NEW RESIDENCE FOR:

STEVE COOK

3D RENDERING FOR ILLUSTRATION PURPOSE ONLY

Designer:
Building Designs by Marshall & Marine, Inc.
6406 US 27 S
Sebring, Fl. 33876
863-471-1525 Office
863-471-1121 Alt. Office
www.needplans.com

Structural Engineer:
WILLIAM F. STUHRKE, PHD, P.E.
12215 Rebecca's Run Dr.
Winter Garden, FL 34787
407-920-3119
State of Florida PE #22150

Contractor:
Stewart Construction
1500 Sebring Parkway
Sebring, FL. 33870
(863) 385-9403

Project:
Steve Cook
210 Woodstork Way
Frostproof, FL. 33843

WILLIAM F. STUHRKE LICENSE No. 22150 STATE OF FLORIDA PROFESSIONAL ENGINEER

This item has been electronically signed and sealed by William F. Stuhrke on the Date/Time stamp shown using a digital signature. Printed copies of the document are not considered signed and sealed and the signature must be verified on any electronic copies.

Digitally signed by William Stuhrke
Date: 2020.10.07 15:49:05 -04'00'

GENERAL NOTES AND SPECIFICATIONS:

THE GENERAL CONTRACTOR SHALL FULLY COMPLY WITH THE FBC SIXTH EDITION (2017) AND ALL ADDITIONAL STATE AND LOCAL CODE REQUIREMENTS.

THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY WORK KNOWINGLY PERFORMED CONTRARY TO SUCH LAWS, ORDINANCES, OR REGULATIONS. THE CONTRACTOR SHALL ALSO PERFORM COORDINATION WITH ALL UTILITIES AND STATE SERVICE AUTHORITIES.

WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. THE GENERAL CONTRACTOR SHALL VERIFY AND IS RESPONSIBLE FOR ALL DIMENSIONS (INCLUDING ROUGH OPENINGS) AND CONDITIONS ON THE JOB AND MUST NOTIFY THIS OFFICE OF ANY VARIATIONS FROM THESE DRAWINGS.

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND PROPER FUNCTION OF PLUMBING, HVAC AND ELECTRICAL SYSTEMS. THE GENERAL CONTRACTOR SHALL NOTIFY THIS OFFICE WITH ANY PLAN CHANGES REQUIRED FOR DESIGN AND FUNCTION OF PLUMBING, HVAC AND ELECTRICAL SYSTEMS.

THIS OFFICE SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, ACTS OR OMISSIONS OF THE CONTRACTOR OR SUBCONTRACTOR, OR FAILURE OF ANY OF THEM TO CARRY OUT WORK IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. ANY DEFECT DISCOVERED IN THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THIS OFFICE BY WRITTEN NOTICE BEFORE PROCEEDING WITH WORK. REASONABLE TIME NOT ALLOWED THIS OFFICE TO CORRECT THE DEFECT SHALL PLACE THE BURDEN OF COST AND LIABILITY FROM SUCH DEFECT UPON THE CONTRACTOR.

INSTALL WATERPROOF GYPSUM BOARD AT ALL WATER SPLASH AREAS TO MINIMUM 70" ABOVE SHOWER DRAINS.

EXHAUST ALL VENTS AND FANS DIRECTLY TO OUTSIDE VIA METAL DUCTS, PROVIDE 90 CFM (MIN) FANS TO PROVIDE 5 AIR CHANGES PER HOUR IN BATHS CONTAINING TUB AND / OR SHOWER AND IN LAUNDRY ROOMS.

ALL RECESSED LIGHTS IN INSULATED CEILINGS TO HAVE THE I.C. LABEL.

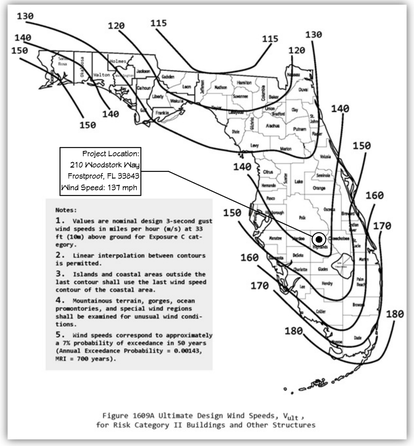

Figure 1609A Ultimate Design Wind Speeds, V_{ult}, for Risk Category II Buildings and Other Structures

CATEGORY II WIND MAP

WIND SPEED: 137 mph

SCHEDULE OF DRAWINGS

Label	Title
G1.00	Project Overview
A1.00	Exterior Elevations / Floor Plan
A3.00/E1.00	Electrical Plan / Furniture Plan
S1.00	Foundation Plan
S2.00/C1.00	Steel Placement Plan / Proposed Site Plan
S3.00	Roof Plan
S4.00	Structural Notes & Details

DESIGN PARAMETERS:

THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 6TH EDITION (2017) RESIDENTIAL, THE FLORIDA BUILDING CODE 6TH EDITION AMENDMENTS AND ASCE 7.

THE BUILDING (INCLUDING ALL COMPONENTS AND CLADDINGS) SHALL BE DESIGNED FOR THE FOLLOWING SUPERIMPOSED LOADS.

FLOORS:
LIVE LOAD - 40 PSF
DEAD LOAD - 10 PSF

GARAGE SLAB:
LIVE LOAD - 50 PSF
DEAD LOAD - 10 PSF

ROOF:
LIVE LOAD (TRUSS TOP CHORD) - 20 PSF
DEAD LOAD (TRUSS TOP CHORD) - 10 PSF
LIVE LOAD (TRUSS BOTTOM CHORD) - 10 PSF NO STORAGE -PER FBC 6TH EDITION
LIVE LOAD (TRUSS BOTTOM CHORD) - 20 PSF MIN. STORAGE PER FBC 6TH EDITION

WIND:
BUILDING IS DESIGNED TO CONFORM TO ASCE 7, CHAPTER 6;
PER FLORIDA RESIDENTIAL BUILDING CODE 6TH EDITION SECTION R301.2.1.1 AND FLORIDA BUILDING CODE 6TH EDITION SECTION 1604.1.1
COMPONENT AND CLADDING +22.3/-24.8 PSF
FLORIDA BUILDING CODE 6TH EDITION (2017) SECTION 1609

BASIC WIND SPEED: (Table 1604.3.1)
☐ V ultimate = 150 mph, V basic = 116 mph
■ V ultimate = 137 mph, V basic = 106 mph
☐ V ultimate = 130 mph, V basic = 101 mph

RISK CATEGORY:
☐ CATEGORY I ☐ CATEGORY III
■ CATEGORY II ☐ CATEGORY IV

BUILDING OCCUPANCY CLASSIFICATION:
☐ GROUP A - ASSEMBLY ☐ GROUP H - HAZARDOUS
☐ GROUP B - BUSINESS ☐ GROUP I - INSTITUTIONAL
☐ GROUP D - DAY CARE CENTER ☐ GROUP M - MERCANTILE
☐ GROUP E - EDUCATIONAL ■ GROUP R - RESIDENTIAL
☐ GROUP F - FACTORY ☐ GROUP S - STORAGE

BUILDING CONSTRUCTION TYPE:
☐ TYPE I ☐ TYPE IV
☐ TYPE II ■ TYPE V
☐ TYPE III

EXPOSURE CATEGORY:
☐ B ■ C ☐ D

WINDBORNE DEBRIS REGION:
■ NO
☐ YES
☐ IMPACT RESISTANT GLAZING

INTERNAL PRESSURE COEFFICIENTS:
☐ 0.00 (OPEN)
■ +0.18, -0.18 (ENCLOSED)

MEAN ROOF HEIGHT
■ 30'-0" OR LESS ☐ GREATER THAN 30'-0"

PRODUCT APPROVAL INFORMATION

PRODUCT	MANUFACTURE	TYPE	FL PRODUCT APPROVAL
ROOFING	GAF	ASPHALT ROOF SHINGLES	FL10124-R21
WINDOWS	P.G.T.	S.H.-5500(IMPACT)	FL294-R26
MULL BAR	P.G.T.	1"X ALUM	FL261-R11
GARAGE DOORS	CLOPAY(IMPACT)	STEEL O.H. 9'-2"-16'-2"	FL16546.14

SEAL:
PE #22150
Wednesday, October 7, 2020

ENGINEER OF RECORD:
WILLIAM F. STUHRKE, PHD, P.E.
12215 Rebecca's Run Dr.
Winter Garden, FL 34787
407-920-3119
State of Florida PE #22150

PROJECT:
STEVE COOK
210 Woodstork Way
Frostproof, FL. 33843

Square Footage
975 Living
324 Garage
176 F. Porch
1,375 Total

CONTRACTOR:
STEWART CONSTRUCTION
1500 Sebring Parkway
Sebring, FL. 33870
(863) 385-9403

MEMBER: AMERICAN INSTITUTE OF BUILDING DESIGNS
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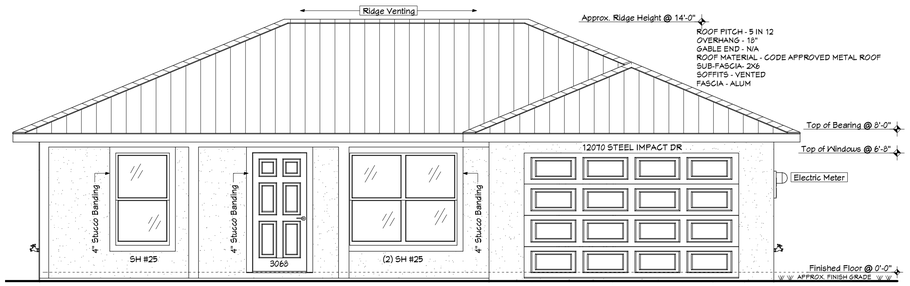
START DATE:
08/31/2020 TA
REVISIONS:

FINAL DATE:
10/1/2020 HV

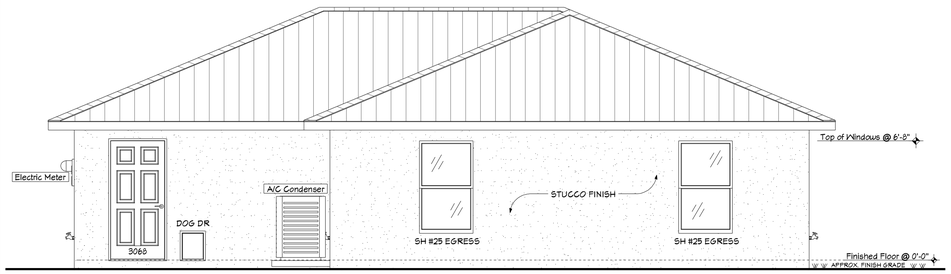
PROJECT #: 20-313

SHEET:
G1.00



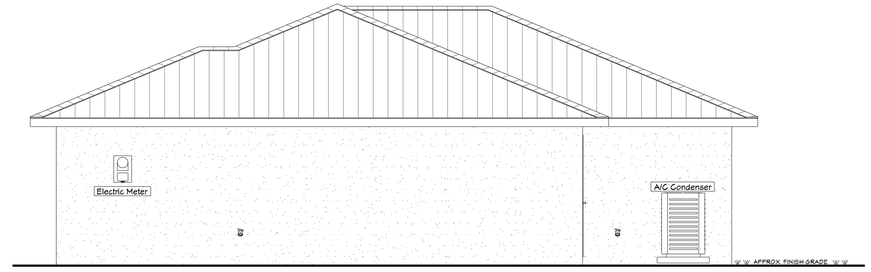
FRONT ELEVATION

SCALE: 1/4" = 1'



