DATE 08/16/2007 Columbia County	Building Permit	PERMIT
•	Year From the Date of Issue	000026138
APPLICANT LAURENCE MINK	PHONE 45-3790	- 22642
ADDRESS 22127 S. US HWY 41 #7	HIGH SPRINGS PHONE 45-3790	FL 32643
ADDRESS 22127 S. US HWY 41 #2	PHONE 45-3790 HIGH SPRINGS	- FL 32643
	PHONE	<u>FL 32043</u>
CONTRACTOR OWNER		-
LOCATION OF PROPERTY 441 SOUTH, 2ND DRIVE ON MH PARK	THE LEFT PAST TOUCH OF MINK	
	ESTIMATED COST OF CONSTRUCTION	0.00
HEATED FLOOR AREA TOTAL A	REA HEIGHT	26.00 STORIES 1
FOUNDATION PIERS WALLS FRAMED	ROOF PITCH F	LOOR
LAND USE & ZONING AG-3	MAX. HEIGHT	35
Minimum Set Back Requirments: STREET-FRONT 30.0	00 REAR 25.00	SIDE 25.00
NO. EX.D.U. 1 FLOOD ZONE X	DEVELOPMENT PERMIT NO.	
PARCEL ID 15-7S-17-09995-004 SUBDIVIS	ION	
		2.66
LOT BLOCK PHASE UNIT		
	- Lamore m m	hi
Culvert Permit No. Culvert Waiver Contractor's License N		r/Contractor
EXISTING 07-0647-E BK		N
Driveway Connection Septic Tank Number LU & Zo	ning checked by Approved for Issuan	nce New Resident
COMMENTS: FLOOR ONE FOOT ABOVE THE ROAD, NOC ON	FILE, SECT. 2.3.1 LEGAL	
NAME OF THE PROPERTY OF THE PR		
NON-CONFORMING LOT OF RECORD & REPLACING EXISTING		Coal 806
	Check # or (Cash 806
FOR BUILDING & ZON		Cash 806 (footer/Slab)
FOR BUILDING & ZON Temporary Power Foundation	Check # or C	(footer/Slab)
Temporary Power Foundation date/app. by	Check # or C	(footer/Slab) date/app. by
Temporary Power Foundation date/app. by Under slab rough-in plumbing Slate	Check # or C	(footer/Slab) date/app. by z/Nailing
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FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

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

This Permit Must Be Prominently Posted on Premises During Construction

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

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

1844 Messabe ation 8/13/07 ck 806 **Columbia County Building Permit Application**

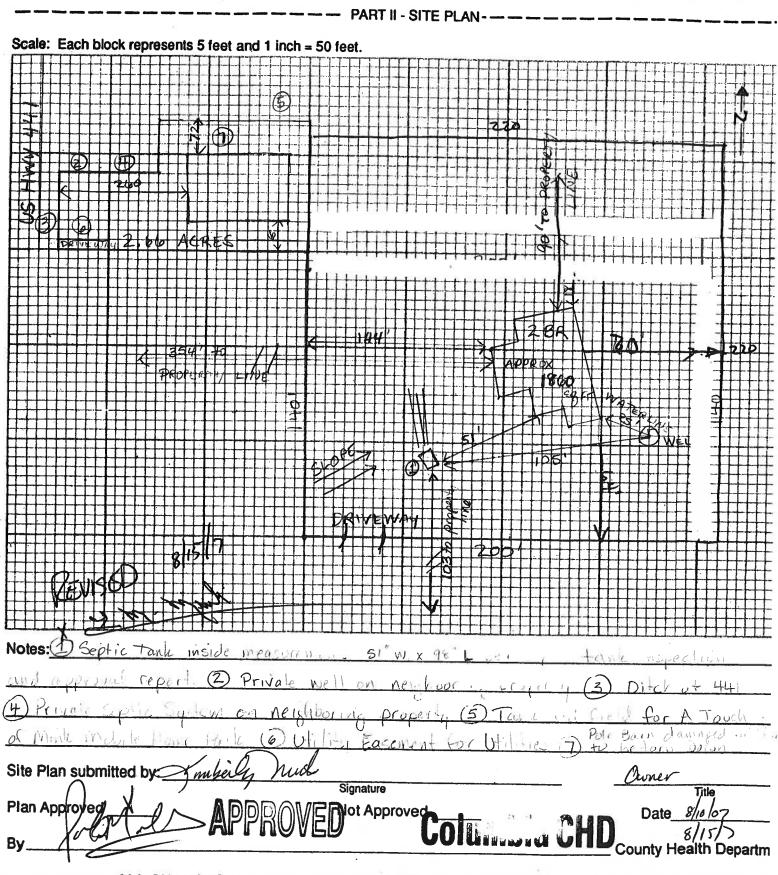
	_
For Office Use Only Application # 6708-16 Date Received 8/7/07 By CH Permit # 26/38	
Application Approved by - Zoning Official Otto Date 07.08.07 Plans Examiner OK57# Date 6-13-07	,
Flood Zone Development Permit Zoning Land Use Plan Map Category 3	
Comments Sect. 2.3.1 Logal Non-conforming lot of Record + Repliera existing mH	
NOC DEH Deed or PA Site Plan State Road Info Development Perm	ıit
Fax(384) 454-3790	_
Name Authorized Person Signing Permit Laugence Martin Mink Phone 386) 454-4553	
The state of the s	
Owners Name Laucance Martin & Kimberly Kay Mink Phone (386) 454-4553	
911 Address 22185 5. 45. Huy. 41 High Springs, 7.1. 32643	
Contractors Name Language M. Mink Phone (386) 454.4553	
Address 22127 5. 45. Huy. 41 #7 High Springs, Fla. 32643	_
Fee Simple Owner Name & Address Laurence M. & Kimbody K. Mink High Springs Fl. 32643	
Bonding Co. Name & Address	
Architect/Engineer Name & Address Nation wide Custom Homes Martingville Va. 24115	
Mortgage Lenders Name & Address Marchantile Bank Stanke Fl.	
Circle the correct power company - FL Power & Light - Clay Elec Suwannee Valley Elec Progressive Energy	gy
Property ID Number R09995-004 Estimated Cost of Construction 170, 300.	
Subdivision Name Gilbert Part Sulv. Lot Lot Block Unit Phase	
Driving Directions 4 mi south of ER. 778 & Huy 41 interchange property	
an east side of 41 22185 S. U.S. Hwy YIV High Springs.	
End Drive Past Touch of Mink on (1) F. 32643	
Type of Construction medular * Number of Existing Dwellings on Property D metabox	30
Total Acreage 2.66 Lot Size TRR. Do you need a - Culvert Permit or Culvert Waiver of Have an Existing Dr	ive
Actual Distance of Structure from Property Lines - Front 354 Side 76 Side 17 Rear 720	<i></i>
Total Building Height 26 Number of Stories 1 Heated Floor Area 1624 Roof Pitch 2/12	
Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or	
installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.	f
OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in	
compliance with all applicable laws and regulating construction and zoning.	
WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING	
TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.	}
J	
Owner Builder or Authorized Person by Notarized Letter Contractor Signature	_
Contractors License Number	
STATE OF FLORIDA COUNTY OF COLUMBIA LAURIE HODSON COMPLETENCY Card Number MY COMMISSION # DD MOTALY STAMP/SEAL	_
Sworn to (or affirmed) and subscribed before from Bonded Thru Notery Public Lindenwriters	
this	
Personally knownor Produced Identification Notary Signature (Revised Sept. 20)	 06)
(Interior of the second of the	,



DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 27-06472



NOTICE OF COMMENCEMENT FORM COLUMBIA COUNTY, FLORIDA

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

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

IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Tax Parcel ID Number # Rogges-004	Permit Number
1. Description of property: (legal description of the property and 22/85 South U.S. Highway	nd street address or 9.11 address) High Springs Fla. 3264
	Inst:200712017891 Date:8/7/2007 Time:12:48 PM Copposite Cason Columbia County Page 1 of 1
2. General description of improvement: mad what h	me const.
3. Owner Name & Address Lay PRACE Mart in 2k	simborly Kay Mink 22127 8.
U.S. Hwy. 41 Hig Springs F1. 226 Meteres	
4. Name & Address of Fee Simple Owner (if other than owner):	
5. Contractor Name Laugence M. Mink	the state of the s
Address 22127 5- U.S. Hay 41 #7 His	of Springs Fl. 32643
6. Surety Holders Name	Phone Number
Address	
Amount of Bond	= 0
7. Lender Name Marchantile Bank	Phone Number 904) 964-3068
Address Stacke Fl.	Teacy Roichest
8. Persons within the State of Florida designated by the Owner	
served as provided by section 718.13 (1)(a) 7; Florida Statutes	
Name	
Address	
9. In addition to himself/herself the owner designates	
	en Notice as provided in Section 713.13 (1) –
(a) 7. Phone Number of the designee	
10. Expiration date of the Notice of Commencement (the expirarecording, (Unless a different date is specified)	ation date is 1 (one) year from the date of
THE OWNER MUST SIGN THE NOTICE OF COMMENCEMENT AND IN HIS/HER STEAD.	AND NO ONE ELSE MAY BE PERMITTED TO SIGN
Signature of Owner	Lings
Sworn to (or affirmed) and subscribed before day of	<u>-7</u> , 20 <u>87</u> .
La Vielen NOTARY STAMES EAST	LAURIE HODSON
Signature of Notary	MY COMMISSION # DD 333503 EXPIRES: June 28, 2006 Bonded Thru Notary Public Underwriters

NOTORIZED DISCLOSURE STATEMENT

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

State law requires construction to be done by licensed contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own contractor with certain restrictions even though you do not have a license. You must provide direct, onsite supervision of the construction yourself. You may build or improve a one-family or two-family residence or a farm outbuilding. You may also build or improve a commercial building, provided your costs do not exceed \$75,000. The building or residence must be for your own use or occupancy. It may not be built or substantially improved for sale or lease. If you sell or lease a building you have built or substantially improved yourself within 1 year after the construction is complete, the law will presume that you built or substantially improved it for sale or lease, which is a violation of this exemption. You may not hire an unlicensed person to act as your contractor or to supervise people working on your building. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances. You may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on your building who is not licensed must work under your direct supervision and must be employed by you, which means that you must deduct F.I.C.A. and withholding tax and provide workers' compensation for that employee, all as prescribed by law. Your construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

TYPE OF CONSTRUCTION

K) Single Family Dwelling

(E O de l' l'	() Two-Family Residence
() Farm Outbuilding	() Other
NEW C	CONSTRUCTION OR IMPROVEMENT
New Construction	() Addition, Alteration, Modification or other Improvement
exemption from contractor licensing a	, have been advised of the above disclosure statement for an owner/builder. I agree to comply with all requirements 0.103(7) allowing this exception for the construction permitted by
Owner Builder Signature	rate
The above signer is personally known produced identification	MY COMMISSION # DD 333503 EXPIRES: June 28, 2008 Bonded Thru Notary Public Underwriters
Notary Signature	Date $8/7/07$ (Stamp/Seal)
	FOR BUILDING USE ONLY
I hereby certify that the above listed or	wner/builder has been notified of the disclosure statement in Florida
Statutes ss 489.103(7).	statement in Fioria
• • • • • • • • • • • • • • • • • • • •	ng Official/Representative Lodo
	77. 150000

Notice of Treatment 12737												
Applicator: Florida Pest Control & Chemical Co. (www.flapest.com) Address:												
City	Phone /	1521703										
Site Location: Subdivi	/											
Lot #Bloc		26/38										
Address <u>72/8</u>	5											
Product used	Active Ingredient	% Concentration										
Premise Imidacloprid 0.1%												
☐ <u>Termidor</u>	Fipronil	0.12%										
□ Bora-Care I	Disodium Octaborate Tet	rahydrate 23.0%										
Type treatment:	□ Soil □ w	ood ,										
Area Treated MODULAR Home	Square feet Linea	r feet Gallons Applied										
termite prevention is us	As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.											
If this notice is for the f	final exterior treatment, ini	itial this line										
Date	Time Pr	rint Technician's Name										
Remarks:												
Applicator - White	Permit File - Canary	Permit Holder - Pink										

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

By Staron Feach

Deputy Clerk

Date 07 - 30 2007

esserved for Recording
1) where to return this form; 2) preparer; 3) party requesting recording.]

Above Space Reserved for Recording [If required by your jurisdiction, list above the name & address of: 1) where to return this form; 2) preparer; 3) party requesting recording.] Date of this Document: Reference Number of Related Documents: Grantor(s): Street Address City/State/Zip Grantee(s): Name City/State/Zip Abbreviated Legal Description (i.e., lot, block, plat, or section, township, range, quarter/quarter or unit, building and condo name): ____ \5 - 75 - \7 Assessor's Property Tax Parcel/Account Number(s): For good consideration, . County of , hereby bargain, deed and convey to Laurence P of 33191 , State of Flori , the following described land in __ County, free and clear with WARRANTY COVENANTS; to wit:

Inst:200712017009 Date:7/30/2007 Time:11:03 AM
Doc Stamp-Deed:126.00
DC,P.DeWitt Cason ,Columbia County Page 1 of 2

Grantor, for itself and its heirs, hereby covenants with Grantee, its heirs, and assigns, that Grantor is lawfully seized in fee simple of the above-described premises; that it has a good right to convey; that the premises are free from all encumbrances; that Grantor and its heirs, and all persons acquiring any interest in the property granted, through or for Grantor, will, on demand of Grantee, or its heirs or assigns, and at the expense of Grantee, its heirs or assigns, execute any instrument necessary for the further assurance of the title to the premises that may be reasonably required; and that Grantor and its heirs will forever warrant and defend all of the property so granted to Grantee, its heirs, and assigns, against every person lawfully claiming the same or any part thereof.

Being the same property conveyed to the Grantor by deed of	Warranty dated
WITNESS the hands and seal of said Grantor this	day of <u>July</u> 2007
H → W.	Grantor
State of Beorgia	Grantor
County of Over	
On <u>Alg 26, 207</u> , before me, <u>Carrol</u> appeared <u>Providence</u> , before me, <u>Carrol</u> proved to me on the basis of satisfactory evidence) to be the p	, personally known to me (or
within instrument and acknowledged to me that he/she/they excapacity(ies), and that by his/her/their signature(s) on the instrument.	recuted the same in his/her/their authorized
WITNESS my hand and official seal.	
Signature M. Baker	Affiant Known Unknown ID Produced Lucare
Notary Public, Crisp County, Georgia My Commission Expires Dec. 7 2009	(Seal)



0708-16

Joe, Copy of Contract - for your Info:



State Certified General Contractor CGC-028003 805 SW Alamo Drive Lake City, Florida 32025 Office- Fax(386) 752-5415 Mobile- (386) 365-7086

THIS AGREEMENT, made this 15th day of July, 2007 by and

Between Kent Harriss Construction Inc. authorized to do business in Florida hereinafter referred to as "Builder", and Marty and Kim Mink, hereinafter referred to as "Buyers".

- 1. Basis of Agreement: That for the consideration hereinafter set forth, Builder agrees to sell and Buyers agree to purchase upon the terms and conditions set forth in this Agreement, a house to be built on Parcel # 15-7S-17-09995-004 State Highway 441 County of Columbia State of Florida according to Builder's Nationwide / Winston Plan, in workmanship-like manner substantially in accordance with plans and specifications and the attached letter of Buyers and Builders responsibilities dated May 23, 2007 which have been reviewed by Buyers (collectively called "property"). Buyers will obtain local permits and inspections.
- 2. Sales Price and Schedule of Payments: The price of the house without lot is \$ 170,400.00 The sales price is payable as follows:
 - (a) Buyer has made a deposit of \$3600.00 with Builder, receipt of which is hereby acknowledged and such amount shall be applied at settlement to down payment and/or pre-paid items.
 - (b) Additional cash payment of \$ 17,040.00 (10%) is due and payable when loan is approved, prints reviewed and house released for production). House cannot be released for production prior to this payment.
 - (c) Additional payment of \$ 136,320.00 (80%) is paid by cashier's check to builder at time of delivery of the home on the site. Units can not be removed from the carriers prior to this payment, (NOTE: In the event that Buyer's loan amount is less than the total amount of this Agreement, then Buyer agrees that the difference will be paid to Builder as deposit or additional cash payment in items (a),(b) and (c) above, before the house is released for production.)
 - (d) Final draw is \$13,440.00 (10% less deposit (a) which is made after clean up of builders trash and completion of all builder responsibilities as listed in attached letter, and acceptance by buyers.

