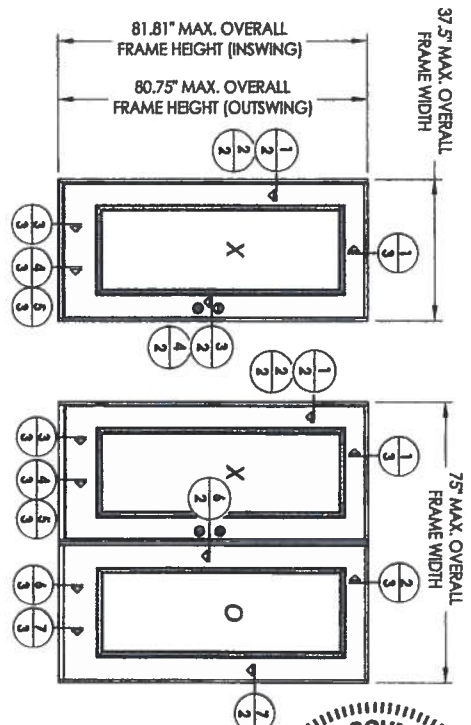
GLAZED FIBERGLASS SINGLE DOOR w/ or w/out SIDELITE(S) Inswing / Outswinging "IMPACT"

GENERAL NOTES

1. This product anchoring drawing has been developed and is in compliance with the 6th Edition (2017) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ). See the Certification Agency Certificate for tests, specifications and rating.
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in the "HVHZ" this product complies with Section 1626 of the Florida Building Code and does not require an impact resistant covering.
4. When used in areas outside of the "HVHZ" requiring wind borne debris protection this product complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets inside level "D" and includes Wind Zone 4 as defined in ASTM E 1796 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
5. For 2x stud construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
6. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
7. Outswing configurations utilizing the high dam sill (see Section 5/3), meet water infiltration requirements for "HVHZ". All other configurations do not meet the water infiltration requirements for the "HVHZ" and must be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.

TABLE OF CONTENTS

SHEET #	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Horizontal cross sections
3	Vertical cross sections
4	Buck anchoring & bill of materials
5	Frame anchoring & glazing details



CONFIGURATION	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF)
X	37.5" x 81.81"	+50.0 -50.0
XO/OX	75.0" x 81.81"	+50.0 -50.0
OXO	112.5" x 81.81"	+50.0 -50.0

DATE	12/10/12
SCALE	N.T.S.
CHK. BY	JK
DRWG. NO.	FL-16094.1
SHEET	1 OF 5

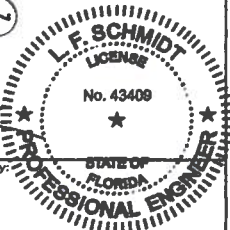
NO.	DATE	REVISIONS
2	10/14/17	UPDATE TO 6TH ED. (2017) FBC
1	8/04/14	CLARIFIED INSTALLATION DETAILS

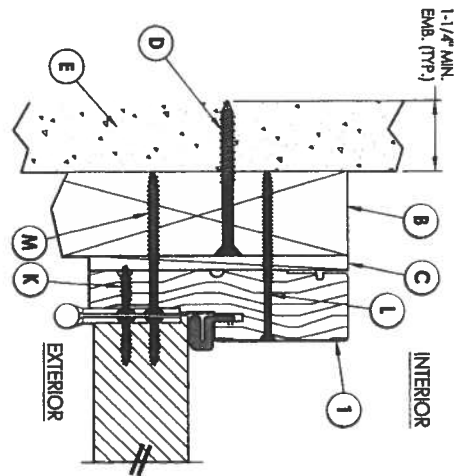
PRODUCT:	PLASTPRO FIBERGLASS DOOR
PART OR ASSEMBLY:	TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

October 14, 2017

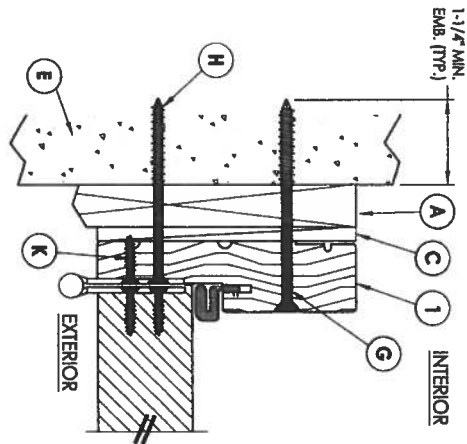
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813 659.9197
FBPE C.A. No. 9813

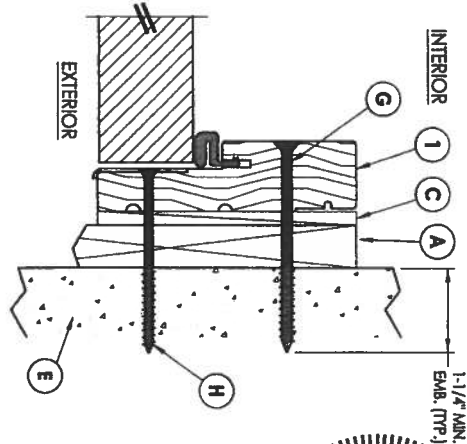




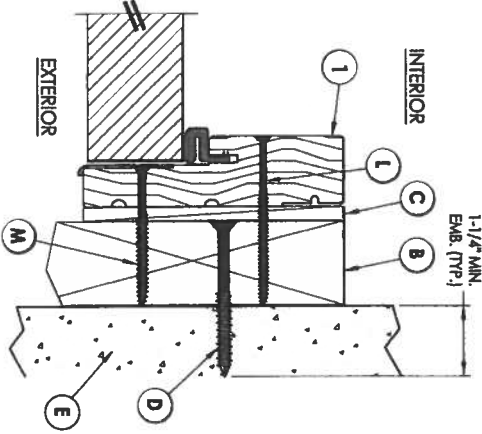
1 HORIZONTAL CROSS SECTION
2 Outswing shown - Inswing similar
2X Buck Construction



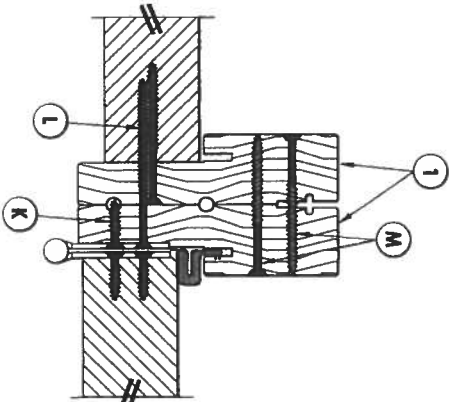
2 HORIZONTAL CROSS SECTION
2 Outswing shown - Inswing similar
1X Buck Construction



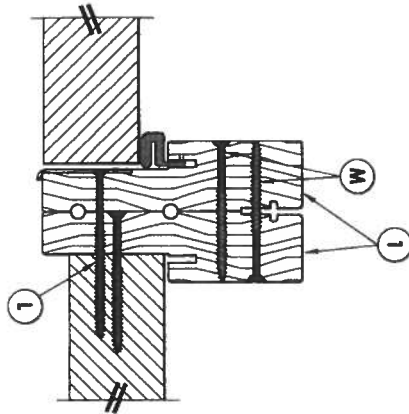
3 HORIZONTAL CROSS SECTION
2 Outswing shown - Inswing similar
1X Buck Construction