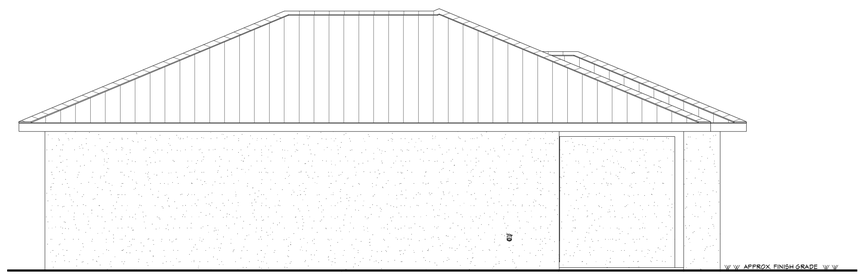
REAR ELEVATION

SCALE: 1/4" = 1'



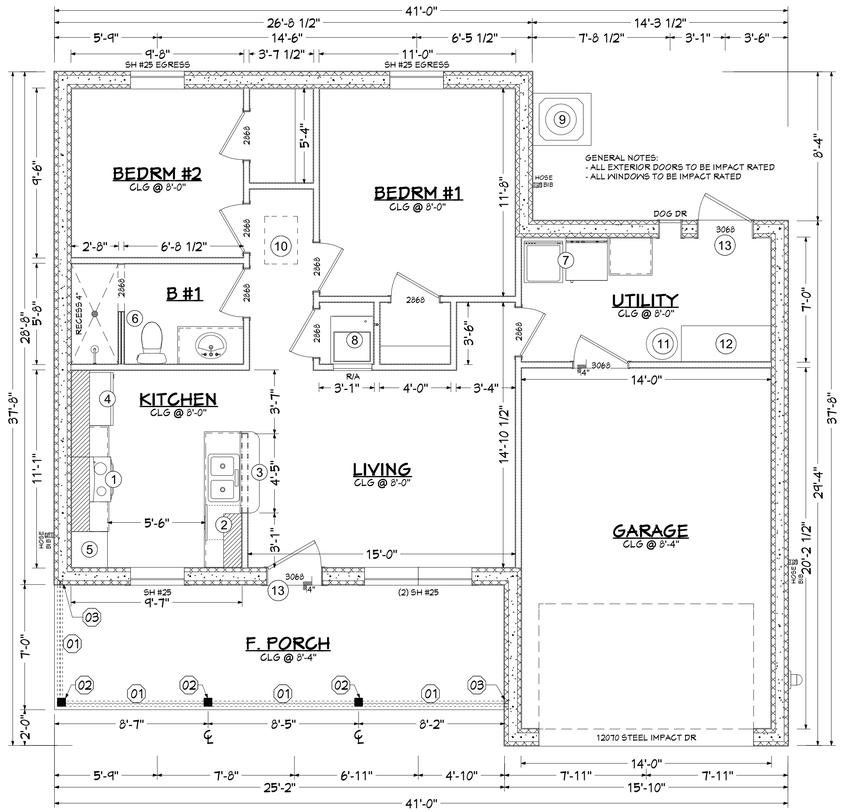
RIGHT ELEVATION

SCALE: 1/4" = 1'



LEFT ELEVATION

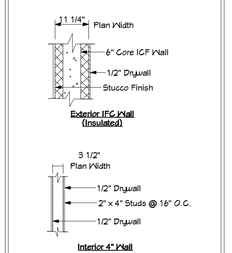
SCALE: 1/4" = 1'



FLOOR PLAN

SCALE: 1/4" = 1'

WALL LEGEND



NOTE:

- ALL EXTERIOR WALLS ACT AS SHEAR WALL SEGMENTS
- ALL ICF OPENINGS WILL BE PROVIDED WITH A HEADER SYSTEM.
- MIN. 1/2" DRYWALL CEILING BOARD REQUIRED THROUGHOUT ALL CEILINGS (TYP)

STRUCTURAL NOTE SCHEDULE	
01	(2) 2" x 12" PT #2 Y.P. BEAM w/ 1/2" PLYWOOD SANDWICHED BETWEEN Nail Together w/ 16d Nails Spaced 16" O.C. Staggered Top & Bottom
02	6" x 6" PT #2 Y.P. POST See Post To Beam & Post Slab Detail on Sheet S4.00
03	SECURE BEAM TO ICF WALL. See Beam Hanger Detail on Sheet S4.00

NOTE SCHEDULE	
1	30" ELECTRIC RANGE W/ MICROWAVE ABOVE
2	DISHWASHER
3	ISLAND W/ 12" LEVEL BAR
4	REFRIGERATOR
5	PANTRY CABINET
6	42" HIGH KNEE WALL W/ TEMPERED GLASS ABOVE
7	WASHER & DRYER
8	AIR HANDLER
9	CONDENSING UNIT
10	22" X 33" ATTIC ACCESS
11	40 GALLON ELECTRIC WATER HEATER
12	FULL HEIGHT STORAGE CABINET
13	VERIFY W/ OWNER FOR DOOR PRODUCT APPROVE AND SPECIFICATION

COMMODITY FLANGE
Awning, Single Hung, Horizontal Roller, Picture Window, Casement

CODE	Window size	Masonry	Frame Opening
*11	19 1/8x17	19 7/8x17	19 1/4x17 1/8
12	19 1/8x26	19 7/8x26	18 5/8x25 1/2
13	19 1/8x38 3/8	19 7/8x38 3/8	18 5/8x37 7/8
14	19 1/8x50 5/8	19 7/8x50 5/8	18 5/8x50 1/8
15	19 1/8x63	19 7/8x63	18 5/8x62 1/2
16	19 1/8x76	19 7/8x76	18 5/8x75 1/2
*H31	26 1/2x17	27 1/4x17	26 5/8x17 1/8
H32	26 1/2x26	27 1/4x26	26x25 1/2
H33	26 1/2x38 3/8	27 1/4x38 3/8	26x37 7/8
H34	26 1/2x50 5/8	27 1/4x50 5/8	26x50 1/8
H35	26 1/2x63	27 1/4x63	26x62 1/2
H36	26 1/2x76	27 1/4x76	26x75 1/2
*21	37x17	37 3/4x17	37 1/8x17 1/8
22	37x26	37 3/4x26	36 1/2x25 1/2
23	37x38 3/8	37 3/4x38 3/8	36 1/2x37 7/8
24	37x50 5/8	37 3/4x50 5/8	36 1/2x50 1/8
25	37x63	37 3/4x63	36 1/2x62 1/2
26	37x76	37 3/4x76	36 1/2x75 1/2
*31	53 1/8x17	53 7/8x17	53 1/4x17 1/8
32	53 1/8x26	53 7/8x26	52 5/8x25 1/2
33	53 1/8x38 3/8	53 7/8x38 3/8	52 5/8x37 7/8
34	53 1/8x50 5/8	53 7/8x50 5/8	52 5/8x50 1/8
35	53 1/8x63	53 7/8x63	52 5/8x62 1/2
36	53 1/8x76	53 7/8x76	52 5/8x75 1/2

WINDOW SIZES			
CODE	Window size	Masonry	Frame Opening
D22	74x26	74 3/4x26	73 1/2x25 1/2
D23	74x38 3/8	74 3/4x38 3/8	73 1/2x37 3/4
D24	74x50 5/8	74 3/4x50 5/8	73 1/2x50 1/8
D25	74x63	74 3/4x63	73 1/2x62 1/2
D32	106 3/8x26	107 1/8x26	105 7/8x25 1/2
D33	106 3/8x38 3/8	107 1/8x38 3/8	105 7/8x37 3/4
D34	106 3/8x50 5/8	107 1/8x50 5/8	105 7/8x50 1/8
D35	106 3/8x63	107 1/8x63	105 7/8x62 1/2
T22	111x26	111 3/4x26	110 1/2x25 1/2
T23	111x38 3/8	111 3/4x38 3/8	110 1/2x37 3/4
T24	111x50 5/8	111 3/4x50 5/8	110 1/2x50 1/8
T25	111x63	111 3/4x63	110 1/2x62 1/2

Note: Sizes above available only with mulled windows or horizontal rollers.

*Sizes available in awning windows only, calculated with drywall tucked.

All other framing dimensions are calculated with drywall butted. (See figure A)

SEAL:

PE #22150
Wednesday, October 7, 2020

ENGINEER OF RECORD:
WILLIAM F. STUHRKE, PHD, P.E.
12215 Rebecca's Run Dr.
Winter Garden, FL 34787
407-420-3114
State of Florida PE #22150

PROJECT:
STEVE COOK
210 Woodstork Way
Frostproof, FL. 33843

Square Footage
975 Living
324 Garage
176 F. Porch
1,375 Total

CONTRACTOR:
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START DATE: 08/31/2020 TA
REVISIONS:
FINAL DATE: 10/1/2020 HV
PROJECT #: 20-313
SHEET: A1.00

ELECTRICAL:

ELECTRICAL MATERIALS AND INSTALLATION SHALL COMPLY WITH APPLICABLE PREVISIONS OF THE 2014 NATIONAL ELECTRICAL CODE (NFPA 70), LOCAL CODES, AND THE LOCAL POWER COMPANY.

IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE, ALL OF THE SMOKE DETECTORS MUST BE ELECTRICALLY CONNECTED SUCH THAT WHEN ONE SMOKE DETECTOR IS ACTIVATED ALL OF THE DETECTORS MUST BE ACTIVATED. SMOKE DETECTORS SHALL BE IN ALL SLEEPING AREAS AND WITHIN 1'-0" TO 3'-0" OF CEILING PEAK, AND SHALL BE 3'-0" MIN. FROM ANY AIR SUPPLY OR RETURN AIR STREAM, AND EQUIPPED WITH A BATTERY BACKUP. FURTHER THE 2017 FLORIDA BUILDING CODE SECTION R315 ONLY REQUIRES A CARBON MONOXIDE DETECTOR WITHIN TEN FEET OF EACH ROOM USED FOR SLEEPING PURPOSES, THIS REQUIREMENT IS APPLICABLE ONLY IN DWELLING UNITS THAT HAVE EITHER AN ATTACHED GARAGE OR A FOSSIL-FUEL BURNING HEATER OR APPLIANCE.

IN ACCORDANCE WITH CHAPTER 471.003(2)(I) OF THE FLORIDA ADMINISTRATIVE CODE; ELECTRICAL SYSTEM SHALL BE DESIGNED BY THE RESPECTIVE CONTRACTORS TO MEET ALL APPLICABLE CODES. THE ELECTRICAL SYSTEM DRAWN HEREON IS BASED UPON A DESIGN PROVIDED BY THE OWNER TO ADDRESS HIS/HER REQUIREMENTS.

ALL 125V 15AMP OR 20AMP RECEPTACLE OUTLETS IN BATHROOMS, LAUNDRY ROOMS, OUTLETS SERVING KITCHEN COUNTERTOP SURFACES, IN GARAGES WITHIN SIX FEET OF ANY SINK, DISHWASHER AND AT EXTERIOR LOCATIONS SHALL BE PROTECTED BY A GROUND-FAULT CIRCUIT INTERRUPTER.

