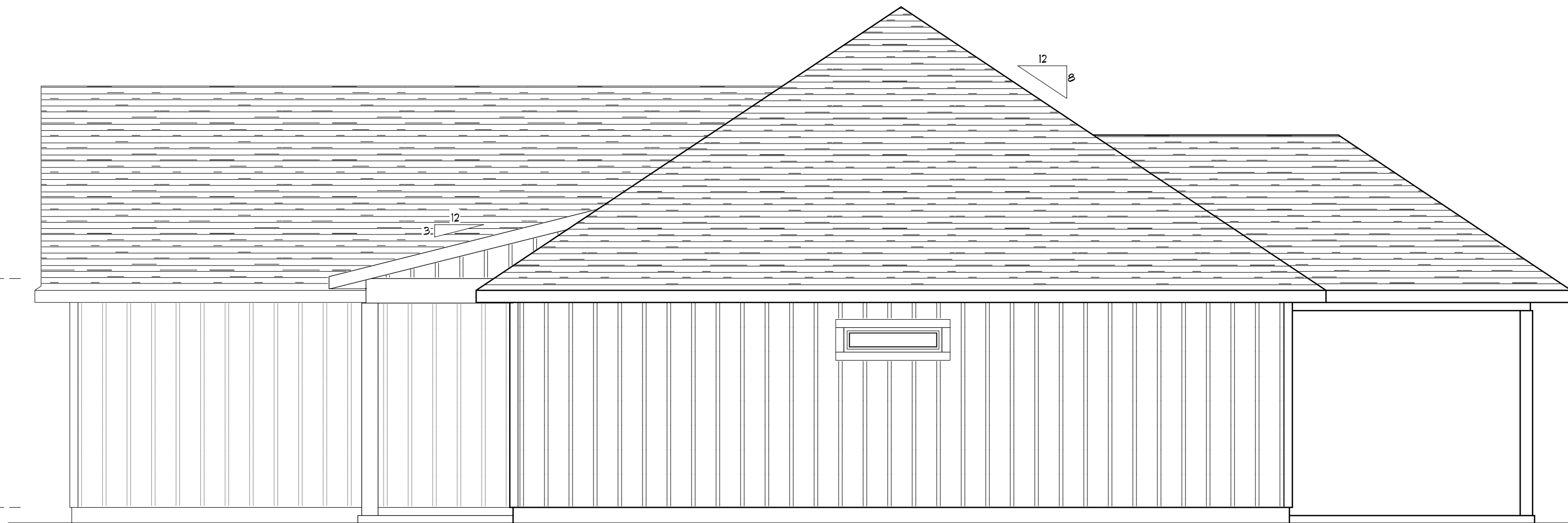


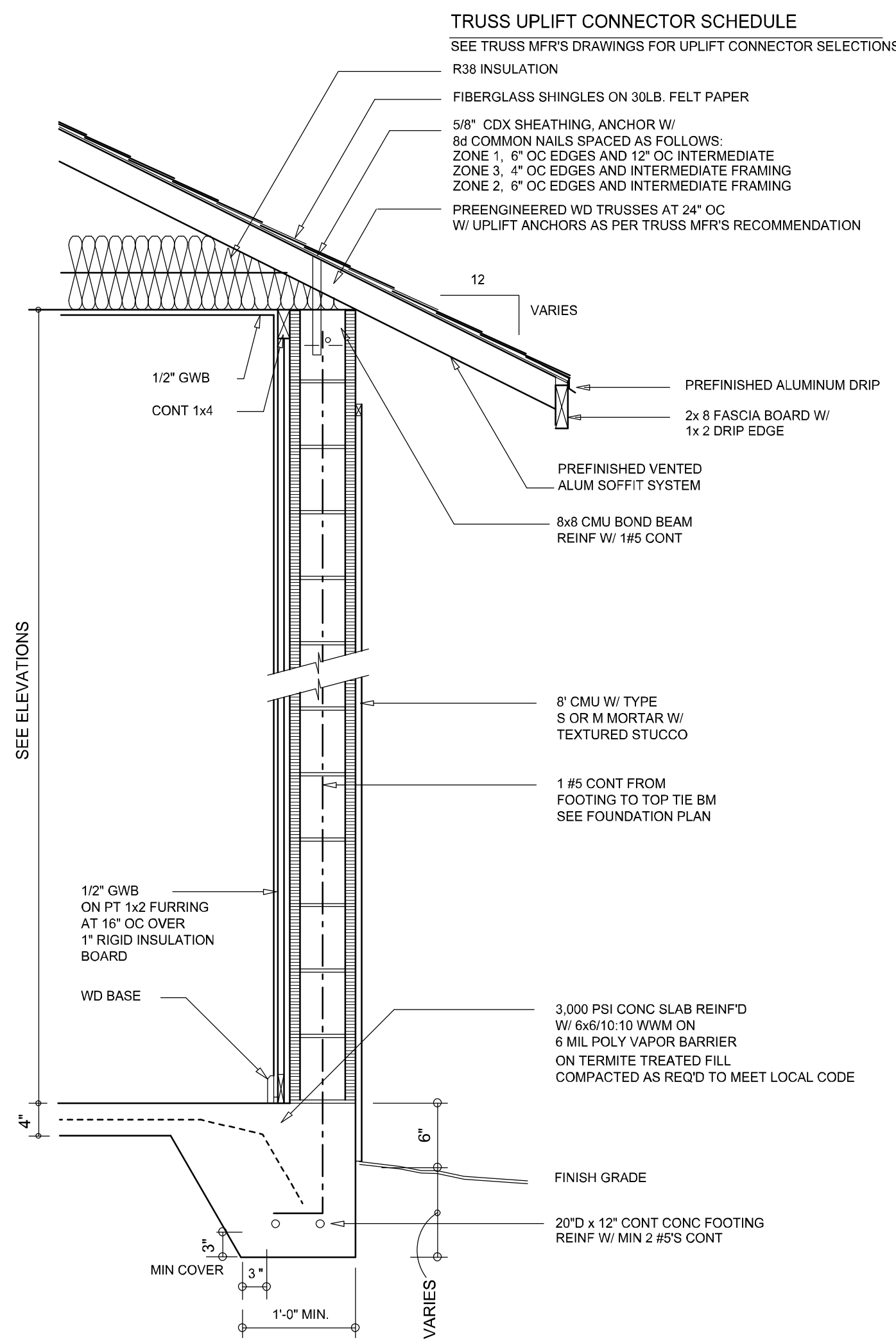
LEFT ELEVATION

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



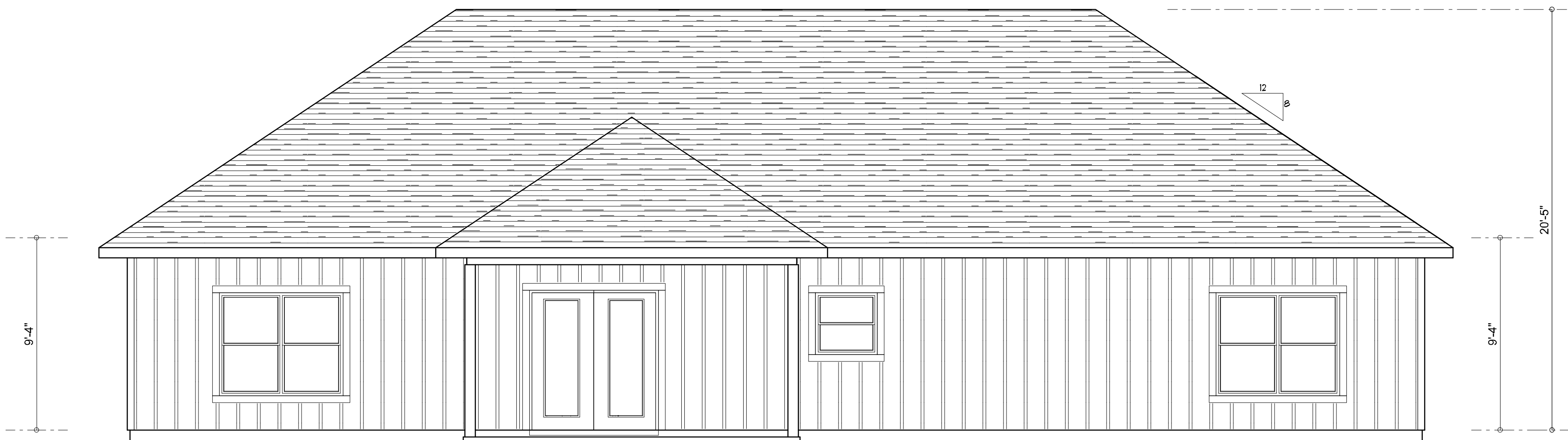