- 3. Schedule of Construction: Construction by Builder shall commence upon completion of loan approval, payment of deposits, construction loan documents, and issuance of required permits, and shall be completed in accordance with Item 1 and settlement shall take place in accordance with Item 2.
 - (a) In the event of delays caused by non-delivery of materials or inability to construct on the premises due to acts of God, floods, rain, fire, strikes, bad weather, delays caused by other independent parties such as governmental agencies or utility companies, etc., the time for completion of construction shall be extended for a period of time equal to the length of the delay. Such events do not constitute abandonment and are not included in calculating time frames for payment or performance.
 - (b) Any items determined to require corrective action as a result of the pre-settlement inspection conducted by Builder and Buyer will be completed as soon as is practical, but is not cause of delaying settlement of all other conditions of this contract have been fulfilled.
 - (c) In the event that Builder is unable to obtain the materials specified on the plans or specifications or the items shown on the pre construction conference report through reasonable sources of supply, Builder shall have the right to substitute materials of similar pattern and design and substantially equivalent quality with buyers consent. Contract is subject to Department of Transportation rules and regulations.
 - (d) Builder may remove such trees from the lots as it deems necessary to construct the house: and it shall not be responsible for any damage to or destruction of remaining trees during or resulting from the process of construction.
 - (e) The buyers agree to contact the electric and/or gas utility companies involved in the purchase of the homes as soon as possible to order the utility company to engineer the utilities for the lot. All costs of electrical and utility installation by the public utility will be the responsibility of the Buyer and not Builder. This includes application fees, membership fees, easements, transformer installations or repair of existing deficiencies.
- 4. Well: It is buyer's responsibility to provide the well and all connections to the home.
- 5. Septic: It is Buyers responsibility to provide sewer and all connections to the home.
- 6. The Buyer shall not be entitled to have physical possession and occupancy of the premises until all sums due the builder are fully paid and satisfied, provided however, that the buyers enter and take possession, then the entire balance due the contractor shall be and become immediately due and payable. Occupation of premises by buyers or the completion of waiver of all claims upon the contractor for further performance, except as to any item which may have been agreed upon in writing or set forth under additional conditions.
- 7. Abnormal Conditions: In the event that rock, water or any other abnormal conditions are encountered during excavation, work shall stop. Builder shall show the conditions to the Buyer and a written agreement shall be made for the extra work necessary to correct the abnormal conditions. The Buyer shall bear the costs of these abnormal conditions. In the event that abnormal soil conditions are encountered on your lot, the Building Codes and/or Building Inspectors may require a soil compaction test. This test may require an Engineer designed footer and/or foundation. In this event, all activity by Builder will stop and we will show and explain the conditions to the Buyer. A written agreement will be made for any and all cost of labor, materials and fees required to correct the abnormal conditions. The Buyer will bear the cost of these abnormal conditions.

- 8. Settlement: After completion of construction in accordance with this Agreement, settlement shall take place on a date and at a place to be selected by Builder on not less that ten (10) day's notice to Buyers. Upon payment by Buyers of the balance due Builder and expenses of settlement and all proper fees and charges in connection with it, In the event that Buyers refuse to settle at the date specified by Builder, in accordance with this paragraph, Builder at its option, may hold the Buyers in default under Item 11, Buyer may at time of settlement require full waiver of lien. Final payment shall constitute acceptance.
- 9. Possession: Possession shall be given to Buyer only upon Builder's receiving the balance of the purchase price and not prior thereto. Accordingly, Buyer shall not have right to enter upon or occupy the property without the written consent of Builder, and any breach of this provision by Buyer shall constitute a default under the terms of this Agreement. If lender requires a three-day right to rescind on the loan transaction, then Buyer acknowledges that possession will not be granted until funds are released.
- 10. Construction Loan Note & Deed of Trust: If lot is not in the name of Builder, then Buyer agrees to provide construction note and first deed of trust acceptable to Builder, along with any acceptable title opinion.
- 11. All work is subject to the lien laws of the State of Florida. Upon completion of the work and payment therefore, Builder shall waive all lien rights.

Chapter 713 of the Florida statues (1991), Florida's Construction Lien Law, entitles anyone supplying labor or material on a job to issue property owners a "notice to owner". The "notice to owner" is not a lien on your property.

This provides protection in case of an unscrupulous builder does not pay his bills.

- 12. Closing Costs/Settlement Charges/Prepaids: All closing costs/settlement charges (including but not limited to all conveyance fees, recording fees), prepaid items (including but not limited to mortgage insurance premiums, prepaid fire and hazard insurance premiums, prepaid real estate taxed, and prepaid interest on mortgage) and all other lender required fees and charges shall be paid by Buyers.
- 13. Default by Buyers: Default by Buyers shall be deemed to have occurred upon Buyer's failure (a) to make all cash payments on or before the dates specified herein: (b) on the date appointed, to tender at settlement the amounts called for herein and accept title, or (c) to comply with any other terms of this Agreement. In the event of Buyer's default under this Agreement, all sums of money paid hereunder prior to such default shall be retained by Builder as liquidated damages, or, in the alternative, Builder may seek specific performance of this Agreement or any part thereof in any court of competent jurisdiction.
- 14. Refund: In the event Buyers are unable to secure necessary financing, Builder shall refund the balance of the down payment remaining, if any, after deducting there from any costs incurred.

- 15. Cancellation by Builder: In the event that specific materials or substantially equivalent substitute materials (Items 3-d) cannot be obtained in thirty (30) days or in the event that Builder shall determine, in good faith, and for reasons beyond its control, including all causes specified in Paragraph 3 (a) and including any pending or declared governmental moratorium, that the house purchased hereunder cannot be completed and made available for occupancy prior to the time provide for settlement hereunder or within a reasonable time thereafter, or if Builder shall be unable to deliver good and marketable title to the property this Agreement may be cancelled at the option of Builder upon ten 10) days' written notice to Buyer. In the event of cancellation as provided for in this paragraph, Builder's liability shall be limited to the return of all moneys paid hereunder by Buyers, and upon such return, this Agreement shall be null and void and Builder shall be released from all obligations hereunder.
- 16. Lot and Location Surveys: The Buyers shall be responsible for and shall pay for a current lot and location survey (not older than three years). If the Buyers do not provide these and Builder erects the house at the wrong location or on the wrong property, the Buyers agree to hold harmless and indemnify Builder from any liability and agrees to pay Builder for work completed prior to knowledge of the error and work required to correct the error. Relocation of the home on the lot due to survey, septic permit, local requirements, or setbacks could result in additional costs to Buyers.
- 17. Authority: Only Builder has the authority to execute this Agreement: only a duly authorized officer who shall be specifically authorized in writing to so act shall have the authority to modify this Agreement or execute any supplemental agreements for change orders of any kind or nature whatsoever. If Buyers should deal directly with a subcontractor, he shall assume all extra costs and hereby releases Builder from any liability and/or responsibility for such extra work or changes.
- 18. Warranties, Easements and Claims: Builder hereby warrants to Buyers that the house described in this Agreement shall be in substantial conformity with the specifications set forth in this Agreement and shall be free from material defects in materials and workmanship under normal use and service for a period of twelve (12) months from the date Builder tenders delivery of the house. Warranty claims must be made to Builder in writing. All workmanship shall conform to the guidelines found in the publication Residential Construction Performance Guidelines - For Professional Builders and Remodelers, National Association of Home Builders. If an item is not covered in that publication, standard industry practice shall govern. The sole and exclusive remedy for any breach of this express warranty shall be limited to the repair of replacement, at the option of Builder, of any part of such house that is demonstrated, to the reasonable satisfaction of Builder to be defective and which is determined to be Builder's responsibility. Notwithstanding anything in this Agreement to the contrary, Builder hereby disclaims any and all liability to Buyers or any other party, whether arising out of contract, tort (including negligence), strict liability of any other cause or form of action whatsoever, for consequential, incidental, special or punitive damages or lost profits resulting from any defect in materials or workmanship of any house or any part thereof covered by this Agreement. Buyers agree that Builder may make and use photographs of the house.

The conveyance of the property from Builder to Buyers shall be specifically subject to any restrictive covenants, easements, rights of way and reservations affecting said property and as set forth of record in the land records of Columbia County.

Hardwood floors, if purchased, normally contract and expand depending on humidity. A humidifier should be used during winter months to reduce joint opening. Hardwood floors are not guaranteed if Buyer uses wood stove of any type. Hairline cracks in Poured Concrete are a normal result of drying and shrinkage. Any bonus rooms are assumed to be for storage unless specified otherwise.

In the event of any dispute or claim, arising out of, or in connection with the design, construction, warranty or repair of any product or component supplied by Nationwide, the condition of the product, the conformity of the product, the merchantability of the product, whether such product is or is not "new" any representations, promises, undertakings or covenants made or allegedly made by Builder in connection with or arising out of any transaction or undertaking between Builder and any direct or subsequent purchaser, Builder and the purchaser of this product agree to submit any such dispute or claim to binding arbitration pursuant to the provisions of 9 USC 1, et. Seq. and according to the Construction Industry Rules of Arbitration of the American Arbitration Association then existing.

- 19. Assignment: Buyer's interest and obligation hereunder shall not be assignable without written consent of Builder.
- 20. The builder and each separate sub-contractor shall purchase and maintain such insurance as will protect him from claims under workmen's compensation acts and other employee benefit acts, from claims for damages because of bodily injury, including death and from claims for damages to property which may arise out of or the result from the builders operations under this contract, whether such operations be by himself or by sub-contractor or anyone directly employed by any of them. This insurance shall be written for not less than any limits of liability as required by law.

The buyers shall purchase and maintain property insurance (builders risk policy) upon the entire work at the site to the full insurable value thereof. This insurance shall include the interest of the buyer, the builder, sub-contractor and sub sub-contractors on the work at the site to fully insure against the perils of Fire, extended coverage, vandalism, malicious mischief and theft. Any insured loss is to be adjusted with the contractor and made payable to the contractor as a trustee for the insured, as their interest may appear, subject to the requirements of any mortgage clause. The buyers and contractor waive all rights against each other for damages caused by fire or other perils to the extent covered by insurance provided under this paragraph.

- 21. This is the complete Agreement between the parties. There are no written or oral agreements or understandings directly or indirectly connected with this Agreement that are not incorporated herein unless they are put in writing, signed by the parties and attached hereto.
- 22. This Agreement shall be binding on the parties, their heirs, assigns, and legal representatives.
- 23. At the discretion of Builder homes, this Agreement shall be null and void and subject to price increase if for any reason the house has not been shipped within 90 days of the date of this Agreement.
- 24. TIME IS OF THE ESSENCE OF THIS AGREEMENT. THIS IS A LEGALLY BINDING CONTRACT. READ AND UNDERSTAND ALL PROVISIONS PRIOR TO SIGNING. IF NOT UNDERSTOOD, SEEK LEGAL OR OTHER COMPETENT ADVICE.
- 25. Buyers acknowledge that the plans and specifications for the house described herein and attached hereto have been reviewed as specified in Paragraph 1.

WITNESS(ES):	
BUYER(S):	
Lawrence to higher	DATE 7 - 24 - 67
Jubeily mil	DATE 7/24/07
BUILDER:	DATE 7-19-07
WITNESS: DATE	
DATE	

LICENSE # CGC-028003

FLORIDA STATE CERTIFIED GENERAL CONTRACTOR____

IN WITNESS WHEREOF, BUILDER AND BUYER HAVE HEREUNTO SET THEIR HANDS

July 25,07

FROM: L. Mortin & Kimberly Mink 22127 S. U.S. Hwy 441 #17 High Springs, F1. 32643 Plane (386)-454-4553 Fox (386)-454-3790

To: TRACY Reichert

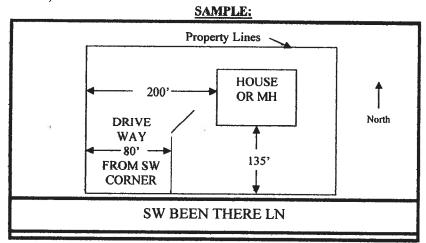
Mort. Criginator

Merchantile Bonk

tax(904) 964-3111

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- 1. A PLAT, PLAN, OR DRAWING SHOWING THE PROPERTY LINES OF THE PARCEL.
- 2. LOCATION OF PLANNED RESIDENT OR BUSINESS STRUCTURE ON THE PROPERTY WITH DISTANCES FROM AT LEAST TWO OF THE PROPERTY LINES TO THE STRUCTURE (SEE SAMPLE BELOW).
- 3. LOCATION OF THE ACCESS POINT (DRIVEWAY, ETC.) ON THE ROADWAY FROM WHICH LOCATION IS TO BE ADDRESSED WITH A DISTANCE FROM A PARALLEL PROPERTY LINE AND OR PROPERTY CORNER (SEE SAMPLE BELOW).
- 4. TRAVEL OF THE DRIVEWAY FROM THE ACCESS POINT TO THE STRUCTURE (SEE SAMPLE BELOW).



SITE PLAN BOX:

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Page 2 of 2

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name: WINSTON #91636 Address: City, State: , FL 32025- Owner: KENT HARRISS CONSTRUCTION North	Builder: KENT HARRISS CONSTRU Permitting Office: Columbia Co. Permit Number: 2 6 / 3 p Jurisdiction Number: 221000
New construction or existing	12. Cooling systems a. Central Unit Cap: 32.6 kBtu/hr SEER: 13.00 b. Central Unit Cap: 20.2 kBtu/hr SEER: 13.00 c. N/A 13. Heating systems a. Electric Heat Pump Cap: 20.2 kBtu/hr HSPF: 9.70 c. N/A 14. Hot water systems a. Electric Resistance Cap: 32.6 kBtu/hr HSPF: 9.70 Cap: 32.6 kBtu/hr Cap:
Glass/Floor Area: 0.12 Total as-built portion of the property of the calculation are in compliance with the Florida Energy Code. PREPARED BY: DATE: 1/2/07 I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: DATE: 1/2/07 I Predominant glass type. For actual glass type and areas, see Summer &	Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes. BUILDING OFFICIAL: DATE:

1/9/10 10 APP 11/23 - 30

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , FL, 32025- PERMIT #:

	E	AS-BUILT											
	GLASS TYPES .18 X Conditioned Floor Area		PM = P	oints	Type/SC	Ove Omt	rhang Len	Hgt	Area X	SPN	ıxs	SOF	= Points
	.18 3173.0		e.se	10817.0	1.Double, SHGC=0.6 2.Double, SHGC=0.6 3.Double, SHGC=0.6 4.Double, SHGC=0.6 5.Double, SHGC=0.6 6.Double, SHGC=0.6 7.Double, SHGC=0.8 8.Double, SHGC=0.6 9.Double, SHGC=0.6 10.Double, SHGC=0.6 11.Double, SHGC=0.6 12.Double, SHGC=0.6 13.Double, SHGC=0.6 14.Double, SHGC=0.6	N N N N W W E E E S S	0.7 0.7 0.7 0.7 0.7 1.0 1.0 0.7 1.0 1.0 0.7 5.0	5.4 8.4 14.3 16.5 7.9 6.3 20.4 12.1 7.7 21.6 12.5 12.1 7.4 4.5	17.6 25.5 12.6 18.0 18.0 12.3 17.3 21.5 37.0 18.0 10.7 72.1 14.9	16.8 16.8 16.8 16.8 16.8 34.3 34.3 37.6 37.6 37.6 31.9 35.8	2 2 2 2 2 2 3 3 3 3 7 7	0.99 1.00 1.00 1.00 0.99 1.00 1.00 1.00	294.0 427.0 210.0 302.0 301.0 204.0 594.0 735.0 1266.0 676.0 676.0 401.0 2286.0
91636	PFS COR Cottage	RPOR e Grove	ATI(ON Points	15.Double, SHGC=0.6 16.Double, SHGC=0.6 17.Double, SHGC=0.6 18.Double, SHGC=0.6 As-Built Total:	S S N S	0.5 0.7 1.0	11.8 6.5 6.3 7.2 Value	37.0 10.7 10.7 2.6 374.6	31.9 31.9 16.6 31.9	7	0.99 0.99 0.99 0.97	1173.0 340.0 179.0 80.0 10411.0
		0.0 99.0 2799.0	0.00 1.70	0.0 4758.3 4758.3	1. Frame, Wood, Exterior 2. Frame, Wood, Exterior 3. Frame, Wood, Exterior As-Built Total:			13.0 13.0 19.0	1802.0 559.0 438.0 2799.0	•	1.50 1.50 0.90		2703.0 838.5 394.2 3935.7
	Adjacent	0.0 80.0	0.00 6.10	9.0 9.0 488.0	Type 1.Exterior Insulated 2.Exterior Insulated 3.Exterior Insulated			-	20.0 40.0 20.0	<u> </u>	SPM 4.10 4.10 4.10		Points 82.0 164.0 82.0
24	Base Total: CEILING TYPES	80.0 Area X	BSPM :	488.0 = Points	As-Built Total:		R-Valu	e i	80.0 Area X S	SPM .	x sc	M =	328.0 Points
14 30		61.0 1261.0	1.73	2181.5 2181.5	Under Attic Under Attic As-Built Total:			30.0 19.0		.73 X 2.34 X			1422.1 1691.8 3113.9

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , FL, 32025- PERMIT #:

	AS-BUILT											
FLOOR TYPES	Area X E	BSPM =	Points	Туре			R-Value	e Area	Х	SPM	=	Points
Slab Raised	0.0(p) 1847.0	0.0 -3.99	0.0 -7369.5	1. Raised Wood, I	Post or Pi	er	19.0	1847.0		0.77		1414.8
Base Total:			-7369.5	As-Built Total:				1847.0				1414.8
INFILTRATION	Area X B	SPM =	Points					Area	X	SPM	=	Points
	3173.0	10.21	32396.3					3173.0)	10.21		32396.3
Summer Bas	e Points:	43071.	6	Summer A	s-Buil	Points:		-			5	1599.7
Total Summer > Points	System Multiplier	= Coo Poi		Total X Component (System - Poli	Ratio		ier M	ystem X ultiplier		redit Iltiplier		Cooling Points
43071.6	0.3250	13:	998.3	(sys 1: Central Unit : 51600 (sys 2: Central Unit : 51600 51599.7	0.62 20200bluh	1.09 x 1.14 SEER/EFF(13, 1.08 x 1.14	7 x 1.02) .0) Ducis:U 7 x 1.11)	0.260 nc(\$),Con(R),	Att(A	1.000	(S)	7064.0 7 605.9

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WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , FL, 32025- PERMIT #:

	L	BASI	E	AS-BUILT								
	GLASS TYPE .18 X Conditi Floor	oned X E	3WPM =	Points	Type/SC	Ove Omt	rhang Len	,	Area X	WPM	x wo	F = Point
	.18 317	3.0	20.17	11520.0	1.Double, SHGC=0.6	N	0.7	5.4	17.6	25.01	1.00	440.0
	ľ				2.Double, SHGC=0.6	N	0.7	8.4	25.5	25.01	1.00	638.0
	l .				3.Double, SHGC=0.6	N	0.7	14.3	12.6	25.01	1.00	314.0
	1				4.Double, SHGC=0.6	N	0.7	16.5	18.0	25.01	1.00	450.0
	i				5.Double, SHGC=0.6	N	0.7	7.9	18.0	25.01	1.00	450.0
					6.Double, SHGC=0.6	N	0.7	6.3	12.3	25.01	1.00	306.0
					7.Double, SHGC=0.6	w	1.0	20.4	17.3	21.51	1.00	372.0
	-				8.Double, SHGC=0.6	w	1.0	12.1	21.5	21.51	1.00	462.0
	2				9.Double, SHGC=0.6	w	0.7	7.7	37.0	21.51	1.00	796.0
					10.Double, SHGC=0.6	E	1.0	21.6	18.0	19.73	1.00	356.0
					11.Double, SHGC=0.6	E	1.0	12.5	18.0	19.73	1.00	357.0
					12.Double, SHGC=0.6	E	1.0	12.1	10.7	19.73	1.01	212.0
	2	AI	PPRO	VED	13.Double, SHGC=0.6	s	0.7	7.4	72.1	14.70	1.00	1054.0
					14.Double, Clear	s	5.0	4.5	14.9	13.30	2.91	575.0
	DAT	E 7/1	2/07		15.Double, SHGC=0.6	S	1.0	11.8	37.0	14.70	1.00	541.0
i					16.Double, SHGC=0.6	S	0.5	6.5	10.7	14.70	1.00	157.0
- 1	l i PFS C	ORPO	RAT	ION I	17.Double, SHGC=0.6	N	0.7	6.3	10.7	25.01	1.00	268.0
9					18.Double, SHGC=0.6	S	1.0	7.2	2.6	14.70	1.01	38.0
9163	COL	tage Gro	ove, wi	•								
X					As-Built Total:				374.6			7786.0
	WALL TYPES	Area X	BWPM	= Points	Туре		R-	Value	Area	X WP	M =	Points
	Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior			13.0	1802.0	3.4)	6126.8
- 1	Exterior	2799.0	3.70	10356.3	2. Frame, Wood, Exterior			13.0	559.0	3.4)	1900.6
					3. Frame, Wood, Exterior			19.0	438.0	2.2)	963.6
- 1	Base Total:	2799.0		10356.3	As-Built Total:				2799.0			8991.0
	DOOR TYPES	Area X	BWPM	= Points	Туре				Area	X WP	M =	Points
- 1	Adjacent	0.0	0.00	0.0	1.Exterior Insulated				20.0	8.40		168.0
- [Exterior	80.0	12.30	984.0	2.Exterior Insulated				40.0	8.40		336.0
					3.Exterior Insulated				20.0	8.40)	168.0
£	Base Total:	80.0		984.0	As-Built Total:				80.0			672.0
	CEILING TYPES	Area X	BWPM :	= Points	Туре	R-\	/alue	Are	a X W	PM X W	CM=	Points
Ţ	Under Attic	1261.0	2.05	2585.0	1. Under Attic		3	0.0	822.0 2	.05 X 1.00)	1685.1
긲				- 1	2. Under Attic		1	9.0	723.0 2	70 X 1.00	ı	1952.1
<u>.</u> [Base Total:	1261.0		2585.0	As-Built Total:				1545.0			3637.2

EnergyGauge® DCA Form 600A-2004R

EnergyGauge®/FlaRES'2004 FLRCSB v4.5

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , FL, 32025- PERMIT #:

	BASE					AS-BUILT								
FLOOR TYPES	Area X B	WPM =	Points	Туре		F	R-Value	Area	Х	WPM	=	Points		
Slab Raised	0.0(p) 1847.0	0.0 0.96	0.0 1773.1	1. Raised Wood, Pos	or Pier	,	19.0	1847.0		0.88		1618.0		
Base Total:			1773.1	As-Built Total:				1847.0				1618.0		
INFILTRATION	Area X B	NPM ≃	Points					Area	X	WPM	=	Points		
	3173.0	-0.59	-1872.1					3173.0		-0.59		-1872.1		
Winter Base	Points:	25	346.4	Winter As-Bu	ilt Po	oints:					20	832.1		
Total Winter X Points	System = Multiplier		ng ints		Cap Ratio	X Duct Muttiplie (DM x DSM x	r Mu	stem X Itiplier		redit Itiplier		leating Points		
25346.4	0.5540	14	041.9	(sys 2: Electric Heat 20832.1 (0.617	(1.069 x 1.10	59 x 1.07 F(9.7) C 59 x 1.10) 0.352 Jucts:Unc(5),Co	1.000	AH),i	5046.1		

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WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , , FL, 32025- PERMIT #:

BASE				AS-BUILT									
WATER HEA Number of Bedrooms	TING X	Multiplier	Ē	Total	Tank Votume	EF	Number of Bedrooms	х	Tank X Ratio	Multiplier	X Cred Multip		Total
2		2635.00		5270.0	50.0	0.90	2		1.00	2693.56	1.00		5387.1
					As-Built Yo	otal:							5387.1

	CODE COMPLIANCE STATUS												
-		BAS	SE		13					AS	-BUILT		
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points	t	Hot Water Points	=	Total Points
13998		14042		5270		33310	17606		9862		5387		32855

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Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , , FL, 32025- PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum: 3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	0,,20,,
Exterior & Adjacent Walls	606.1.ABC,1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding walt; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & topfootiom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/6" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Between walls & cellings; penetrations of celling plane of top floor, around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier, gaps in gyp board & top plate; attic access. EXCEPTION: Frame cellings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	*******
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

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

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked cir breaker (electric) or cutoff (gas) must be provided, External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612,1	Water flow must be restricted to no more than 25	
Air Distribution Systems	610.1	Water flow must be restricted to no more than 25 All ducts, fittings, mechanical equipment and ples attached, seeled, insulated, and installed in acc. to in of Section 610, Ducts in unconditioned attics: R-6 min. Insulatio	<u>/ED</u>
HVAC Controls	607.1		
Insulation	604.1, 602.1	Ceitings-Min. R-19. Common walts-Frame R-11 Common ceiling & floors R-11. Common ceiling & floors R-11. Common ceiling & floors R-11.	ON

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EnergyGauge™ DCA Form 600A-2004R

EnergyGauge®/FiaRES'2004 FLRCSB v4.5

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 84.7

The higher the score, the more efficient the home.

KENT HARRISS CONSTRUCTION, , , FL, 32025-

	i.	New construction or existing	New		12.	Cooling systems			
	2.	Single family or multi-family	Single family	_	a.	Central Unit		Cap: 32.6 kBtu/hr	
	3.	Number of units, if multi-family	1	_				SEER: 13.00	_
	4.	Number of Bedrooms	2	_	b.	Central Unit		Cap: 20.2 kBtu/hr	_
	5.	Is this a worst case?	No	_				SEER: 13.00	-
	6.	Conditioned floor area (ft²)	3173 ft²	_	C.	NA		02010 15:00	_
	7.	Glass type 1 and area: (Label reqd.	by 13-104.4.5 if not default)	_					_
		U-factor:	Description Area		13.	Heating systems			_
		(or Single or Double DEFAULT)	7a. (Dble Default) 374 6 ft2			Electric Heat Pump		Cap: 32.6 kBtu/hr	
	b.	SHGC:	(_				HSPF: 9.70	
		(or Clear or Tint DEFAULT)	7b. (SHGC=0.6) 359.8 ft ²		Ь.	Electric Heat Pump		Cap: 20.2 kBtu/hr	
	8.	Floor types	(0.100 0.0) 557.0 1	_				HSPF: 9.70	-
		Raised Wood, Post or Pier	R=19.0, 1847.0ft ²			NA		16011.7.70	_
		N/A	,	_	•				25.00
	C.	N/A		_	14	Hot water systems			_
		Wall types		_		Electric Resistance		Com 50 0 mallons	
		Frame, Wood, Exterior	R=13.0, 1802.0 ft ²		-	DICTUTE RESISTANCE		Cap: 50.0 gallons	_
		Frame, Wood, Exterior	R=13.0, 559.0 N ²	_		N/A		EF: 0.90	
		Frame, Wood, Exterior	R=19.0, 438.0 N ²	_	О.	N/A	DEC.	ADDDO	ED
		N/A	K-17.0, 436.0 II	_		O		APPROV	<u>EU</u>
		NA				Conservation credit			0.000
		Ceiling types		_		(HR-Heat recovery	Solar DATE	7/12/07	
=		Under Attic	D-300 000 000			DHP-Dedicated half			
a		Under Attic	R=30.0, 822.0 ft²	_		HVAC credits	.PFS.COI	RPORATIO	MC
6		N/A	R=19.0, 723.0 ft²	_		(CF-Ceiling fan, CT-	-Cross ver		
	11.			_		HF-Whole house firm	ı, Cottag	e Grove, WI	
			G D-(A 1070A			PT-Programmable			
		Sup: Unc. Ret: Unc. AH: Outdoors	,	_		MZ-C-Multizone co	_		
	D. 3	Sup: Unc. Ret: Con. AH: Attic	Sup. R=6.0, 62.0 A			MZ-H-Multizone he	ating)		
		tify that this home has complie						THE CT	
	Cons	truction through the above ene	rgy saving features which	will b	e ins	talled (or exceeded	d)	O THE OWNER OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OWNE	
	in thi	is home before final inspection	Otherwise, a new EPL D	isplay	Card	will be completed	d A		A .
	basec	d on installed Code compliant t	eatures					ASSE	6∥
		fer Signature:	/	Date:	- 4	1/2/09	4:		51
				Date.			#		-
	Addr	ess of New Home:		City/F	ղ. 7 ն	v	*		
		 		-	•			OD WE THE	
	*NO	TE: The home's estimated ener	gy performance score is a	<i>nly a</i> n	vailat	le through the FL	A/RES computer p	orogram.	
8	This i	is not a Building Energy Rating	g. If your score is 80 or gi	reater	(or 8	6 for a US EPA/D	OE EnergyStar ^{ns}	designation).	
S	your i	home may qualify for energy e	fficiency mortgage (EEM)) incer	nives	if you obtain a Flo	orida Energy Gau	ige Rating.	
•	Conto	act the Energy Gauge Hotline	at 321/638-1492 or see th	e Ene	rgy G	auge web site at w	vww.fsec.ucf.edu f	For	
-2-	inform	nation and a list of certified Re	iters. For information abo	out Fl	orida	's Energy Efficient	cy Code For Build	ling	
3	Const	truction, contact the Departme	nt of Community Affairs of	at 850/	487-	1824.		-	

I Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4. EnergyGauge® (Version: FLRCSB v4.5)



TRACKING # 22435

PFS Corporation

Assurance you can build on*

An Employee-Owned Company

Headquarters

1507 Matt Pass Cottage Grove, WI 53527

Phone: 608.839.1013 Fax: 608.839.1014

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Michael J. Slifka, PE President mslifka@pfscorporation.com

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Regional Offices

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Los Angeles, CA 310.559.7287

Midwest Cottage Grove, WI 608.839.1013

Southeast Raleigh, NC 919.845.8450

Sales Office Mentone, AL 256.634.4071

SCC Accredited CB-P/S



July 12, 2007

Mr. Mike Ashworth
Planning Manager, State of Florida
Manufactured Buildings Program
Building Codes and Standards
Florida Dept. of Community Affairs
2555 Shumard Oak Boulevard

RE: Nationwide Homes Arabi, GA

Tallahassee, FL 32399-2100

Approvals: Model Winston 91636

Dear Mr. Ashworth:

Enclosed please find one set of documents for the above-noted models.

PFS Corporation hereby certifies that it has examined the building plan and other documents submitted by the manufacturer for certification and found them to be in compliance with the following codes:

2004 FBC, Residential w/2005 & 2006 & 2007 Supplements 2004 Florida Mechanical Code w/2005 & 2006 & 2007 Supplements 2004 Florida Plumbing Code w/2005 & 2006 & 2007 Supplements 2005 National Electric Code

If you have any questions concerning this submission, please feel free to contact this office at any time. Additionally, a hard copy of these plans with the required engineer's raised seal is on file at PFS.

