

Wind Pressure Summary for CEC Zones based Upon Annex Ch. 30 Pt. 1 (Table 1 of 3)  
All wind pressures include a Load Factor of 0.6

Zone	Figure	h <sub>w</sub> <sup>2</sup> 2.00 sq ft	h <sub>w</sub> <sup>2</sup> 4.00 sq ft	h <sub>w</sub> <sup>2</sup> 10.00 sq ft
1	30.3-2C	11.16 - 21.30	10.26 - 21.30	9.60 - 21.30
2e	30.3-2C	11.16 - 21.30	10.26 - 21.30	9.60 - 21.30
2n	30.3-2C	11.16 - 33.99	10.26 - 33.99	9.60 - 33.99
2r	30.3-2C	11.16 - 33.99	10.26 - 33.99	9.60 - 33.99
3e	30.3-2C	11.16 - 33.99	10.26 - 33.99	9.60 - 33.99
3r	30.3-2C	11.16 - 47.93	10.26 - 47.93	9.60 - 39.65
4	30.3-1	14.96 - 16.23	14.96 - 16.23	14.96 - 16.23
5	30.3-1	14.96 - 20.04	14.96 - 20.04	14.96 - 20.04

**PLANS AND SPECIFICATIONS**

The plans and specifications presented herein are applicable only for the anticipated construction at the locations shown. If construction plans change, the Design Professional should be notified so the plans and specifications can be re-evaluated. The Design Professional should be given the opportunity to review final plans and specifications to see if the intent of the plans and specifications has been followed and/or if supplemental details and recommendations are needed. The Design Professional warrants that the plans and specifications contained herein, have been prepared in accordance with generally accepted professional engineering practice. No other warranties are implied or expressed.

**CORPORATE PROTECTION**

It is understood and agreed that the Design Professional's Basic Services under this Agreement do not include project observation or review of the Contractor's performance or any other construction phase services, and that such services will be provided by the Client. The Client assumes all responsibility for interpretation of the contractor Documents and for construction observation and supervision and waives any claims against the Design Professional that may be in any way connected thereto.

In addition, the Client agrees, to the fullest extent permitted by law, to indemnify and hold the Design Professional harmless from any loss, claim or cost, including reasonable attorney's fees and costs of defense, arising or resulting from the performance of such services by other person or entities and from any and all claims arising from modifications, clarifications, interpretations, adjustments or changes made to Contract Documents to reflect changed field or other conditions, except for claims arising from the sole negligence or willful misconduct to the Design Professional.

**OWNERSHIP OF INSTRUMENTS OF SERVICE**

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by the Design Professional as instruments of service shall remain the property of the Design Professional. The Design Professional shall retain all common law, statutory and other reserved rights, including the copyright thereto.

