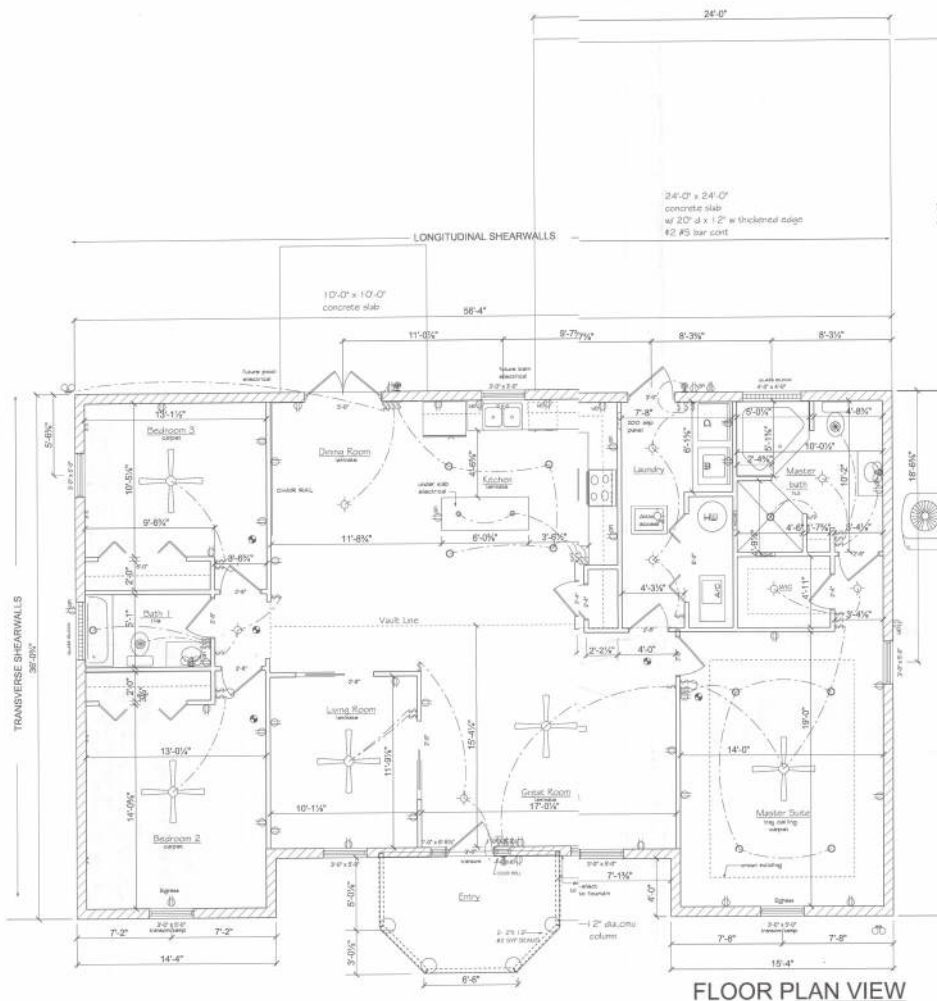




FLOOR PLAN VIEW

1. THIS RESIDENCE SHALL BE CONSTRUCTED IN ACCORD WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2014 5TH EDITION.
2. ALL CEILING SHEETROCK SHALL BE MIN 5/8"
3. ALL AREAS EXCEPT WHERE GFI RECEPTALS ARE REQUIRED RECEPTALS SHALL BE ARC FAULT
4. ELECTRICAL DESIGN BY ELECTRICAL CONTRACTOR
5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO BEGINNING
6. SMOKE DETECTORS SHALL BE WIRED TO ALARM SIMULTANEOUS WITH BATTERY BACKUP.