ALL 125V AND 250V 15 OR 20AMP RECEPTACLE OUTLETS INSTALLED IN WET LOCATIONS SHALL HAVE AN INCLOSURE THAT IS WEATHERPROOF WHETHER OR NOT AN ATTACHMENT PLUG IS INSERTED.

ELECTRICAL CIRCUITS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER IN ACCORDANCE WITH ARTICLE 210.12.

ALL ELECTRICAL FIXTURES, LOCATIONS AND SWITCHES TO BE FIELD VERIFIED w/ OWNER & CONTRACTOR PRIOR TO INSTALLATION

ALL NON-GFI OUTLETS TO BE ON ARC FAULT INTERRUPTERS

GFC OUTLETS ARE REQUIRED AT ALL EXTERIOR LOCATIONS

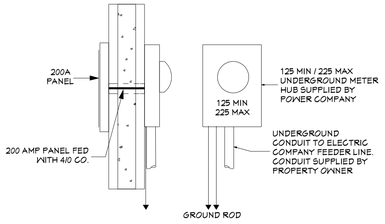
ALL ELECTRICAL MUST MEET 2017 F.B.C.

LOCATION OF FIXTURES AND/OR OUTLETS ARE SUGGESTED AND MAY BE ADJUSTED BY OWNER/BUILDER BUT MUST MEET ALL LOCAL AND STATE REQUIREMENTS.

ELECTRIC SERVICE AND PANEL BOX TO BE LOCATED ON JOB SITE UNLESS OTHERWISE SPECIFIED

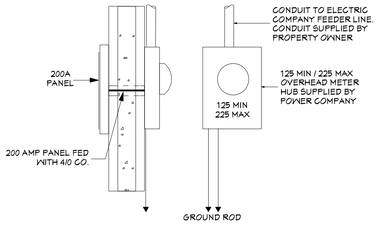
PRELIMINARY ELECTRIC WORK MAY BE REQUIRED AT SLAB STAGE

THIS PLAN IS INTENDED TO SHOW A BASIC ELECTRICAL LAYOUT. BUILDING DESIGNS BY MARSHALL & MARINE, INC. WILL BEAR NO RESPONSIBILITY FOR ITS ACCURACY. IT IS THE LICENCE ELECTRICAL CONTRACTORS RESPONSIBILITY TO VERIFY THE REQUIREMENTS AND THE LOCATIONS OF ALL ELECTRICAL EQUIPMENT. FURTHERMORE, PROVIDE AND INSTALL COMPLETE ELECTRICAL SERVICE AS REQUIRED. IT IS THE
ELECTRICAL CONTRACTORS RESPONSIBILITY TO SUBMIT ELECTRICAL PLAN AND FULL NECESSARY PERMITS AS REQUIRED BY LOCAL BUILDING DEPARTMENTS.



ELECTRICAL RISER DIAGRAM
UNDERGROUND SERVICE

NOT TO SCALE

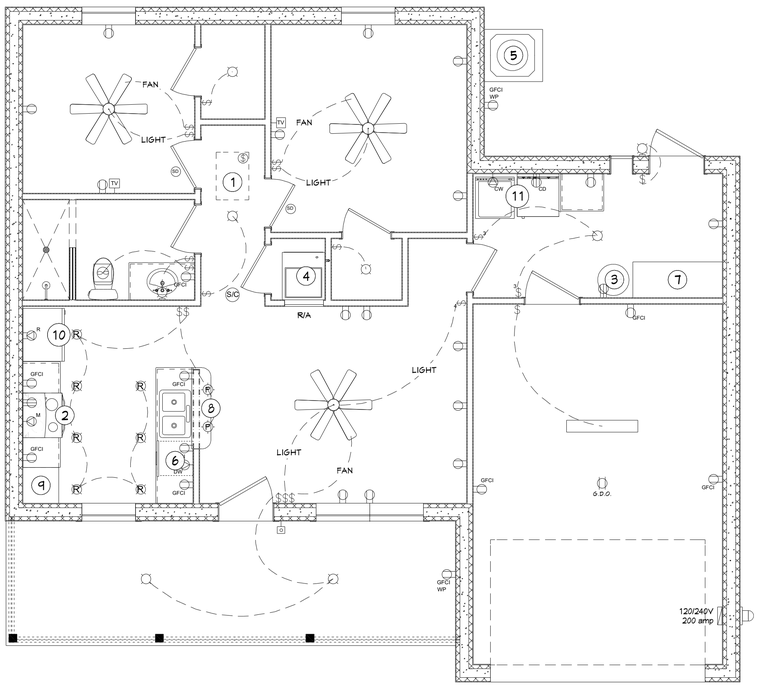


ELECTRICAL RISER DIAGRAM
OVERHEAD SERVICE

NOT TO SCALE

ELECTRICAL LEGEND

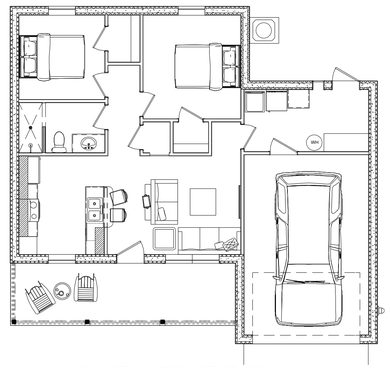
- Duplex Receptacle
- 220 Volt Wall Outlet
- GFCI — Ground Fault Receptacle
- GFCI WP — Ground Fault/ Waterproof Receptacle
- CD — Clothes Dryer Duplex Receptacle
- CW — Clothes Washer GFCI Duplex Receptacle
- R — Refrigerator Duplex Receptacle
- DW — Dishwasher GFCI Duplex Receptacle
- H — Hood w/ Vent Receptacle
- Door Bell
- Phone Outlet
- TV — TV Outlet
- G.D.O. — Garage Door Opener Receptacle
- S — Soffit Mounted Receptacle
- Floor Mounted Receptacle
- Ceiling Fan w/ Light
- Single Pole Switch
- 3 — Three-Way Switch
- 4 — Four-way Switch
- DM — Dimmer Switch
- DC — Door Bell Chime
- Wall Mounted Light Fixture
- Porch Lantern
- Fluorescent
- Ceiling Mounted Light Fixture
- R / S — Soffit Mounted Recessed Can Light Fixture
- $ — Attic Light w/ Switch
- R — Recessed Can Light Fixture
- GD — Garbage Disposal
- SD — Smoke Detector
- S/C — Smoke & Carbon Monoxide Detector
- Exhaust Fan
- Yard Post Light On Photo Cell



ELECTRICAL PLAN

SCALE 1/4" = 1'

ELECTRICAL NOTES	
1	22" X 33" ATTIC ACCESS
2	30" ELECTRIC RANGE W/ MICROWAVE ABOVE
3	40 GALLON ELECTRIC WATER HEATER
4	AIR HANDLER
5	CONDENSING UNIT
6	DISHWASHER
7	FULL HEIGHT STORAGE CABINET
8	ISLAND W/ 12" LEVEL BAR
9	PANTRY CABINET
10	REFRIGERATOR
11	WASHER & DRYER



FURNITURE PLAN

SCALE 1/8" = 1'

SEAL:

PE #22150
Wednesday, October 1, 2020

ENGINEER OF RECORD:
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REVISIONS:

FINAL DATE:
10/1/2020 HV

PROJECT #: 20-313

SHEET:
A3.00/E1.00

SOIL TERMITE TREATMENT:

INITIAL SOIL POISONING TREATMENT SHALL BE DONE AFTER ALL EXCAVATION, BACKFILLING & COMPACTION ARE COMPLETE (PER FBC 1816.1.1).

ANY SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RE-TREATED (INCLUDING ANY BOXED OR FORMED AREA) - (PER FBC 1816.1.2).

BOXED AREA IN THE CONCRETE SLAB FOR INSTALLATION OF TRAPS SHALL BE MADE WITH PERMANENT METAL OR PLASTIC FORMS. PERMANENT FORMS MUST BE OF AN ADEQUATE SIZE & DEPTH TO ELIMINATE ANY DISTURBANCE OF THE SOIL AFTER THE INITIAL TREATMENT. (PER FBC 1816.1.3).

A MINIMUM 6 MIL VAPOR BARRIER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR BARRIER PLACEMENT, RE-TREATMENT SHALL BE REQUIRED (PER FBC 1816.1.4).

ALL BUILDINGS ARE REQUIRED TO HAVE A PRE-CONSTRUCTION TERMITE TREATMENT (PER FBC 1816.1.7).

AFTER ALL WORK IS COMPLETED, ANY LOOSE WOOD AND FILL MUST BE REMOVED FROM BELOW AND WITHIN 12 INCHES OF THE BUILDING. THIS SHALL INCLUDE ALL GRADE STAKES, TUB TRAP BOXES, FORM, SHORING AND ANY OTHER CELLULOSE CONTAINING MATERIALS. (PER FBC 2303.1.3)

NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC. SHALL BE BURIED WITHIN 15'-0" OF ANY BUILDING OR PROPOSED BUILDING (PER FBC 2303.1.4).

ANY CONCRETE OVER FOUR, MORTAR OR STUCCO MATERIALS ALONG THE FOUNDATION PERIMETER MUST BE REMOVED PRIOR TO EXTERIOR SOIL TREATMENT (PER FBC 1816.1.5).

EXTERIOR SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 12 INCHES OF THE STRUCTURE SIDE WALL (PER FBC 1816.1.6).

AN EXTERIOR VERTICAL CHEMICAL BARRIER SHALL BE INSTALLED AFTER CONSTRUCTION IS COMPLETE (INCLUDING LANDSCAPING AND IRRIGATION). ANY SOIL DISTURBED AFTER THE VERTICAL BARRIER IS APPLIED, SHALL BE RE-TREATED. (PER FBC 1816.1.6)

IRRIGATION/SPRINKLERS SYSTEMS INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 12 INCHES OF THE BUILDING SIDEWALL (PER FBC 1503.4.4).

CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 12 INCHES AWAY FROM THE BUILDING SIDEWALLS (PER FBC 1503.4.4).

THE DISTANCE FROM THE EXTERIOR WALL COVERING (EXCEPTIONS: PAINT AND DECORATIVE CEMENTITIOUS FINISHES LESS THAN 5/8 INCH THICK ADHERED DIRECTLY ONTO THE FOUNDATION WALL) AND FINAL EARTH GRADE SHALL NOT BE LESS THAN 6 INCHES TO ALLOW FOR INSPECTION FOR FUTURE TERMITE INFESTATIONS (PER FBC 1403.1.6).

A "CERTIFICATE OF COMPLIANCE" SHALL BE ISSUED TO THE BUILDING DEPARTMENT BY A LICENSED PEST CONTROL COMPANY BEFORE A "CERTIFICATE OF OCCUPANCY" WILL BE ISSUED. THE CERTIFICATE SHALL STATE (PER FBC 1816.1.7):

> "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES."

A PERMANENT SIGN THAT IDENTIFIES THE TERMITE TREATMENT PROVIDED AND NEEDED FOR RE-INSPECTION AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRICAL PANEL (PER FBC 104.2.6).