Approved By:

Virgil (James) Shrock, SMP #31 Staff Engineer

ama Shenh

FL-pb

Enclosures: As Stated

cc: John Self (Nationwide)

Nationwide Homes Inc. 1100 RIVES ROAD, MARTINSVILLE, VA. 24115 (276) 632-7100 National Electric Code Electrical Load Calculations Model = VIIISTON #91636

General Lighting Load: Small Appliance Load	3,173	Sq. Ft. at 3 v	roll-amperes per sq	ft :	0.544	
Laundy						volt-amperes volt-amperes
Laundry —			·			volt-amperes
Total General Lighting and Small Appliance						
•••					* 14,019	volt-emperes
3000 voft-amperes @ 100% 14,019 - 3000 #						
14,019 - 3000 #	11,019	@ 35%				volt-emperes
Net General Lighting and Small Appliance Load				_		voir-emperes
Comme Copied and Crims Appeared Load					· 6,857	volt-emperes
Range Load: ————————————————————————————————————						
					= 8,840	voll-amperes
					= 5,000 = 1,033	volt-amperes
Water Heater: (4500 / 240 * 125%)						volt-amperes
123%)						volt-amperes
						volt-amperes
						voll-emperes
Total Load:					28.258	volt-amperes
				200 Amp. Service Panel Installed		varamperes
For 120/240-volt 3-Wire single-phase service or feeder 28,268 /240 Volt =						
					118	Amperes
				PFS APPRO	<u> OVEL</u>	2
Any Site Installed circuits i.e. basement, heating/coolin if 200 Amp. If additional loads exceed main panel rating, p if sub-panel end/or adequate service entry. All installation is	errhager :	HTTHREET PROPERTIES HAS ALLE AND ALLEST		DATE 7/12/07		
ubject to inspection by local jurisdiction.	o matel 21	שא הבני		PFS CORPORAT	CTON	
				FIS CORFORA	LUIV	
				Cottage Grove, W	/T	01/04/94
			L	TTTTT GE GIOTE, II	-	

Engineering Department

2/107

WIND LOAD CALCULATIONS

NATIONWIDE HOMES

DESIGN INPUTS: MODULE WIDTH: 28 ft NO. OF STORIES: STUD SPACING: 1st FLOOR WALL HEIGHT: 16 ln 2nd FLOOR WALL HEIGHT: TRUSS SPACING: 19.2 in 3rd FLOOR WALL HEIGHT: ROOF PITCH: 12 / 12 WIND SPEED: 130 ROOF ANGLE (0): 45.00 ° mph WIND EXPOSURE CASE: 20 ft hr = 14.000 ft 7.000 ft hr/2=

27.000 ft h ≃ EFFECTIVE WIND AREA = z x STUD SPACING = 13,333 R EFFECTIVE WIND AREA = h x STUD SPACING = 36.000 R²

DETERMINE WIND LOADS PER ASCE 7-02 FOR LOW RISE BUILDINGS:

COMPONENTS AND CLADDING:

CONSTANTS: WIND VELOCITY (V): 130 mph DIRECTIONALITY FACTOR (Kg): 0.85 VEL PRESS. EXP. COEF. (Kg): 0.70 IMPORTANCE FACTOR (I): MULT. for TOPO, FACTOR (K₁): 0.09 q_a: = .00256 x K₂ x K₂ x Kd x V² x I = 25.74 MULT, for TOPO, FACTOR (Kg): 25.74 GUST EFFECT FACTOR (G): MULT. for TOPO, FACTOR (Kg): 0 0.85 $K_{23} = (1 + K_1 \times K_2 \times K_3)^2 =$ INTERNAL PRESS. COEF. (GCpts): 0.18

LATERAL LOADS (COMPONENTS AND CLADDING):

EXTERNAL PRESSURE COEFFICIENTS:

SIDE WALL: FIELD: GCpH =

EDGE: GCps =

LOAD CALCULATIONS:

 $P_4 = q_h \times (GC_{pf4} - GC_{pf1}) \times$

 $P_{ni} = q_n \times (GC_{ptn} - GC_{pt1}) \times$

DATE 7/12/07 PFS CORPORATION Cottage Grove, WI

0.18)

-31.06 psf

-21.79 psf

EXAMPLE:

 $P_{41} = q_h \times (GC_{p14} - GC_{p11}) \times$

-27.03 ps/

-1.03 -0.18)

FIELD: P4 = -31.06 ps -21.79 ps/ FIELD: -36.30 psf

USE -31.06 psf WIND LOAD FOR FIELD. -36,30 psf WIND LOAD FOR EDGE.

THE MAXIMUM LATERAL LOAD FOR 130 mph WIND (COMPONENTS AND CLADDING) IS -36.30 psf.

1 OF 2 7/12/2007

WIND-98-COMP-CLAD.shi

EDGE: EDGE:

1/19/07

UPLIFT LOADS (COMPONENTS AND CLADDING):

EXTERNAL PRESSURE COEFFICIENTS:

ROOF: FIELD: GC_{pt} = -0.88

EDGE: GC_{pt} = -1.13

OVERHANG: GC_{pt} = -1.93

DOWNWARD: GC_{pt} = 0.26

OVERHANG: GC_{PG} = -1.5

DOWNWARD: GC_{PH3} = 0.2

LOAD CALCULATIONS:

 $P_{ni} = q_n \times (GC_{p0n} - GC_{pit}) \times P_{ni}$

EXAMPLE:

DOWNWARD:

 $P_{11} = Q_{h} \times (GC_{pri} - GC_{pri}) \times P_{41} = (25.74) \times (-0.88) - (0.18)$ = -27.20 psf $P_{12} = Q_{h} \times (GC_{pri} - GC_{pri}) \times P_{4} = (25.74) \times (-0.88) - (-0.18)$ = -17.93 psf

DATE 7/12/07

PFS CORPORATION
Cottage Grove, WI

FIELD:	Pu=	-27.20	ps/
FIELD:	P# =	-17.93	psf
EDGE:	P2 =	-33.64	psf
EDGE:	P2 =	-24.37	ps/
OVERHANG:	Py =	-54.23	psf
OVERHANG:	P ₃ =	-44.96	psf
DOWNWARD:	P ₁₋₃₁ =	1.96	psf

USE -27.20 psf WIND LOAD FOR FIELD.
USE -33.64 psf WIND LOAD FOR EDGE.
USE -54.23 psf WIND LOAD FOR OVERHANG.
USE 11.22 psf DOWNWARD WIND LOAD.

91631

THE MAXIMUM UPLIFT LOAD FOR 130 mph WIND (COMPONENTS AND CLADDING) IS -54.23 psf.

LOAD SUMMARY: FOR 12/12 PITCH, 130 mph WIND, EXPOSURE CASE B1

11.22 ps/

LATERAL LOADS:

		COMP. &
		CLADDING
1		(psf)
	FIELD	-31.06
	EDGE	-36,30

UPLIFT LOADS:

	COMP. &
	CLADDING
	(psf)
FIELD	-27.20
EDGE	-33.64
OVERHANG	-54.23

33 of 46

WIND-88-COMP-CLAD

2 OF 2 6/29/2007

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PRODUCT APPROVAL SCHEDULE

Manufacturer: NATIONWIDE CUSTOM HOMES Plan # WINSTON #91636

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the manufactured building for which you are applying for PFS certification. We recommend that you contact your product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at wave floridate listed.

obtained at <u>www.floridabt</u> OCategory	Manufacturer	Product Description	Approval #(s)
EXTERIOR DOORS			
Swinging	THERMATRU	3068 & 6068 DOORS	FL1170 R1
Swinging	PGT INDUSTRIES	3068 & 6069 DOORS(Impact)	FL253-R3/R-4
Sliding	WEST WINDOW	6068 SLIDING GLASS DOOR	FL 4933
Sliding	PGT INDUSTRIES	SLIDING GLASS DOOR(Impact)	FL251-R4
Sectional			
Roll-up			
Automatic			
Other			
WINDOWS			
Single Hung	WEST WINDOW	VINYL SINGLE HUNG	FL 5410
Single Hung	PGT INDUSTRIES	ALUMINUM S. H. (IMPACT)	FL 239.4/.5/.6
Horizontal Slider			
Casement	WEST WINDOW	VINYL CASEMENT	FL 4934
Double Hung	WEST WINDOW	VINYL DOUBLE HUNG	FL 5055 R1
	WEST WINDOW	VINYL DBL. HUNG (IMPACT)	FL5411
Fixed	WEST WINDOW	VINYL FIXED	FL 5064/FL5413
Fixed	PGT INDUSTRIES	ALUMINUM FIXED (IMPACT)	FL 243-R4
Awning			
Pass-through			
Projected			
Mullion			
Wind Breaker			
Dual Action			
Other			
PANEL WALL		1	
Siding	JAMES HARDIE	HARDI-PLANK SIDING	FL889-R2
Siding (Vinyl)	VARIFORM (GP)	VINYL SIDING	FL2224-R1
Soffits	lt.		
EIFS			
Storefronts			
Curtain Walls			
Wall Louver			
Glass Block			
Membrane			
Greenhouse			
Other			

PRODUCT APPROVAL SCHEDULE

Manufacturer: NATIONWIDE CUSTOM HOMES

Plan # WINSTON #91636

Category	Manufacturer	Product Description	Approval #(s)
ROOFING PRODUCTS			
Asphalt Shingles	CERTAINTEED	FIBERGLASS SHINGLES	FL 250-R1
Underlayments	WOODLAND IND.	30# FELT	FL 1814-R1
Roofing Fasteners	SENCO	NAILS & STAPLES	FL 5135
Non-structural Metal			
Built-up Roofing			
Modified Bitumen			
Single Ply Roofing Sys.	1		
Roofing Tiles			
Roofing Insulation	OWENS CORNING	INSULATION	F 6242-R1
Waterproofing			
Wood Shingles / Shakes			
Roofing Slate			
Liquid Applied Roof Sys.			
Cements - Adhesives -			39
Coatings			
Roof Tile Adhesive			
Spray Applied			
Polyurethane Roof			
Other			
SHUTTERS	N/A		
Accordion			
Bahama			
Storm Panels			
Colonial			
Roll-up			
Equipment			
Others			
SKYLIGHTS			
Skylight			
Other			
STRUCTURAL			
COMPONENTS			
Wood Connector/Anchor	SIMPSON	CS22 GA. STRAP	FL 1901 R3
			Ref(1901.7)
Truss Plates			
Engineered Lumber	GA. PACIFIC	LAMINATED BEAM	FL 1008 R1
Railing			
Coolers & Freezers			
Concrete Admixtures			
Material			

91636

PRODUCT APPROVAL SCHEDULE

Manufacturer

Manufacturer: NATIONWIDE CUSTOM HOMES

Category

Plan #_ WINSTON #91636

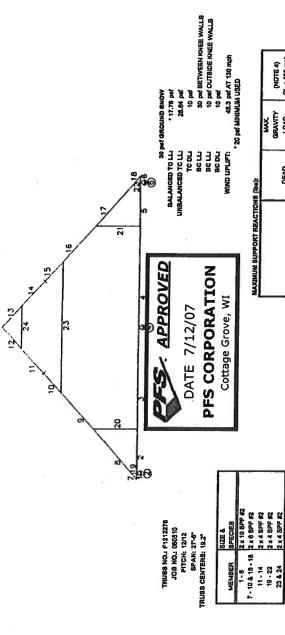
Product Description

Approval #(s)

STRUCTURAL COMPONENTS (cont.)			
Insulation Forms			
Plastics			
Deck & Roof			
Wall			
Sheds			
Others			
NEW EXTERIOR ENVELOPE PRODUCTS			
I understand these products mainspection.	y have to be remov	ed if approval cannot be demonst	rated during
111			İ
CALL		EDWARD W. WILLIAMS	6/29/07
Manufacturer's Authorized Agent	Signature	EDWARD W. WILLIAMS Printed Name	6/29/07 Date

NATIONWIDE HOMES, INC.

STRUCTURAL LUMBER INTERACTION CALCULATIONS



DEAD LOAD SO per GSL	-97.4	692.7	249.6	MATING WALL
30 par GSL	678.B	1166.2	498.3	EXTERIOR WALL
9	UPLIFT	30 par GSL	LOAD	
	DL + 150 m	Q Q	DEAD	

AXIMUM INTERACTION FACTOR:

3. SNOW PER ASCE 7-02, 30 paí GBL, Ct. = 1.1, Ct. = 1.0, Ct. = 1.1, UNBALANGED FACTOR = 1.5.
4. WIND UPLIFT REACTIONS ARE BASED ON C. 8. C. PRESSURES.
WIND LATERAL AND UPLIFT ANCHORAGE AT SUPPORTS ARE DESIGNED
W MMFRS PRESSURES (SEE CONNECTION SECTION OF MANUAL).

NOTER: 1. MATING WALL LOADS ARE <u>TOTAL</u> FOR BOTH SIDER. 2. WIND PER ASCE 7-02, 130 mpt, EXP. C, CLC PRESSURES.

	MAX I.F.	Carl County	
BOTTOM CHORD	0.85390	0.35019	ľ
CHORD TOP CHORD	0.97571	0.99802	"
WEB	0.13954	000	I

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F

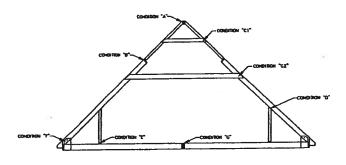
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2, 2

2 19/07 Applip 37-467

CONNECTIONS TRUSS FRAMING

PROJECT NUMBER: 060510 TRUSS NUMBER: F1212276 TRUSS PITCH: 12/12 TRUSS SPACING: 19.2" TRUSS SPAN: 27-6"



DESIGN LOADS:

ROOF TC DL: 10 psf
BALANCED ROOF TC LL: 25.54 psf
UNBALANCED ROOF TC LL: 25.54 psf
ROOF BC DL: 10 psf
BC LL BETWEEN KNEEWALLS: 30 psf
BC LL OUTSIDE KNEEWALLS: 10 psf
WIND UPLIFT 130 mph; 45.3 psf

* 20 psf MINIMUM USED



ALL C	A SPINE DESIGN TOLVES	
		LATER
	FASTENER	Z

FASTENER	Z _{ees}	BY
6 d NAILS	0 lbs	rv
8 d NAILS	62.92 lbs	N
10 d NAILS	99.81 lbs	N
12 d NAILS	99.81 lbs	N
16 d NAILS	119.59 lbs	IV
1/2" BOLT	279,17 lbs	ls
OR (Co) FOR LL = 1.15		

DURATION FACTOR (C_0) FOR LL = 1.15 DURATION FACTOR (C_0) FOR WIND = 1.6

LIMITED	WITHDRAWAL		
BY	(w)		
N	18 lbs / in PENETRATION		
N	21 lbs / in PENETRATION		
IV	23 lbs / in PENETRATION		
IV	23 lbs / in PENETRATION		
IV	27 lbs / in PENETRATION		
ls	(DOUBLE SHEAR; 3/8" SIDE PLATES)		
	TOE NAIL FACTOR (C_{rol}) = 0.83 END GRAIN FACTOR (C_{col}) = 0.87		

HANGER / STRAP DESIGN VALUES;

ALL	MADLE	PETONIADEL	
L	ATERAL	WITHDRAWAL	
	LOAD	LOAD (1 1/2" PENETRATION)	
SIMPSON L30 ANGLE w/ (4) 10 d NAILS	190 lbs	69 lbs	
SIMPSON L50 ANGLE w/ (6) 10 d NAILS	290 lbs	103.5 lbs	
SIMPSON LTO ANGLE W/ (8) 10 d NAILS	380 fbs	138 lbs	
SIMPSON L90 ANGLE w/ (10) 10 d NAILS	480 lbs	172.5 lbs	
SIMPSON H2 TWIST STRAP w/ (10) B d NAILS	O Stos	157.5 lbs	230 lbs UPLIFT
SIMPSON H5 TWIST STRAP W/ (8) 8 d NAILS	170 lbs	126 lbs	265 lbs UPLIFT
SIMPSON H3 TWIST STRAP W (8) 8 d NAILS	140 Bs	126 lbs	320 lbs UPLIFT
SIMPSON H2.5 TWIST STRAP W (10) 8 d NAILS	130 Bs	157.5 tbs	365 lbs UPLIFT
SIMPSON LSTAS STRAP W/ (8) 8 d NAILS	O lbs	126 lbs	605 lbs UPLIFT
SIMPSON LSTA12 STRAP W (10) 8 d NAILS	O lbs	157.5 lbs	755 lbs UPLIFT
SIMPSON LSTA15 STRAP W (12) 8 d NAILS	O lbs	189 lbs	905 lbs UPLIFT