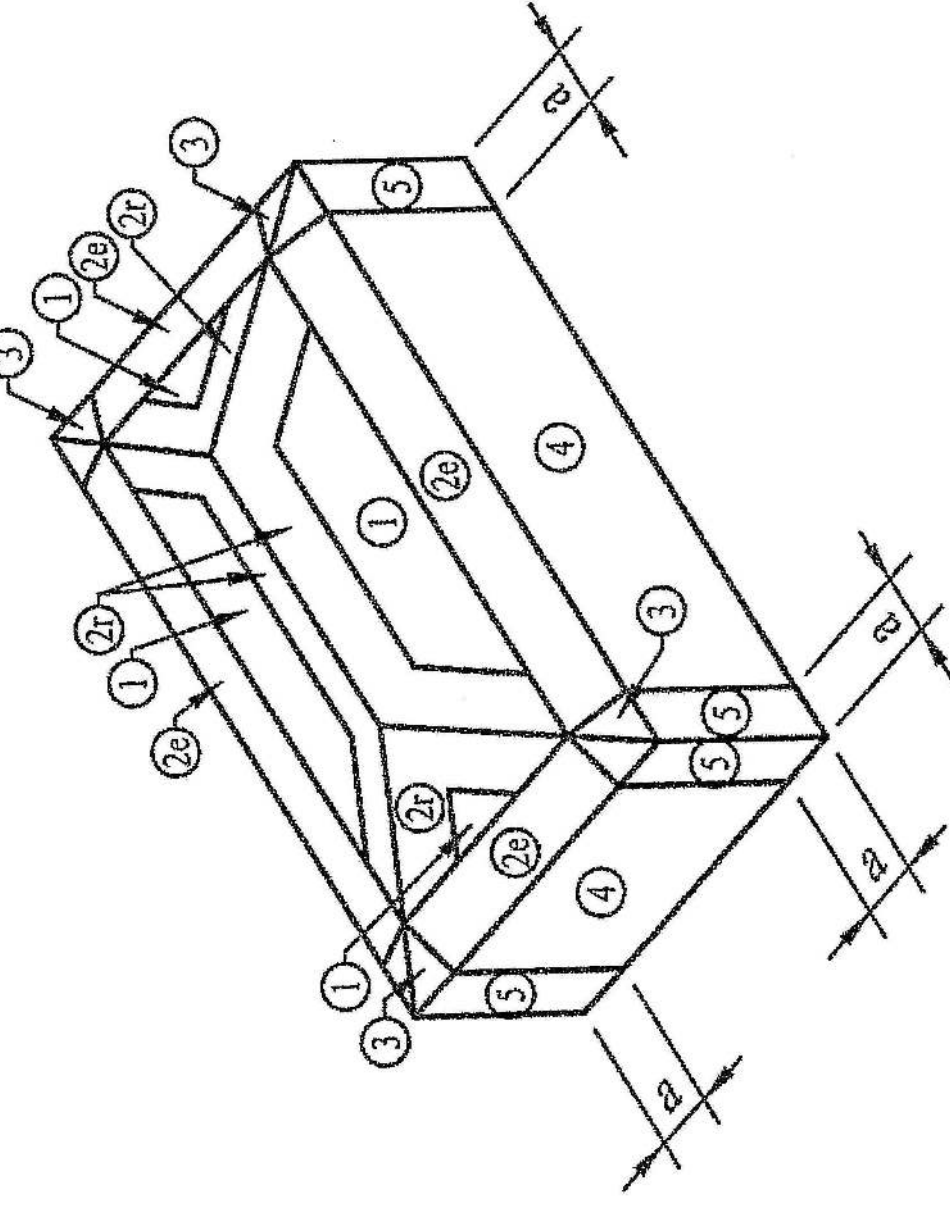
**DEFECTS IN SERVICE**

The Client shall promptly report to the Design Professional any defects or suspected defects in the Design Professional's work or services of which the Client becomes aware, so that the Design Professional may take measures to minimize the consequences of such a defect. The Client warrants that he or she will impose a similar notification requirement on all contractors in his or her Client/Contractor contract and shall require all subcontractors at any level to contain a like requirement. Failure by the Client, and the Client's contractors or subcontractors to notify the Design Professional, shall relieve the Design Professional of the costs of remedying the defects above the sum such remedy would have cost had prompt notification been given.