DESIGN CRITERIA	
ULTIMATE WIND SPEED:	130
NOMINAL WIND SPEED:	101
WIND EXPOSURE CATEGORY:	B
RISK CATEGORY:	11
INTERIOR PRESSURE COEFFICIENT OR Gcpl:	+/- 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	1922
ENTRY	90
TOTAL	2012

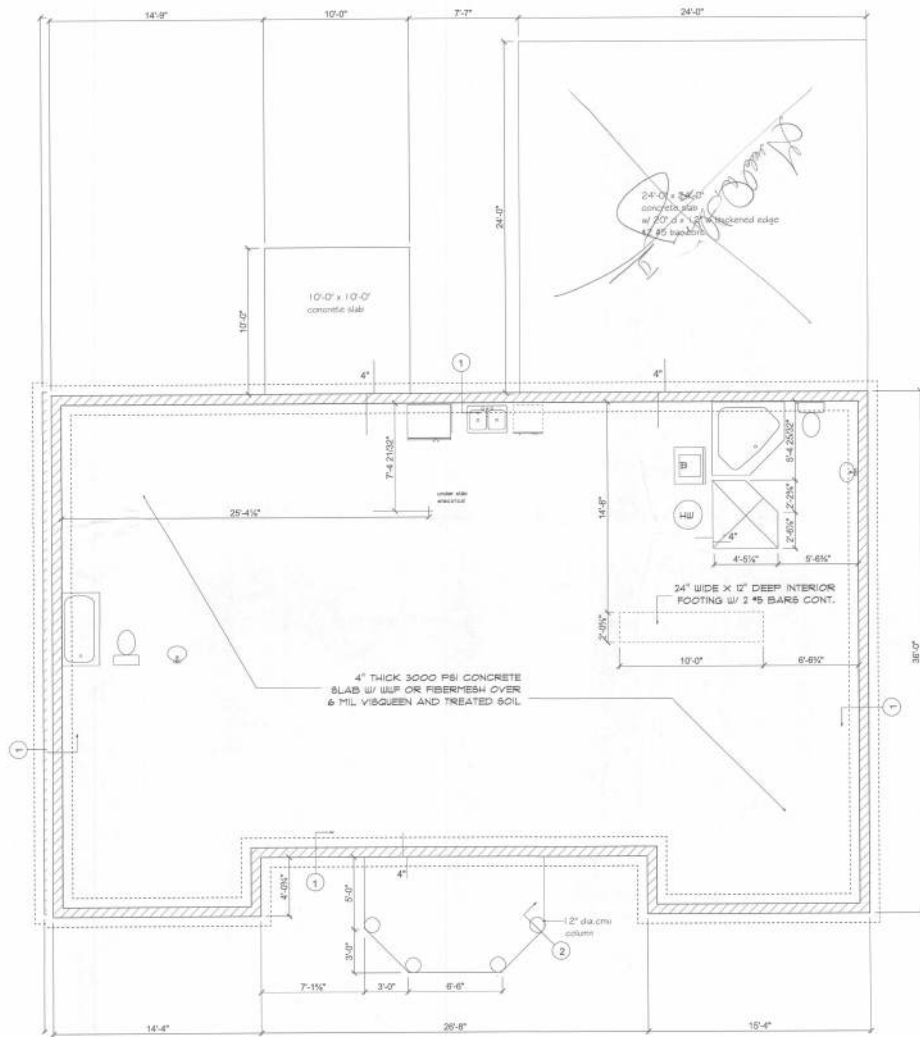
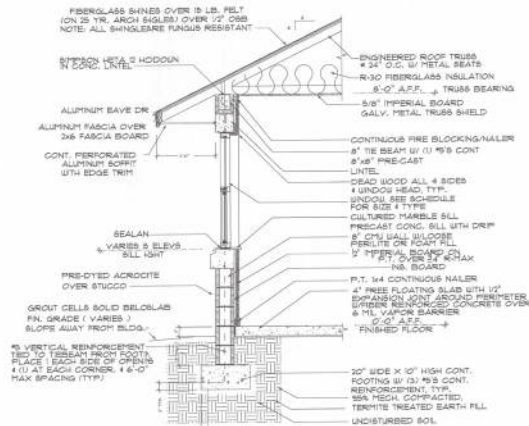
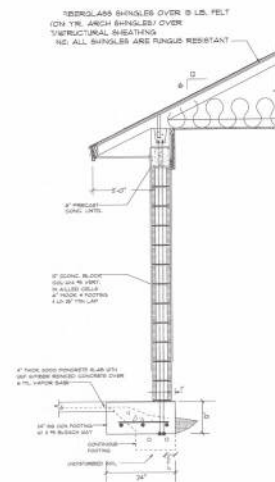
- Electrical symbols
- 1. single pole switch
 - 2. double switch
 - 3. 3 way switch
 - 4. 110 amp outlet breaker
 - 5. 220 OUTLET
 - 6. GFI outlet
 - 7. switched outlet
 - 8. att overhead light
 - 9. recessed light
 - 10. 120V outlet for 10 amp
 - 11. wall mount light fixture
 - 12. att overhead light
 - 13. double recessed light
 - 14. track bar light
 - 15. vanity bar light
 - 16. fluorescent light
 - 17. ceiling fan light
 - 18. smoke/carbon monoxide detector
 - 19. phone outlet
 - 20. tv outlet
 - 21. THERMOSTAT
- UNDERGROUND POWER