P:12009060510/CONNF1212276.xb

CONNECTIONS TRUSS FRAMING

CONDITION "A" : RIDGE BEAM

START JOINT OF MEMBER:

END JOINT OF MEMBER:

SHEAR CONNECTION

MAX SHEAR DESIGN LOAD = 86.1 | 1bs

10 d NAILS INTO END GRAIN OF EACH RAFTER

USE 10 d NAILS AT

7 * O.C THROUGH RIDGE BEAM

10 d NAILS TOE NAILED INTO RIDGE BEAM

TENSION CONNECTION



ALTERNATE TENSION CONNECTION

MAX TENSION DESIGN LOAD =

DATE 7/12/07

PFS CORPORATION

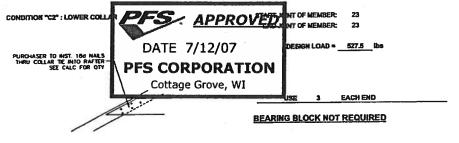
Cottage Grove, WI

PURCHASER TO SUPPLY & INSTALL
TIE-DOWN STRAPS
ON EXT. & INT. OF EACH RAFTER
ONE EXT. & INT. OF EACH RAFTER
USE (1) SIMPSON LETAB STRAP w/ (8) 8 d NAILS TOP & BOTTOM TOP & BOTTOM

P:\2006'0805 10\CONN-F1212278.xls

START JOINT OF MEMBER: 11/15 CONDITION "B": TOP CHORD FLIPBACK END JOINT OF MEMBER: 10 / 14 MAX TENSION DESIGN LOAD = 295.6 lbs 3 8 d NAILS EACH END OF SHEATHING MAX SHEAR DESIGN LOAD = 107.6 lbs 1 16 d NAILS TOE NAILED EACH END 8 ° O.C. THROUGH PLATES USE 16 d NAILS AT ALTERNATE CONNECTION D JOINT OF MEMBER: DATE 7/12/07 DESIGN LOAD = 389.4 lbs 競**R**FS CORPORATION Cottage Grove, WI 16 d NAILS EACH END BEARING BLOCK NOT REQUIRED

P:12009060510\CONN-F1212276_ds



CONDITION "D": KNEE WALL TO TOP CHORD

START JOINT OF MEMBER: N/A END JOINT OF MEMBER: 20 / 21

Y STAM MENOR
Y SEA PLANT OF THE HOST OF TH

DESIGN LOAD = 411.5 lbs

USE 4 16 d NAILS TOE NAILED INTO RAFTER

ALTERNATE CONNECTION

STRAP PER A LOO HAVES TO SHOPLY & BISTALL

STEP PER A LOO HAVES TO DISCUSSION TO SHOP A MAN DECIS

FOR DECINE ONLY

ON THE APPER CRECION ONLY

ON THE APPER CRECION ONLY

ON THE APPER CRECION

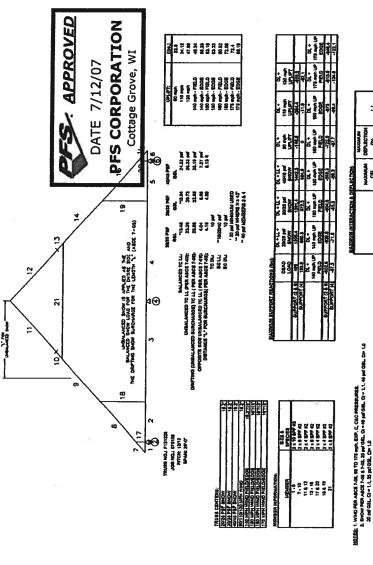
USE (2) SIMPSON H2 TWIST STRAP W/ (10) 8 d NAILS WALL STUD TO TOP CHORD

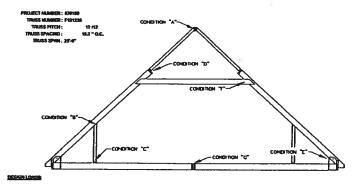
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	CONDITION "E": KNEE WALL TO BOTTOM CHORD	START JOINT OF MEMBER: 20/21 END JOINT OF MEMBER: NA	
	PURCHASER TO SITE 169 NATS TOPHATE THRU STUD TO PLATE SEE CALC FOR OTY	DESIGN LOAD = 467 lbs USE 4 16 d NAILS TOE NAILED INTO PLATE	
(8)	ALTERNATE CONNECTION		
	PARCHASER TO SIT INSTALL ZEA 160 MARS THEN BOTTON PLAIE MITO CLO. OF EA MOLETAIL SET CACL FOR STIME & MAR. SPECS STRAP THE ATTENDA MAR. SPECS	USE (2) SIMPSON H2 TWIST STRAP W/ (10) 8 d NAILS WALL STUD TO TOP CHORD	
		RT JOINT OF MEMBER: 8 START JOINT OF MEMBER: 2 ID JOINT OF MEMBER: 7 END JOINT OF MEMBER: 1	
	_	TOP CHORD	0.24
316	(2) Fay 3/5" Falved Colssett	DESIGN LOAD = 998.8 lbs USE 1 112" BOLT PLUS (6) 16 d NAILS EACH SIDE	: 52
36	DATE 7/12/07		
	•	DESIGN LOAD =	
	PFS CORPORATI Cottage Grove, WI	USE 5 16 d NAILS EACH SIDE	_
	CONDITION "G" : BOITON CHORD TO CENTER GIRDER	START JOINT OF MEMBER: 4 END JOINT OF MEMBER: 3 MAX SHEAR DESIGN LOAD = 435.8 156	
	JOIST ANCHOR EA SIDE TYPEE & NAIL BY	USE (1) SIMPSON L50 ANGLE W/ (6) 10 d NAILS EACH SIDE OF JOIST	
جد		MAX TENSION DESIGN LOAD = 467.8 lbs	
20+		USE AN ADDITIONAL 5 16 d MAILS TOE NAILED INTO EACH SIDE	
~	\$		~~,

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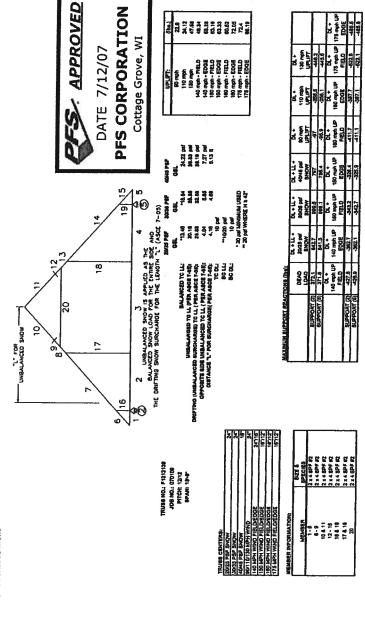


APPROVED DATE 7/12/07 **PFS CORPORATION** Cottage Grove, WI

3K316

CONNECTION SUMMARY 130 NPH WIND									
CONDITION	LOAD (But		FASTENER(S)						
"A" : BIDGE BEAM									
TC TO RIDGE M	223	1							
PROBE TO PROBE M	233	PALATO	10 d MALE BITO END GRAIN OF EACH RAFTER *O.C. THROUGH REDGE BEAM						
TC TO REDGE (1)	194.0	20.	10.4 MAR & TOE MAR ED FACH IND						
	194.0	۳ ا	OR THE THE INVESTIGATION						
ALT FASTISHER IC TO RIDGE (T)	194.0	(1)	SIMPECIN LETAR STRAP == (8) 10 4 HAILE						
W: KOKE WALL TO TOP CHORD	661,1	-	16 d IMALS TOE IMALED INTO PAFTER OR						
ALT FASTEMER	681.3	1 (9	SEEPSCHING TWIST STRAP of (10) 10 of HALE						
was		ioi	16 II HALS TOE HARED IN ADDITION TO STRAPS						
C.: KOREE ARVIT LO SOLLON CHOUD	65LS	-	15 d NALS TOE NALED EACH STUD OR						
ALI FASTENER	850,8	1 (1)	SIMPSON HE THREE STRAP WITHIN TO A HALS						
W(7)		(0)	10 4 HALS TOE HALED IN ADDITION TO STRAPS						
U : FLP 10 TOP CHORD		1							
TOP CHORD TO PLATE (V)	233	A	16 4 HAILS THROUGH PLATEZ WITO TOP CHORDS						
PLATE TOPLATE (V)	233	104 AT 11	*O.C. THROUGH PLATES						
TOP CHORD TO PLATE (1)	154.4	120	A # NALS EA, SIDE THROUGH SHEATHOUG OR						
ALT FASTEMER TOP CHORD TO PLATE (TI	154.4	100	SIMPSON LETAR STRAP = (8) to a HALS						
10f71/		(6)	8 4 MALS EACH SIDE SHADDTION TO STRAP						
T : 1023		l							
GUESSET TO TC	1046.9	l m	OVEROLT COURSE SHEAR: 1/2 SIDE PLATESS						
			15-4 HARS EACH SIDE						
GUISET 70 BC	692.0	i iii	164 IMES EACH SIDE						
COLLAR TE TO TOP CHORD (1)	726.1	(4)	18 d HALBEACH END						
C : SUPPLY CHORD TO COME GROSS									
"BC TO CENTER GRIDER (T)	602.8	(6)	16 of IMALS FOE IMALED IN ADDITION TO HANGERS OR						
ALT FASTEMER &C TO CG (T)	862.8	(1)	SMPSON LSTA15 STRAP W? (12) 10 d MALS						
ALT FASTEMER BC TO CG (SHEATHING) (T)	602.B	(4)	18 4 HALS EA. SIDE OF CENTER GROER						
час то сантан аяцая (м)	467.8	(1)	SMPSON LISO ANGLE w/ (6) to d NAILS EA, SIDE OF JOIST "HANGERS NOT REG. WHEN BC NAS 1.5" OF BEARING						

STRUCTURAL LUMBER INTERACTION CALCULATIONS



HOTES: I, WHO PER ASCE 7-44, 80 TO 175 mah, R.P. C, CAC PRESSURES.

2. SHOW PER ASCE 7-02 47 45, 20 par GBL, CR +40 par GBL, CR + 11, 45 par GBL, CR + 13 par GBL, CR + 10.

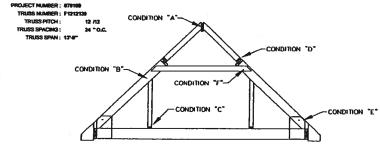
3. DOTH CODES ANAL, TESS AND HOHEST PELCTION USED.

4. WHO LUPET A REALCTIONS ARE EASED ON C. 6. PRESSURES.

WHO CLIFEAL AND UNETT ANCHORAGE AT SUPPORTS AND DESIGNED.

WANTERS PRESSURES.

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DESIGN LOADS

	20025 PSF	30/35 PSF	4045 PSF	
	CSL	GSIL.	GSL	
BALANCED TC LL:	*13.46	*18,84	24.22	pd.
UNBALANCED TC LL (PER ASCIE 7-02):	20.19	28.26	36.33	pdf
DRIFTING (UNBALANCED SURCHANGE) TC LL (PER ASCE 7-05):	26.80	32.58	39.19	peř
OPPOSITE SIDE UNBALANCED TO LL (PER ASCE 7-05):	4.04	5.65	7.27	pef
DISTANCE "L" FOR SURCHARGE(PER ASCE 7-05):	4.18	4.50	5.13	
TC OL:	10	pef		
BCIL:	**10/20	pal		
BCDL	10	pel		
UPLIFT:	34.12	pel FOR 110 i	mph .	
•	20 pel MIN	MILIM USED		

DATE 7/12/07

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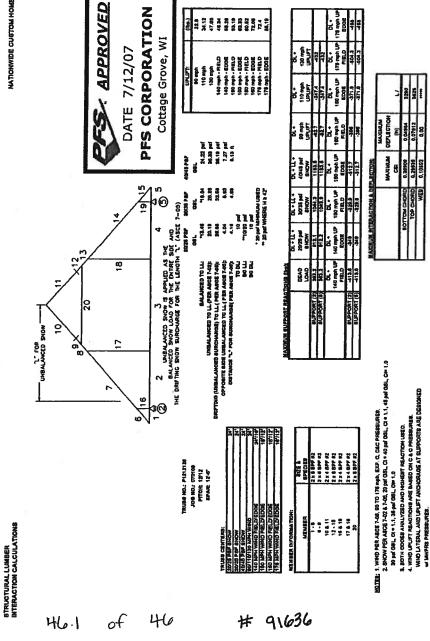
Cottage Grove, WI

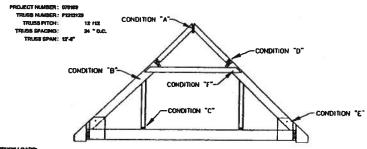
9836

CONNECTION SUMMARY 110 MPH WIND									
CONDITION	LOAD (Res)		FASTENER(S)						
"A" : SHOGE REAM									
TC TO RIDGE M	125.6	l 22	10 ¢ NAILS INTO END GRAIN OF EACH RAFTER						
FRIDGE TO RIDGE (V)	125.6	195 AT 21							
TC TO RIDGE (T)	828	(1)	10 d MALS TOE MALED EACH END						
70 70 70 70		1 "	OR						
ALT FASTEMER TC TO RIDGE (1)	82.8	(1)	EMPSON LETAS STRAP w/ (8) to d NAILS						
TO": HOREE WALL TO TOP CHORD	341.2	(3)	16 d MALS TOE MALED INTO RAFTER						
ALT FASTEMER	341.2	(1)	SIMPSON HE TWIST STRAP w/ (10) 10 d NAILS						
WITH		(0)	16 d NAILS TOE WALLED IN ADDITION TO STRAPS						
"C" : 10/EE WALL TO BOTTOM CHORD	337	(3)	18 d NAILS TOE NAILED EACH STUD OR						
ALT FASTENER	397	(1)	SMPSON HE TWIST STRAP within 16 d NAILS						
with		1 266	18 d HALS TOE NAILED IN ADDITION TO STRAPS						
- 1.1.		1 '''							
"D" : FILIP TO TOP CHORD		1							
TOP CHORD TO PLATE (M)	125.6	(1)	16 d NAILS THROUGH PLATES INTO TOP CHORDS						
PLAYE TO PLATE (M)	125.6	15d AT 28	*O.C. THROUGH PLATES						
TOP CHORD TO PLATE (T)	57.1	(1)	8 d NAILS EA. SIDE THROUGH SHEATHING OR						
ALT FASTENER TOP CHORD TO PLATE (1)	57.1	(1)	SIMPSON LISTAGE STRAP w/ (2) 10 d NAILS						
WF774		(0)	8 d NAILS EACH SIDE IN ADDITION TO STRAP						
'E' : HBEL									
GUSSET TO TC	533.7	l m	1/2" BOLT (DOUBLE SHEAR: 38" SIDE PLATES)						
		(0)	18 d MAILS EACH SIDE						
GUSSET TO BC	481.6	(4)	WI I HALS EACH SIDE						
"F" : COLLAR THE COLLAR THE TO TOP CHORD (T)	389.1	(3)	18 d NAILS EACH END						

of 46

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FIGH	

	MAPE	AUJO POP	ditte hat	
	061	OSL	OSL .	
BALANCED TC LL:	~13.46	710.04	24.22	
UNIMALANCED TO 11. (PER ASCE 7-02):	20,19	29.28	26.33	PEC - ADDOONED
ORIFTING (UNBALANCED SURCHARGE) TO LL (PER ASCE 7-05):	26.53	32.68	26.19	PFS APPROVED
OPPOSITE SIDE UNBALANCED TO IL (PER ASCE 7-05);	4.04	5.65	7.27	
DISTANCE "L" FOR SURCHARGE(PER ASCE 7-05):	4,18	4.68	6.13	
TC DL:	10	pol	- 1	DATE 7/12/07
BCIL:	710/20	ped	- 1	DITTE //12/07
BCDL:	18	pef	- 1	DEC CODDODATION
UPLIFT	47.68	ped FOR 130 m	ph I	PFS CORPORATION
	" 20 per MONIMUSES " 20 per MONIMUSES			Cottage Grove, WI
	16 DE A			