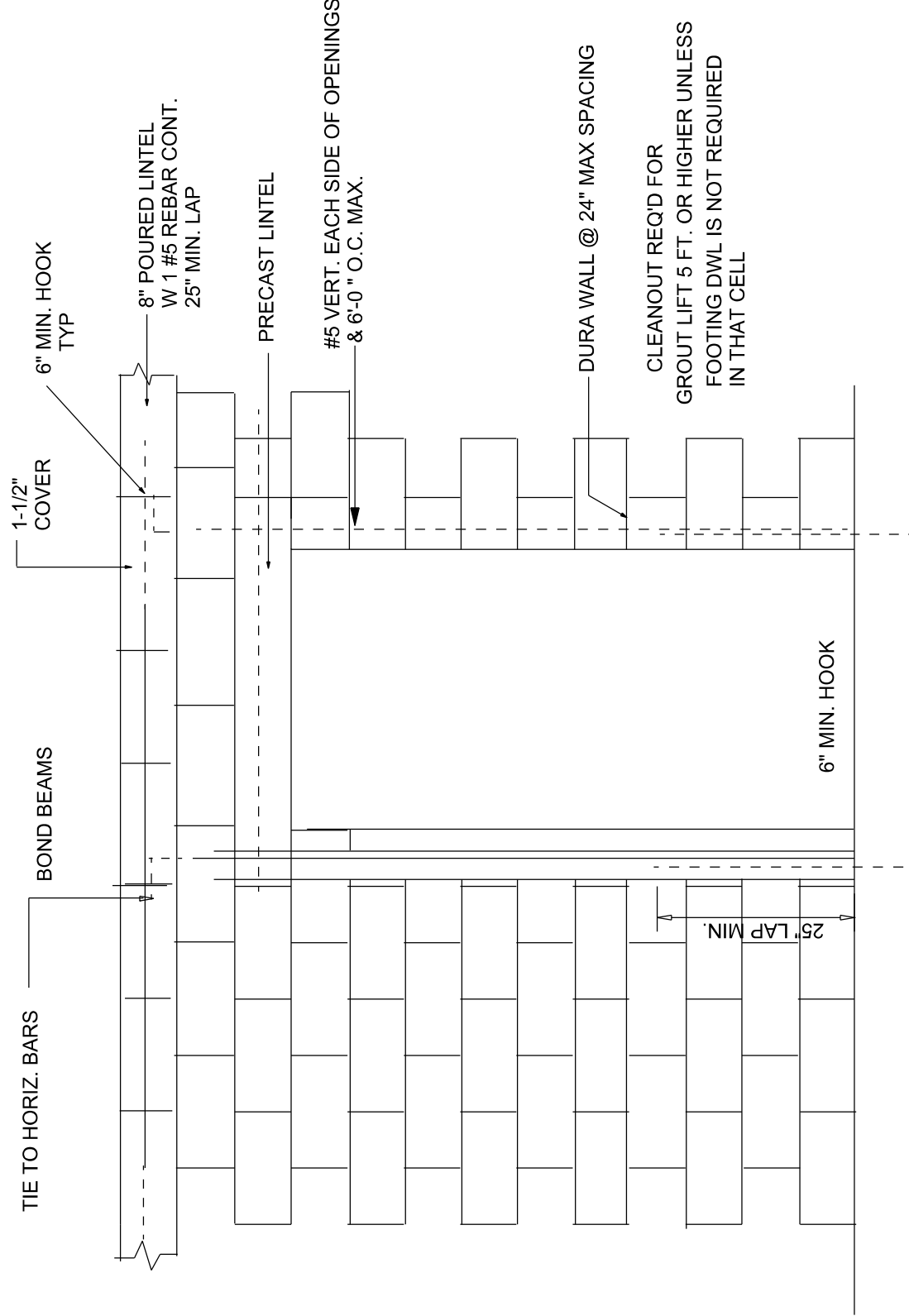
**VERIFICATION OF EXISTING CONDITIONS**

Inasmuch as the remodeling and/or rehabilitation of an existing building requires that certain assumptions be made regarding existing conditions, and because some of these assumptions may not be verifiable without expending additional sums of money or destroying otherwise adequate or serviceable portions of the building, the Client agrees, to the fullest extent permitted by law, to indemnify and hold the Design Professional harmless from any claim, liability or cost (including reasonable attorney's fees and costs of defense) for injury or economic loss arising or allegedly arising out of the professional services provided under this Agreement, excepting only those damages, liabilities, or costs attributable to the sole negligence or willful misconduct of the Design Professional.

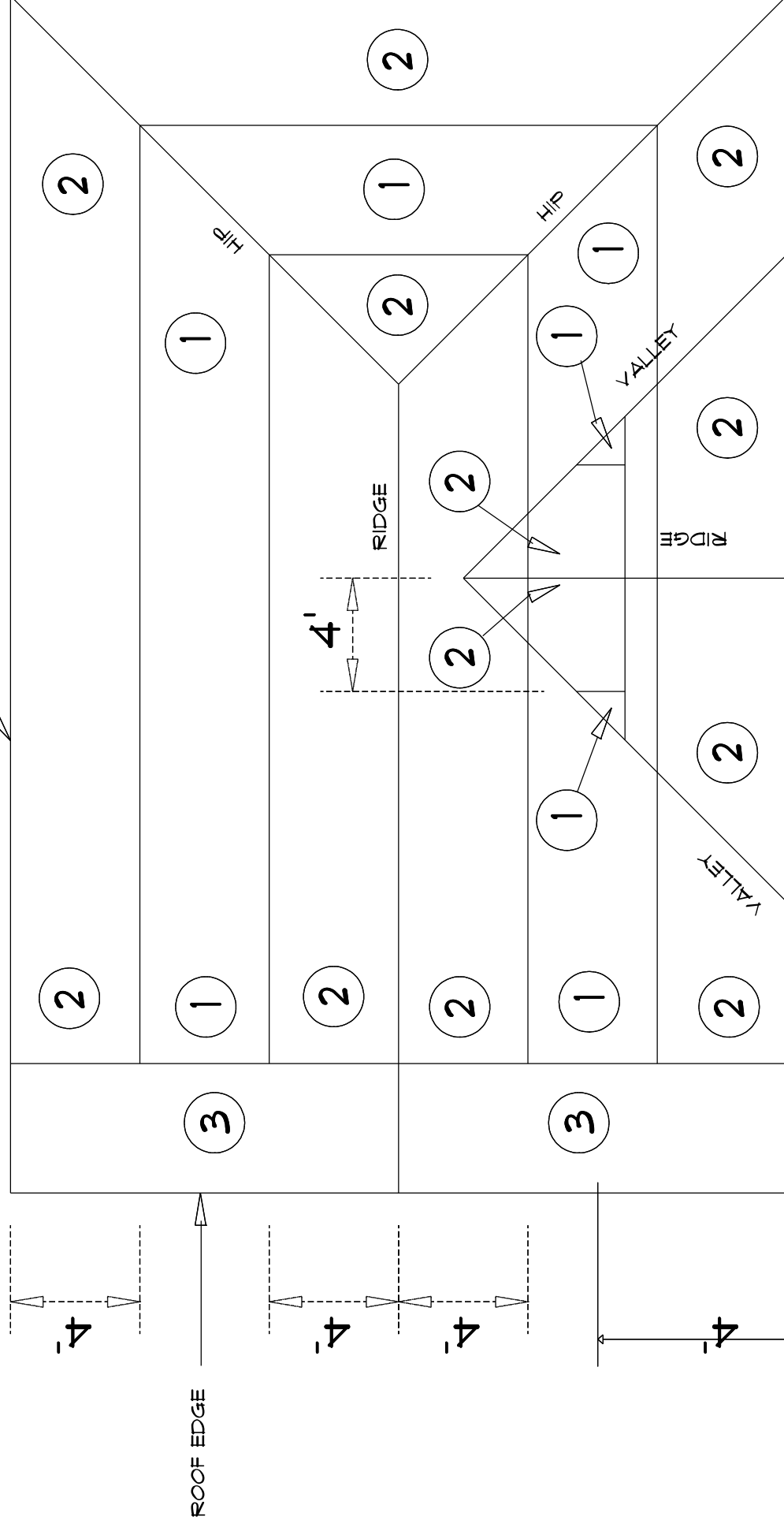
PROFESSIONAL SERVICES BY  
DRISCOLL ENGINEERING, INC.  
PO BOX 357577  
GAINESVILLE, FL 32609  
PH (352)-337-1513  
CA 8690



Hip Roof ( $7^\circ \leq \theta \leq 45^\circ$ )



CMU WALL OPENING REINFORCING NTS



NOTES:  
1. ALL EDGES AT TRUSSES 6" O.C. ON THE EDGE AND INTERMEDIATE TRUSSES 12" O.C.  
2. ALL WALLS TO BE #8 RING SHANK NAILS MIN.