RIGHT ELEVATION

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



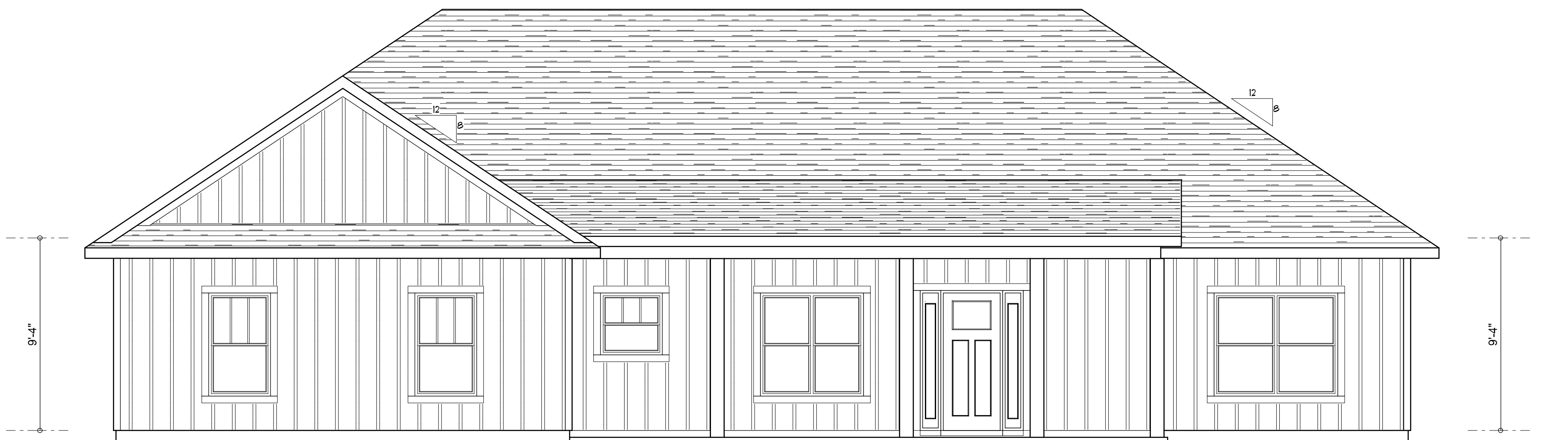
TYPICAL WALL SECTION

SCALE: 3/4" = 1'-0"