SOIL BEARING & COMPACTION:

THESE PLANS WERE DRAWN BASED UPON AN ALLOWABLE SOIL BEARING CAPACITY OF 2,000 P.S.F. (MINIMUM). THE CONTRACTOR/PROPERTY OWNER ARE RESPONSIBLE FOR VERIFYING THAT THE SOIL ON THE SITE IS PROPERLY PREPARED & COMPACTED SUCH THAT IT CAN SUPPORT A 2,000 P.S.F. FOUNDATION LOADING.

FOUNDATIONS & SLAB-ON-GRADE:

BUILDING SITE SHALL BE SCRAPED TO REMOVE ALL ORGANIC MATERIALS WITHIN THE BUILDING AREA.

ANY ADDITIONAL FILL PLACED ON THE BUILDING PAD AREA, SHALL BE COMPACTED SUCH THAT IT CAN ADEQUATELY SUPPORT A 2,000 P.S.F. FOUNDATION LOADING. ADDITIONAL FILL EXCEEDING AN 18" ELEVATION TO BE PLACED IN 12" LIFTS COMPACTED TO 95% OF MODIFIED PROCTOR

SLAB SHALL BE PLACED OVER A 6 MIL VAPOR BARRIER WITH TAPED JOINTS ON CLEAN, ADEQUATELY COMPACTED AND TERMITE POISONED SOIL.

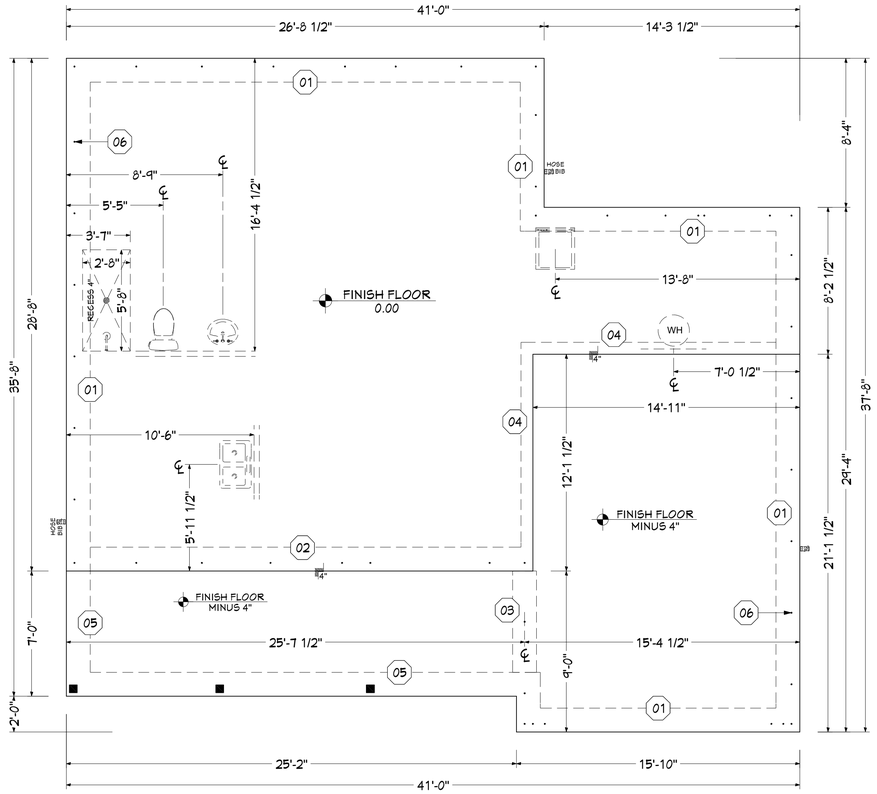
CONCRETE UTILIZED IN THE FOUNDATIONS AND SLABS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,500 P.S.I.

REINFORCING STEEL SHALL BE GRADE 40 MINIMUM AND IDENTIFIED IN ACCORDANCE WITH ASTM A-615. LAP SPLICES, WHERE REQUIRED, SHALL BE A MINIMUM OF 25" FOR #5 REBAR, 30" FOR #6 REBAR & 35" FOR #7 REBAR. NOTE: #5 L BAR LEGS TO BE 25" x 25" ALL REINFORCING STEEL SHALL BE PROVIDED WITH A MINIMUM OF 3 INCHES OF CONCRETE COVER, WHEN INSTALLED BELOW GRADE AND 2 INCHES OF CONCRETE COVER ABOVE GRADE.

A FOUNDATION SURVEY SHALL BE PERFORMED AND A COPY OF THE SURVEY SHALL BE ON THE SITE FOR THE BUILDING INSPECTORS USE, OR ALL PROPERTY MARKERS SHALL BE EXPOSED AND A STRING STRETCHED FROM MARKER TO MARKER TO VERIFY THE REQUIRED BUILDING SETBACKS.

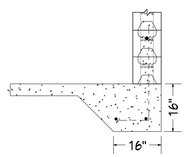
FOUNDATION/FOOTER NOTE SCHEDULE	
01	SEE DETAIL #1 16" x 16" Footer w/ (2) #5 Rebar Cont.
02	SEE DETAIL #2 16" x 16" Footer(w/ 4" Step Down) w/ (2) #5 Rebar Cont.
03	SEE DETAIL #3 12" x 16" Footer w/ (2) #5 Rebar Cont.
04	SEE DETAIL #4 8" x 8" Thickend Edge w/ (1) #5 Rebar Cont.
05	SEE DETAIL #5 (Porch Foundation) 16" x 16" Footer w/ (2) #5 Rebar Cont.
06	(1) #5 VERTICAL REBAR IN GROUTED CELL (TYP.) SPACED PER STEEL PLACEMENT.

Minimum Concrete Coverage Chart		
Location		Min (Inches)
Walls	12" Thick Or Greater	2"
	Less Than 12" Thick	
	(#5 Or Smaller)	1-1/2"
	(#6 Or Smaller)	2"
Slab		1"
Concrete To Soil		3"
Exposed Concrete		
	(#5 Or Smaller)	1-1/2"
	(#6 Or Smaller)	2"
Water Exposure		Add 1/2"
Exposed Corners To Have 3/4" Chamfer		



FOUNDATION PLAN

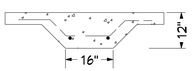
SCALE: 1/4" = 1'



* 4" CONCRETE SLAB
* 6X6 10/10 WIRE MESH OR FIBER MESH
* 6 MIL VAPOR BARRIER W/ TAPED JOINTS
* POISON SOIL FOR TERMITES
* 16" X 16" CONCRETE FOOTINGS
* 2 - #5 STEEL CONTINUOUS
* 2 - #5 L-BARS WITH 25" LEGS AT ALL CORNERS.
* 1 - #5 DOWEL ROD FROM FOOTING TO LINTEL AT ALL CORNERS.
* 1 - #5 VERTICAL DOWEL ROD PER STEEL PLACEMENT PLAN.
* OPENINGS GREATER THAN 6'-8" SHALL HAVE 2-#5 STEEL VERTICALS
* MIN. 2500 P.S.I. CONCRETE @ 28 DAYS

DETAIL #1

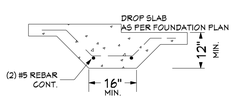
SCALE: 1/2" = 1'



* 4" CONCRETE SLAB
* 6X6 10/10 WIRE MESH OR FIBER MESH
* 6 MIL VAPOR BARRIER W/ TAPED JOINTS
* POISON SOIL FOR TERMITES
* 12" X 16" CONCRETE FOOTINGS
* 2 - #5 STEEL CONTINUOUS
* 2 - #5 L-BARS WITH 25" LEGS AT ALL CORNERS.
* MIN. 2500 P.S.I. CONCRETE @ 28 DAYS

DETAIL #3

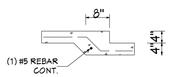
SCALE: 1/2" = 1'



* 4" CONCRETE SLAB
* 6X6 10/10 WIRE MESH OR FIBER MESH
* 6 MIL VAPOR BARRIER W/ TAPED JOINTS
* POISON SOIL FOR TERMITES
* 12" X 16" CONCRETE FOOTINGS
* 2 - #5 STEEL CONTINUOUS
* 2 - #5 L-BARS WITH 25" LEGS AT ALL CORNERS.
* MIN. 2500 P.S.I. CONCRETE @ 28 DAYS

DETAIL #2

SCALE: 1/2" = 1'

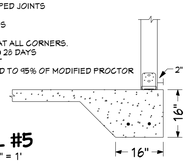


* 4" CONCRETE SLAB
* 6X6 10/10 WIRE MESH OR FIBER MESH
* 6 MIL VAPOR BARRIER W/ TAPED JOINTS
* POISON SOIL FOR TERMITES
* 8" X 8" CONCRETE FOOTINGS
* 1 - #5 STEEL CONTINUOUS
* 1 - #5 L-BARS WITH 25" LEGS AT ALL CORNERS.
* MIN. 2500 P.S.I. CONCRETE @ 28 DAYS

THICKENED EDGE DETAIL #4

SCALE: 1/2" = 1'

- SIMPSON ABU66 INSTALLED PER MANUFACTURES SPECIFICATIONS
- 2" MIN. EDGE CLEARANCE
- 4" CONCRETE SLAB
- 6 x 6 10/10 WIRE MESH OR FIBER MESH
- 6 MIL VAPOR BARRIER W/ TAPED JOINTS
- SOIL POISON FOR TERMITES
- 16" x 16" CONCRETE FOOTINGS
- 2 - #5 STEEL CONTINUOUS
- 2 - #5 L-BARS WITH 25" LEGS AT ALL CORNERS.
- MIN. 2,500 P.S.I. CONCRETE @ 28 DAYS
- CLEAN COMPACTED FILL DIRT
- SOIL IN 12" LIFTS, COMPACTED TO 95% OF MODIFIED PROCTOR



DETAIL #5

SCALE: 1/2" = 1'

SEAL:

WILLIAM F. STUHRKE, PHD, P.E.
PE #22150
Wednesday, October 1, 2020

ENGINEER OF RECORD:
WILLIAM F. STUHRKE, PHD, P.E.
12215 Rebecca's Run Dr.
Winter Garden, FL 34787
407-420-3119
State of Florida PE #22150

PROJECT:
STEVE
COOK
210 Woodstork Way
Frostproof, FL. 33843

Square Footage
975 Living
324 Garage
176 F. Porch
1,375 Total

CONTRACTOR:
STEWART CONSTRUCTION
1500 Sebring Parkway
Sebring, FL. 33870
(863) 385-0403

BUILDING DESIGNS BY
MARSHALL & MARINE
6406 US Hwy 27 S.
Sebring, FL. 33876
(863) 471-1525
www.needplans.com

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AIBD
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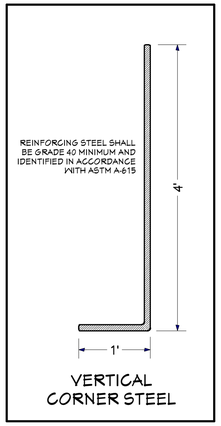
While every effort has been made in the preparation of this plan to avoid mistakes, the market can not guarantee against human error. The Homeowner and or Contractor of the job must check all dimensions and other details prior to construction and be solely responsible thereafter.