ROOF ATTACHMENT PLAN

Certification  
I hereby certify that the accompanying wind load analysis for the New Residence as described above demonstrates compliance with the FBC 2020 7th Edition Section 1609, to the best of my knowledge.

- Project Wind load Information
- Ultimate wind speed = 130 MPH
  - Nominal wind speed = 101 MPH
  - Risk Category = II
  - Wind exposure for this design is Exposure B
  - Interior Pressure Coefficient or Gcpi = +/- 0.18
  - For design of MWFRS: see attached MECAWind Version 2.1.0.6 per ASCE 7-10
  - Roof Design live load 20 psf.
  - Floor Design load 40 psf.

Drawings  
See drawings for additional details. In case of conflict, the more restrictive requirements of the drawings or these calculations govern.

Roof Structure

- Trusses: Pre-engineered wood trusses at 24" o.c. The Truss engineering for this project was provided by Builders FirstSource, job# 2830612 Signed & Sealed by Phillip J. O'Regan P.E. # 58126 Dated: August 24, 2021.

- Roof Sheathing: Sheathing to be or 7/16" Structural Sheathing min. to adequately resist exterior shear and uplift forces due to nailing. Panels to be facenailed w/ #8 ring shank (0.113 Dia.) @ 4" oc along edges and @ 8" oc along interior supports. Galv. metal edging to be nailed @ 4" oc.

- Roofing: Asphalt Shingles shall be installed per mfg. specifications to meet 130 m.p.h. windloading & in accord with the Florida Building Code 2020.

Exterior Walls

- Exterior Wall: 8" Concrete Masonry Units (ASTM C90 or C145, 1500 psi min) will adequately resist exterior shear forces. Mortar type M.
- Bond Beam to be (1) 8" min. Masonry with (1) #5 reinforcement with grout continuous. Note bond beam to remain continuous without breaks or interruptions to maintain shear transfer capacity. Minimum splice lap of #5 rebar is 25" at all locations. Install plated steel bearing plate at truss/masonry bearing points. Vertical spacing of grouted reinforced cells w/ (1) #5 rebar is to be 6'-0" o.c. typical. Install a minimum of 1 each vertical #5 bar in each cell on either side of each corner and on each side of any openings. Minimum splice lap of #5 rebar is 25".

Foundations (sizes based on wind load requirements only):

- Stemwall Footing 20" wide x 10" deep w/ 2 #5 bars cont. 25" min bar lap.
- Interior Footing 12" deep x 20" wide w/ 2 #5 bars cont.

CAST CRETE LINTEL SCHEDULE	
LENGTH	TYPE
3'-0" TO 7'-0"	8F80B
7'-0" TO 10'-0"	8F81B
CARPORT	8F161B

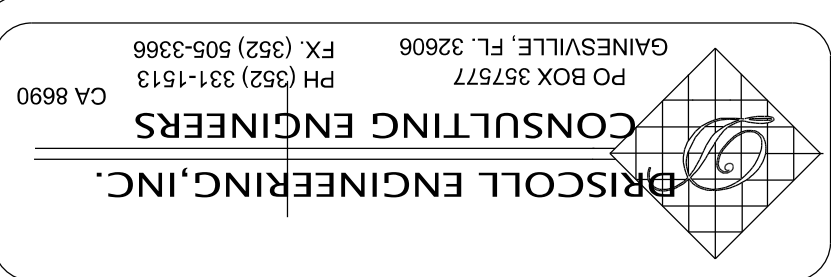
SHEAR WALLS QUANTITY  
TRANSVERSAL SHEARWALLS = 90'-0"  
LONGITUDINAL SHEARWALLS = 47'-0"

TO CONNECT	TO	NO.	PRODUCT CODE	FASTENER	UPLIFT CAPACITY LBS
TRUSS	LINTEL	HETA 20	HETA 20	9-10dX 1-1/2"	1810
GIRDER TRUSS	LINTEL	HETA 20	HETA 20	9-10dX 1-1/2"	1810
TRUSS	DBL TOP PLATE	H2.5T	H2.5T		585
STUDS	DBL TOP PLATE	H2.5T	H2.5T		585
STUDS	BOTTOM TOP PLATE	H2.5	H2.5		585
TRUSS T15	DBL TOP PLATE	2-H2.5T	2-H2.5T		585 EA.
CONCRETE	BOTTOM TOP PLATE		1/2" X 6" SIMPSON TITAN @ 32" MAX SPACING		

