RODERICK J. WALLER
509 HILLVIEW DRIVE
ALTAMONTE SPRINGS, FL.32714

BUILDING STATISTICS

BUILDING CODE :	2020 FLORIDA BUILDING CODE 7TH EDITION
LIFE SAFETY CODE :	2020 LIFE SAFETY CODE
MECHANICAL CODE :	2020 MECHANICAL CODE
PLUMBING CODE :	2020 PLUMBING CODE
HEALTH CODE :	NEC 2017
FLORIDA ACCESSIBILITY CODE 2020 7TH EDITION	FLORIDA STATE SANITARY CODE
FLORIDA ENERGY EFFICIENCY CODE 2020 7TH EDITION	
FLORIDA FIRE PREVENTION CODE 2020 7TH EDITION	
NFPA 70 LIFE SAFETY CODE, 2020 7TH EDITION	
AMERICAN'S W/ DISABILITES ACT, 2020 7TH EDITION	

ULTIMATE DESIGN WIND SPEED= 160 MPH
NOMINAL DESIGN WIND SPEED= 139 MPH
RISK CATEGORY= B
RISK EXPOSSURE= C
EXPOSSURE= .18
COMPONENT & CADDING = ASCE7-16 BUILDING H.<60FT LOW RISE

SCOPE OF WORK:
1. Include all setbacks on the site plan. The proposed structure has the following minimum setback requirements. Front Yard: 30 feet. Side Yard: 10 feet. Rear Yard: 30 feet. IF THERE IS NO CHANGE IN FOOTPRINT, PLEASE HIGHLIGHT AREA OF WORK AND INDICATE NO CHANGE IN FOOTPRINT ON SITE PLAN.----------10'-0" TO EXISTING PORCH.

2. A complete site plan is required for Zoning review. All site plans shall include all existing structures, lot dimensions, proposed area of work, setbacks, all platted easements, driveways, street names, north arrow, legal description, etc...---------- SEE SITE PLAN

3. Please provide product approval for roof covering. Include soffit if included in scope of work. SOC CH40 APP.A Section 107.3.5 SEE PRODUCT APPROVAL CHART

4. Provide survey showing the location of the work. Show any changes to drainage and grading. ------ NO CHANGE IN GRADING

PRODUCT APPROVAL SUBMITTAL AFFIDAVIT

PRODUCT	NOA FL. PRODUCT	MANUFACTURER	MODEL	ATTACHMENT METHOD:	BUILDING DESIGN PRESSURES PSF	PRODUCT DESIGN PRESSURES PSF
ROOFING	FL10124-R20	GAF	N/A	INSTALLED PER MANUFACTURES SPECS. NAILING USE GALVANIZED (ZINC COATED) ROOFING NAILS, 11 OR 12 GAUGE, WITH AT LEAST 3/8" DIAMETER HEADS, LONG ENOUGH TO PENETRATE THROUGH PLYWOOD OR 3/4" INTO BOARDS, USE 4 NAILS PER SHINGLE PLACED 6 1/8" ABOVE THE BUTT EDGE APPROX. 1" AM 12" FROM EACH END AND 1/2" ABOVE EACH CUT OUT	N/A	N/A
SOFFIT	FL5008-R4	BERRIDGE MAF.CO.	VENTED PERFORATED CMENTATIOUS PANEL	7/16" OSB SHEATHING WITH 8d RING SHANKS @ 4" OC VAPOR BARRIER ... NUTELT BACKED HIGH RIB LATHE ATTACHED W/ 1 1/2" CALV. ROOF NAILS AT 4" O.C. ON HIGH RIB W/ STUCCO	N/A	N/A
				NOTE: ALL WINDOW & DOOR BUCKS: CAULKED & SEALED. ALL WINDOW & DOOR TO FOLLOW MANUFACTURES SPECIFICATIONS AS WELL AS THOSE LISTED		
NOTE: DESIGN ENGINEER HAS VERIFIED ALL PRODUCTS						

This item has been electronically signed and sealed by Joseph Simmons, PE, PE 52101 on the date adjacent to the stamp. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy. FAC 61G15-23.004

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All documents are properly signed, dated and sealed as required for the method of submittal. (FBC 107)

DESIGNWEST ENGINEERS AND ASSOCIATES INC.
FLORIDA BUILDING CODE 7TH EDITION
ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE 7TH EDITION
MECH-FLUUELENERGY-ACCESSIBILITY, LIFE SAFETY, FIRE CODE AND NEC 2017
ALL CONSTRUCTION SHALL BE BUILT TO WITHSTAND WIND SPEED OF 160 MPH ULTIMATE (124 MPH NOMINAL) EXPOSURE C
CONSTRUCTION TO BE IN RISK CATEGORY II AND WIND IMPORTANCE FACTOR OF 1.0 AS DEFINED IN TABLE 1604.5 OF THE FBC