START DATE:
08/31/2020 TA
REVISIONS:

FINAL DATE:
10/1/2020 HV

PROJECT #: 20-313

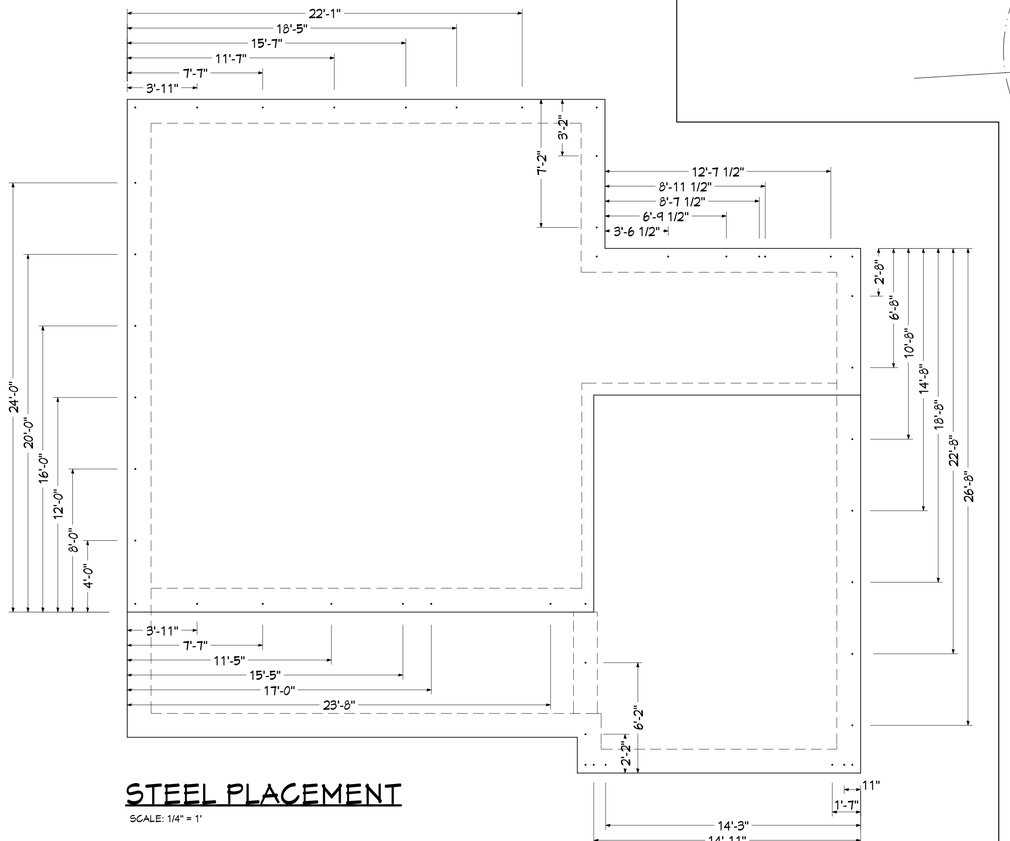
SHEET:
S1.00



VERTICAL CORNER STEEL

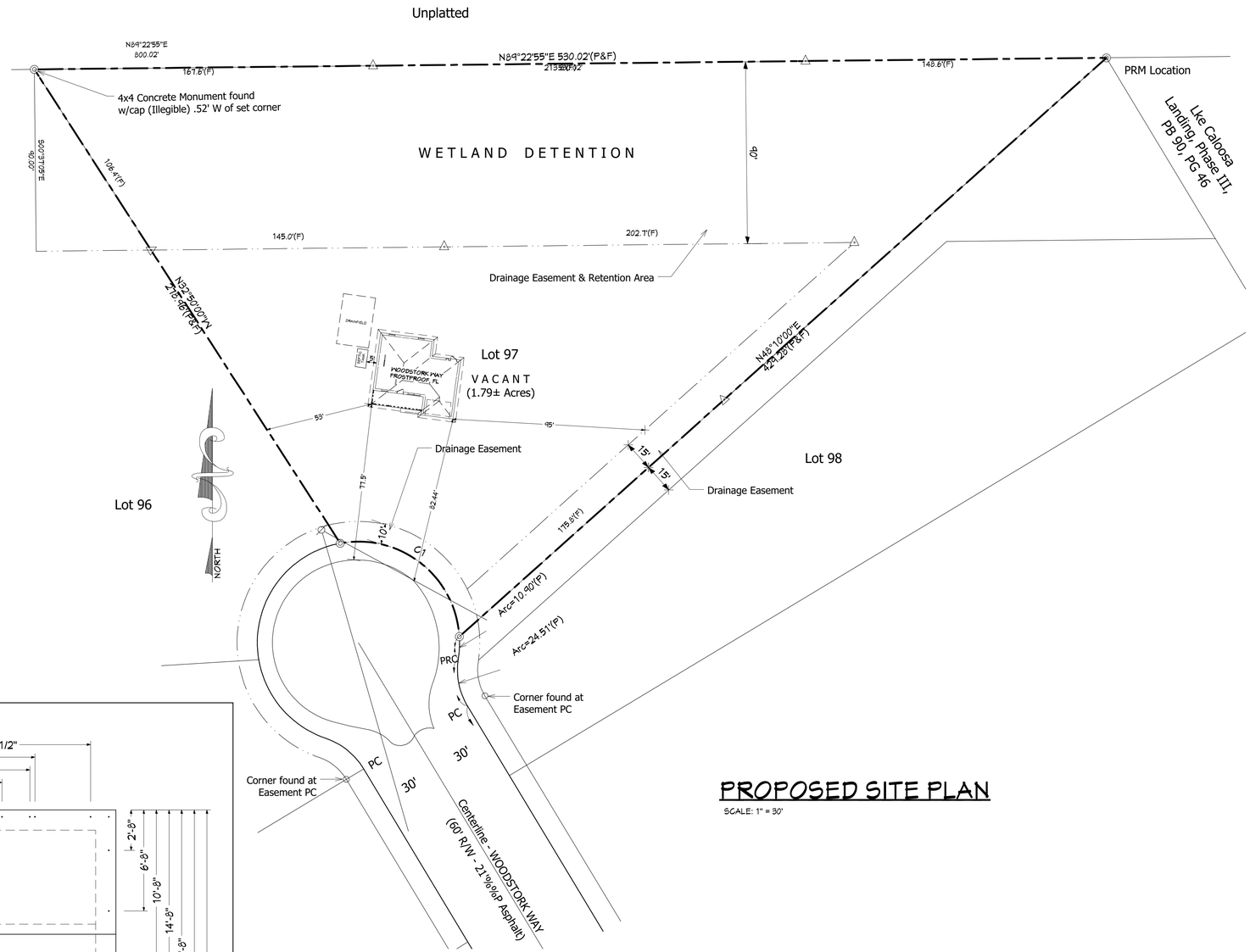
NOTE: (1) #5 VERTICAL STEEL PER CMU CELL.

* 1 - #5 DOWEL ROD FROM FOOTING TO LINTEL AT ALL CORNERS.
* 1 - #5 VERTICAL DOWEL ROD PER STEEL PLACEMENT PLAN.
* OPENINGS GREATER THAN 6'-6" SHALL HAVE 2-#5 STEEL VERTICALS



STEEL PLACEMENT

SCALE: 1/4" = 1'



PROPOSED SITE PLAN

SCALE: 1" = 30'

SEAL:

PE #22150
Wednesday, October 7, 2020

ENGINEER OF RECORD:
WILLIAM F. STUHRKE, PHD, P.E.
12215 Rebecca's Run Dr.
Winter Garden, FL 34787
407-420-3119
State of Florida PE #22150

PROJECT:
STEVE COOK
210 Woodstork Way
Frostproof, FL 33843

Square Footage
875 Living
324 Garage
176 F. Porch
1,375 Total

CONTRACTOR:
STEWART CONSTRUCTION
1500 Sebring Parkway
Sebring, FL 33870
(863) 385-0403

BUILDING DESIGNS BY MARSHALL & MARINE
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START DATE:
08/31/2020 TA
REVISIONS:
FINAL DATE:
10/1/2020 HV

PROJECT #: 20-313

SHEET:

S2.00/C1.00

TRUSSES

IF THE CONTRACTOR, TRUSS MANUFACTURER OR ANY OTHER DESIGN PROFESSIONALS REVISE THE TRUSS SYSTEM LAYOUT FROM THOSE SHOWN ON THESE PLANS DESIGNER AND/OR STRUCTURAL ENGINEER IS REQUIRED TO REVIEW ALL FINAL CONSTRUCTION DOCUMENTS FOR COMPLIANCE WITH THE DESIGN INTENT PRIOR TO COMMENCEMENT OF THE PROJECT.

ROOF PITCH - 5 IN 12
OVERHANG - 18"
GABLE END - N/A
ROOF MATERIAL - CODE APPROVED METAL ROOF
SUB-FASCIA- 2X6
SOFFITS - VENTED
FASCIA - ALUM

ROOF UNDERLAYMENT SPECIFICATIONS

PER R905.1.1 R.F.B.C. 2017:
UNDERLAYMENT FOR 2:12 UP TO 4:12 SHALL BE (2) LAYERS THAT CONFORMS TO ASTM D226, TYPE I OR ASTM D4869 TYPE II
UNDERLAYMENT FOR 4:12 OR GREATER SHALL BE (1) LAYER THAT CONFORMS TO ASTM D226, TYPE II OR ASTM D4869, TYPE IV, OR ASTM D6757.
AND SHALL BE ONE LAYER APPLIED IN THE FOLLOWING MANNER.
UNDERLAYMENT SHALL BE APPLIED SHINGLE FASHION, PARALLEL TO AND STARTING FROM THE EAVE AND LAPPED 2 INCHES (51 MM).
FASTENED WITH 1-INCH (25 MM) ROUND PLASTIC CAP, METAL CAP NAILS OR NAILS AND TIN-TABS ATTACHED TO A NAILABLE DECK WITH TWO STAGGERED ROWS IN THE FIELD OF THE SHEET WITH A MAXIMUM FASTENER SPACING OF 12 INCHES (305 MM) O.C., AND ONE ROW AT THE OVERLAPS FASTENED 6 INCHES (152 MM) O.C.
SYNTHETIC UNDERLAYMENT SHALL BE FASTENED IN ACCORDANCE WITH THIS SECTION AND THE MANUFACTURER'S RECOMMENDATIONS END LAPS SHALL BE OFFSET BY 6 FEET (1829 MM).