CONNECTOR SCHEDULE FOR LOAD BEARING & SHEAR WALLS



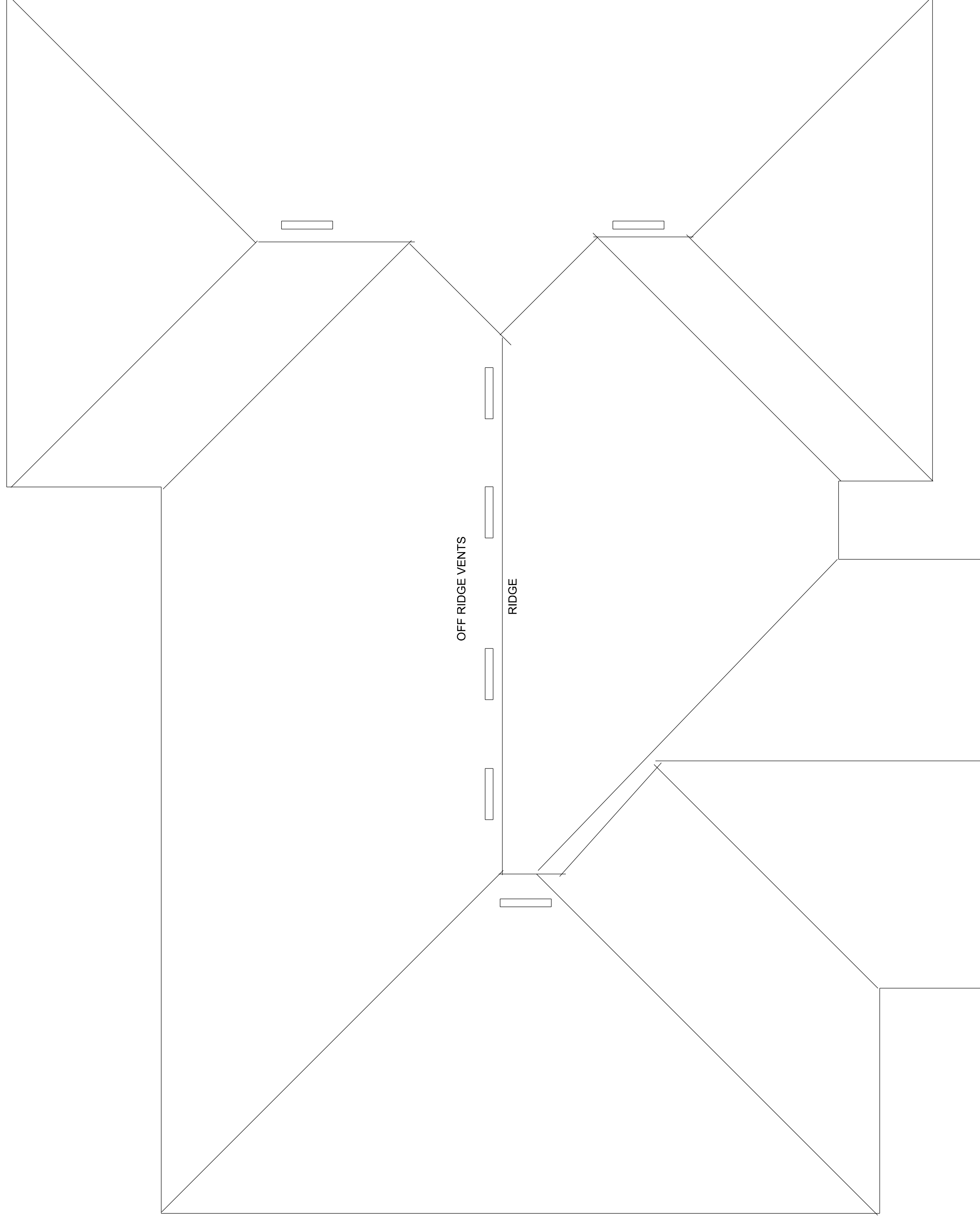
Digitally signed by Michael E. Driscoll PE  
Date: 2021.09.09 14:05:32 -04'00'