REAR ELEVATION

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



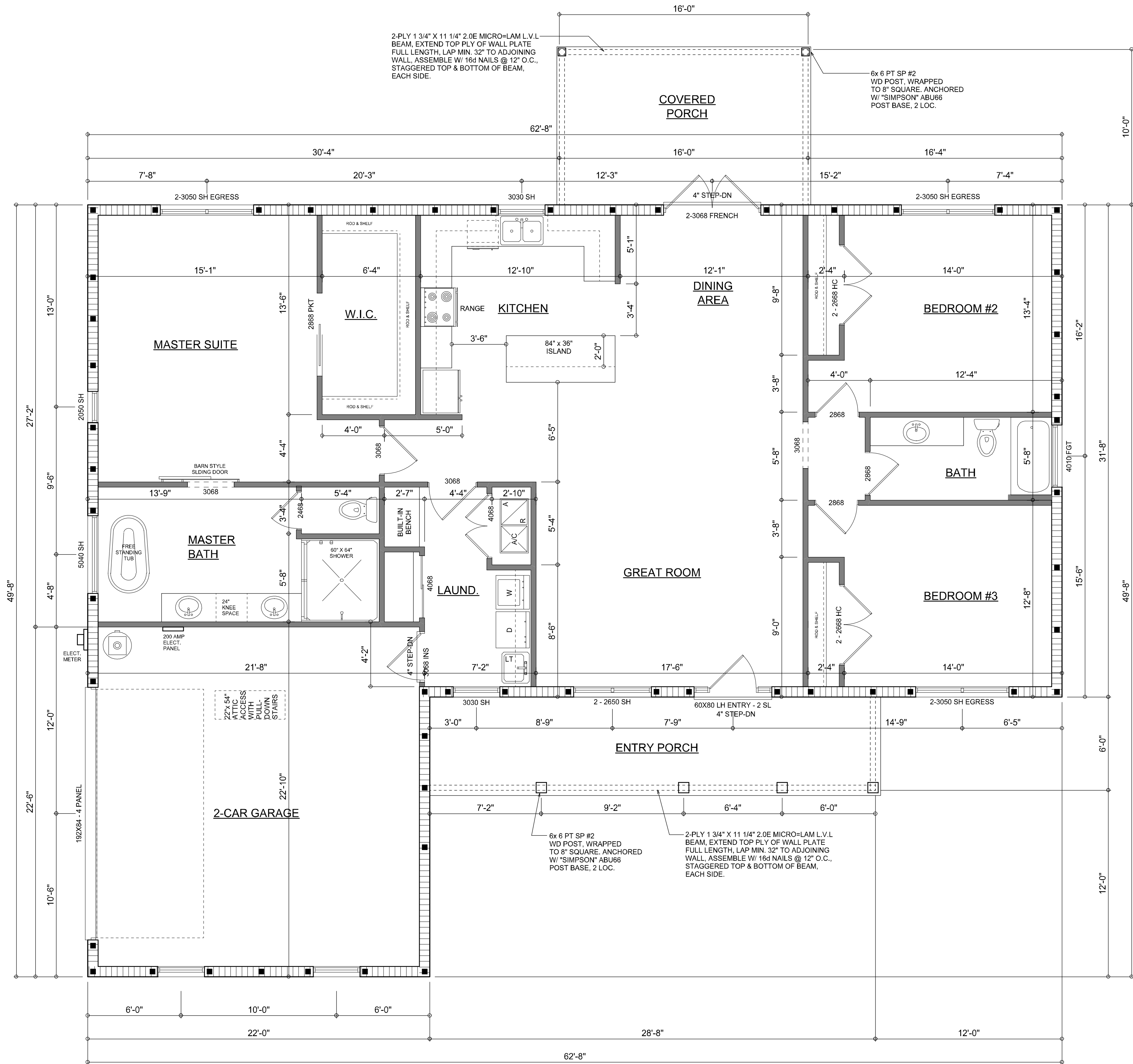
FRONT ELEVATION

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

NOTE: ALL DRAWINGS NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS

REVISIONS	October 19, 2022	December 20, 2022
SOTPIAN ARCHITECTURAL DESIGN SOFTWARE		
EXTERIOR ELEVATIONS SCALE: 1/4" = 1'-0"		
TYPICAL WALL SECTION SCALE: 3/4" = 1'-0"		
A HOME DESIGN FOR: PETER & ANNA LEV PROJECT ADDRESS: 125 SW MILKWEED CT, LAKE CITY, FLORIDA 32025		
© WM DESIGN & ASSOCIATES, INC. 426 SW COMMERCE DR. STE 130 LAKE CITY, FL 32025 (386) 758-8406 will@willmyers.net		
JOB NUMBER 20221011		
SHEET NUMBER A.1		

Will C. Myers



DIMENSIONED FLOOR PLAN

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

NOTE: ALL CEILING HEIGHTS SHALL BE 9'-4" UNLESS OTHERWISE NOTED.

Garage fire separations shall comply with the following:

1. The private garage shall be separated from the dwelling unit and its attic area by means of a minimum 1/2-inch (12.7 mm) gypsum board applied to the garage side. Garages beneath habitable rooms shall be separated from all habitable rooms above by not less than 5/8-inch Type X gypsum board or equivalent. Door openings between a private garage and the dwelling unit shall be equipped with either solid wood doors, or solid or honeycomb core steel doors not less than 13/8 inches (34.9 mm) thick, or doors in compliance with Section 715.3.3. Openings from a private garage directly into a room used for sleeping purposes shall not be permitted.