CONDITION	TOND (PP)	PASTENER(S)
'A' : RIDGE BEAM		25
TO TO MODE (N)	107.7	(2) 10 d NAGE INTO END GRAIN OF EACH RAFTER
AND GE TO MIDGE (Y)	107,7	10/ AT 24 * O.C. THROUGH RIDGE BEAM
TO RIDGE (I)	90.3	(1) 10 d NAILS TOE NAILED SACH END
ALT FASTISHER TO TO RIDGE (I)	30.3	(1) SIMPSON LETAS STRAP w/(0) 10 d MAILS
"B": KNEE WALL TO TOP CHORD	443.9	(4) 16 d HARS TOE IMBEDIATO RAFTER
ALT FASTEMER	443.9	(1) SIMPSON HE TWIST STRAP of (10) to 4 NABLS
WITH		(*) 16 if MAILS TOE MAILED IN ADDITION TO STRAPS
C*: KNEE WALL TO BOTTOM CHORD	440,1	(4) 16 4 HAILS TOE HAILED EACH STLD
ALT FASTENER	440.1	(1) SIMPSON HE TWEST STRAP W (10) 10 d HALE
w/Iн		(9) 164 MAILS TOE MAILED IN ADDITION TO STRAPS
D": FLIP TO TOP CHORD		j
TOP CHORD TO PLATE (V)	107 7	(1) 16 4 NASS THROUGH PLATES INTO TOP CHORDS
PLATE TO PLATE (N)	107.7	TRIAT 24 * O.G. THROUGH PLATES
TOP CHORD TO PLATE (1)	71.8	(1) 8 d MAILS EA, SIDE THROUGH SHEATHING OR
ALT FASTEMER TOP CHORD TO PLAYE (1)	71.8	(1) BIMPOON LETAS STRAP w/ (5) 10 d NAILS
w m		(0) 8 4 MARIS EACH SIDE IN ADDITION TO STRAP
F": HEEL		1
GUSSET TO TC	E17.9	(1) 1/2' BOLT (DOUBLE BHEAR; 1/2' BIDE PLATES)
GUSSET TO BC	519.3	(f) 16 d NAILS EACH SIDE
F": COLLAR TE	919.3	(4) 18 9 NATES EVCH SIDE
COLLAR TIE TO TOP CHORD (T)	496.A	41) 18 d NAILS EACH END

P120PHPHEMCON+F13x3x3xx

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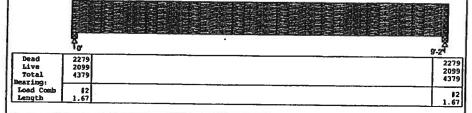
COMPANY BARLOW ENGINEERING, P.C. 6612 SIX FORKS RD RALEIGH, NC 27615 July 8, 2007 10:30 PROJECT 9-2" MATE WALL BEAM RAISED BEAM-1 (PER SIDE) CONTRACT #91638 NATIONWIDE CUSTOM HOMES

Design Check Calculation Sheet Sizer 8.4

LOADS (lbs, psf, or ptf)

ì	load	Туре	Distribution	Magnitude Start End	Location [ft] Start End	Units
	TRUSS DEAD	Dead	Full UDL	488.0		plf
I	TROSS LIVE	Live	Full 00%	458.0		plf

MAXIMUM REACTIONS (lbs) and BEARING LENGTHS (in):



LVL n-ply, 2.0E, 3100Fb, 1-3/4x9-1/4", 2-Plys Self-weight of 9.33 pli included in loads; Lateral support top= at supports, bottom= at supports;

Analysis vs. Allowable Stress (psi) and Deflection (in) using NDS 2001:

ı		Analysis Value	Design Value	Analysis/Design
	Shear	fv = 169	Pv' = 285	fv/Fv' = 0.59
	Bending(+)	fb = 2413	Fb' = 3101	fb/Fb' = 0.78
	Live Defl'n	0.16 = 1/697	0.31 = L/360	0.52
	Total Defl'n	0.41 = 1/265	0.46 = L/240	0.90

ADDITIONAL DATA:

FACTORS	285	1.00		Ct			C£u		Cfrt
				1.00			-	-	1.00
5p,+	3100	1.00				1.04	•	1.00	1.00
Pcp'		. .	-	1.00	•	-	-	•	1.00
E.	2.0	million	-	1.00	-	-	-	•	1.00

APPROVED Shear: LC #2 = D+L, V = 4379, V design = 3642 lbs

Bending(*): LC #2 = D+L, M = 10034 lbs-ft

DATE 7/12/07

Deflection: LC #2 = D+L BI = 231e06 lb-in2/ply

Total Deflection = 1.50 (Dead Load Deflection) + Live Load Defle

DESIGN NOTES:

DESIGN NOTES:

1. Please verify that the default deflection limits are appropriate for your application.

2. SCL-BEAMS (Structural Composite Lumber): the attached SCL selection is for preliminary design only. For final member design contact your local SCL manufacturer.

3. Size factors vary from one manufacturer to another for SCL materials. They can be changed in the database editor.

4. BURLT-UP SCL-BEAMS: contact manufacturer for connection details when loads are not applied equally to all plys.

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#91636

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COMPANY BARLOW ENGINEERING, P.C. 6612 SIX FORKS RD RALEIGH, NC 27615 July 6, 2007 10:32

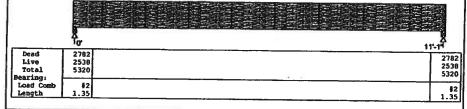
PROJECT PROJECT HATE WALL BEAM RAISED BEAM-1 (PER SIDE) CONTRACT #91636 NATIONWIDE CUSTOM HOMES

Design Check Calculation Sheet Sizer 6.4

LOADS (ibs, pst, or pif):

l	Load Type		Distribution	Start End	Location [ft] Start End	Units
		Dead	Full UDL	488.0		plf
ı	ILMOS PIAR	Live	Full UDL	458.0	L I	plf

MAXIMUM REACTIONS (lbs) and BEARING LENGTHS (in):



LVL n-ply, 2.0E, 3100Fb, 1-3/4x9-1/4", 3-Plys Self-weight of 14.0 plf included in load Lateral support: top= at supports, bottom= at supports;

Analysis vs. Allowable Stress (psi) and Deflection (in) using NDS 2001:

	Analysis Value	Design Value	Analysis/Design
Shear	fv = 141	Pv' - 285	Ev/Py' = 0.50
Bending (+)	fb = 2363	Pb' = 3166	fb/fb' = 0.75
Live Defl'n	0.22 - L/592	0.37 = L/360	0.61
Total Defl'n	0.47 = L/282	0.55 - L/240	0.45

ADDITIONAL DATA: FACTORS: P Cfrt 1.00 - -1.00 0.986 1.04 1.00 3100 1.00 750 -2.0 million 1.00

Shear : LC 82 = D+L, V = 5320, V design = 4580 lbs

Bending(+): LC 82 = D+L, M = 14741 lbs-ft

DATE 7/12/07

Deflection: LC 82 = D+L EIs = 231000 lb-in2/ply

Total Deflection = 1.00 (Dead Load Deflection) + Live Load Deflection Clubed Lelive Sesmow Mewind I-impact C-construction C-co

LC PFS: APPROVED

DESIGN NOTES:

- DESIGN MUST ES:

 1. Please verify that the default deflection limits are appropriate for your application.

 2. SCL-BEAMS (Structural Composite Lumber): the attached SCL selection is for preliminary design only. For final member design contact your local SCL manufacturer.

 3. Size factors vary from one manufacturer to another for SCL materials. They can be changed in the database editor.

 4. BUILT-UP SCL-BEAMS: contact manufacturer for connection details when loads are not applied equally to all plys.

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COMPANY BARLOW ENGINEERING, P.C. 6612 SIX FORKS RD RALEIGH, NC 27615 July 6, 2007 10:27

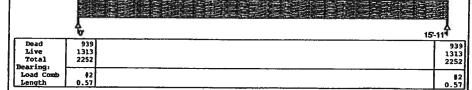
PROJECT PROJECT 15-11° MATE WALL BEAM RAISED BEAM-4 (PER SIDE) CONTRACT #91638 NATIONWIDE CUSTOM HOMES raised-beam-4 with

Design Check Calculation Sheet Sizer 6.4

LOADS (lbs, psf, or plf):

	Load	Туре	Distribution	Magnitude Start End	Location [ft] Start End	Units
ŀ	TRUSS DEAD	Dead	Full UDL	104.0		plf
ŀ	TRUSS LIVE	Live	Full UDL	165.0		plf

MAXIMUM REACTIONS (lbs) and BEARING LENGTHS (in):



LVL n-ply, 2.0E, 3100Fb, 1-3/4x9-1/4*, 3-Plys Self-weight of 14.0 plf included in loads; Lateral support: top= at supports, bottom= at supports;

Analysis vs. Allowable Stress (psi) and Deflection (in) using NDS 2001:

		•	,		
	Analysis Value	Design Value	Analysis/Design		
Shear Bending(+) Live Defl'n	fv = 63 fb = 1436 0.34 = L/555	Fv' = 285 Fb' = 3138 0.53 = L/360	fv/Pv' = 0.22 fb/Fb' = 0.46 0.65		
Total Defl'n	0.71 = L/267	0.80 = 1/240	0.90		

ADDITIONAL DATA:

PACTORS	3. P	CD	CH	Ct	CL.	CV	Cfu	Cr	Cfrt
Pv'	285	1.00	•	1.00	-	1	-	-	1.00
Fb'+	3100	1.00	-	1.00	0.977	1.04	-	1.00	1.00
Pcp'	750	-	-	1.00	-	-	-	-	1.00
B.	2.0 1	million	-	1.00	-	•	-	-	1.00

Shear: LC #2 = D+L, V = 2252, V design = 2034 lbs
Rending(+): LC #2 = D+L, M = 8962 lbs-ft
Deflection: LC #2 = D+L E1 = 231e06 lb-in2/ply
Total Deflection = 1.50 (Dead Load Deflection) + Live Load Deflec
(Dedead Lelive S-senow Newind Tempart Caconstruction CLd
(All LC's are listed in the Analysis output)
Load combinations: ICC-IBC



PFS CORPORATION

Cottage Grove, WI

DESIGN NOTES:

DESIGN ROTES;

1. Please verify that the default deflection limits are appropriate for your application.

2. SCL-BEAMS (Structural Composite Lumber): the attached SCL selection is for preliminary design only. For final member design contact your local SCL manufacturer.

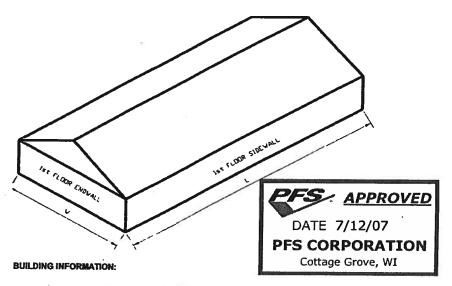
3. Size factors vary from one manufacturer to another for SCL materials. They can be changed in the database editor.

4. BUILT-UP SCL-BEAMS: contact manufacturer tor connection details when loads are not applied equally to all plys.

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4 1/1/07



JOB NUMBER = 070659

PLAN NAME = WINSTON

CONTRACT NUMBER = 91836

FIRST FLOOR LENGTH (W₁) = 41.5 R FIRST FLOOR LENGTH (L₁) = 60 R TRUSS SPACING (TOC)= 24 ln STUD SPACING (SOC) = 16 in MAX. UNRESTRAINED OPENING HEIGHT = 5 ft WIND SPEED (V3S) = 130 mph

MEAN ROOF HEIGHT ADJUSTMENT FACTOR (Gard) = 1.38

WALL HEIGHT ADJUSTMENT FACTOR (CHA) =

91636

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1.125

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4 1/9/07 APP 0. 466-46 TT

SHEARWALL SUMMARY:

FIRST FLOOR ENDWALL: 7/16" OSB EXTERIOR (BLOCKED) w 1/2" GWB INTERIOR (BEDROOM \$2 / BATH \$1 SIDE) WITH 86 COMMON NAILS SPACED AT 2" EDGE FRAMING AT ADJOINING PANEL EDGES TO BE 3" NOMINAL OR WIDER AND NAILS SHALL BE STAGGERED

FIRST FLOOR ENDWALL: 7/16" OSB EXTERIOR (BLOCKED) w 7/16" OSB INTERIOR (KITCHEN SIDE) WITH 84 COMMON NAILS SPACED AT 2" EDGE FRAMING AT ADJOINING PANEL EDGES TO BE 3" NOMINAL OR WIDER AND NAILS SHALL BE STAGGERED

FIRST FLOOR SIDEWALL: 7/16" OSB EXTERIOR (BLOCKED) w/ 1/2" GWB INTERIOR (MASTER BEDROOM / NITCHEN SIDE) WITH 8d COMMON NAILS SPACED AT 6" EDGE

FIRST FLOOR SIDEWALL: 7/16" OSB EXTERIOR (BLOCKED) w/ 7/16" OSB INTERIOR (BEDROOM #2/ LIVING ROOM SIDE) WITH 84 COMMON NAILS SPACED AT 2" EDGE FRAMING AT ADJOINING PANEL EDGES TO BE 3" NOMINAL OR WIDER AND NAILS SHALL BE STAGGERED

FIRST FLOOR SIDEWALL: 7/16" OSB EXTERIOR (BLOCKED) w/ 1/2" GWB INTERIOR (DEN SIDE) WITH 8d COMMON NAILS SPACED AT 6" EDGE

CONNECTION SUMMARY:

CONNECTIONS TO BE AS SPECIFIED OR EQUIVALENT

UPLIFT CONNECTIONS

REQUIRED TRUSS TIE DOWN: USE A (2) 1.5° x 22 ga. STRAP w/ (39) 16 ga. STAPLES EACH END EACH TRUSS

1ST FLOOR STUD TO TOP PLATE: USE A 1.5° x 22 ga. STRAP w/ (20) 16 ga. STAPLES EACH END, EACH STUD

1st FLOOR STUD TO FLOOR BAND: USE A 1.5" x 22 ga. STRAP w/ (20) 16 ga. STAPLES EACH END, EACH STUD

FLOOR BAND TO SILL PLATE CONNECTION: USE A (2) 1.5° x 20 ga. STRAP w/ (46) 16 ga. STAPLES EACH END OR EQUAL WRAPPED AROUND THE SILL PLATE AT EACH ANCHOR BOLT LOCATION

LATERAL CONNECTIONS

TRUSS TO TOP PLATE CONNECTION: USE (7) 0.131" x 2.5" COMMON NAIL (TOENAILED) PER TRUSS

PLATE TO PLATE CONNECTION: ATTACH WITH 0.131° x 2.5° COMMON NAIL (FACE NAILED) AT 4° ON CENTER

PLATE TO STUD CONNECTION: USE (6) 0.131° x 2.5° COMMON NAIL (ENDNAILED) PER STUD

BOTTOM PLATE TO FLOOR CONNECTION: ATTACH WITH 0.131" x 2.5" COMMON MAIL JEACE NAILEDLAT JE ON CENTER

HORIZONTAL FLOOR DIAPHRAGM CONTINUITY

FIRST FLOOR
MODULE TO MODULE CONNECTION AT FLOOR RIMBAND: (ALONG CATELINE) ATE 7/12/07
USE A MIN. OF (13) 1/2" DIA.THRU BOLTS