ANDERSON  
250 CAMPHOR CT  
LAKE CITY, FL DS21-106

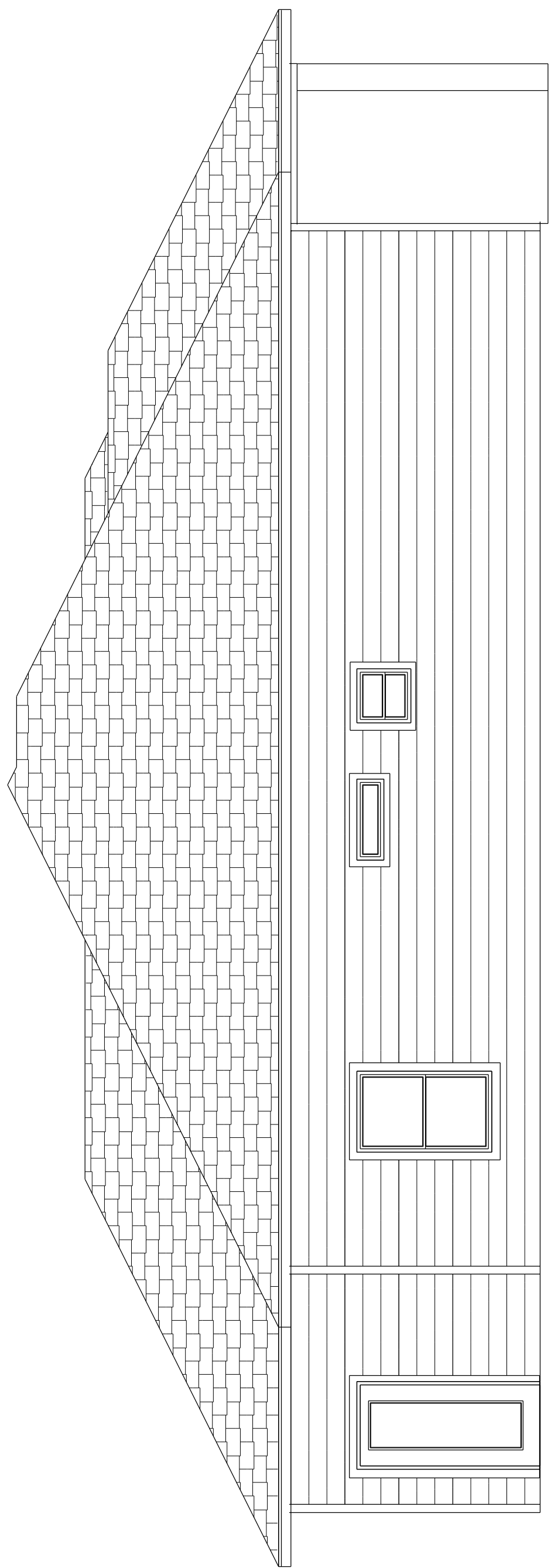
Sheet WL 1  
9-9-21

MICHAEL E DRISCOLL PE  
FL REG # 43922

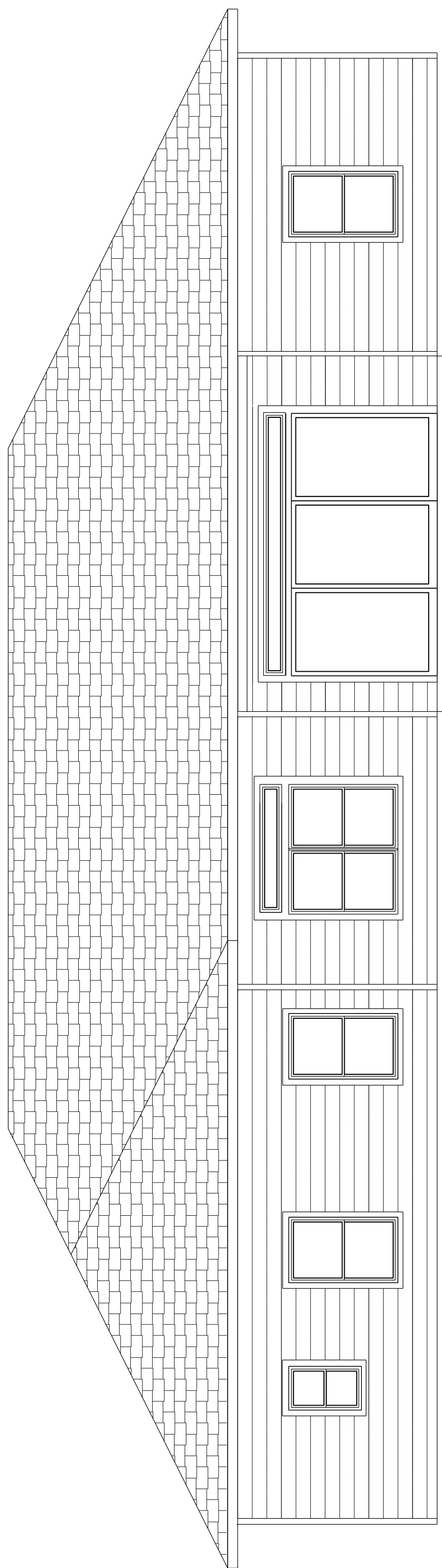


ROOF PLAN

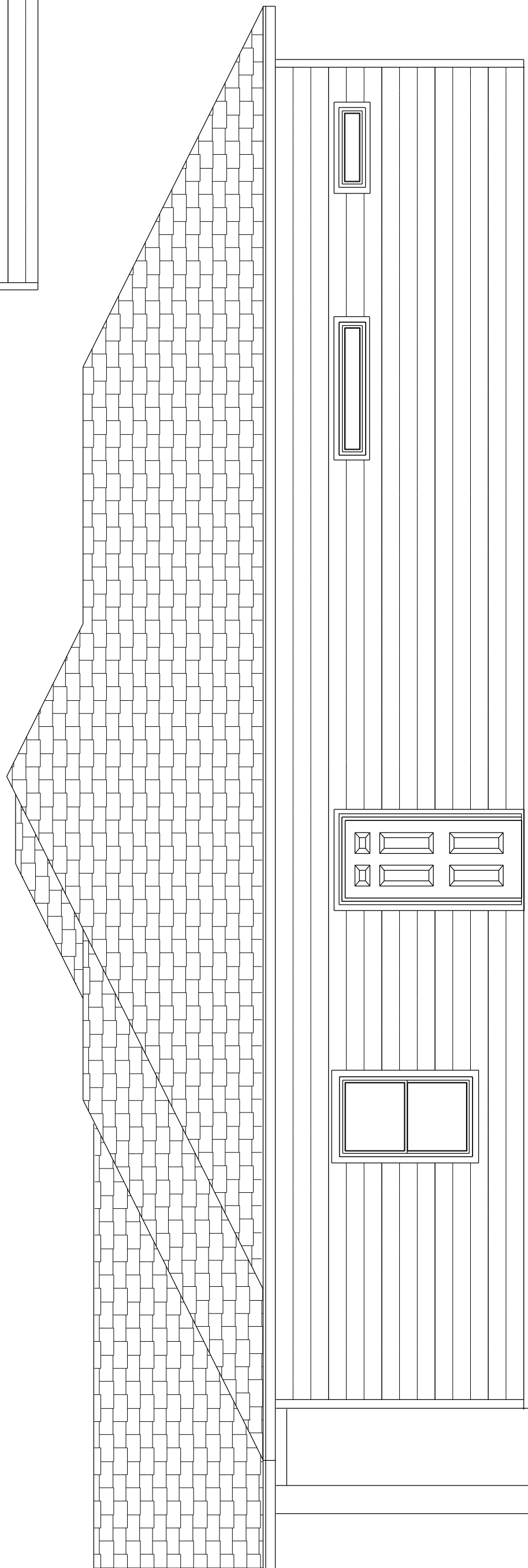
**VENTILATION**  
SQ. FT. OF NEW CEILING 3013/300 = 10.04 SQ. FT.  
NET FREE AREA / 2 = 5.2 SQ. FT. VENT SYSTEM  
REQUIRED  
EQUALS 723 SQ. IN.  
7 OFF RIDGE VENTS = 770 SQ. IN.  
TOTAL TO BE INSTALLED 770 SQ. IN.  
SOFT VENT SYSTEM 5.2 SQ. FT.  
DIVIDED BY 0.03226 S.F. PER SQ. FT.  
OF SOFT  
EQUALS S.F. OF SOFT PANEL PER SYSTEM 159 SQ. FT.  
DIVIDED BY 1.5 = 107 L.F. OF VENTED SOFT  
BUILDING HAS 200+ OF SOFT AVAILABLE