2. Ducts in a private garage and ducts penetrating the walls or ceilings separating the dwelling unit from the garage shall be constructed of a minimum 0.019-inch (0.48 mm) sheet steel and shall have no openings into the garage.
3. A separation is not required between a Group R-3 and U carport provided the carport is entirely open on two or more sides and there are not enclosed areas above.
4. When installing an attic access and/or pull-down stair unit in the garage, devise shall have a minimum 20 min. fire rating.

AREA SUMMARY

LIVING AREA	1,888	S.F.
GARAGE AREA	492	S.F.
ENTRY PORCH AREA	172	S.F.
REAR PORCH AREA	160	S.F.
TOTAL AREA	2,712	S.F.

Will C. Myers

NOTE: ALL DRAWINGS NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS

REVISIONS

October 19, 2022	
December 20, 2022	

SOTPLAN
ARCHITECTURAL DESIGN SOFTWARE

DIMENSIONED FLOOR PLAN
SCALE: 1/4" = 1'-0"

A HOME DESIGN FOR:

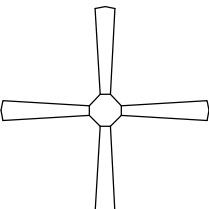














PETER & ANNA LEV

PROJECT ADDRESS: 125 SW MILKWEED CT, LAKE CITY, FLORIDA 32025

© WM DESIGN & ASSOCIATES, INC.
426 SW COMMERCE DR. STE 130
LAKE CITY, FL 32025
(386) 758-8406
will@willmyers.net

JOB NUMBER
20221011

SHEET NUMBER
A.2

ELECTRICAL LEGEND	
	CEILING FAN (PRE-WIRE FOR LIGHT KIT)
	DOUBLE SECURITY LIGHT
	RECESSED CAN LIGHT
	BATH EXHAUST FAN
	LIGHT FIXTURE
	DUPLEX OUTLET (AFCI & TAMPER RESISTANT)
	220v OUTLET
	GFI DUPLEX OUTLET (PER NEC 406.8)
	TELEVISION JACK
	CIRCUIT FOR MINI-SPLIT A/C UNIT
	SMOKE / CARBON MONOXIDE DETECTOR (see note below)
	WALL SWITCH
	3 WAY WALL SWITCH
	WATER PROOF GFI OUTLET
	48" FLOUR 2 OR 4 TUB FLUORESCENT FIXTURE