MODULE TO MODULE CONNECTION AT FLOOR RIMBAND; (AT END USE A (2) 1.5° x 20 ga. STRAP w/ (46) 16 ga. STAPLES EACH END

APPROVED

PFS CORPORATION

Cottage Grove, WI

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SHEAR CONNECTIONS

FIRST FLOOR ENDWALL

RIMBAND TO SILL PLATE CONNECTION: USE 0.162" x 3.5" COMMON NAIL (TOENAILED) @ 2" ON CENTER

SILL PLATE TO FOUNDATION CONNECTION: USE 1/2" ANCHOR BOLTS @ 16" O.C OR USE 5/8" ANCHOR BOLTS @ 23" O.C

FIRST FLOOR SIDEWALL RIMBAND TO SILL PLATE CONNECTION: USE 0.162" x 3.5" COMMON NAIL (TOENAILED) @ 8" ON CENTER

SILL PLATE TO FOUNDATION CONNECTION: USE 1/2" ANCHOR BOLTS @ 53" O.C. OR USE 5/8" ANCHOR BOLTS @ 72" O.C

HOLDDOWN CONNECTIONS

FIRST FLOOR CORNER HOLDDOWN: NO PHYSICAL HOLDDOWN REQUIRED

FIRST FLOOR CORNER STUD CONNECTION: FASTEN CORNER STUDS 2 ROWS OF 16d COMMON NAILS @ 8" ON CENTER OR USE (15) 1/4" DIA. LAG SCREWS

APPLICABILITY LIMITATIONS:

MEAN ROOF HEIGHT (MRH) =	26.8 ft	
NUMBER OF STORIES =	1	
FIRST FLOOR WIDTH (W ₁) =	41.5 ft	
FIRST FLOOR LENGTH (L ₁) =	. 60 tt	A CONTRACTOR OF THE CONTRACTOR
BUILDING ASPECT RATIO (LAW) =	1.45	
FLOOR JOIST DEPTH =	9.25 in	
MAX. VERTICAL FLOOR OFFSET ⇒	0 in	PFS APPROVED
FLOOR ASPECT RATIO (LAW) =	1.45	ZII TROTED
MAX. FLOOR DIAPHRAGM OPENING WIDTH =	11.75 t	7.47
MAX. FLOOR DIAPHRAGM OPENING LENGTH =	3.5 ft	DATE 7/12/07
FIRST FLOOR HEIGHT (H,) =	9 tt	DEC CODDODATION
CEILING ASPECT RATIO (L/W) =	1,45	PFS CORPORATION
MIN. SHEARWALL SEGMENT (H / 3.5) =	2.57 ft	Cottage Grove, WI
ROOF PITCH =	12 /12	

DESIGN MEETS LIMITATIONS OF THE WFCM METHODOLOGY

#91636

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NATIONWIDE CUSTOM HOMES

CONNECTION INFORMATION:

TRUSS TO PLATE CONNECTORS		
SIMPSON H2.5	Z =	365 lbs
SIMPSON H10	Z=	850 ibs
FLAT STRAPS		
1.5" x 26 ga. STRAP w/ (12) 18 ga SYAPLES EACH END	Z=	631 lbs
1.5" x 22 ga. STRAP w/ (20) 18 ga. STAPLES EACH END	Z=	1055 lbs
1.5" x 20 ga. STRAP w/ (23) 16 ga. STAPLES EACH END	Z=	1266 lbs
1) 1.5° x 22 ga. STRAP w/ (39) 16 ga. STAPLES EACH END	Z=	2165 lbs
1) 1.5° x 20 ga. STRAP w/ (46) 16 ga. STAPLES EACH END	Z =	2600 lbs
HOLDDOWNS w/ 1 1/2" EDGE DISTANCE		
MINIMUM 8" STEM WALL		
ASSUME 3000 psi Fc CONCRETE		
SIMPSON LISTHDARJ	Z =	1950 lbs
SMPSON STHD10RJ	Z=	3230 Bs
SEMPSON STHID14RJ	Z=	4430 lbs
(2) SBMPSON STHD14RJ	Z=	8860 lbs
1/2" DIA. THRU BOLT	Z=	725 lbs
1/2" ANCHOR BOLT	Z=	1056 lbs
5/8" ANCHOR BOLT	Z=	1488 lbs
1/1 DIA. LAG SCREW	Z=	320 lbs
0.131" x 2.5" COMMON NAIL (FACE NAILED)	2=	90 lbs
0.131" x 2.5" COMMON NAIL (TOENAILED)	Z =	74 lbs
0.131" x 2.5" COMMON NAIL (ENDNAILED)	Z=	60 lbs
0.152" x 3.5" COMMON NAIL (TOENAILED)	Z =	159 lbs

NOTE: SIMPSON CONNECTORS & FASTEN VALUES ASSUME SPF FRAMING MATERIAL

ANCHOR BOLT VALUES ASSUME DF/SP VALUES

DESIGN UPLIFT LOADS

ROOF & CEILING ASSEMBLY DEAD LOAD = 15 psf WALL DEAD LOAD (WOL) = 12 psf FLOOR DEAD LOAD (FOL)= 10 psf ROOF SPAN = 41.5 R TRUSS SPACING (TOC)= 24 in

STUD SPACING (SOC) = 16 in FIRST FLOOR HEIGHT (H)= 9 ft

DATE 7/12/07 **PFS CORPORATION**

Cottage Grove, WI

#91636

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46.9

Page 4 of 15 7/6/2007 UPLIFT CONNECTION LOAD: (FROM TABLE 2.2A, 2001 WFCM)

AT 24'=

332 pff 459 plf

AT 36'= AT 41.5' (wup')=

517 plf

 $M^{ab} \equiv M^{ab}_{} \circ C^{PBH} \circ C^{BH} \equiv$

w_{up} = 703 pH * 1.36 = 703 plf

REQUIRED TRUSS TIE DOWN:

Pop = Wup * TOC = Pup = 703 ptf * 24 in / 12 =

USE A (2) 1.5" x 22 ga. STRAP w/ (39) 16 ga. STAPLES EACH END EACH TRUSS OR CONNECTION TO WITHSTAND AN UPLIFT FORCE OF 1407 ibs

REQUIRED SIDEWALL STUD TIE DOWN LOADING:

IST FLOOR STUD TO TOP PLATE:

Pro = Wup * SOC = 703 * 16 / 12 =

938 lbs

1st FLOOR STUD TO FLOOR BAND:

Ptb = Ptp - 0.6 * WDL * H1 * SOC =

Pth = 938 lbs - 0.6 * 12 psf * 9 ft * 16 in / 12 =

851 lbs

USE A 1.5" x 22 ga. STRAP w/ (20) 16 ga. STAPLES EACH END, EACH STUD OR EQUAL OR CONNECTION TO WITHSTAND AN UPLIFT FORCE OF 938 lbs

SIDEWALL 1st FLOOR BAND TO SILL PLATE CONNECTION:

SIDEWALL UPLIFT AT SILL PLATE:

Wap = P16/SOC - 0.6 * FDL * W1/4 = w. = 851 lbs * 12 / 16 in - 0.6 * 10 ps/

576 ptf

P_{sp} = W_{sp} * BOC = 576 plf * 53 =

S APPROVED 41.5 R/DATE 7/12/07

PFS CORPORATION

Cottage Grove, WI

CHECK STRAP AT ANCHOR BOLT LOCATIONS:

1/2" ANCHOR BOLT SPACING (BOC) =

53 in

2546 plf

USE A (2) 1.5° x 20 ga. STRAP w/ (46) 16 ga. STAPLES EACH END OR EQUAL WRAPPED AROUND THE SILL PLATE AT EACH ANCHOR BOLT LOCATION OR CONNECTION TO WITHSTAND AN UPLIFT FORCE OF 2546 lbs

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NATIONWIDE CUSTOM HOMES

CHECK BENDING IN RIMBAND:

DBL. 2x10 SPF #2 RIMBAND DESIGN VALUES:

SECTION MODULUS (S) =

ALLOWABLE BENDING (Ib) =

42.68 in³ 875 psi

M_{MAX} = W_{ID} BOC =

MMX = 578 pH * (53 / 12)*2 =

16864 in-lbs

APPLIED to =

395 psi

ALLOWABLE BENDING (fb) = 875 psi

APPLIED to = 395 psi

DBL 2:10 SPF #2 RIMBAND IS OK

LATERAL LOAD AT ROOF/CEILING DIAPHRAGM

ROOF SPAN =

41.5 R

ROOF PITCH =

12 /12

WIND PERPENDICULAR TO RIDGE: (TABLE 2.5A, 2001 WECH

AT 24" = AT 36"=

321 plf

AT 41.5' (wl-per)= 471 ptf

DATE 7/12/07

Miles = Miles, CMSH . CMH = Wiper = 471 ptf * 1.36 * 1.12 Wips = 721 plf

PFS CORPORATION Cottage Grove, WI

FS. APPROVED

WIND PARALLEL TO RIDGE: (TABLE 2.5B, 2001 WFCM)

194 ptf

250 ptf 276 plf

AT 41.5' (wl-para')=

W_{i-para} = 276 plf * 1.36 * 1.125 =

422 plf

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LATERAL LOAD AT FLOOR DIAPHRAGM

WIND PERPENDICULAR TO RIDGE: (TABLE 2.5A, 2001 WFCM)

FL,,,,'= 257 plf Fl_{tper} = Fl_{tper} * C_{MRM} * C_{MM} = Fl_{tper} = 257 pM * 1.36 * 1.125 = 393 plf

WIND PARALLEL TO RIDGE: (TABLE 2.58, 2001 W

Fl_{tyme} = Fl_{tyme} * C_{MM} * C_{MH} = Fl_{tyme} = 175 pbf * 1.36 * 1.125 : 268 ptf

DATE 7/12/07 **PFS CORPORATION** Cottage Grove, WI

LATERAL FRAMING CONNECTION LOADS FROM WIND: (TABLE 2.1, 2001 WFCM) (FOR ROOF-TO-PLATE, PLATE-TO-PLATE, PLATE-TO-STUD, AND PLATE-TO-FLOOR)

> 170 plf $m_{local} \simeq W_{local}$ $^{\circ}$ $C_{MRH} \simeq 170$ ptf $^{\circ}$ 1.36 \simeq 231.2 plf MULTIPLIER @ 24" O.C. (Ma) = MULTIPLIER @ 16" O.C. (Na) =

TRUSS TO TOP PLATE CONRECTION:

Pc = Weet * Mos = 231 pl/ 2 =

462.4 Bs

OF 0.131" x 2.5" COMMON NAIL (TOENAILED) REQUIRED =

Pc =_ 462 lbs = 7 NAILS

USE (7) 0.131" x 2.5" COMMON NAIL (TOENAILED) PER TRUSS

PLATE TO PLATE CONNECTION:

SPACING OF 0.131" x 2.5" COMMON NAIL (FACE NAILED) = Z*12 = 90 lbs * 12 =

4 in O.C.

ATTACH WITH 0.131" x 2.5" COMMON NAIL (FACE NAILED) AT 4" ON CENTER

PLATE TO STUD CONNECTION:

Pc = Wires * Mrs = 170 plf * 1.33 =

307 lbs

OF 0.131" x 2.5" COMMON NAIL (ENDNAILED) REQUIRED =

6 NAILS

USE (6) 0.131" x 2.5" COMMON MAIL (ENDNAILED) PER STUD

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BOTTOM PLATE TO FLOOR CONNECTION:

SPACING OF 0.131" x 2.5" COMMON NAIL (FACE NAILED) =

Z*12 =_ 90 lbs * 12 = 4 in O.C.

231 plf

ATTACH WITH 0.131" x 2.5" COMMON MAIL (FACE NAILED) AT 4" ON CENTER

FIRST FLOOR ENDWALL SHEATHING LENGTH REQUIREMENTS (BEDROOM #2 / BATH #1 SIDE)

FIRST FLOOR WIDTH (W1) =

41.5 8

FIRST FLOOR LENGTH (L) =

60 ft

SHEARWALL TYPE: 7/16" OSB EXTERIOR (BLOCKED) w/ 1/2" GWB INTERIOR

SHEATHING EDGE 8d NAIL SPACING =

2 in O.C. (8d NAILS OR EQUIVALENT) 940 plf (TABLE 3.17D, 2001 WFCM)

SHEARWALL STRENGTH (V) = MIN. SHEARWALL SEGMENT LENGTH =

2.6 R

FULL HEIGHT SHEATHING PROVIDED =

28.5 R 90 %

APPROVED

1st FL PERCENT FULL HEIGHT SHEATHING= 1st FL. MAX. UNRESTRAINED OPENING HEIGHT = 1st FL. PERFORATED ADJUSTMENT FACTOR(Co) = 1st FL NUMBER OF SHEARWALLS (N_) =

5 ft 1.05 (TABLE

DATE 7/12/07 PFS CORPORATION

SHEARWALL REACTION (Realt) = L1 * Wiper / Nord = Rends = 60 ft * 721 ptf / 2 =

Cottage Grove, WI

MIN. LENGTH SEGMENTED SHEARWALLS (L_) = Rent / V = 21628 lbs / 940 pif =

PERFORATED FULL HEIGHT SHEATHING LENGTH REQUIRED (ENDWALL) = Cp * I_W = 238*1.05=

24.16 R

PERFORATED FULL HEIGHT SHEATHING REQUIRED = 24.16 ft

PERFORATED FULL HEIGHT SHEATHING PROVIDED = 28.5 ft

ENDWALL SHEARWALLS OK ALL EXTERIOR SHEATHING TO BE BLOCKED UNO FRAMING AT ADJOINING PANEL EDGES TO BE 3" NOMINAL OR WIDER AND NAILS SHALL BE STAGGERED

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FIRST FLOOR ENDWALL SHEATHING LENGTH REQUIREMENTS (KITCHEN SIDE)

FIRST FLOOR WIDTH (W₁) =

41.5 ft

FIRST FLOOR LENGTH (L1) =

60 R

SHEARWALL TYPE: 7/16" OSB EXTERIOR (BLOCKED) w/ 7/16" OSB INTERIOR

SHEATHING EDGE 8d NAIL SPACING =

2 in O.C. (8d NAILS OR EQUIVALENT)

SHEARWALL STRENGTH (V) =

1680 plf (TABLE 3.17D, 2001 WFCM) 26 \$

MIN. SHEARWALL SEGMENT LENGTH = FULL HEIGHT SHEATHING PROVIDED #

15.75 R

2

1st FL. PERCENT FULL HEIGHT SHEATHING=

100 %

1st FL MAX. UNRESTRAINED OPENING HEIGHT =

0 t

1st FL PERFORATED ADJUSTMENT FACTOR(Cp) =

1 (TABLE 3.17E, 2001 WFCM)

1st FL. NUMBER OF SHEARWALLS (N_d) =

SHEARWALL REACTION (Runt) = L1 * Wiper / Nant =

Rend1 = 60 t . 721 ptf /2 =

21628 lbs

MIN. LENGTH SEGMENTED SHEARWALLS (La) = Rad / V = 21628 lbs / 1680 pif =

12.9 1 12.87 12

PERFORATED FULL HEIGHT SHEATHING LENGTH REQUIRED (ENDWALL) = Cp * Im = 12.911*1=

PERFORATED FULL HEIGHT SHEATHING

REQUIRED = 12.87 9

PERFORATED FULL HEIGHT SHEATHING

PROVIDED = 15.1

ENDWALL SHEARWALLS OK

OR WIDER AND NAILS SHALL BE STAGGERED

ALL EXTERIOR SHEATHING TO BE BLOCKED UN

FRAMING AT ADJOINING PANEL EDGES TO BE 3" NO

PFS APPROVED

NAL DATE 7/12/07

FIRST FLOOR HORIZONTAL FLOOR DIAPHRAGM CONTINUITY:

PFS CORPORATION

Cottage Grove, WI

MODULE TO MODULE CONNECTION AT FLOOR RIMBAND: (ALONG MATE CIRE)

(DEEP BEAM HORIZONTAL SHEAR)

V,= (3°F.p./4)°L=

3/4<u>*393 pif*60 ft = 8847.225</u> lbs

1/2" DIA. THRU BOLT =

<u>V.</u> = 8847 lbs = Z_{1/2 80k,7} 725 lbs Z_{1/2 BOLT}

13 BOLTS

USE A MIN. OF (13) 1/2" DIA.THRU BOLTS TO ATTACH MODULE TO MODULE ALONG MATE LINE

MODULE TO MODULE CONNECTION AT FLOOR RIMBAND: (AT ENDWALLS)

(CHORD FORCE CONTINUITY)

T = (3 * Figur / 4) * (L / 2) =

3/4 * 393 plf * 60 ft / 2 =

2212 lbs

USE A (2) 1.5" x 20 ga. STRAP w/ (46) 16 ga. STAPLES EACH END TO ATTACH MODULE TO MODULE AT EACH ENDWALL OR CONNECTION TO WITHSTAND AN TENSILE FORCE OF 2212 lbs

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NATIONWIDE CUSTOM HOMES

FIRST FLOOR ENDWALL: UPLIFT DUE TO OVERTURNING

FIRST FLOOR WIDTH (W₁) = SHEARWALL REACTION (Regat) = 41.5 8

WALL HEIGHT (H) =

21628 bs 9 8

UPLIFT FORCE (UE) = Read + H/W1 =

Uet = 21628 lbs * 9 ft / 41.5 ft =

4691 lbs

SEE PAGE 15 FOR CONNECTION DESIGN

FIRST FLOOR ENDWALL: SHEAR CONNECTIONS

FIRST FLOOR WIDTH (W.) =

FIRST FLOOR LENGTH (L) =

DATE 7/12/07 41.5 60

PFS CORPORATION Cottage Grove, WI

FL_{iper}s

1/2" ANCHOR BOLT

721 Z= Z=

393

1056 lbs 1488 lbs

5/8" ANCHOR BOLT 0.162" x 3.5" COMMON NAIL (TOENAILED)

RIMBAND TO SILL PLATE CONNECTION:

LAT = (W_{iper} + 3 * FL_{iper} / 4) =

LAT = 721 plf+3 * 393 plf/4=

1016 ptf 30476 lbs

V = LAT *L/2= 1016 ptf *60 ft/2 =

#TOENALS PER FOOT = V/2/W = 30476 lbs / 159 lbs / 41.5 ft =

4.6 NAILS / R

TOENAIL SPACING =

12/#= 12/4.6=

2 °O.C.