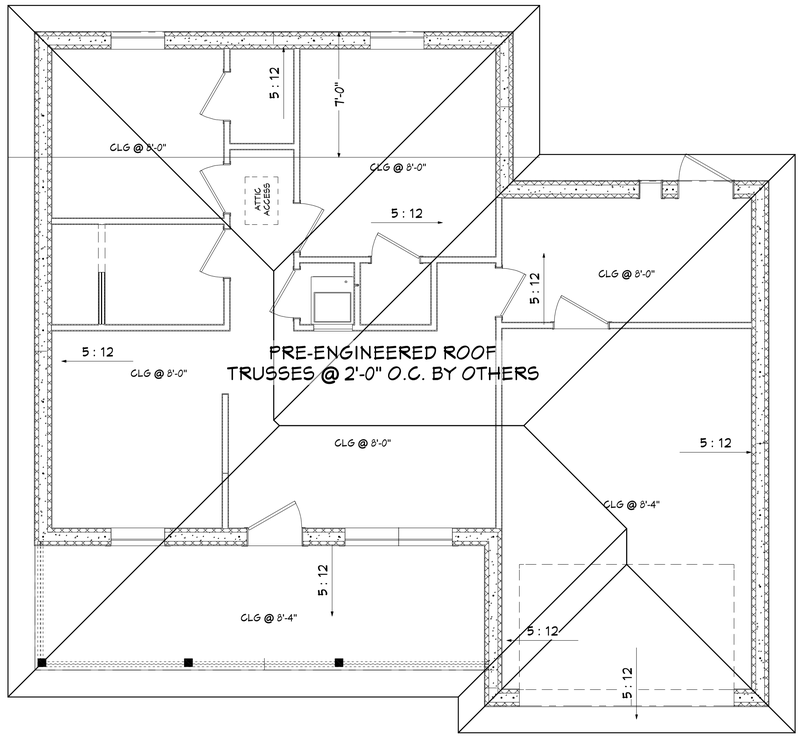
CLOSED VALLEYS SHALL HAVE VALLEY LINING OF ONE PLY OF SMOOTH ROLL ROOFING COMPLYING WITH ASTM D 6380, CLASS S & NO LESS THAN 36 INCHES WIDE(914 MM) PER FBC-R905.2.8.2
SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET SHALL COMPLY WITH ASTM D 1970

ROOF:
LIVE LOAD (TRUSS TOP CHORD) - 20 PSF
DEAD LOAD (TRUSS TOP CHORD) - 10 PSF
LIVE LOAD (TRUSS BOTTOM CHORD) - 10 PSF NO STORAGE -PER FBC 6TH EDITION
LIVE LOAD (TRUSS BOTTOM CHORD) - 20 PSF MIN. STORAGE PER FBC 6TH EDITION

BASIC WIND SPEED: (Table 1609.3.1)
☐ V ultimate = 150 mph, V basic = 116 mph
■ V ultimate = 137 mph, V basic = 106 mph
☐ V ultimate = 130 mph, V basic = 101 mph

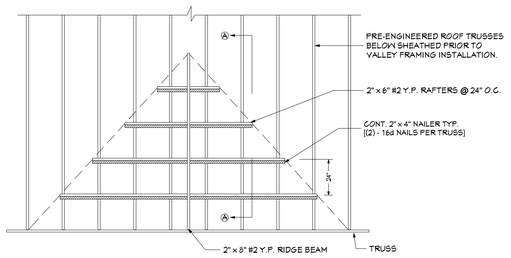
RISK CATEGORY:
☐ CATEGORY I
■ CATEGORY II
☐ CATEGORY III
☐ CATEGORY IV

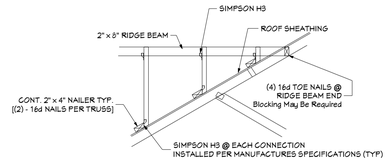
EXPOSURE CATEGORY:
☐ B
■ C
☐ D



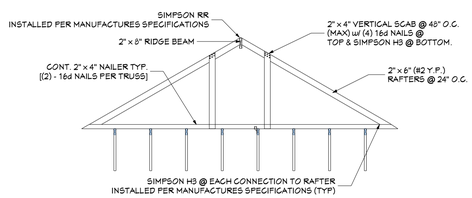
ROOF PLAN

SCALE: 1/4" = 1'





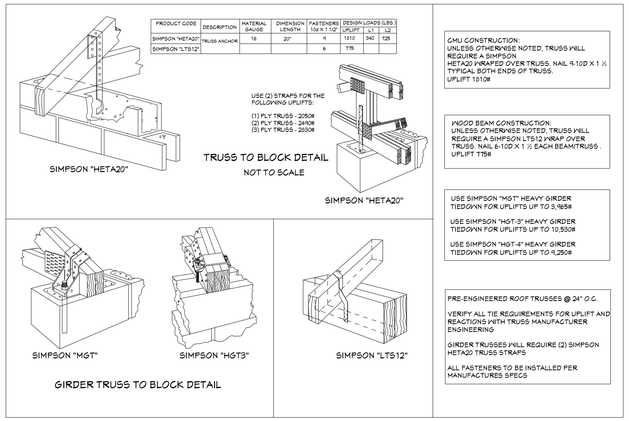
SECTION A-A



ELEVATION

ROOF VALLEY DETAIL

NOT-TO-SCALE



PRODUCT CODE	DESCRIPTION	MATERIAL GAUGE	DIMENSION LENGTH	FASTENERS 10d X 1 1/2"	DESIGN LOADS (LBS.) UPLIFT	L1	L2
SIMPSON "HETA20"	TRUSS ANCHOR	18	20"	4	1510	340	125
SIMPSON "LTS12"				6	775		

CMU CONSTRUCTION:
UNLESS OTHERWISE NOTED, TRUSS WILL REQUIRE A SIMPSON HETA20 WRAPPED OVER TRUSS, NAIL 4-10D X 1 ½ TYPICAL BOTH ENDS OF TRUSS.
UPLIFT 1510#

WOOD BEAM CONSTRUCTION:
UNLESS OTHERWISE NOTED, TRUSS WILL REQUIRE A SIMPSON LTS12 WRAP OVER TRUSS, NAIL 8-10D X 1 ½ EACH BEAM/TRUSS .
UPLIFT 775#

USE SIMPSON "MGT" HEAVY GIRDER TIEDOWN FOR UPLIFTS UP TO 3,165#

USE SIMPSON "HGT-3" HEAVY GIRDER TIEDOWN FOR UPLIFTS UP TO 10,530#

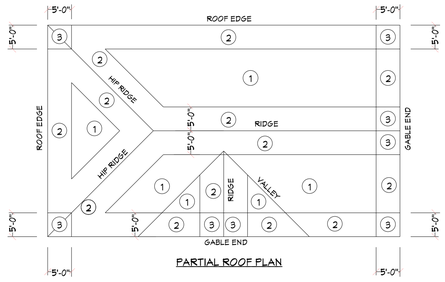
USE SIMPSON "HGT-4" HEAVY GIRDER TIEDOWN FOR UPLIFTS UP TO 9,250#

PRE-ENGINEERED ROOF TRUSSES @ 24" O.C.

VERIFY ALL TIE REQUIREMENTS FOR UPLIFT AND REACTIONS WITH TRUSS MANUFACTURER ENGINEERING

GIRDER TRUSSES WILL REQUIRE (2) SIMPSON HETA20 TRUSS STRAPS

ALL FASTENERS TO BE INSTALLED PER MANUFACTURES SPECS



PARTIAL ROOF PLAN

ZONE (1) 8d RING SHANK NAILS AT 6" O.C. AT EDGES
8d RING SHANK NAILS AT 6" O.C. INTERMEDIATE

ZONES (2) (3) 8d RING SHANK NAILS AT 4" O.C. AT EDGES
8d RING SHANK NAILS AT 4" O.C. INTERMEDIATE

NOTE: END JOINTS FOR SHEATHING SHALL BE STAGGERED AND OCCUR OVER A FRAMING MEMBER.

ROOF SHEATHING NAILING

SEAL:
PE #22150
Wednesday, October 7, 2020

ENGINEER OF RECORD:
WILLIAM F. STUHRKE, PHD, P.E.
12215 Rebecca's Run Dr.
Winter Garden, FL 34787
407-420-3119
State of Florida PE #22150

PROJECT:
STEVE COOK
210 Woodstork Way
Frostproof, FL. 33843

Square Footage
975 Living
324 Garage
176 F. Porch
1,375 Total

CONTRACTOR:
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START DATE:
08/31/2020 TA
REVISIONS:

FINAL DATE:
10/1/2020 HV

PROJECT #: 20-313

SHEET:
S3.00

ICF WALLS:
REINFORCING STEEL SHALL BE GRADE 40 MINIMUM AND IDENTIFIED IN ACCORDANCE WITH ASTM A615. LAP SPLICES, WHERE REQUIRED, SHALL BE A MINIMUM OF 25" FOR #5 REBAR, 30" FOR #6 REBAR & 35" FOR #7 REBAR.

GROUT FOR THE POURED CELLS AND LINTELS SHALL HAVE A MAXIMUM COURSE AGGREGATE SIZE OF 3/8", PLACED AT AN 8 TO 11 INCH SLUMP AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,500 P.S.I. (WHEN TESTED PER ASTM C-1019).

DOORS & WINDOWS
EVERY BEDROOM SHALL BE PROVIDED WITH AN EGRESS WINDOW WITH FINISH SILL HEIGHT NOT GREATER THAN 44" ABOVE THE FINISH FLOOR HEIGHT AND SHALL HAVE A MINIMUM OPERABLE AREA OF 5.7 SQ. FT. EGRESS WINDOWS SHALL NOT HAVE AN OPERABLE AREA LESS THAN 20" WIDE OR 24" HIGH.

NOTE:
EGRESS WINDOWS LOCATED 72" OR MORE ABOVE FINISH GRADE SHALL HAVE A FINISH SILL HEIGHT OF 24" MIN. ABOVE THE FINISH FLOOR OF THE ROOM IN WHICH IT IS LOCATED.

INTERIOR DOORS SHALL BE PAINTED. ENTRY DOOR TO BE DEFINED BY HOME OWNER PRIOR ORDERING

R302.5 DWELLING-GARAGE OPENING AND PENETRATION PROTECTION
OPENINGS AND PENETRATIONS THROUGH THE WALLS OR CEILINGS SEPARATING THE *DWELLING* FROM THE GARAGE SHALL BE IN ACCORDANCE WITH SECTIONS R302.5.1 THROUGH R302.5.3.

R302.5.1 OPENING PROTECTION
OPENINGS FROM A PRIVATE GARAGE DIRECTLY INTO A ROOM USED FOR SLEEPING PURPOSES SHALL NOT BE PERMITTED. OTHER OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL BE EQUIPPED WITH SOLID WOOD DOORS NOT LESS THAN 1⅜ INCHES (35 MM) IN THICKNESS, SOLID OR HONEYCOMB-CORE STEEL DOORS NOT LESS THAN 1 3⅜ INCHES (35 MM) THICK, OR 20-MINUTE FIRE-RATED DOORS.

R302.5.2 DUCT PENETRATION

DUCTS IN THE GARAGE AND DUCTS PENETRATING THE WALLS OR CEILINGS SEPARATING THTHE *DWELLING* FROM THE GARAGE SHALL BE CONSTRUCTED OF A MINIMUM NO. 26 GAGE (0.48 MM) SHEET STEEL, 1 INCH (25.4 MM) MINIMUM RIGID NON-METALLIC CLASS 0 OR CLASS 1 DUCT BOARD, OR OTHER *APPROVED* MATERIAL AND SHALL NOT HAVE OPENINGS INTO THE GARAGE.

R302.5.3 OTHER PENETRATIONS

PENETRATIONS THROUGH THE SEPARATION REQUIRED IN SECTION R302.6 SHALL BE PROTECTED AS REQUIRED BY SECTION R302.11, ITEM 4.