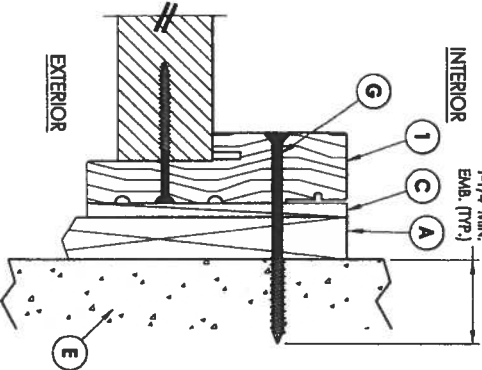
4 HORIZONTAL CROSS SECTION
2 Outswing shown - Inswing similar
2X Buck Construction



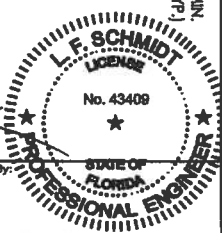
5 HORIZONTAL CROSS SECTION
2 BACK-TO-BACK JAMBS



6 HORIZONTAL CROSS SECTION
2 BACK-TO-BACK JAMBS



7 HORIZONTAL CROSS SECTION
2 Outswing shown - Inswing similar
1X Buck Construction



October 14, 2017

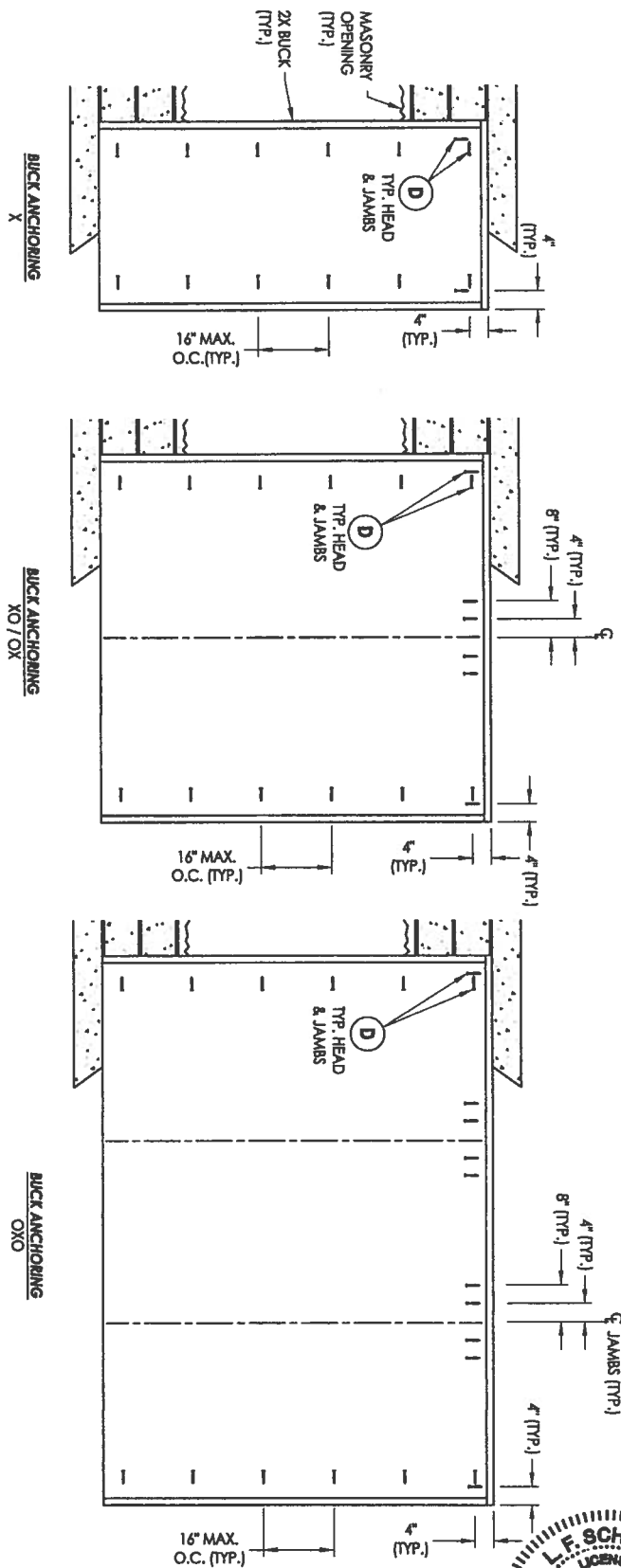
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

PRODUCT:
PLASTPRO INC.
FIBERGLASS DOOR
PART OR ASSEMBLY:
HORIZONTAL
CROSS SECTIONS

NO.	DATE	REVISIONS	BY
2	10/14/17	UPDATE TO 6TH ED. (2017) FBC	LFS
1	8/04/14	CLARIFIED INSTALLATION DETAILS	LFS

DATE: 12/10/12
SCALE: N.T.S.
DWG. BY: J.K.
CHK. BY: LFS
DRAWING NO.:
FL-16094.1
SHEET 2 OF 5



ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.55)	WOOD
B	2X BUCK (SG >= 0.55)	WOOD
C	1/4\" MAX. SHIM SPACE	-
D	1/4\" X 2-3/4\" PH TW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ASTM C90	CONCRETE
G	1/4\" X 3-3/4\" PH TW CONCRETE SCREW	STEEL
H	3/16\" X 3-1/4\" PH TW CONCRETE SCREW	STEEL
K	#9 X 3/4\" PH WOOD SCREW	STEEL
L	#8 X 3\" PH WOOD SCREW (1-1/2\" MIN. EMBEDMENT)	STEEL
M	#10 X 2-1/2\" PH WOOD SCREW	STEEL
I	RINGER JOINTED PINE HEAD & JAMB (SG >= 0.42)	WOOD

- CONCRETE ANCHOR NOTES:**
1. Substitution of equal concrete anchors from a different supplier may have different edge distance and center distance requirements.
 2. Concrete anchor locations of the corners may be adjusted to maintain the min. edge distance to mortar joints. Concrete anchor locations noted as "MAX. O.C. (TYP.)" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. O.C. (TYP.)" dimension are not exceeded.
 3. Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
TW	1/4"	1-1/4"	2"	4"
TANCON	1/4"	1-1/4"	2"	4"