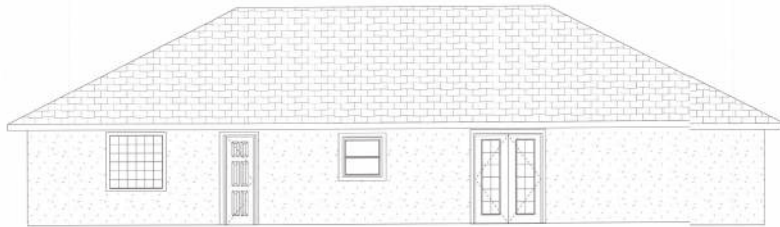
William Johnson Drafting
2905 NW 104th Ct
Gainesville, FL 32606
494-2041

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REAR ELEVATION



RIGHT ELEVATION



LEFT ELVATION



FRONT ELEVATION



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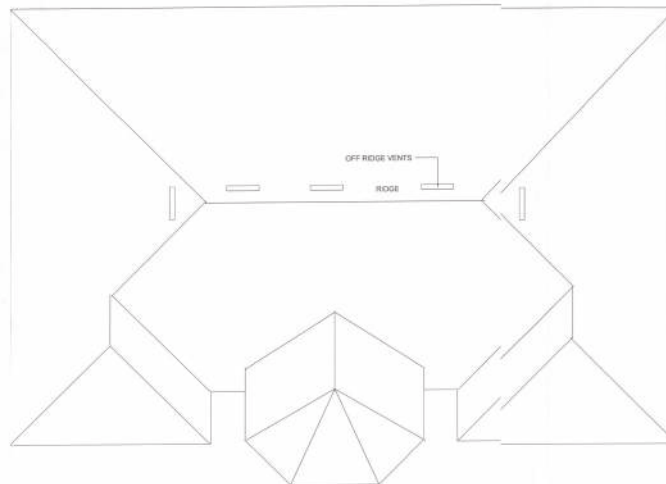
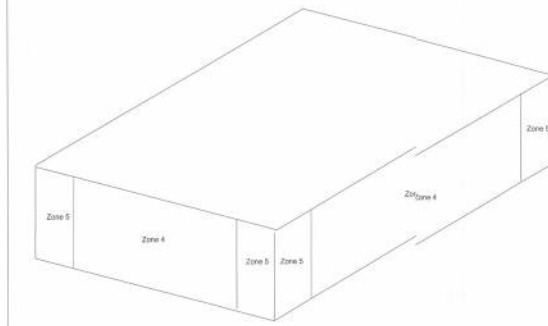
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3