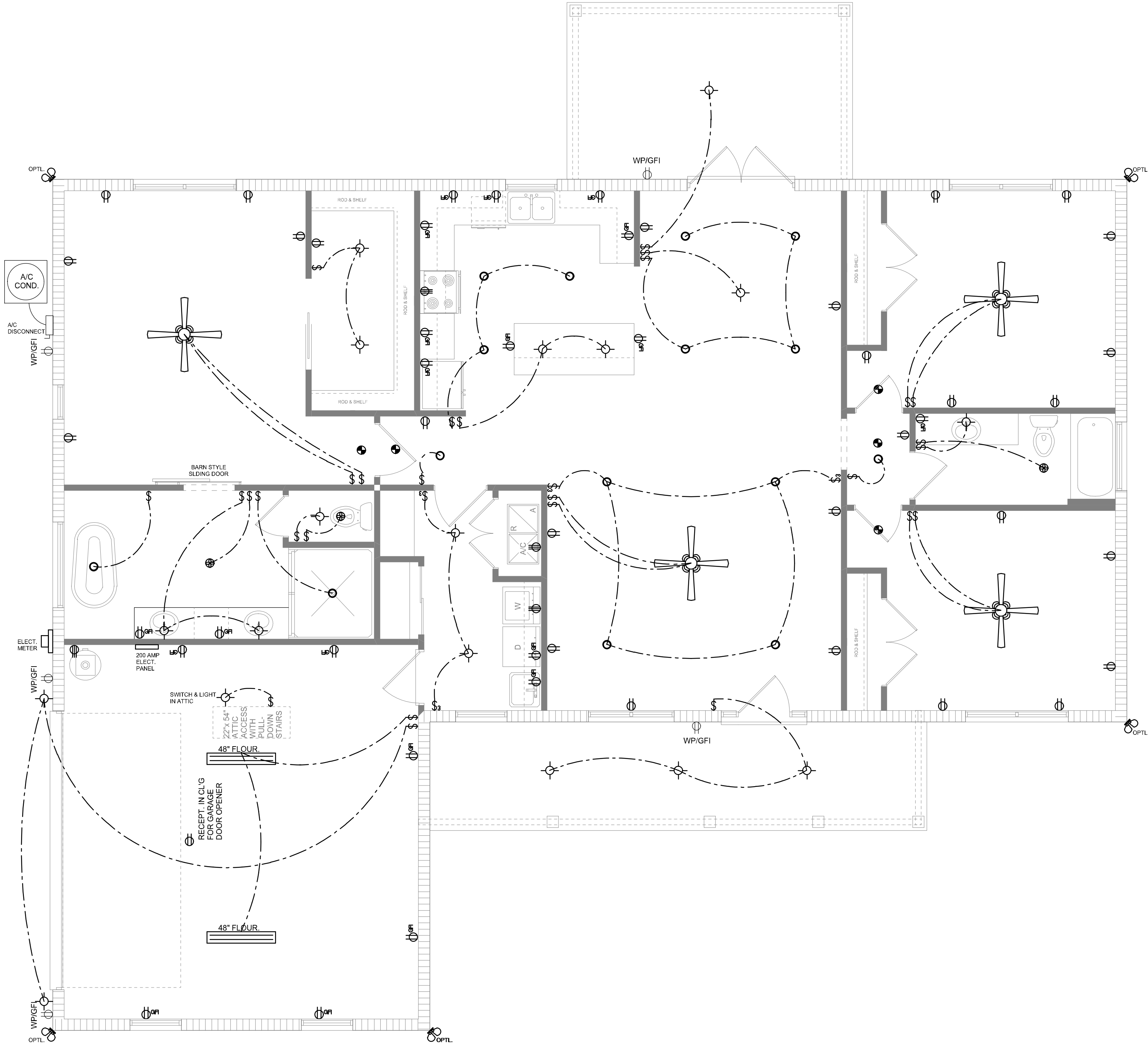
NOTE:
ALL INTERIOR RECEPTACLES SHALL BE AFCI
(ARC FAULT CIRCUIT INTERRUPT) PER NEC 210.12 & TAMPER RESISTANT PER
NEC 406.11

ALL INTERIOR & EXTERIOR LIGHTING SHALL MEET OR EXCEED THE MIN. 75% HIGH-EFFICIENCY
LIGHTING PER FBC-ENERGY CONSERVATION R404.

ALL SMOKE DETECTORS BE A COMBO SMOKE & CARBON MONOXIDE DETECTOR
AND SHALL HAVE BATTERY BACKUP POWER
AND ALL WIRED TOGETHER SO IF ANY ONE UNIT IS ACTUATED THEY
ALL ACTIVATE.