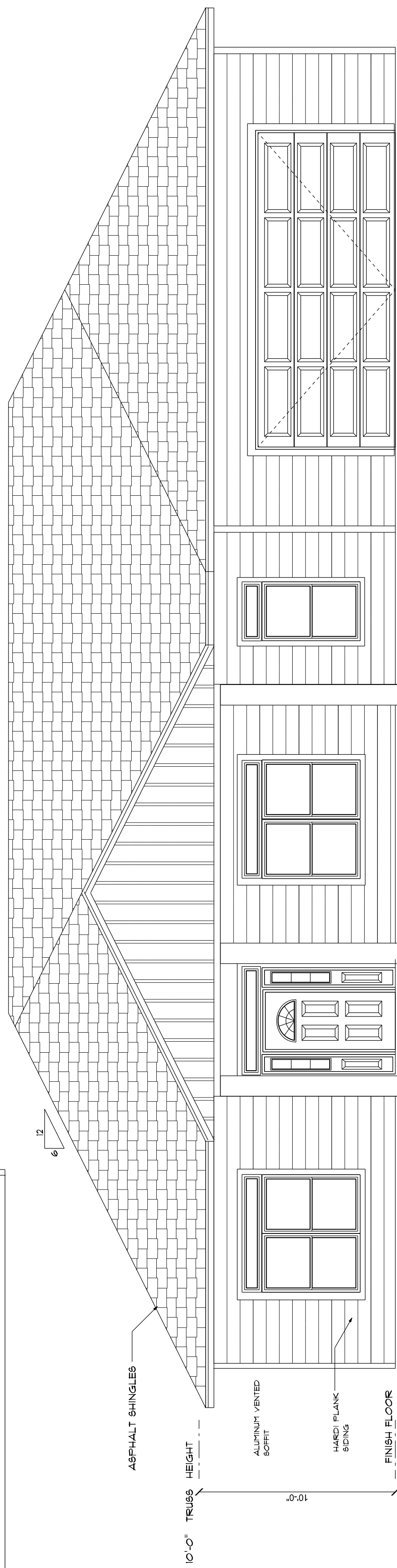
LEFT ELEVATION



REAR ELEVATION



RIGHT ELEVATION



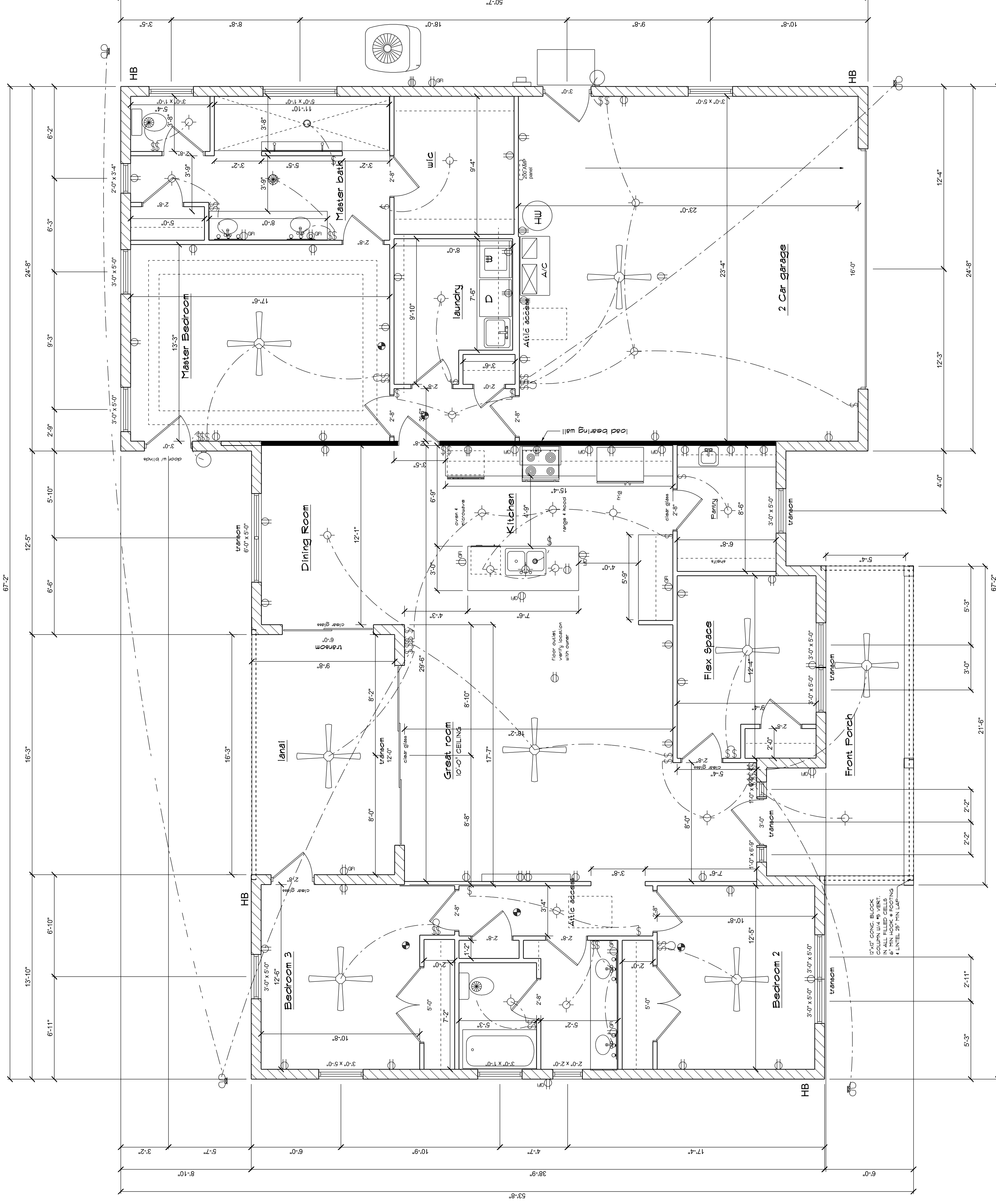
FRONT ELEVATION



1. THIS RESIDENCE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE WITH THE EXCEPTIONS LISTED BELOW.
2. ALL CEILING SUELECTRICAL SHALL BE MIN 5/8"
3. ALL AREAS EXCEPT WHERE CEPT RECEPTALS ARE REQUIRED RECEPTALS SHALL BE ARO FAULT
4. ELECTRICAL DESIGN BY ELECTRICAL CONTRACTOR
5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO BEGINNING
6. SMOKE DETECTORS SHALL BE WIRED TO ALARM SIMULTANIOUS WITH BATTERY BACKUP.

DESIGN CRITERIA	
ULTIMATE WIND SPEED:	130
NOMINAL WIND SPEED:	101
WIND EXPOSURE CATEGORY:	B
RISK CATEGORY	11
INTERIOR PRESSURE COEFFICIENT OR Gcpi=	+/- 0.18
ASSUMED DESIGN LOAD BEARING VALUE OF SOIL	1,500 PSF
FLOOR LIVE LOAD	40 PSF
ROOF LIVE LOAD	20 PSF

SQUARE FOOTAGE	
LIVING AREA	2125
GARAGE	574
FRONT PORCH	156
COVERED LANAI	158
TOTAL	3013



FLOOR PLAN VIEW

**MODEL:** Custom  
**TOILETS:** White  
Master Bath: yes  
Hall Bath: yes

**Master Bath:**  
Wall Tile Color: CT 76 Daltile  
Wall Grout Color: Artic Ice #301  
Floor laminate color: Springfield oak Coretech Pro Plus  
Shower floor tile owner to supply, H/C to install

**Flooring:**  
Springfield Oak coretech Pro Plus thru out entire house

**PAINT:**  
Interior Walls: Sherwin Williams HGSW 4056 Sterling white satin finish - VIP  