R302.6 DWELLING GARAGE FIRE SEPARATION

THE GARAGE SHALL BE SEPARATED AS REQUIRED BY TABLE R302.6. OPENINGS IN GARAGE WALLS SHALL COMPLY WITH SECTION R302.5. ATTACHMENT OF GYPSUM BOARD SHALL COMPLY WITH TABLE R702.3.5. THE WALL SEPARATION PROVISIONS OF TABLE R302.6 SHALL NOT APPLY TO GARAGE WALLS THAT ARE PERPENDICULAR TO THE ADJACENT *DWELLING UNIT* WALL.

TABLE R302.6
DWELLING-GARAGE SEPARATION

SEPARATION	MATERIAL
FROM THE RESIDENCE AND ATTICS	NOT LESS THAN 1/2-INCH GYPSUM BOARD OR EQUIVALENT APPLIED TO THE GARAGE SIDE
FROM HABITABLE ROOMS ABOVE THE GARAGE	NOT LESS THAN 5/8-INCH TYPE X GYPSUM BOARD OR EQUIVALENT
STRUCTURE(S) SUPPORTING FLOOR/CEILING ASSEMBLIES USED FOR SEPARATION REQUIRED BY THIS SECTION	NOT LESS THAN 1/2-INCH GYPSUM BOARD OR EQUIVALENT
GARAGES LOCATED LESS THAN 3 FEET FROM A DWELLING UNIT ON THE SAME LOT	NOT LESS THAN 1/2-INCH GYPSUM BOARD OR EQUIVALENT APPLIED TO THE INTERIOR SIDE OF EXTERIOR WALLS THAT ARE WITHIN THIS AREA

AT LEAST ONE EXTERIOR EXIT DOOR WILL BE 36" MIN. NET CLEAR DOORWAY SHALL BE 32" MIN. DOOR SHALL BE OPERABLE FROM INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. GLAZING IN DOORS SHALL BE DUAL PANE SAFETY GLASS WITH MIN. U-VALUE OF 0.60

SAFETY GLAZING:
THE FOLLOWING SHALL BE CONSIDERED SPECIFIC HAZARDOUS LOCATIONS FOR THE PURPOSES OF GLAZING:

(1) GLAZING IN SWINGING DOORS, FIXED AND SLIDING PANELS OF SLIDING DOOR ASSEMBLIES.

(2) GLAZING IN DOORS AND ENCLOSURES FOR HOT TUB, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS, AND SHOWERS. GLAZING IN ANY PORTION OF A BUILDING WALL ENCLOSING THESE COMPARTMENTS WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE DRAIN INLET.

(3) GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24 INCH RADIUS OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FINISHED FLOOR OR WALKING SURFACE.

(4) GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL, OTHER THAN THOSE LOCATIONS DESCRIBED IN ITEMS (2) AND (3) ABOVE. THAT MEETS ALL OF THE FOLLOWING CONDITIONS:

(A) EXPOSED AREA OF AN INDIVIDUAL PANE GREATER THAN 9 SQ. FT.

(B) BOTTOM EDGE LESS THAN 18 INCHES ABOVE THE FLOOR.

(C) TOP EDGE GREATER THAN 36 INCHES ABOVE THE FLOOR.

(D) ONE OR MORE WALKING SURFACES WITHIN 36 INCHES HORIZONTALLY OF THE PLANE OF THE GLAZING.

DRAFT STOPPING:
IN SINGLE FAMILY DWELLINGS, DRAFT STOPPING SHALL BE PROVIDED (PARALLEL TO THE MAIN FRAMING MEMBERS) IN FLOOR/CEILING ASSEMBLIES SEPARATING USEABLE SPACES. DRAFT STOPPING SHALL BE CONSTRUCTED SUCH THAT THE FLOOR/CEILING ASSEMBLY IS BROKEN UP INTO TWO OR MORE APPROXIMATE AREAS WITH NO AREA GREATER THAN 500 SQ. FT.

ATTIC ACCESS:
ATTIC SPACES SHALL BE PROVIDED WITH AN INTERIOR ACCESS OPENING NOT LESS THAN 22X30 INCHES. ACCESS OPENING SHALL BE ACCESSIBLE AND PROVIDED WITH LID OR DEVICE THAT IS EASILY REMOVED OR OPENED WHEN MECHANICAL EQUIPMENT IS INSTALLED IN THE ATTIC, IT SHALL BE INSTALLED IN ACCORDANCE WITH THE MECHANICAL CODE. ACCESS IS NOT REQUIRED WHEN THE CLEAR HEIGHT OF THE ATTIC SPACE, MEASURED AT THE ROOF PEAK, IS LESS THAN 30 INCHES.

VENTILATION NOTES:
ALL COMBUSTION APPLIANCES WILL BE VENTED DIRECTLY TO THE EXTERIOR.
FIREBOX AND TANKLESS WATER HEATER SHALL HAVE OUTSIDE COMBUSTION AIR SUPPLY PURSUANT TO REGIONAL AND LOCAL CODES.

ATTIC SHALL HAVE VENTILATION EQUAL TO 1 SQ. FOOT PER 150 SQ. FEET OF ATTIC SPACE. VENTILATION SHALL BE PROTECTED FROM RAIN AND SHALL BE COVERED WITH VENTED SOFFIT, OR APPROVED MATERIAL. OPENINGS SHALL BE LOCATED TO PROVIDE CROSS VENTILATION.

EXHAUST ALL VENTS AND FANS DIRECTLY TO OUTSIDE VIA METAL DUCTS, PROVIDE 40 CFM (MIN) FANS TO PROVIDE 5 AIR CHANGES PER HOUR IN BATHS CONTAINING TUB AND / OR SHOWER AND IN LAUNDRY ROOMS.

UNDER FLOOR SPACES SHALL HAVE VENTILATION EQUAL TO ONE SQ. FOOT PER 150 SQ. FEET OF FLOOR SPACE. VENTS SHALL BE CAST INTO THE CONCRETE STEM WALLS AND COVERED WITH GALVANIZED WIRE SCREEN. VENTS SHALL BE LOCATED TO PROVIDE CROSS VENTILATION.

KITCHEN AND CABINET NOTES:
CONFIRM ALL CABINET MATERIAL & COLOR WITH HOME OWNER PRIOR TO ORDERING.
CONFIRM DOOR & DRAWER STYLES WITH HOME OWNER PRIOR TO ORDERING.
INSTALL HARDWARE ON SITE.
INSTALL CROWN MOLDING ON SITE; MATCH CABINET COLOR; CONFIRM PROFILE AND DIMENSION WITH HOME OWNER.
CUT OVEN OPENING ON SITE, SEE APPLIANCE SPECIFICATIONS.
INSTALL HOOD AND ALL APPLIANCES PER MANUFACTURER SPECIFICATIONS.
ALL APPLIANCES TO BE ON DEDICATED CIRCUITS.
USE MIN 6" DUCT FOR HOOD.
CONFIRM FINAL MATERIALS FOR BACKSPLASH AND COUNTERTOP WITH HOME OWNER PRIOR TO ORDERING

TRUSSES
IF THE CONTRACTOR, TRUSS MANUFACTURER OR ANY OTHER DESIGN PROFESSIONALS REVISE THE TRUSS SYSTEM LAYOUT FROM THOSE SHOWN ON THESE PLANS DESIGNER AND/OR STRUCTURAL ENGINEER IS REQUIRED TO REVIEW ALL FINAL CONSTRUCTION DOCUMENTS FOR COMPLIANCE WITH THE DESIGN INTENT PRIOR TO COMMENCEMENT OF THE PROJECT.

ROOF PITCH - 5 IN 12
OVERHANG - 18"
GABLE END - N/A
ROOF MATERIAL - CODE APPROVED METAL ROOF
SUB-FASCIA- 2X8
SOFFITS - VENTED
FASCIA - ALUM

TIMBER MATERIALS - STRUCTURAL - :
ALL TIMBER MATERIALS SHALL BE AS FOLLOWS:

LUMBER UTILIZED IN BOTTOM PLATES, TOP PLATES, POSTS, STUDS PACKS AND BEAMS SHALL BE #2 YELLOW PINE (OR BETTER). LUMBER WITH DIRECT CONTACT TO CONCRETE/MASONRY SHALL BE PRESSURE TREATED

ANCHOR TRUSSES AS FOLLOWS:
ROOF UPLIFTS OF 175# AND LESS USE (1) SIMPSON "LTS12" HURRICANE TIE.

ALL PLUMBING, ELECTRICAL AND MECHANICAL ROUGH-INS MUST BE COMPLETE, INSPECTED AND APPROVED PRIOR TO REQUESTING THE FRAMING INSPECTION.

IF DESIRED, EQUIVALENT CONNECTORS MADE BY ANOTHER SUPPLIER MAY BE USED IN PLACE OF THE "SIMPSON" CONNECTORS SHOWN.

APPLIANCE ACCESS:
APPLIANCE ACCESS FOR INSPECTION SERVICE, REPAIR AND REPLACEMENT.
APPLIANCES SHALL BE ACCESSIBLE FOR INSPECTION, SERVICE, REPAIR AND REPLACEMENT WITHOUT REMOVING PERMANENT CONSTRUCTION, OTHER APPLIANCES, OR ANY OTHER PIPING OR DUCTS NOT CONNECTED TO THE APPLIANCE BEING INSPECTED, SERVICED, REPAIRED OR REPLACED. A LEVEL WORKING SPACE AT LEAST 30 INCHES DEEP AND 30 INCHES WIDE (762 MM BY 762 MM) SHALL BE PROVIDED IN FRONT OF THE CONTROL SIDE TO SERVICE AN APPLIANCE. INSTALLATION OF ROOM HEATERS SHALL BE PERMITTED WITH AT LEAST AN 18 INCH (457 MM) WORKING SPACE. A PLATFORM SHALL NOT BE REQUIRED FOR ROOM HEATERS.

AIR HANDLERS.
AIR HANDLERS WITHIN COMPARTMENTS OR ALCOVES SHALL HAVE A MINIMUM WORKING SPACE CLEARANCE OF 4 INCHES (102 MM) ALONG THE SIDES, BACK AND TOP WITH A TOTAL WIDTH OF THE ENCLOSING SPACE BEING AT LEAST 12 INCHES (305 MM) WIDER THAN THE AIR HANDLER.

APPLIANCES IN ROOMS.
APPLIANCES INSTALLED IN A COMPARTMENT, ALCOVE OR SIMILAR SPACE SHALL BE ACCESSED BY AN OPENING OR DOOR AND AN UNOBSTRUCTED PASSAGEWAY MEASURING NOT LESS THAN 24 INCHES (610 MM) WIDE AND LARGE ENOUGH TO ALLOW REMOVAL OF THE LARGEST APPLIANCE IN THE SPACE, PROVIDED THERE IS A LEVEL SERVICE SPACE OF NOT LESS THAN 30 INCHES (762 MM) DEEP AND THE HEIGHT OF THE APPLIANCE, BUT NOT LESS THAN 30 INCHES (762 MM), AT THE FRONT OR SERVICE SIDE OF THE APPLIANCE WITH THE DOOR OPEN.
APPLIANCES IN ATTICS.
ATTICS CONTAINING APPLIANCES SHALL BE PROVIDED WITH AN OPENING AND A CLEAR AND UNOBSTRUCTED PASSAGEWAY LARGE ENOUGH TO ALLOW REMOVAL OF THE LARGEST APPLIANCE, BUT NOT LESS THAN 30 INCHES (762 MM) HIGH AND 22 INCHES (559 MM) WIDE AND NOT MORE THAN 6 FEET (1829 MM) LONG MEASURED ALONG THE CENTERLINE OF THE PASSAGEWAY FROM THE OPENING TO THE APPLIANCE. THE PASSAGEWAY SHALL HAVE CONTINUOUS SOLID FLOORING NOT LESS THAN 24 INCHES (610 MM) WIDE. A LEVEL SERVICE SPACE AT LEAST 30 INCHES (762 MM) DEEP AND 30 INCHES (762 MM) WIDE SHALL BE PRESENT ALONG ALL SIDES OF THE APPLIANCE WHERE ACCESS IS REQUIRED. THE CLEAR ACCESS OPENING DIMENSIONS SHALL BE A MINIMUM OF 20 INCHES BY 30 INCHES (508 MM BY 762 MM), AND LARGE ENOUGH TO ALLOW REMOVAL OF THE LARGEST APPLIANCE.