THE ELECTRICAL SERVICE OVERCURRENT PROTECTION DEVICE SHALL BE
INSTALLED ON THE EXTERIOR OF STRUCTURES TO SERVE AS A DISCONNECT MEANS.
CONDUCTORS USED FROM THE EXTERIOR DISCONNECTING MEANS TO A PANEL OR SUB
PANEL SHALL HAVE FOUR-WIRE CONDUCTORS, OF WHICH ONE CONDUCTOR
SHALL BE USED AS AN EQUIPMENT GROUND.

IT IS THE LICENSED ELECTRICAL CONTRACTORS RESPONSIBILITY TO INSURE THAT ALL
WORK PERFORMED AND EQUIPMENT INSTALLED MEETS OR EXCEEDS THE 2017 (NFPA-70) NATIONAL
ELECTRIC CODE AND ALL OTHER LOCAL CODES AND ORDINANCES.



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

NOTE: ALL DRAWINGS NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS

REVISIONS

October 19, 2022
December 20, 2022

SOTPLAN

ARCHITECTURAL DESIGN SOFTWARE

ELECTRICAL PLAN

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


A HOME DESIGN FOR:

PETER & ANNA LEV

PROJECT ADDRESS: 125 SW MILKWEED CT, LAKE CITY, FLORIDA 32025

© WM DESIGN & ASSOCIATES, INC.

426 SW COMMERCE DR. STE 130
LAKE CITY, FL 32025
(386) 758-8406
will@willmyers.net



JOB NUMBER

20221011

SHEET NUMBER

A.3

Will Myers

Project Name: 125 Milkweed Ct Street: 125 Milkweed Ct City, State, Zip: Lake City, FL, 32025 Owner: Peter & Anna Lev Design Location: FL, Gainesville	Builder Name: Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia(Florida Climate Zone 2)
--	---

1. New construction or existing New (From Plans) 2. Single family or multiple family Detached 3. Number of units, if multiple family 1 4. Number of Bedrooms 3 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 1888 Conditioned floor area below grade (ft²) 0 7. Windows(220.3 sqft.) Description Area a. U-Factor: Dbl, U=0.36 220.33 ft² SHGC: SHGC=0.25 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 2.789 ft Area Weighted Average SHGC: 0.250 8. Skylights Description Area U-Factor:(AVG) N/A N/A ft² SHGC(AVG): N/A 9. Floor Types Insulation Area a. Slab-On-Grade Edge Insulation R= 0.0 1888.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(1757.8 sqft.) Insulation Area a. Concrete Block - Int Insul, Exterior R=5.0 1513.60 ft² b. Frame - Wood, Adjacent R=13.0 244.22 ft² c. N/A d. N/A 11. Ceiling Types(1982.0 sqft.) Insulation Area a. Flat ceiling under att (Vented) R=38.0 1982.00 ft² b. N/A c. N/A 12. Roof(Comp. Shingles, Vented) Deck R=0.0 2269 ft² 13. Ducts, location & insulation level R ft² a. Sup: Attic, Ret: Attic, AH: Main 6 472 b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 21.2 SEER:14.00 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 30.0 HSPF:8.20 16. Hot Water Systems a. Electric Cap: 50 gallons EF: 0.920 b. Conservation features None CV, Pstat 17. Credits
--	---

Glass/Floor Area:0.117	Total Proposed Modified Loads: 48.25	PASS
	Total Baseline Loads: 49.66	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: _____ DATE: _____ 12 / 20 / 2022 I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: _____ DATE: _____	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: _____
---	---

- 12/20/2022 12:53:25 PM EnergyGauge® USA 7.0.00 - FlaRes2020 FBC 7th Edition (2020) Compliant Software Page 1