WIND PRESSURE ON COMPONENTS AND CLADDING



Zone 1 +/- 16.69
Zone 2 +/- 29.06
Zone 3 +/- 42.97
Zone 4 +/- 19.79
Zone 5 +/- 24.42



ROOF PLAN

VENTILATION

162 FT² OF NEW CEILING 2012/2013 = 6.8 SQ FT
NET FREE AREA 12 x 3.4 SQ FT. VENT SYSTEM
REQUIRED
EQUALS 480 SQ. IN.
5 OFF RIDGE VENTS = 550 SQ. IN.
TOTAL TO BE INSTALLED 1030 SQ. IN.
SOFT VENT SYSTEM 3.4 SQ FT.
DIVIDED BY 0.0328 S.F. PER SQ. FT.
OF SOFT
EQUALS 5.7 OF SOFT PANEL PER SYSTEM 105 SQ. FT.
DIVIDED BY 15 = 7.1 L.F. OF VENTED SOFT
BUILDING HAS 103 OF SOFT AVAILABLE



Digitally signed by Michael E. Driscoll, P.E.
DN: cn=Michael E. Driscoll, P.E., o=Driscoll Engineering Inc., ou, email=med@driscollengineering.com, c=US
Date: 2016.11.08 10:43:33 -05'00'

Certification

I hereby certify that the accompanying wind load analysis for the New Residence as described above demonstrates compliance with the FBC 2014 Section 1609, to the best of my knowledge.

Project Wind load Information

1. Ultimate wind speed = 130 MPH
2. Nominal wind speed = 101 MPH
3. Risk Category = II
4. Wind exposure for this design is Exposure B
5. Interior Pressure Coefficient or Gcpi = +/- 0.18
6. For design of MWFRS: see attached MECAWind Version 2.1.0.6 per ASCE 7-10
7. Roof Design live load 20 psf.
8. 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

1. Trusses: Pre-engineered wood trusses at 24" o.c. The Truss engineering for this project was not available prior to the preparation of these wind-load calculations. A Typical Connector Schedule is provided for the convenience of the owner/builder as a selection guide only. If the truss uplift from the truss engineering exceeds the capacity of the specified connector, contact the Engineer immediately. Signed & Sealed Truss engineering shall be provided to Driscoll Engineering for review and confirmation of connector selection prior to beginning construction.
2. 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.
3. Roofing: Asphalt Shingles shall be installed per mfg. specifications to meet 130 m.p.h. windloading & in accord with the Florida Building Code 2014.

Exterior Walls

1. Exterior Wall: 8" Concrete Masonry Units (ASTM C90 or C145, 1500 psi min) will adequately resist exterior shear forces. Mortar type M.
2. Bond Beam to be (1) 6" 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".

Headers

1. Provide headers in accordance with Section 2308 of the Florida Building Code, 2014 u.n.o.
2. All wood header & beam connections to trusses shall be designed & engineered by the roof truss mfg.

Foundations (sizes based on wind load requirements only):

Footing: 20" wide x 10" deep w/ 2 #5 bars cont. 25" min bar lap.

CMU column footing pad: 24" sq. x 12" deep w/ 4 #5 bars each way.

MICHAEL E DRISCOLL PE
FL REG # 43922



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LAKE CITY, FL 32816-123

DATE: 11-7-16

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WL 1

PROFESSIONAL SERVICES
 DRISCOLL ENGINEERING, INC.
 PO BOX 357577
 GAINESVILLE, FL 32631
 PH (352) 331-1513
 CA 8690

PLANS AND SPECIFICATIONS

The plans and specifications presented herein are applicable only for the anticipated construction at the locations shown. If construction plans are to be re-evaluated, 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, 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 modification, clarifications, interpretations, adjustments or changes made to the Contractor Documents to reflect changed field or other conditions, except for claim arising from the sole negligence or willful misconduct of the Design Professional.