USE 0.162" x 3.5" COMMON NAIL (TOENAILED) ${\bf Q}$ 2" ON CENTER

SILL PLATE TO FOUNDATION CONNECTION:

1/2" ANCHOR BOLTS =

V/Z = 30476 lbs / 1056 lbs =

29 BOLTS

BOLT SPACING = (W-2)/(N-1)= (41.5 R-2)/(29-1)=

16 in

USE 1/2" ANCHOR BOLTS @ 16" O.C ANCHOR BOLTS TO BE A MIN. OF 4" AND A MAX. OF 1"-0" FROM CORNERS

5/8" ANCHOR BOLTS =

V/Z= 30476 bs/1488 lbs=

21 BOLTS

BOLT SPACING = (W-2)/(N-1)= (41.5 fl-2)/(21-1)=

23 in

USE 5/8" ANCHOR BOLTS @ 23" O.C ANCHOR BOLTS TO BE A MIN. OF 4" AND A MAX. OF 1"-0" FROM CORNERS

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FIRST FLOOR SIDEWALL SHEATHING LENGTH REQUIREMENTS (MASTER BEDROOM / KITCHEN SIDE)

FIRST FLOOR WIDTH (W4) =

FIRST FLOOR LENGTH (L) =

60 R

SHEARWALL TYPE: 7/16" OSB EXTERIOR (BLOCKED) w/ 1/2" GWB INTERIOR SHEATHING EDGE 8d NAIL SPACING =

6 in O.C. (8d NAILS OR EQUIVALENT)

SHEARWALL STRENGTH (V) =

436 plf (TABLE 3.17D, 2001 WFCM)

MIN. SHEARWALL SEGMENT LENGTH =

2.6 ft

FULL HEIGHT SHEATHING PROVIDED =

33.5 ft

1st FL. PERCENT FULL HEIGHT SHEATHING=

56 %

1st FL. MAX. UNRESTRAINED OPENING HEIGHT = 1st FL. PERFORATED ADJUSTMENT FACTOR(Cp) =

2.6 A 1.38 (TABLE 3.17E, 2001 WFCM)

1st FL. NUMBER OF SHEARWALLS (Nata) =

SHEARWALL REACTION (Rate) = W1 * W1 para / Nate = Rater = 41.5 ft 422 pl/ 2 =

8752 lbs

MIN. LENGTH SEGMENTED SHEARWALLS (L_) = R_{sdat} / V = 8752 lbs / 438 ptf =

20.1 ft

PERFORATED FULL HEIGHT SHEATHING LENGTH REQUIRED (SIDEWALL) = Cp * Im = 20.1*1.36=

27.3 ft

PERFORATED FULL HEIGHT SHEATHING

REQUIRED = 27.3 ft

PERFORATE PROVIDED =

APPROVED

SIDEWALL SHEARWALLS OK ALL EXTERIOR SHEATHING TO BE BLOCKED INO

DATE 7/12/07 **PFS CORPORATION**

Cottage Grove, WI

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FIRST FLOOR SIDEWALL SHEATHING LENGTH REQUIREMENTS (BEDROOM #2/ LIVING ROOM SIDE)

FIRST FLOOR WIDTH (W.) =

41.5 R 60 R

FIRST FLOOR LENGTH (L1) =

SHEARWALL TYPE: 7/16" OSB EXTERIOR (BLOCKED) w/ 7/16" OSB INTERIOR

SHEATHING EDGE 8d NAIL SPACING =

2 in O.C. (8d NAILS OR EQUIVALENT)

SHEARWALL STRENGTH (V) =

1680 plf (TABLE 3.17D, 2001 WFCM)

MIN. SHEARWALL SEGMENT LENGTH =

2.6 ft 12.25 R

FULL HEIGHT SHEATHING PROVIDED =

20 %

1st FL PERCENT FULL HEIGHT SHEATHING= 1st FL. MAX. UNRESTRAINED OPENING HEIGHT #

6.8 %

1st FL PERFORATED ADJUSTMENT FACTOR(Cp) =

1.92 (TABLE 3.17E, 2001 WFCM)

1st FL. NUMBER OF SHEARWALLS (NLL) =

SHEARWALL REACTION ($R_{\rm inight}$) = W_1 * $W_{\rm i-perp}$ / $N_{\rm oldo}$ = Ruter = 41.5 ft * 422 ptf / 2 =

8752 lbs

MIN. LENGTH SEGMENTED SHEARWALLS (L_m) = R_{clien} / $V \simeq 8752$ lbs / 1680 pit =

5.2 t

PERFORATED FULL HEIGHT SHEATHING LENGTH REQUIRED (SIDEWALL) = Cp * |m = 5.2*1.92= PERFORATED FULL HEIGHT SHEATHING

REQUIRED = 10 ft

PERFORATE FIN I MENSU PROVIDED =

10.0 ft

SIDEWALL SHEARWALLS OK

- APPROVED DATE 7/12/07

ALL EXTERIOR SHEATHING TO BE BLOCKED UNO DATE 7/12/07
FRAMING AT ADJOINING PANEL EDGES TO BE 3 HOUSE OF STATE OF WIDER AND MAILS SHALL BE STAGGET TO PTS CORPORATION

Cottage Grove, WI

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FIRST FLOOR SIDEWALL SHEATHING LENGTH REQUIREMENTS (DEN SIDE)

FIRST FLOOR WIDTH (W1) = FIRST FLOOR LENGTH (L,) =

41.5 ft 60 R

TRIBUTARY LENGTH (L-) =

13.75 ft

SHEARWALL TYPE: 7/16" OSB EXTERIOR (BLOCKED) w/ 1/2" GWB INTERIOR

SHEATHING EDGE 8d NAIL SPACING =

6 to O.C. (8d NAILS OR EQUIVALENT) 436 plf (TABLE 3.17D, 2001 WFCM)

SHEARWALL STRENGTH (V) =

2.6 R

MIN. SHEARWALL SEGMENT LENGTH = FULL HEIGHT SHEATHING PROVIDED =

11.5 ft

1st FL. PERCENT FULL HEIGHT SHEATHING=

44 %

1st FL. MAX. UNRESTRAINED OPENING HEIGHT =

5.0 8

1st FL. PERFORATED ADJUSTMENT FACTOR(Cp) =

1.39 (TABLE 3.17E, 2001 WFCM)

1st FL. NUMBER OF SHEARWALLS (N...) =

SHEARWALL REACTION (R_{state}) = L_T * $W_{l.pers}$ / N_{state} =

Retort = 13.75 ft 422 ptf / 2 =

2900 lbs

MIN. LENGTH SEGMENTED SHEARWALLS (I_m) = R_{sidet} / V = 2900 lbs / 436 pff =

6.7 ft

PERFORATED FULL HEIGHT SHEATHING LENGTH REQUIRED (SIDEWALL) = Cp * Im = 8.7*1.39*

9.2 ft

PERFORATED FULL HEIGHT SHEATHING

REQUIRED = 9.24 ft

PERFORATED FULL HEIGHT SHEATHING PROVIDED = 11.5 ft

SIDEWALL SHEARWALLS OK

<

ALL EXTERIOR SHEATHING TO BE PLOCKED

FIRST FLOOR SIDEWALL: UPLIFT DUE TO OVERTURNING

FIRST FLOOR WIDTH (W1) = FIRST FLOOR LENGTH (L) =

SHEARWALL REACTION (Rust) = WALL HEIGHT (H) =

41.5 60 8752

DATE 7/12/07

APPROVED

PFS CORPORATION Cottage Grove, WI

UPLIFT FORCE (U_{E1}) = $R_{end1} \circ H/L_1$ = Ue1 = 8752 lbs * 9 ft / 60 ft =

1313 lbs

SEE PAGE 15 FOR CONNECTION DESIGN

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FIRST FLOOR SIDEWALL: SHEAR CONNECTIONS

FIRST FLOOR WIDTH (W.) = FIRST FLOOR LENGTH (L) =

FL_{ipma} =

W.,.... = 1/2" ANCHOR BOLT

5/8" ANCHOR BOLT 0.162" x 3.5" COMMON NAIL (TOENAILED)

- APPROVED DATE 7/12/07 41.5 R **PFS CORPORATION** 60 ft 393 pl Cottage Grove, WI 721 pi Z=

1488 lbs

159 lbs

RIMBAND TO SILL PLATE CONNECTION:

LAT = (W_{Lowa} + 3 * FL_{Lowa} / 4) = LAT = 721 ptf + 3 * 393 ptf / 4 =

Z=

Z=

688 ptf

V= LAT "W1/2= 688 ptf 41.5 ft/2=

14278 lbs

TOENAILS PER FOOT = V/2/L; = 14278 lbs / 159 lbs / 60 R =

1.5 NAILS / R

TOENAIL SPACING = 12/#= 12/1.5= 8 ° O.C.

USE 0.162" x 3.5" COMMON NAIL (TOENAILED) @ 8" ON CENTER

SILL PLATE TO FOUNDATION CONNECTION:

1/2" ANCHOR BOLTS =

V/Z = 14278 lbs/1056 lbs =

14 BOLTS

BOLT SPACING = (L-2)/(N-1)=

53 in

USE 1/2" ANCHOR BOLTS @ 53" O.C ANCHOR BOLTS TO BE A MIN. OF 4" AND A MAX. OF 1"-0" FROM CORNERS

5/8" ANCHOR BOLTS =

V/Z = 14278 lbs / 1488 lbs =

10 BOLTS

BOLT SPACING = (L-2)/(N-1)=

(60 ft - 2) / (10 - 1) =

(60 R - 2) / (14 - 1) =

72 in

USE 5/8" ANCHOR BOLTS @ 72" O.C ANCHOR BOLTS TO BE A MIN. OF 4" AND A MAX. OF 1'-0" FROM CORNERS

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NATIONWIDE CUSTOM HOMES

COMBINED CORNER HOLDDOWN REQUIREMENTS

UPLIFT FORCES: (SEE ABOVE FOR CALCULATIONS)

1st FLOOR ENDWALL UPLIFT FORCE (UL) =

1st FLOOR SIDEWALL UPLIFT FORCE (Ub) =

4691 lbs 1313 bs

DEAD LOADS:

FIRST FLOOR WIDTH (W₁) = FIRST FLOOR LENGTH (L) =

FIRST FLOOR HEIGHT (H,) =

ROOF & CEILING ASSEMBLY DEAD LOAD (RDL) =

WALL DEAD LOAD (WOL) =

FLOOR DEAD LOAD (FDL) =

41.5 R 60 A APPROVED 15 ps 12 ps DATE 7/12/07 10 psf

PFS CORPORATION

SIDEWALL FIRST FLOOR CORNER: ROOF DEAD LOAD = 0.6 * RDL * W1 * L1 / 8 =

ROOF DEAD LOAD = 0.6 * 15 psf * 41.5 ft * 60 ft / 8 = WALL DEAD LOAD = 0.6 * (WDL * H1 * L1 / 2) =

WALL DEAD LOAD = 0.6 * 12 psf * 9 1 * 60 1/2 =

TOTAL DEAD LOAD = 1944 + 2801 =

2801 lbs

Cottage Grove, WI

1944 ibs 4746 bs

ENDWALL FIRST FLOOR CORNER:

WALL DEAD LOAD = 0.6 * (WDL * H; * W; /2) = WALL DEAD LOAD = 0.6 * 12 psf * 9 ft * 41.5 ft / 2 =

1345 lbs

FIRST FLOOR HOLDDOWNS

UPLIFT FORCE =

4691 lbs (MAX. OF FIRST FLOOR UPLIFT FORCES)

FIRST FLOOR DEAD LOAD (DL₁) = 4746 lbs + 1345 lbs =

6091 lbs

HOLDDOWN FORCE = 4691 lbs - 6091 lbs =

-1400 ibs

NO PHYSICAL HOLDDOWN REQUIRED

FIRST FLOOR CORNER STUD CONNECTION

16d COMMON NAIL ALLOWABLE SHEAR (Z) =

UPLIFT FORCE =

4691 lbs (MAX. OF FIRST FLOOR UPLIFT FORCES)

NAIL SPACING (2 ROWS) = 2 H Z = 2 9 R 159 lbs = U

4691 lbs

OF 1/4" DIA. LAG SCREW REQUIRED =

4691 lbs = ñ

15 LAG SCREWS

Z 320 lbs

8 in O.C.

FASTEN CORNER STUDS 2 ROWS OF 18d COMMON NAILS ${\bf Q}$ 8" ON CENTER OR USE (15) 1/4" DIA. LAG SCREWS

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GTC Design Group, LLC 176 NW Lake Jeffery Road Lake City, FL 32643 (Phone) 386.719.9985 (Fax) 386.719.8828 cwilliams@gtcdesigngroup.com

Finish Floor Elevation Certification

Owner:

L. Martin Mink

22185 S. US Highway 441 High Springs, FL 32643

Parcel Number:

15-78-17-09995-004

Foundation Requirements:

For protection against water damage, the minimum finish floor elevation of the proposed structure shall be 12 inches above the existing ground at any point along the perimeter of the proposed structure. In no case shall the finish floor elevation be more than 36 inches below the centerline of the adjacent roadway.

The ground around the proposed structure shall be graded such as to convey all stormwater runoff away from the proposed structure.

The above elevations are based on the structure's current staked location, approximately +/-350 feet East from the adjacent state road's right of way.

Chad Williams

P.E. License Number: 63144

August 24, 2007



partment of Building and Zoning | COLUMBIA COUNTY, FLORIDA Inspection

and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code This Certificate of Occupancy is issued to the below named permit holder for the building

Parcel Number 15-7S-17-09995-004

Fire: 0.00

Building permit No. 000026138

Permit Holder OWNER

Use Classification MODULAR HOME

Owner of Building LAURENCE MINK

Waste:

Total:

0.00

Location: 22185 S US HIGHWAY 41, HIGH SPRINGS, FL 32643

Date: 12/20/2007

Light for larly force

Building Inspector

POST IN A CONSPICUOUS PLACE (Business Places Only)