INPUT SUMMARY CHECKLIST REPORT

PROJECT													
Title:	125 Milkweed Ct			Bedrooms:	3		Address type:	Street Address					
Building Type:	User			Conditioned Area:	1888		Lot #:	---					
Owner:	Peter & Anna Lev			Total Stories:	1		Block/SubDivision:	---					
Builder Name:				Worst Case:	No		PlatBook:	---					
Permit Office:	Columbia County			Rotate Angle:	0		Street:	125 Milkweed Ct					
Jurisdiction:				Cross Ventilation:	Yes		County:	Columbia					
Family Type:	Detached			Whole House Fan:	No		City, State, Zip:	Lake City, FL, 32025					
New/Existing:	New (From Plans)			Terrain:	Suburban								
Year Construct:	2022			Shielding:	Suburban								
Comment:													
CLIMATE													
✓ Design Location	Tmy Site			Design Temp		Int Design Temp		Heating		Design		Daily temp	
				97.5%	2.5%	Winter	Summer	Degree Days	Moisture	Range			
___ FL, Gainesville	FL_GAINESVILLE_REGIONA			32	92	70	75	1305.5	51	Medium			
BLOCKS													
✓ Number	Name	Area	Volume										
___ 1	Block1	1888	17615 cu ft										
SPACES													
✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated				
___ 1	Main	1888	17615	Yes	6	3	Yes	Yes	Yes				
FLOORS (Total Exposed Area = 1888 sq.ft.)													
✓ #	Floor Type	Space	Exposed Perim	Perimeter R-Value	Area	U-Factor	Joist R-Value	Tile	Wood	Carpet			
___ 1	Slab-On-Grade Edge Ins	Main	188.67	0	1888 ft	0.304	---	0.00	0.00	1.00			
ROOF													
✓ #	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)	
___ 1	Hip	Composition shingles	2269 ft²	0 ft²	Light	Y	0.96	No	0.9	No	0	33.69	
ATTIC													
✓ #	Type	Ventilation	Vent Ratio (1 in)		Area	RBS	IRCC						
___ 1	Full attic	Vented	300		1888 ft²	Y	N						
CEILING (Total Exposed Area = 1982 sq.ft.)													
✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type					
___ 1	Flat ceiling under attic(Vented)	Main	38.0	Double Batt	1982.0ft²	0.024	0.11	Wood					

INPUT SUMMARY CHECKLIST REPORT

WALLS (Total Exposed Area = 1758 sq.ft.)																
✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade	
___ 1	S	Exterior	Conc. Blk - Int Ins	Main	5.0	12.0	0	9.0	4	112.0	0.132		0	0.75	0 %	
___ 2	S	Exterior	Conc. Blk - Int Ins	Main	5.0	28.0	8	9.0	4	267.6	0.132		0	0.75	0 %	
___ 3	E	Garage	Frame - Wood	Main	13.0	4.0	2	9.0	4	38.9	0.084		0.23	0.75	0 %	
___ 4	S	Garage	Frame - Wood	Main	13.0	22.0	0	9.0	4	205.3	0.084		0.23	0.75	0 %	
___ 5	E	Exterior	Conc. Blk - Int Ins	Main	5.0	27.0	2	9.0	4	253.6	0.132		0	0.75	0 %	
___ 6	N	Exterior	Conc. Blk - Int Ins	Main	5.0	62.0	8	9.0	4	584.9	0.132		0	0.75	0 %	
___ 7	W	Exterior	Conc. Blk - Int Ins	Main	5.0	31.0	8	9.0	4	295.6	0.132		0	0.75	0 %	

DOORS (Total Exposed Area = 40 sq.ft.)												
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area	
___ 1	S	Exterior	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²	
___ 2	E	Garage	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²	

WINDOWS (Total Exposed Area = 220 sq.ft.)																	
✓ #	Ornt	Wall ID	Frame	Panes	NFRC U-Factor	SHGC	Imp	Storm	Total Area (ft²)	Same Units	Width (ft)	Height (ft)	--Overhang-- Depth (ft)	Sep. (ft)	Interior Shade	Screen	
___ 1	S	1	Vinyl	Low-E Double	Y	0.36	0.25	N	N	30.0	2	3.00	5.00	1.5	1.0	None	None
___ 2	S	2	TIM	Low-E Double	Y	0.36	0.25	N	N	13.3	2	1.00	6.67	7.5	1.0	None	None
___ 3	S	2	Vinyl	Low-E Double	Y	0.36	0.25	N	N	25.0	2	2.50	5.00	7.5	1.0	None	None
___ 4	S	2	Vinyl	Low-E Double	Y	0.36	0.25	N	N	9.0	1	3.00	3.00	7.5	1.0	None	None
___ 5	E	5	Vinyl	Low-E Double	Y	0.36	0.25	N	N	10.0	1	2.00	5.00	1.5	1.0	None	None
___ 6	N	6	Vinyl	Low-E Double	Y	0.36	0.25	N	N	60.0	4	3.00	5.00	1.5	1.0	None	None
___ 7	E	5	Vinyl	Low-E Double	Y	0.36	0.25	N	N	20.0	1	5.00	4.00	1.5	1.0	None	None
___ 8	N	6	Vinyl	Low-E Double	Y	0.36	0.25	N	N	9.0	1	3.00	3.00	1.5	1.0	None	None
___ 9	N	6	TIM	Low-E Double	Y	0.36	0.25	N	N	40.0	2	3.00	6.67	1.5	1.0	None	None
___ 10	W	7	Vinyl	Low-E Double	Y	0.36	0.25	N	N	4.0	1	4.00	1.00	1.5	1.0	None	None

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00030	1468	80.53	151.19	0.1042	5.0	All	17615 cu ft

GARAGE					
✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	491 ft²	491 ft²	58 ft	9 ft	1