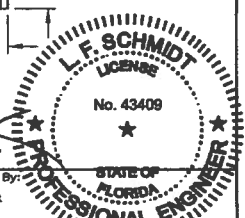
October 14, 2017

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

PRODUCT:
PLASTPRO
FIBERGLASS DOOR

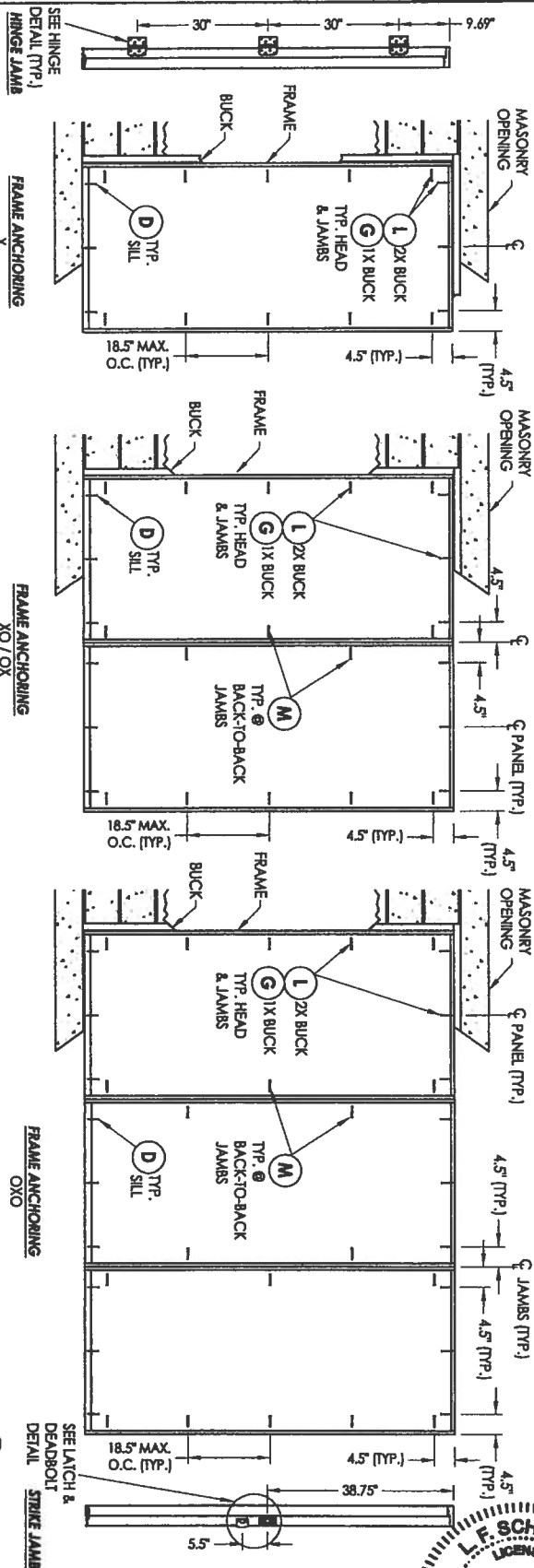
PART OR ASSEMBLY:
BUCK ANCHORING &
BILL OF MATERIALS

BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.859.9197
FBPE C.A. No. 9813



DATE	BY	REVISIONS
10/14/17	LFS	UPDATE TO 6TH ED. (2017) FBC
8/04/14	LFS	CLARIFIED INSTALLATION DETAILS
NO.	DATE	
1	8/04/14	
2	10/14/17	

DATE: 12/10/12	SCALE: N.T.S.
DRAWN BY: J.K.	CHECK BY: LFS
DRAWING NO.: FL-16094.1	SHEET: 4 OF 5



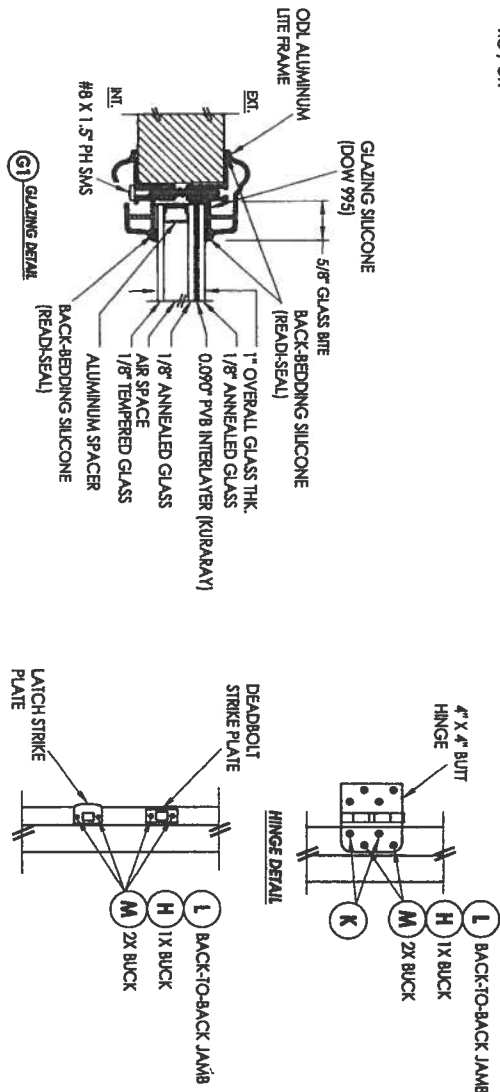
HARDWARE TABLE	
MANUFACTURER	MODEL
KWIKSET	KNOB: SIGNATURE SERIES (980)
	DEADBOLT: SIGNATURE SERIES (980)

- CONCRETE ANCHOR NOTES:**
1. Substitution of equal concrete anchors from a different supplier may have different edge distance and center distance requirements.
 2. Concrete anchor locations of the corners may be adjusted to maintain the min. edge distance to mortar joints. Concrete anchor locations noted as "MAX. O.C." (TYP.) must be adjusted to maintain the min. edge distance to mortar joints; additional concrete anchors may be required to ensure the "MAX. O.C." (TYP.) dimension are not exceeded.
 3. Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
TTW	1/4"	1-1/4"	2"	4"
TACON	3/16"	1-1/4"	3"	1-1/2"

WOOD SCREW INSTALLATION NOTES:

1. Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



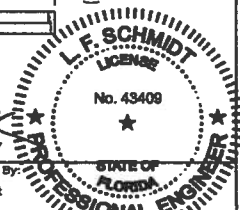
REVISIONS			
NO.	DATE	DESCRIPTION	BY
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1	8/04/14	CLARIFIED INSTALLATION DETAILS	LFS
NO.			

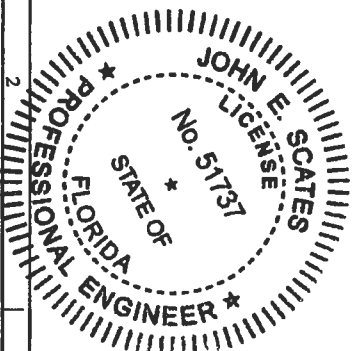
PRODUCT:	PLASTPRO FIBERGLASS DOOR
PART OR ASSEMBLY:	FRAME ANCHORING & GLAZING DETAILS

October 14, 2017

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43408

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813





Window Options:

For Glass:

Max daylight opening 39-3/8 x 12-1/2"

(up to +44.3/-51.5 psf)

Max daylight opening 16-3/4 x 10-1/4"

(up to +50.7/-57.5 psf)

1/8" DSB

1/4" Tempered Glass

7/16" Insulated Glass

For Lextan:

Max daylight opening 16-3/4 x 10-1/4"

(up to +44.7/-51.5 psf)

1/4" Lextan with Aluminum Frame

door height	section quantity	strut quantity	trk brkt per side
6'-6" to 7'-0"	4	4	3
7'-6" to 8'-0"	5	5	4
8'-3" to 8'-9"	5	5	4
9'-0" to 10'-6"	6	6	5
10'-9" to 12'-3"	7	7	6
12'-6" to 14'-0"	8	8	7
14'-3" to 15'-9"	9	9	8
16'-0" to 17'-6"	10	10	9
17'-9" to 19'-3"	11	11	10
19'-6" to 20'-0"	12	12	11

Track bracket quantities shown are for use with grade 2 or better space-pipe-fit (SPF) or southern pine joints.