EXCEPTION: THE PASSAGEWAY AND LEVEL SERVICE SPACE ARE NOT REQUIRED WHERE THE APPLIANCE CAN BE SERVICED AND REMOVED THROUGH THE REQUIRED OPENING.

ELECTRICAL REQUIREMENTS
A LUMINAIRE CONTROLLED BY A SWITCH LOCATED AT THE REQUIRED PASSAGEWAY OPENING AND A RECEPTACLE OUTLET SHALL BE INSTALLED AT OR NEAR THE APPLIANCE LOCATION.

AIR-HANDLING UNITS.
AIR-HANDLING UNITS SHALL BE ALLOWED IN ATTICS IF THE FOLLOWING CONDITIONS ARE MEET: THE SERVICE PANEL OF THE EQUIPMENT IS LOCATED WITHIN 6 FEET (1829 MM) OF AN ATTIC ACCESS.
A DEVICE IS INSTALLED TO ALERT THE OWNER OR SHUT THE UNIT DOWN WHEN THE CONDENSATION DRAIN IS NOT WORKING PROPERLY.
THE ATTIC ACCESS OPENING IS OF SUFFICIENT SIZE TO REPLACE THE AIR HANDLER.
A NOTICE IS POSTED ON THE ELECTRIC SERVICE PANEL INDICATING TO THE HOMEOWNER THAT THE AIR HANDLER IS LOCATED IN THE ATTIC. SAID NOTICE SHALL BE IN ALL CAPITALS, IN 16 POINT TYPE, WITH THE TITLE AND FIRST PARAGRAPH IN BOLD.

ELECTRICAL, PLUMBING & MECHANICAL:
ELECTRICAL MATERIALS AND INSTALLATION SHALL COMPLY WITH APPLICABLE PREVISIONS OF THE 2014 NATIONAL ELECTRICAL CODE (NFPA 70), LOCAL CODES, AND THE LOCAL POWER COMPANY.

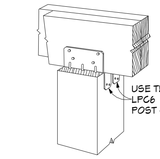
IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE, ALL OF THE SMOKE DETECTORS MUST BE ELECTRICALLY CONNECTED SUCH THAT WHEN ONE SMOKE DETECTOR IS ACTIVATED ALL OF THE DETECTORS MUST BE ACTIVATED. SMOKE DETECTORS SHALL BE IN ALL SLEEPING AREAS AND WITHIN 1'-0" TO 3'-0" OF CEILING PEAK, AND SHALL BE 3'-0" MIN. FROM ANY AIR SUPPLY OR RETURN AIR STREAM, AND EQUIP WITH A BATTERY BACKUP. FURTHER THE 2017 FLORIDA BUILDING CODE SECTION R315 ONLY REQUIRES A CARBON MONOXIDE DETECTOR WITHIN TEN FEET OF EACH ROOM USED FOR SLEEPING PURPOSES, THIS REQUIREMENT IS APPLICABLE ONLY IN DWELLING UNITS THAT HAVE EITHER AN ATTACHED GARAGE OR A FOSSIL-FUEL BURNING HEATER OR APPLIANCE.

IN ACCORDANCE WITH CHAPTER 471.003(2)(I) OF THE FLORIDA ADMINISTRATIVE CODE: ELECTRICAL, PLUMBING AND MECHANICAL SYSTEMS SHALL BE DESIGNED BY THE RESPECTIVE CONTRACTORS TO MEET ALL APPLICABLE CODES. THE ELECTRICAL, PLUMBING AND MECHANICAL SYSTEMS DRAWN HEREON
ARE BASED UPON A DESIGN PROVIDED BY THE OWNER TO ADDRESS HIS/HER REQUIREMENTS.

ALL ELECTRICAL OUTLETS IN BATHROOMS, KITCHEN (WITHIN 6 FEET OF SINKS), GARAGE AND AT EXTERIOR LOCATIONS SHALL BE WIRED INTO A GROUND-FAULT INTERRUPTER "GFCI" CIRCUIT.

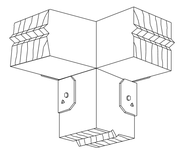
ALL ELECTRICAL OUTLETS AT EXTERIOR LOCATIONS W/ NO ROOF COVER SHALL BE WIRED INTO A GROUND-FAULT INTERRUPTER "GFCI" CIRCUIT AND HAVE A "BUBBLE COVER" OVER RECEPTACLE.

ALL ELECTRICAL OUTLETS SHALL BE WIRED INTO AN ARC-FAULT INTERRUPTER "AFI" CIRCUIT.



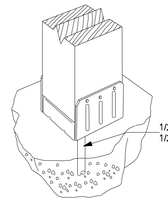
PRODUCT	DESCRIPTION	FASTENERS	DESIGN LOADS (LBS.)	
			BEARING	UPLIFT
SIMPSON LPG6	POST CAP 6" x 6"	16-10d	N/A	915

BEAM TO POST DETAIL
INTERMEDIATE POSTS



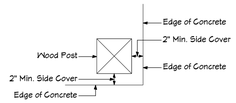
PRODUCT	DESCRIPTION	FASTENERS	DESIGN LOADS (LBS.)	
			BEARING	UPLIFT
SIMPSON LCE4	POST CAP 6" x 6"	24-16d	N/A	1905

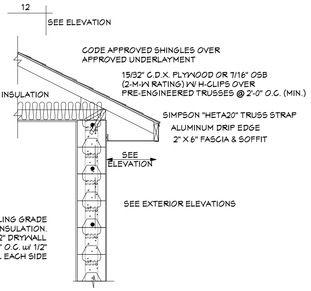
BEAM TO POST DETAIL
CORNER POSTS



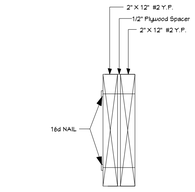
PRODUCT	DESCRIPTION	FASTENERS	DESIGN LOADS (LBS.)	
			BEARING	UPLIFT
SIMPSON "ABU66Z"	POST ANCHOR 6" x 6"	6-10d (1) 1/2" ANCHOR	6665	2200

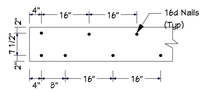
POST TO SLAB DETAIL
ALL POSTS



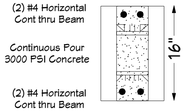


TYPICAL (ICF) WALL SECTION
SCALE: 1/2" = 1'-0"

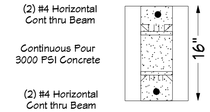




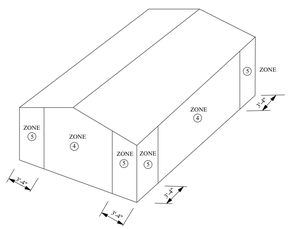
2-PLY BEAM DETAIL
SCALE: 1/2" =
1'-0"

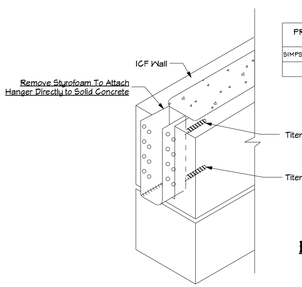


ICF Win/Door Header Detail OVER 6'-4" SPAN



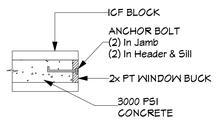
ICF Win/Door Header Detail UNDER 6'-4" SPAN



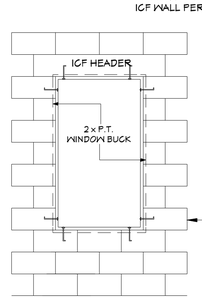


PRODUCT CODE	DIMENSIONS		DESIGN LOADS (LBS.)		
	H	W	NORMAL	MAX.	UPLIFT
SIMPSON MBHU3.56/11.25KT	11-1/4"	3-9/16"	2115	2115	4190

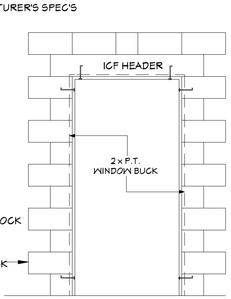
BEAM HANGER DETAIL
SIMPSON MBHU3.56/11.25KT



ATTACH WINDOW & DOOR FRAMES TO
ICF WALL PER MANUFACTURER'S SPEC'S



WINDOW BUCKSTRIP DETAIL
NOT TO SCALE



DOOR BUCKSTRIP DETAIL
NOT TO SCALE

NOTE:
WINDOWS & DOORS MUST BE INSTALLED SUCH THAT THE MAXIMUM GAP INBETWEEN THE FRAME AND BUCKSTRIP IS 1/4"; IF THICKER BUCKSTRIP MATERIAL IS NEEDED RIP IT FROM 1 1/2" MATERIAL & ATTACH TO BLOCK WITH 3/16" TAPCONS AT 8" O.C. (TAPCON MUST PENETRATE CONCRETE 1 1/4" MINIMUM)

SEAL:
FE #22150
Wednesday, October 7, 2020

ENGINEER OF RECORD:
WILLIAM F. STUHRKE, PHD, P.E.
12215 Rebecca's Run Dr.
Winter Garden, FL 34787
407-420-3119
State of Florida PE #22150

PROJECT:
STEVE COOK
210 Woodstork Way
Frostproof, FL. 33843

Square Footage
975 Living
324 Garage
176 F. Porch
1,375 Total

CONTRACTOR:
STEWART CONSTRUCTION
1500 Sebring Parkway
Sebring, FL. 33870
(863) 385-0403

BUILDING DESIGNS BY MARSHALL & MARINE
6406 US Hwy 27 S.
Sebring, FL. 33876
(863) 471-1525
www.needplans.com
MEMBER: AMERICAN INSTITUTE OF BUILDING DESIGNS

Structural Plans only prepared by or under the strict supervision of Professional Structural Engineer. Structural Engineer is not responsible for any dimensional errors, drafting discrepancies, or any non-structural information

To the best of Designers knowledge these plans are drawn to comply with owner's and /or builders's specifications. Any changes made on them after prints are made will be done at the owner's and/or builder's expense and responsibility. The contractor shall verify all dimensions on drawings. Designer or Structural Engineer are not liable for errors once construction has begun.

While every effort has been made in the preparation of this plan to avoid mistakes, the maker can not guarantee against human error. The Homeowner and or Contractor of the job must check all dimensions and other details prior to construction and be solely responsible thereafter.

START DATE:
08/31/2020 TA
REVISIONS:

FINAL DATE:
10/1/2020 HV

PROJECT #: 20-313

SHEET:
S4.00