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CONSULTING ENGINEERS
DESIGNWEST ASSOCIATE

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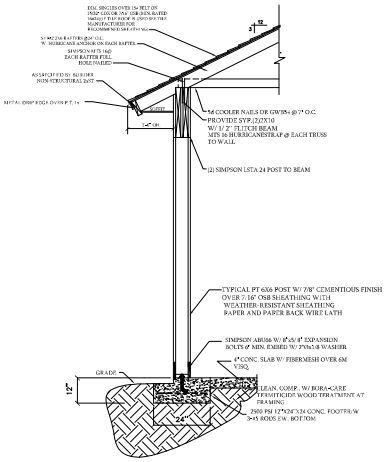
111 E. MONUMENT AVE. STE.300, KISSIMMEE, FL. 34741
Ph. 202-514-4221 DESIGNWEST7@GMAIL.COM

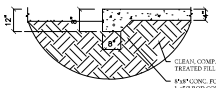
DRAWN BY: JT
CHKD BY: JS
DATE: REVISIONS:
BUILDER
SUBDIVISION:
SCALE: AS SHOWN

SHEET NO
A-0
OF__SHEETS

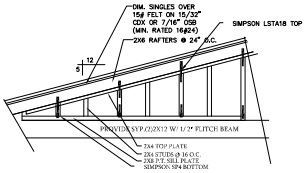
JOSEPH SIMMONS III, P.E.
LICENSE No. 52101 STATE OF FLORIDA PROFESSIONAL ENGINEER



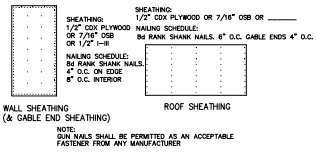
A D-1 POST AND BEAM SECTION
SCALE : NONE



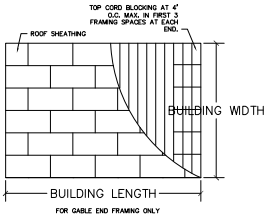
B D-1 TYPICAL INTERIOR WALL FRAMING CONNECTIONS FOR OPENINGS
SCALE : NONE



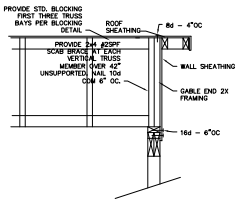
C D-1 GABLE END FRAMING DETAIL
SCALE : NONE



D D-1 SHEATHING DETAIL
SCALE : NONE



E D-1 ROOF SHEATHING LAYOUT AND DIAPHRAM BLOCKING
SCALE : NONE



F D-1 GABLE END WALL DETAIL
SCALE : NONE

STRUCTURAL NOTES

GRAVITY LOAD

ROOF – ALL DEAD LOADS PLUS 40 PSF LIVE LOAD
FLOOR – ALL DEAD LOADS PLUS 40 PSF LIVE LOAD

WIND LOAD

160 MPH

CODES

FBC 2020 7TH EDITION SECTION 301.1
BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI-2020)
MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED
CONCRETE (ACI 315-83)
AMERICAN CONCRETE INSTITUTE
NATIONAL CONCRETE MASONRY ASSOCIATION
AMERICAN INSTITUTE OF STEEL CONSTRUCTION
NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION 1991 EDITION AND SUPPLEMENT

MATERIAL

A. CONCRETE: ALL CONCRETE SHALL BE NORMAL WEIGHT, (USD TYPE CONCRETE) WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS OF AGE.

B. REINFORCING STEEL: ALL REINFORCING STEEL SHALL BE OF NEW BILLET STOCK, CONFORMING WITH ASTM A-615 GRADE 60. CONCRETE PROTECTION FOR REINFORCING BARS: THE FOLLOWING CONCRETE COVER SHALL BE PROVIDED:

FOOTINGS:	3 INCHES
BEAMS AND COLUMNS:	1 1/2 INCHES
SLAB ON GRADE:	2 INCHES

C. STRUCTURAL STEEL: STRUCTURAL STEEL SHALL BE ASTM A36, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS AND STANDARDS. ALL BOLTS TO BE ASTM A325. ALL WELDS TO BE PERFORMED BY CERTIFIED WELDERS ONLY. SUBMIT SHOP DRAWINGS FOR ARCHITECT/ENGINEER APPROVAL PRIOR TO FABRICATION.