Interior Trim: STD Gloss White Semi-Gloss VIP

**EXTERIOR DOORS:**  
Master Exterior Door w/blinds  
Front Door Color: Owner to supply paint front door upgraded A+ #94 Lumber  
Door Type: Asper Plan elevation Hardware Arlington Levered  
Rear Door: 12ft vinyl slider  
Side Door: 6 panel STD door  
Dining room rear door: 6 feet vinyl slider no grills  
Bedroom #3: Full lite clear glass - No grills

**TRIM:**  
5 1/2 base boards  
Color: Black IKO  
Soffit: White

**Appliances:**  
Owner to supply appliances VIP

**Windows:** Standard White  
All clear no grills  
Bath Window: Clear

**Exterior:** Hardy Plank  
Main House Color: Sherwin Williams SW 7669 Summit Grey  
Trim Color: Xtra White 7006 Sherwin Williams

**Additional Notes to Dan Harrington:**  
Framer call Anderson 813-927-3538  
42" upper cabinets  
Owner will supply front door paint (H/C will paint door  
Owner to supply specs for garage door  
Garage door to be upgraded - owner to pay  
Stephanie please bill owner garage door overhead door has choice  
Electrician call for location floor outlet great room and possible upgrade can lights ect locate  
Cabinets over washer and dryer

**Allowances in Contract:**  
\*\* Any changes after final plans are printed are \$250 to cover additional costs.

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