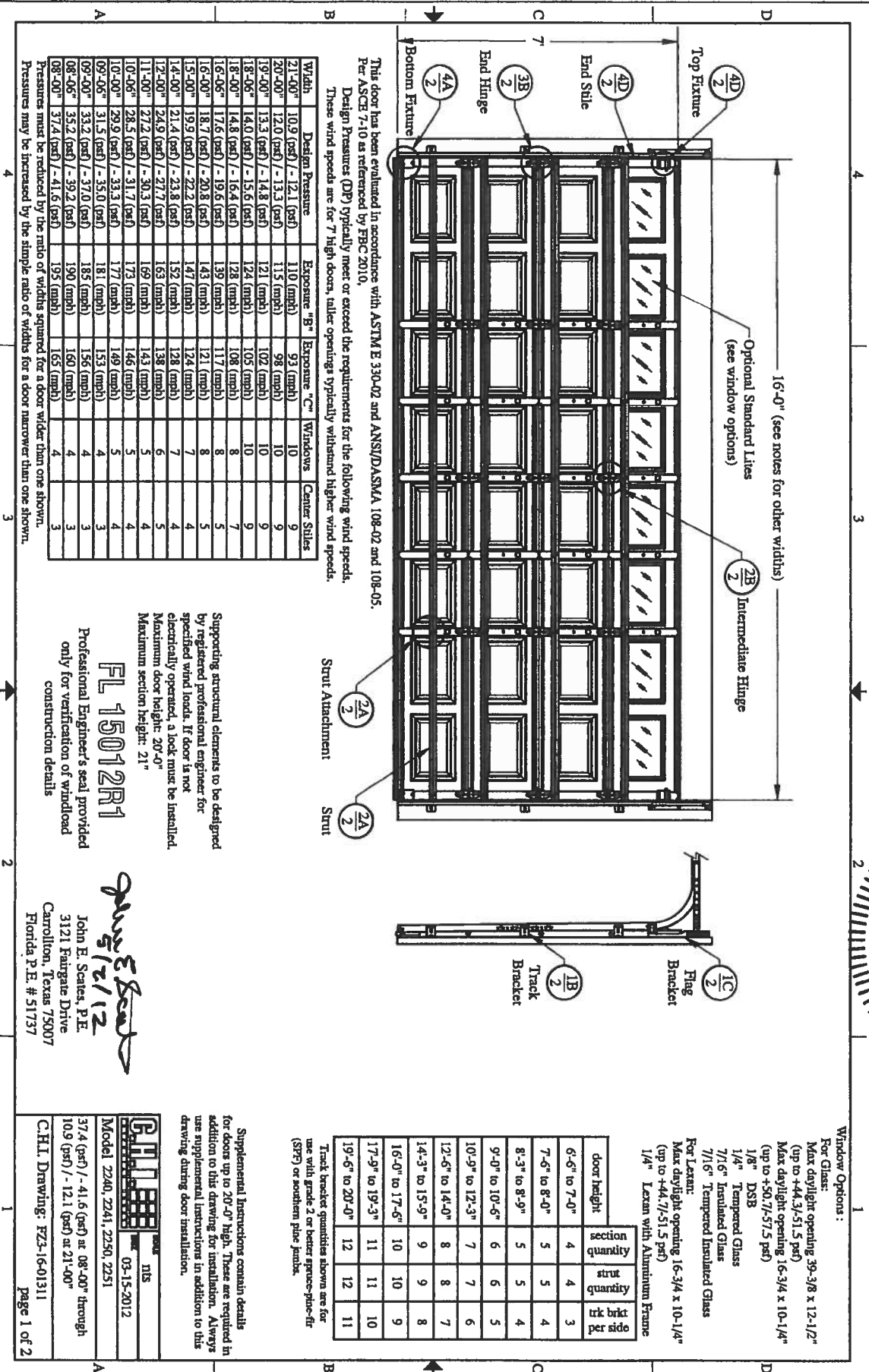
Supplemental Instructions contain details for doors up to 20'-0" high. These are required in addition to this drawing for installation. Always use supplemental instructions in addition to this drawing during door installation.



Model 2240, 2241, 2250, 2251

37.4 (psf) / -41.6 (psf) at 08'-00" through 10.9 (psf) / -12.1 (psf) at 21'-00"

C.H.L. Drawing: FZ3-16-01311



This door has been evaluated in accordance with ASTM E 330-02 and ANS/DASMA 108-02 and 108-05. Per ASCE 7-10 as referenced by FBC 2010.

Design Pressures (DP) typically meet or exceed the requirements for the following wind speeds.

These wind speeds are for 7' high doors, taller openings typically withstand higher wind speeds.

Width	Design Pressure	Exposure "B"	Exposure "C"	Windows	Center Stiles
21'-00"	10.9 (psf) / -12.1 (psf)	110 (mph)	93 (mph)	10	9
20'-00"	12.0 (psf) / -13.3 (psf)	115 (mph)	98 (mph)	10	9
19'-00"	13.3 (psf) / -14.8 (psf)	121 (mph)	102 (mph)	10	9
18'-6"	14.0 (psf) / -15.6 (psf)	124 (mph)	105 (mph)	10	9
18'-00"	14.8 (psf) / -16.4 (psf)	128 (mph)	108 (mph)	8	7
16'-00"	17.6 (psf) / -19.6 (psf)	139 (mph)	117 (mph)	8	5
15'-00"	18.7 (psf) / -20.8 (psf)	143 (mph)	121 (mph)	8	5
14'-00"	19.9 (psf) / -22.2 (psf)	147 (mph)	124 (mph)	7	4
12'-00"	21.4 (psf) / -23.8 (psf)	152 (mph)	128 (mph)	7	4
11'-00"	22.7 (psf) / -25.1 (psf)	156 (mph)	131 (mph)	6	4
10'-00"	24.9 (psf) / -27.7 (psf)	163 (mph)	138 (mph)	6	4
10'-06"	25.5 (psf) / -28.3 (psf)	166 (mph)	140 (mph)	5	4
10'-00"	26.9 (psf) / -29.9 (psf)	171 (mph)	146 (mph)	5	4
09'-06"	28.5 (psf) / -31.7 (psf)	177 (mph)	153 (mph)	4	3
09'-00"	31.3 (psf) / -35.0 (psf)	181 (mph)	156 (mph)	4	3
08'-06"	33.2 (psf) / -37.0 (psf)	185 (mph)	160 (mph)	4	3
08'-00"	35.2 (psf) / -39.2 (psf)	190 (mph)	165 (mph)	4	3

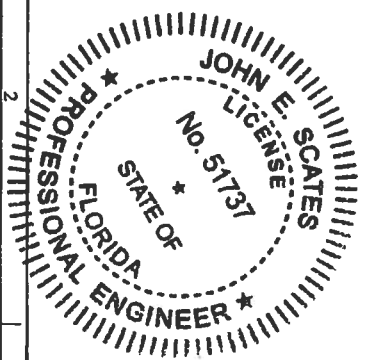
Pressures may be reduced by the ratio of widths squared for a door wider than one shown.

Pressures may be increased by the simple ratio of widths for a door narrower than one shown.