COLD-FORMED STEEL TUBING:	ASTM A500, GRADE B
HOT-FORMED STEEL TUBING:	ASTM A501
STEEL PIPE:	ASTM A53,TYPE E OR S,GRADE B
ANCHOR BOLTS:	ASTM A307, J-TYPE U.O.N.
HEADED STUD TYPE SHEAR CONNECTORS:	ASTM A108, GRADE 1015 OR 1020, COLD FINISHED CARBON STEEL, WITH DIMENSIONS COMPLYING WITH AISC SPECIFICATIONS.
UNFINISHED THREADED FASTENERS:	ASTM A307, GRADE A, REGULAR LOW CARBON STEEL BOLTS AND NUTS. PROVIDED EITHER HEXAGONAL, OR SQUARE, HEADS AND NUTS, EXCEPT USE ONLY HEXAGONAL UNITS FOR EXPOSED CONNECTORS.

D. LUMBER: ALL FRAMING LUMBER SHALL BE STRESS GRADE NO. 2 SPF LUMBER WITH MINIMUM Fb = 1200 PSI AND MOISTURE CONTENT NOT TO EXCEED 19%. ALL FRAMING LUMBER IN CONTACT WITH CONCRETE, MASONRY, EARTH, OR STEEL SHALL BE PRESSURE TREATED LUMBER.

E. UNREINFORCED CONCRETE MASONRY:
MASONRY: ALL MASONRY WALLS SHALL BE OF CONCRETE BLOCK UNITS CONFORMING TO ASTM C90 PLACED IN RUNNING BOND PATTERN WITH TYPE "S" MORTAR AND REINFORCED WITH DUR-O-WALL OR EQUAL, EVERY OTHER COURSE.

F. EXCAVATION AND BACKFILL: ALL EXCAVATIONS SHALL BE KEPT DRY. EXCAVATE TO DEPTHS AND DIMENSIONS INDICATED. TAKE EVERY PRECAUTION TO GUARD AGAINST ANY MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE, UTILITIES, PIPING, ETC. PROVIDE END BRACING OR SHORING NECESSARY TO AVOID SETTLEMENT OR DISPLACEMENT OF EXISTING FOUNDATIONS OR STRUCTURES. BACKFILL IN HORIZONTAL LAYER, MAXIMUM OF 12" THICK, AND COMPACT TO A MINIMUM OF 95% MAXIMUM STANDARD PROCTOR DENSITY. PLACE BACKFILL SYMMETRICALLY, TAKING CARE TO PREVENT ANY ECCENTRIC LOADING OR WEDGING ACTION AGAINST WALLS OR BUILDINGS.

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DESIGNWEST ENGINEERS AND ASSOCIATES INC.
FLORIDA BOARD OF PROFESSIONAL ENGINEERS REGISTRY NO. 34741 CERTIFICATE OF AUTHORIZATION NO. 30007
DESIGN CRITERIA: 2020 FLORIDA BUILDING CODE 7TH EDITION
MEP: PLUMBING/ENERGY ACCESSIBILITY, LIFE SAFETY: FBC CODE AND ASCE 2017
ASCE 7-16 RISK CATEGORY II, BUILDING WIND EXPOSURE CATEGORY C AND WIND IMPORTANCE FACTOR 1.0 ENCLOSED BUILDING

RODERICK J. WALLER
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ZONING: TWO FAMILY RESIDENCE
CONSTRUCTION: TYPE V-B
FIRE SECTION:
FIRE FLOW REQUIRED: 1,500GPM

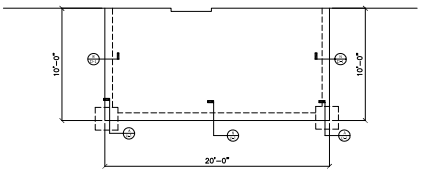
Fine Architectural and Engineering Design
111 E. MONUMENT AVE., STE.300 (KISSIMMEE,FL.34741
Ph. 203-514-4221 DESIGNWEST7@GMAIL.COM

BUILDER:	
SUBDIVISION:	
DATE:	
SCALE:	AS SHOWN
DRAWN BY:	JS
CHECKED:	

SHEET NO
D-1
OF__SHEETS

JOSEPH SIMMONS III, P.E.