OWNERSHIP OF INSTRUMENTS OF SERVICE

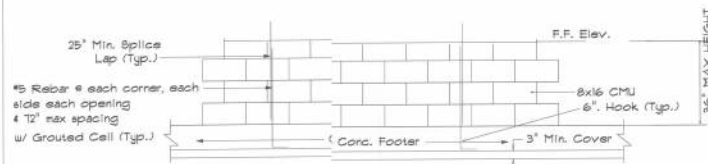
All reports, plans, specifications, computer files, field notes and other documents and instruments prepared by the Design Professional as instruments of service shall remain the property of the Design Professional. The Design Professional shall retain all common law, statutory and other reserved rights,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

DEFECTS IN SERVICE

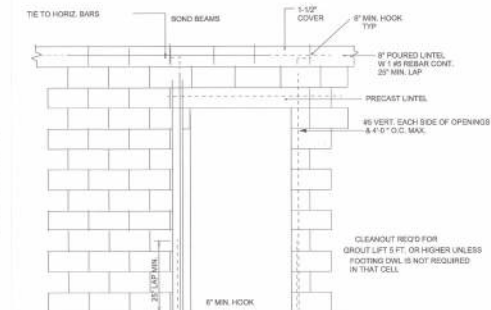
The Client shall promptly report to the Design Professional any defects or suspected defects in the Design Professional's work or services of which the Client becomes aware, so that the Design Professional may take measures to minimize the consequences of such a defect. The Client warrants that he or she will impose 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 defect 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 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 a 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 from 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.



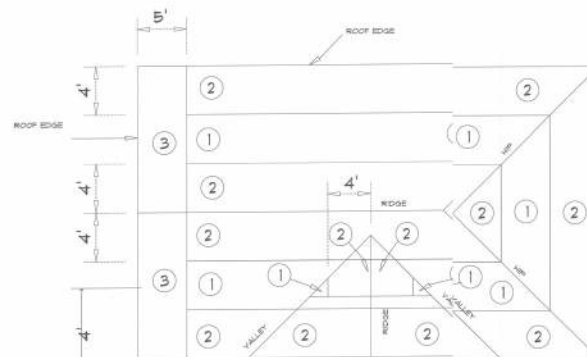
Masonry Stemwall Detail
 NTS



CMU WALL OPENING REINFORCING
 NTS

CONNECTOR SCHEDULE FOR LOAD BEARING & SHEAR WALLS

TO CONNECT	TO	NO.	PRODUCT CODE	FASTENER	UPLIFT CAPACITY LBS.
TRUSS	LINTEL	1	HETA 20	9-10dX 1-1/2"	1810
GIRDER TRUSS	LINTEL	1	HETA 20	9-10dX 1-1/2"	1810
TRUSS	WOOD HEADER	1	H10	9-10dX 1-1/2"	765
CMU COLUMN	WOOD HEADER	1	HETA 20	9-10dX 1-1/2"	1810



NOTES: ALL EDGES AT TRUSSER 4" O.C. ON THE EDGE & AND INTERMEDIATE TRUSSES 12" O.C.
 1. ALL NAILS TO BE 10 RING SHANK NAILS MIN.

ROOF ATTACHMENT PLAN
 NTS

SHEAR WALLS QUANTITY
 TRANSVERSAL SHEARWALLS = 10'-0"
 LONGITUDINAL SHEARWALLS = 82'-0"

CAST CRETE LINTEL SCHEDULE

LENGTH	TYPE
3'-0" TO 7'-0"	8F80B
7'-0" TO 10'-0"	8F81B



Digitally signed by
 Michael E. Driscoll, P.E.
 DN: cn=Michael E. Driscoll,
 P.E., o=Driscoll
 Engineering Inc., ou,
 email=med@driscolleng
 ineering.com, c=US
 Date: 2016.11.08 10:44:35
 -05'00'

MICHAEL E DRISCOLL PE
 FL REG # 43922



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 LAKE CITY, FL 32816-123

DATE: 11-7-16

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