Supporting structural elements to be designed by registered professional engineer for specified wind loads. If door is not electrically operated, a lock must be installed. Maximum door height: 20'-0" Maximum section height: 21"

FL 15012R1

John E. Scates, P.E.
3121 Fairgate Drive
Carrollton, Texas 75007
Florida P.E. # 51737



Strut (if applicable) not shown for clarity.

Details on some views may have been omitted for clarity.

(.059) galvanized steel top fixture. Each fixture attached with four 1/4" x 3/4" screws.

push nut
(.034) end stile manufactured by C.H.I.

(.109) galvanized steel top fixture. Each fixture attached with two 1/4" x 3/4" screws.

push nut
(.034) end stile manufactured by C.H.I.

Optional low head room top bracket

2" (max for .069 thick) 4" (max for .109 thick)

nominal Ø 2" (min.) 10 (min.) ball roller with nylon or steel tread.

(.102) galvanized steel bottom bracket manufactured by C.H.I. Each bracket attached with four red 1/4" x 3/4" screws.

push nut
Vinyl
Aluminum extrusion
weatherstrip

The vertical wood jamb fasteners may be counter sunk to provide a flat mounting surface. See jamb attachment details for more information about attaching jambs to structure.

2" x 7/16" (nominal) stop molding to be secured with minimum 8d nail or 2-1/2" long screw on 8" spacing. Stop molding not required when door is more than 1" wider than opening.

nominal (.0185) galvanized steel minimum

(.034) center stile manufactured by C.H.I.

2" (min) x .045 (min) galvanized steel track

End Hinge
galvanized steel fastened to section with four 1/4" x 3/4" screws.

push nut

Intermediate Hinge
(.058) galvanized steel fastened to section with four 1/4" x 3/4" screws.

2-3/4"

3" 1-7/8" 1/2"

(.051) 50 ksi galvanized steel 3" strut attached with two 1/4" x 3/4" screws per stile or hinge plate.

(.109) galvanized steel bottom bracket manufactured by C.H.I. Each bracket attached with four red 1/4" x 3/4" screws.

Optional low head room bottom bracket

Professional Engineer's seal provided only for verification of windload construction details

(.086) galvanized steel flag bracket fastened to wood jamb with three 5/16" x 1-5/8" wood lag screws.

Flag bracket attached to horizontal track with two 1/4" x 5/8" track bolts and nuts.

Flag bracket attached to vertical track with two 1/4" x 5/8" track bolts and nuts. Or two 1/4" x 11/32" rivets.

(.102) galvanized steel track bracket fastened to wood jamb with one 5/16" x 1-5/8" wood lag screw per bracket.

Each track bracket attached with one 1/4" x 5/8" track bolt and nut. Or two 1/4" x 11/32" rivets.

John E. Scates, P.E.

John E. Scates, P.E.
3121 Fairgate Drive
Carrollton, Texas 75007
Florida P.E. # 51737

Model	2240, 2241, 2250, 2251
37.4 (psf) / - 41.6 (psf) at 08'-00" through 10.9 (psf) / - 12.1 (psf) at 21'-00"	
C.H.I. Drawing: FZ3-16-01311	



Application Instructions for HERITAGE® LAMINATED ASPHALT SHINGLES

FORMERLY HERITAGE® 30

Tuscaloosa, AL

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO BUILDING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS. FAILURE TO FOLLOW THESE INSTRUCTIONS WILL ADVERSELY AFFECT COVERAGE UNDER THE LIMITED WARRANTY. SEE THE LIMITED WARRANTY FOR DETAILS.

THIS PRODUCT IS COVERED BY A LIMITED WARRANTY, THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER.

IN COLD WEATHER (BELOW 40°F), CARE MUST BE TAKEN TO AVOID DAMAGE TO THE EDGES AND CORNERS OF THE SHINGLES.

IMPORTANT FASTENING INFORMATION: DO NOT PLACE FASTENERS ON OR ABOVE THE PAINT LINE ON THE SHINGLE. The paint line on the shingle is the upper-most edge of TAMKO's expanded Nail Zone. For complete details regarding TAMKO's expanded Nail Zone, see section 3 of these Application Instructions. Failure to follow fastening instructions, including but not limited to improper placement of fasteners on or above the paint line, will adversely affect coverage under TAMKO's applicable Limited Warranty. Avoid placing fasteners into the sealant strip.

IMPORTANT: It is not necessary to remove the plastic strip from the back of the shingles.

1. ROOF DECK

These shingles are for application to roof decks consisting of plywood or sheathing boards capable of receiving and retaining fasteners, and to inclines of not less than 2 in. per foot. For roofs having pitches 2 in. per foot to less than 4 in. per foot, refer to special instructions titled "Low Slope Application". For roofs having pitches greater than 21 in. per foot, refer to special instructions titled "Mansard Roof or Steep Slope Roof". Shingles must be applied properly. TAMKO assumes no responsibility for leaks or defects resulting from improper application, or failure to properly prepare the surface to be roofed over.

NEW ROOF DECK CONSTRUCTION: Roof deck must be smooth, dry and free from warped surfaces. It is recommended that metal drip edges be installed at eaves and rakes.

PLYWOOD: All plywood shall be exterior grade as defined by APA - The Engineered Wood Association. Plywood shall be a minimum of 3/8 in. thickness and applied in accordance with the recommendations of APA - The Engineered Wood Association.

SHEATHING BOARDS: Boards shall be well-seasoned tongue-and-groove boards and not over 6 in. nominal width. Boards shall be a 1 in. nominal minimum thickness. Boards shall be properly spaced and nailed.

2. VENTILATION

Inadequate ventilation of attic spaces can cause accumulation of moisture in winter months and a build up of heat in the summer. These conditions can lead to:

1. Vapor Condensation
2. Buckling of shingles due to deck movement.
3. Rotting of wood members.
4. Premature failure of roof.

To insure adequate ventilation and circulation of air, the ventilation system must include inlets and outlets. This may be accomplished with a combination of ridge and soffit vents or by using gable end vents. FHA minimum property standards require one square foot of net free ventilation area to each 150 square feet of space to be vented. This may be reduced to one square foot of ventilation

area per 300 square feet if at least 40% and not more than 50% of venting is provided not more than 3 feet below the ridge or if a Class I or II vapor barrier is installed on the warm in winter side of the ceiling in climate zones 6, 7, and 8 as recommended by the 2012 International Residential Code. For more information consult your design professional. If the ventilation openings are screened, the total area should be doubled.

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION.

3. FASTENERS

WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These conditions may impede the sealing of the adhesive strips on the shingles. The inability to seal down may be compounded by prolonged cold weather conditions and/or blowing dust. In these situations, hand sealing of the shingles is required. To insure immediate sealing, apply 4 quarter-sized dabs of TAM-PRO® Premium SBS Adhesive or TAMKO Tam-Seal Adhesive on the back of the shingle 1 in. (25mm) and 13 in. (330mm) in from each side and 1 in. (25mm) up from the bottom of the shingle. Press shingle firmly into the adhesive. For maximum wind resistance along rakes, install any TAMKO starter shingle including sealant or cement shingles to the underlayment and each other in a 4 in. (102mm) width of TAM-PRO SBS Adhesive or TAMKO Tam-Seal Adhesive. Caution: Apply ONLY a thin uniform layer of adhesive less than 1/8 in. (3mm) thick. Excessive amounts can cause blistering of the shingles and may soften the asphalt in certain underlayments resulting in the asphalt flowing, dripping and staining. Shingles must also be fastened according to the fastening instructions described below.

Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, this will result in the termination of TAMKO's liabilities under the Limited Warranty. TAMKO will not be responsible for damage to shingles caused by winds in excess of the applicable mph as stated in the Limited Warranty. See Limited Warranty on the wrapper or tamko.com for details.

(Continued)

Visit Our Web Site at
tamko.com

Central District	220 West 4th St., Joplin, MO 64801	800-641-4691
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Southeast District	2300 35th St., Tuscaloosa, AL 35401	800-228-2656
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FASTENING PATTERNS:

1) NAIL ZONE: The Nail Zone for standard fastening is defined as the 1-3/4 in. area beginning at 6-1/8 in. from the bottom edge of the shingle and ending at the paint line located at 7-7/8 in. from the bottom edge of the shingle. **DO NOT PLACE FASTENERS ON OR ABOVE THE PAINT LINE ON THE SHINGLE.**

2) Standard Fastening Pattern Options.

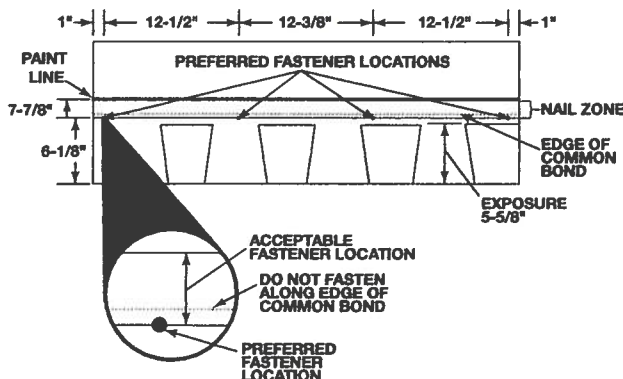
(For use on decks with slopes 2 in. per foot to 21 in. per foot.)

A. Preferred Fastener Location: Fasteners should be placed 6-1/8 in. from the bottom edge of the shingle, penetrating through the common bond, and located horizontally as shown in the Standard Fastening Pattern diagram.

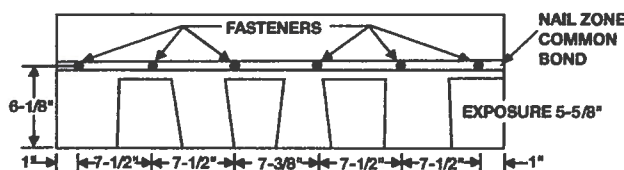
B. Acceptable Fastener Location: Fasteners must be placed in the 1-3/4 in. nailing area beginning at 6-1/8 in. from the bottom edge of the shingle and ending at the paint line located at 7-7/8 in. from the bottom edge of the shingle. Nails shall be located horizontally as shown in the Standard Fastening Pattern diagram.

CAUTION: Fasteners must not be driven into the edge of the common bond area. Avoid placing fasteners into the sealant strip.

STANDARD FASTENING PATTERN IN NAIL ZONE



3) Mansard Fastening Pattern. (For use on decks with slopes greater than 21 in. per foot.) One fastener 1 in. from each end and one fastener 8-1/2 in. from each end and one fastener 16 in. from each end for a total of 6 fasteners per shingle. (See Mansard and High Wind Fastening Pattern illustrated below.)

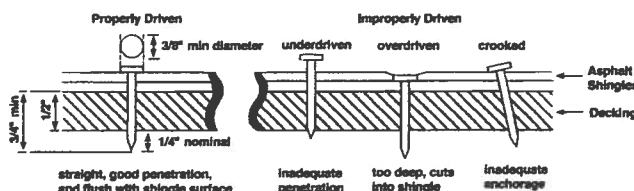


MANSARD AND HIGH WIND FASTENING PATTERN

4) High Wind Fastening Pattern. (For High Wind Application requirements) One fastener 1 in. from each end. One fastener 8-1/2 in. from each end and one fastener 16 in. from each end for a total of six (6) fasteners per shingle. In addition to this shingle fastening pattern requirement for High Wind Application, TAMKO also requires the use of TAMKO starter shingles including sealant strip at eaves and rakes. Alternatively, along rakes, cement shingles to the underlayment and each other in a 4 in. (102 mm) width of TAM-PRO SBS Adhesive or TAMKO Tam-Seal Adhesive. Caution: Apply ONLY a thin uniform layer of adhesive less than 1/8 in. (3mm) thick. Excessive amounts can cause blistering of the shingles and may soften the asphalt in certain underlayments resulting in the asphalt flowing, dripping and staining. High Wind Application is offered on new construction or complete tear-off applications only. It is not offered for recover applications. If High Wind Application requirements are not followed, the High Wind Application Warranty MPH, as stated on Table I in the Limited Warranty, reverts to the Standard Application Wind Warranty MPH limit. (See Mansard and High Wind Fastening Pattern illustrated above.)

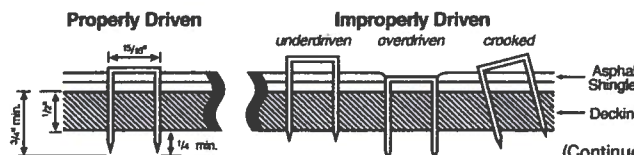
CAUTION: ALL FASTENERS FOR MANSARD AND HIGH WIND APPLICATIONS MUST BE DRIVEN INTO THE NAIL ZONE COMMON BOND (PREFERRED FASTENER LOCATIONS) AS SHOWN IN THE MANSARD AND HIGH WIND FASTENING PATTERN DIAGRAM.

NAILS: TAMKO recommends the use of nails as the preferred method of application. Standard type roofing nails should be used. Nail shanks should be made of minimum 12 gauge wire, and a minimum



head diameter of 3/8 in. Nails should be long enough to penetrate 3/4 in. into the roof deck. Where the deck is less than 3/4 in. thick, the nails should be long enough to penetrate completely through plywood decking and extend at least 1/8 in. through the roof deck. Drive nail head flush with the shingle surface.

STAPLES: If staples are used in the attaching process, follow the above instructions for placement. All staples must be driven with pneumatic staplers. The staple must meet the following minimum dimensional requirements. Staples must be made from a minimum 16 gauge galvanized wire. Crown width must be at least 15/16 in. (staple crown width is measured outside the legs). Leg length should be a minimum of 1-1/4 in. for new construction and 1-1/2 in. for reroofing thus allowing a minimum deck penetration of 3/4 in. The crown of the staple must be parallel to the length of the shingle. The staple crown should be driven flush with the shingle surface. Staples that are crooked, underdriven or overdriven are considered improperly applied.



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4. UNDERLAYMENT

UNDERLAYMENT: An underlayment must be applied over the entire deck before the installation of TAMKO shingles. Failure to add underlayment can cause premature failure of the shingles which is not covered by TAMKO's Limited Warranty.