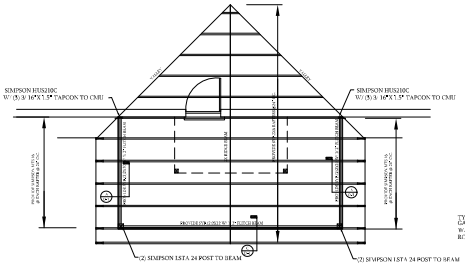
JOSEPH SIMMONS LICENSE No. 52101 STATE OF FLORIDA PROFESSIONAL ENGINEER



FOUNDATION PLAN

1.)PREPARE SOIL TO RECIEVE 2500 PSI 4" CONCRETE SLAB W/ FIBER MESH OVER 6 MIL. VAPOR BARRIER ON CLEAN COMPACTED SOIL WITH (CENTRACOM TERMITICIDE TREATMENT) IN GROUND WITH SOIL @ 95% COMPACTION

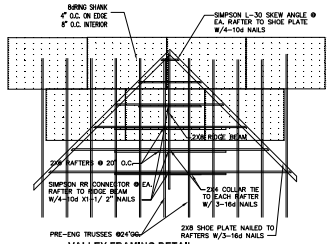
2.) ALL FOOTER REINFORCEMENT BARS ARE TO BE #5 BAR GRADE 40



ROOF RAMING PLAN

ALL RAFTERS 2X6 SYP. MOISTURE BARRIER BETWEEN RAFTER AND CMU WALLS
ALL RIDGE BEAMS ARE 2X8-2 SYP

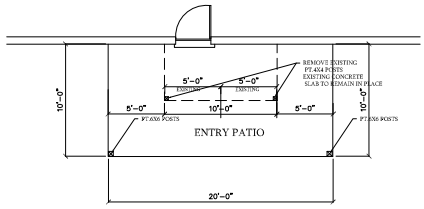
ENGINEERED STRUCTURAL CONVENTIONAL WOOD FRAMED ROOF RAFTERS (SAGING CAPABLE) AND DESIGNED TO THE FRAMING CONSTRUCTION MANUAL 2018 LOAD AND SPANS
LOADING: 20-7-10-15psf
WOOD SPECIES: Range SPF-S-#1/#2
SPACING: 24"
PITCH: 3:12
ON CENTERING: 24"
BEARING SIZING: 4"
WALL HEIGHTING: 8'-0"



VALLEY FRAMING DETAIL

SCALE : NONE

NOTE: ALL RAFTERS 2X6 RAFTERS ARE #2,S.Y.P. @ 24" O.C. NAIL RAFTERS TO RIDGE AND SHOE PLATE W/ 3-16d NAILS W/ SIMPSON TIES AND 2X4 COLLAR TIE @ EACH RAFTER NAILED 1/2 THE SPAN OF RAFTER.



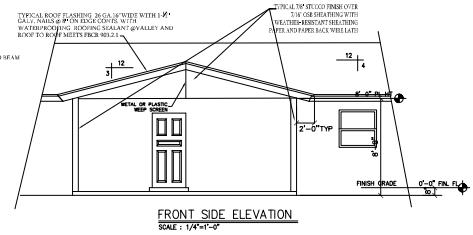
FLOOR PLAN

1.ALL EXTERIOR SHEATHING AND SIDING SHALL BE A MIN. OF 8" ABOVE FINISH GRADE LEVEL. AS PER FBC R317

2.SECTION R311 MEANS OF EGRESS
R311.3 Floors and landings at exterior doors. There shall be a landing or floor on each side of each exterior door. The width of each landing shall not be less than the door served. Every landing shall have a minimum dimension of
36 inches (914 mm) measured in the direction of travel. Exterior landings shall be permitted so have a slope not to exceed 1/4 unit vertical in 12 units horizontal (2-percent).

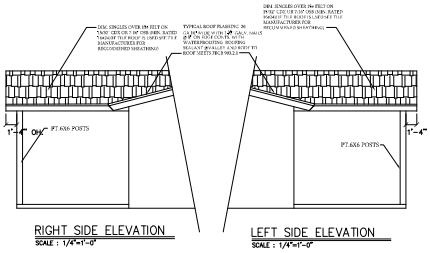
AREA TABULATUONS

ENTRY	200 SF.



FRONT SIDE ELEVATION

SCALE : 1/4"=1'-0"



RIGHT SIDE ELEVATION

SCALE : 1/4"=1'-0"

LEFT SIDE ELEVATION

SCALE : 1/4"=1'-0"

R903.2.1 Flashing. Flashings shall be installed in a manner that prevents moisture from entering the wall and roof through joints in copings, through moisture permeable materials and at intersections with parapet walls and other penetrations through the roof plane.

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DESIGNWEST ENGINEERS AND ASSOCIATES INC.

FIVE-FEFRO NOREN-FIVE-FEFRO-SEVEN-EIGHT-NINE-TEN-ELEVEN-TWELVE-THIRTEEN-FOURTEEN-FIFTEEN

DESIGNED IN ACCORDANCE WITH 2020 FLORIDA BUILDING CODE 7TH EDITION
MEP- FLUME ENERGY ACCESSIBILITY, LIFE SAFETY, FBC CODE AND NEC 2017
ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2020 FBC 7TH EDITION

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