Products which are acceptable for use as underlayment are:

Asphalt Saturated Felt Underlayments:

- TAMKO SuperX 15™ or SuperX 30™ Underlayment
- TAMKO No. 15 Asphalt Saturated Organic Felt
- Any TAMKO non-perforated asphalt saturated organic felt
- A non-perforated asphalt saturated organic felt which meets ASTM: D226, Type I or II or ASTM D4869

Specialty Underlayments:

- Tam-Shield® Synthetic Underlayment
- TAMKO Moisture Guard Plus®, TW Underlayment and TW Metal and Tile Underlayment® (additional ventilation may be required. Contact TAMKO's Technical Services Department for more information.)
- A self-adhesive underlayment designed for use with asphalt shingles which meets ASTM D1970.

For Asphalt Saturated Felt Underlayments:

Apply the felt when the deck is dry. On roof decks with slopes 4 in. per foot and greater apply the felt parallel to the eaves lapping each course of the felt over the lower course at least 2 in. Where ends join, lap the felt 4 in. If left exposed, the felt may be adversely affected by moisture and weathering. Laying of the felt and the shingle application must be done together.

For All Other Specialty Underlayments:

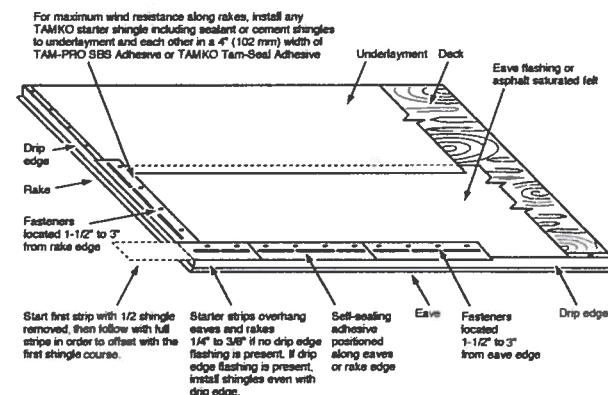
On roof decks with slopes 4 in. per foot and greater apply the underlayment parallel to the eaves in accordance with underlayment written application instructions. The underlayment should not be left exposed for a longer period of time than is specified in the underlayment's written application instructions. The final roof covering must be installed before the structure is exposed to adverse weather conditions, such as wind driven rain, high wind, hail, ice storms, etc.

In areas where ice builds up along the eaves or a back-up of water from frozen or clogged gutters is a potential problem, TAMKO's Moisture Guard Plus®, TW Metal and Tile Underlayment or TW Underlayment (or any specialty eaves flashing product) may be applied to eaves, rakes, ridges, valleys, around chimneys, skylights or dormers to help prevent water damage. Contact TAMKO's Technical Services Department for more information.

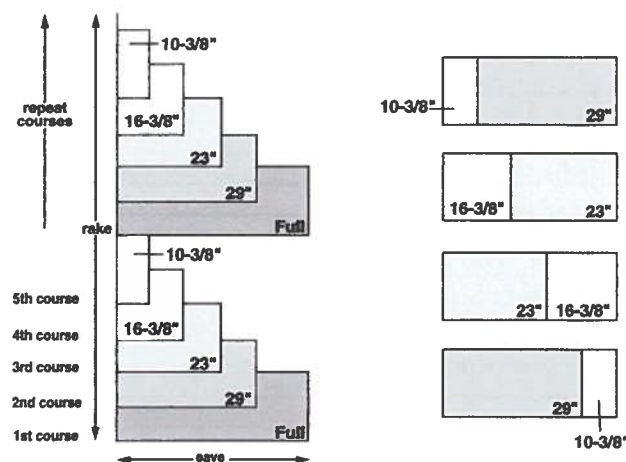
Substitute products as shingle underlayment should not be used.

5. APPLICATION INSTRUCTIONS

STARTER COURSE: A starter course may consist of TAMKO Shingle Starter, TAMKO 10-inch Starter or self-sealing 3-tab shingles. If self-sealing 3-tab shingles are used, remove the exposed tab portion and install with the factory applied adhesive adjacent to the eaves. Attach the starter course with approved fasteners along a line parallel to and 1.5 in. to 3 in. above the eaves edge. The starter course should overhang both the eaves and rake edges 1/4 in. to 3/8 in. if drip edge flashing is not used along the eaves or rakes. If drip edge flashing is present, install shingles even with the drip edge.



SHINGLE APPLICATION: Start the first course with a full size shingle and overhang the rake edge 1/4 in. if drip edge is not present. If drip edge is present, align shingle edge with drip edge flashing. Cut 10-3/8 in. from a full shingle to form a shingle 29 in. long. Use this to start the second course (see diagram below). Cut a 23 in. long shingle to start the third course. Use the remaining 16-3/8 in. piece of shingle to start the fourth course and use the remaining 10-3/8 in. piece to begin the fifth course. Continue up the rake in as many rows as necessary using the same formula as outlined above.



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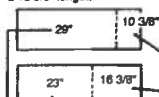
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Tuscaloosa, AL

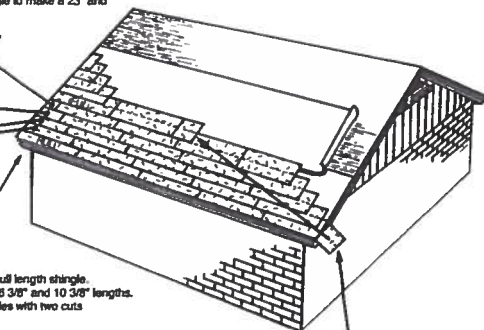
The butt of the shingle should be aligned with the top edge of the sawtooth of the underlying shingle for a 5-5/8 in. exposure (see shingle application drawing illustrated on this panel). When you make your final cut at the roof's edge, flip any pieces that are 8 in. or longer back onto the roof. These pieces can be worked in anywhere without creating zippers or color variations.

NOTE: Do not align joints of shingle courses when working in cut pieces. Joints should be no closer than 4 in. from one another.

- 1 Cut your first course shingle to make 29" and a 10 3/8" length. Cut a second shingle to make a 23" and a 16 3/8" length.



- 2 Begin application with a full length shingle. Then lay your 29", 23", 16 3/8" and 10 3/8" lengths. As you can see, three shingles with two cuts make five courses.



- 3 Continue working your way across the roof. When you make your final cut at the roof's edge, flip any pieces that are 8" or longer back onto the roof. These pieces can be worked in anywhere without creating zippers or color variations.

NOTE: Do not align joints of shingle courses when working in cut pieces. Joints should be no closer than 4" from one another.

6. LOW SLOPE APPLICATION

On pitches 2 in. per foot to 4 in. per foot cover the deck with two layers of underlayment. Begin by applying the underlayment in a 1/2-sheet width along the eaves and overhanging the drip edge by 1/4 to 3/4 in. Place a full-sheet width over the 1/2-sheet width starter piece, completely overlapping it. All succeeding courses will be positioned to overlap the preceding course by 1/2-sheet width. If winter temperatures average 25°F or less, thoroughly cement the laps of the entire underlayment to each other with TAM-PRO or TAMKO Plastic Roof Cement from eaves and rakes to a point of at least 24 in. inside the interior wall line of the building. As an alternative, TAMKO's Moisture Guard Plus®, TW Metal and Tile Underlayment, or TW Underlayment self-adhering underlayment may be used in lieu of the cemented felts.

7. MANSARD ROOF OR STEEP SLOPE ROOF

If the slope exceeds 21 in. per foot (60°), each shingle must be sealed with TAM-PRO SBS Adhesive or TAMKO Tam-Seal Adhesive immediately upon installation. Quarter-sized dabs of cement must be applied to shingles with a 5-5/8 in. exposure, use 6 fasteners per shingle. See Section 3 for the Mansard Fastening Pattern.

8. RE-ROOFING

Before re-roofing, be certain to inspect the roof decks. All plywood shall meet the requirements listed in Section 1.

It is not recommended to install laminated asphalt shingles directly over existing laminated shingles due to the unevenness of the existing

multi-layered shingles. The performance of the sealant feature may be compromised, preventing the shingles from sealing properly. It is acceptable to install laminated shingles over existing three-tab strip shingles which are flat and essentially intact. Nail down or remove curled or broken shingles from the existing roof. Replace all missing shingles with new ones to provide a smooth base. Shingles that are buckled usually indicate warped decking or protruding nails. Hammer down all protruding nails or remove them and refasten in a new location. Remove all drip edge metal and replace with new.

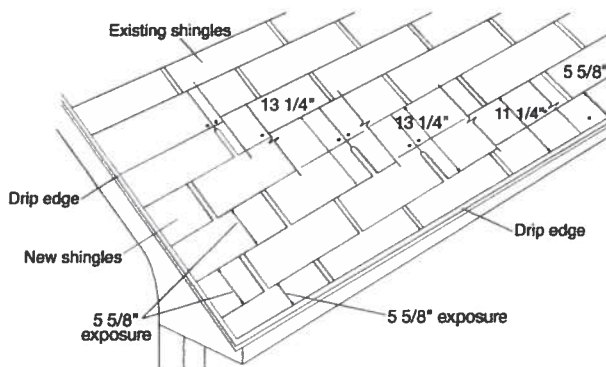
If re-roofing over an existing roof where new flashing is required to protect against ice dams (freeze/thaw cycle of water and/or the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus®, TW Metal and Tile Underlayment, or TW Underlayment. Contact TAMKO's Technical Services Department for more information.

Measurements will vary when nesting over an existing 5 in. exposure single roof. Call TAMKO Technical Services for further information.

The nesting procedure described below is the preferred method for reroofing over existing metric size shingles with a 5-5/8 in. exposure. See description below:

Starter Course: Remove the tabs and an additional portion from the head of a full size shingle so that its height is equal to the exposure of the existing shingles. Position the resulting strip over the existing roof edge (with the factory-applied adhesive strip along the eaves). Cut approximately 6 in. from the rake end and apply the remaining portion at the eaves. Continue the starter strip by applying full length shingle strips cut to height as above, evenly along the existing roof at the eaves. The existing roof should overhang the eaves far enough to carry water off into the gutter. If this is not the case, cut and apply the starter strip so that it will provide sufficient overhang for proper drainage.

First Course: Remove an amount from the butt edge of a full-size shingle so that the remaining portion of the shingle fits between the butts of the existing third course. This course must also be applied evenly along the eaves edge of the new starter strip.



Second and Succeeding Courses: Remove 10-3/8 in. from the rake end of the first shingle in the second course, and continue with full width shingles for the remainder of the course, placing the top edge of each new shingle against the butt edge of the old shingle in the course above. This method should create an exposure of 5-5/8 in. after the first course. When beginning the succeeding courses continue to follow the Heritage application instructions. (See section 5).

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9. VALLEY APPLICATION

Over the shingle underlayment, center a minimum 36 in. wide sheet of TAMKO Moisture Guard Plus®, TW Metal & Tile Underlayment, or a minimum 50 lb. roll roofing in the valley. Nail the underlayment only where necessary to hold it in place and then only nail the outside edges.

IMPORTANT: PRIOR TO INSTALLATION, WARM SHINGLES TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLES TO FORM VALLEY.

After valley flashing is in place:

- Apply the first course of shingles along the eaves of one of the intersecting roof planes and across the valley.

Note: For proper flow of water over the trimmed shingle, always start applying the shingles on the roof plane that has the lower slope or less height.

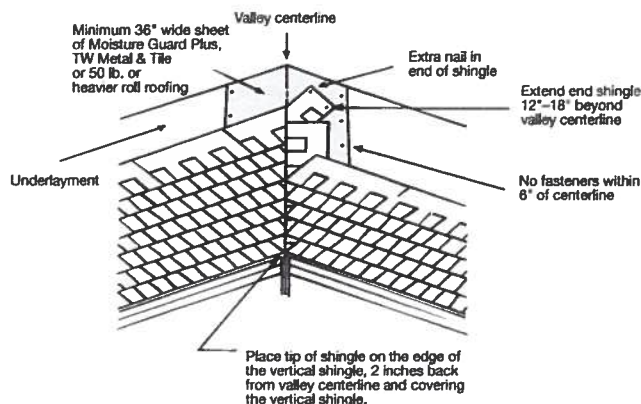
- Extend the end shingle at least 12 in. onto the adjoining roof. Apply succeeding courses in the same manner, extending them across the valley and onto the adjoining roof.
- Press the shingles tightly into the valley.
- Use normal shingle fastening methods.

Note: No fastener should be within 6 in. of the valley centerline, and two fasteners should be placed at the end of each shingle crossing the valley.

- To the adjoining roof plane, apply one row of shingles vertically facing the valley and 2 in. back from the valley centerline.

Note: For a neater installation, snap a chalkline over the shingles for guidance.

- To complete the valley, apply shingles on the adjoining roof plane by positioning the tip of the first shingle of each row at the 2 in. point from the centerline where the edge of the vertical shingle has been applied, covering the vertical shingle.



FOR ALTERNATE VALLEY APPLICATION METHODS, PLEASE CONTACT TAMKO'S TECHNICAL SERVICES DEPARTMENT AT 800-641-4691.

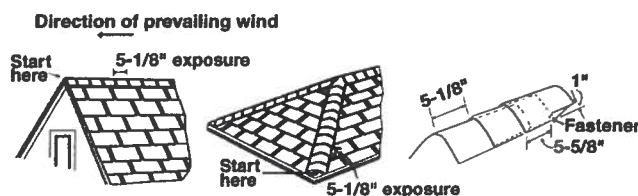
10. HIP AND RIDGE FASTENING DETAIL

Apply the shingles with a 5-1/8 in. exposure beginning at the bottom of the hip or from the end of the ridge opposite the direction of the prevailing winds. Secure each shingle with one fastener on each side, 5-5/8 in. back from the exposed end and 1 in. up from the edge.

TAMKO recommends the use of TAMKO Hip & Ridge shingle products. Where matching colors are available, it is acceptable to use TAMKO's Elite Glass-Seal shingles cut down to 12 in. pieces.

The length of the fastener should be long enough to penetrate through the roofing material and 3/4 in. into the wood decking or completely through approved plywood.

IMPORTANT: PRIOR TO INSTALLATION, CARE NEEDS TO BE TAKEN TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLE IN COLD WEATHER.



THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO BUILDING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS. FAILURE TO FOLLOW THESE INSTRUCTIONS WILL ADVERSELY AFFECT COVERAGE UNDER THE LIMITED WARRANTY. SEE THE LIMITED WARRANTY FOR DETAILS. IF YOU HAVE ANY QUESTIONS REGARDING THESE APPLICATION INSTRUCTIONS, PLEASE CONTACT TAMKO'S TECHNICAL SERVICES DEPARTMENT AT 800-641-4691.

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