MASS					
✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Main

INPUT SUMMARY CHECKLIST REPORT

HEATING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal Entry	HeatPump--- Power	Ducts Volt	Block Current
___ 1	Electric Heat Pump	None/Single		HSPF: 8.20	30.0		0.00	0.00	0.00 sys#1

COOLING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___ 1	Central Unit	None/Single		SEER:14.0	21.2	630	0.70	sys#1	1

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
___ 1	Electric	None	Garage	0.92 (0.92)	50.00 gal	40 gal	120 deg	Standard	None	12
	Recirculation System	Recirc Control Type	Loop length	Branch length	Pump power	DWHR	Facilities Connected	Equal Flow	DWHR Eff	Other Credits
___ 1	No		NA	NA	NA	No	NA	NA	NA	None

DUCTS

✓ Duct #	-----Supply----- Location	R-Value	Area	-----Return----- Location	R-Value	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat Cool
___ 1	Attic	6.0	472 ft²	Attic	6.0	94 ft²	Default Leakage	Main	(Default)	(Default)			1 1

TEMPERATURES

Programable Thermostat: Y					Ceiling Fans: N									
Cooling	[] Jan	[] Feb	[] Mar	[] Apr	[] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[] Oct	[] Nov	[] Dec		
Heating	[X] Jan	[X] Feb	[X] Mar	[] Apr	[] May	[] Jun	[] Jul	[] Aug	[] Sep	[] Oct	[X] Nov	[X] Dec		
Venting	[] Jan	[] Feb	[X] Mar	[X] Apr	[] May	[] Jun	[] Jul	[] Aug	[] Sep	[X] Oct	[X] Nov	[] Dec		
Thermostat Schedule: HERS 2006 Reference														
✓ Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12	
___ Cooling (WD)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78	
___ Cooling (WEH)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	
___ Heating (WD)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66	
___ Heating (WEH)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 97

The lower the EnergyPerformance Index, the more efficient the home.

125 Milkweed Ct,Lake City,FL,32025

1. New construction or existing	New (From Plans)	10. Wall Types(1757.8 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Concrete Block - Int Insul, Exterior	R=5.0	1513.60 ft ²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	244.22 ft ²
4. Number of Bedrooms	3	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	1888	11. Ceiling Types(1982.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=38.0	1982.00 ft ²
7. Windows**	Description	b. N/A		
a. U-Factor:	Dbl, U=0.36	c. N/A		
SHGC:	SHGC=0.25	12. Roof(Comp. Shingles, Vented) Deck	R=0.0	2269 ft ²
b. U-Factor:	N/A	13. Ducts, location & insulation level	R	ft ²
SHGC:		a. Sup: Attic, Ret: Attic, AH: Main	6	472
c. U-Factor:	N/A	b.		
SHGC:		c.		
Area Weighted Average Overhang Depth:	2.789 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.250	a. Central Unit	21.2	SEER:14.00
8. Skylights	Description	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	30.0	HSPF:8.20
SHGC(AVG):	N/A	16. Hot Water Systems		
9. Floor Types	Insulation	a. Electric		Cap: 50 gallons
a. Slab-On-Grade Edge Insulation	R= 0.0			EF: 0.920
b. N/A	R=			
c. N/A	R=	b. Conservation features		
		17. Credits		None
				CV, Pstat

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: 125 Milkweed Ct

City/FL Zip: Lake City,FL,32025



*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida Energy Rating. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

Envelope Leakage Test Report (Blower Door Test)

Residential Prescriptive, Performance or ERI Method Compliance

2020 Florida Building Code, Energy Conservation, 7th Edition

Jurisdiction:	Permit #:
Job Information	
Builder:	Community:
Address: 125 Milkweed Ct	
City: Lake City	State: FL
Lot: NA	
Zip: 32025	
Air Leakage Test Results <i>Passing results must meet either the Performance, Prescriptive, or ERI Method</i>	
<input type="radio"/> PRESCRIPTIVE METHOD -The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Climate Zones 1 and 2.	
<input checked="" type="radio"/> PERFORMANCE or ERI METHOD -The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on Form R405-2020 (Performance) or R406-2020 (ERI), section labeled as infiltration, sub-section ACH50. ACH(50) specified on Form R405-2020-Energy Calc (Performance) or R406-2020 (ERI): 5.000	
<div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 60%;"> $\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div \frac{17615}{\text{ACH}(50)} =$ <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="border: 1px solid black; width: 30px; height: 30px; margin-right: 10px;"></div> <div style="font-size: 24px; font-weight: bold;">PASS</div> </div> <div style="margin-top: 10px;"> <input type="checkbox"/> When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department. </div> </div> <div style="width: 35%;"> <p>Method for calculating building volume:</p> <div style="margin-bottom: 10px;"> <input type="radio"/> Retrieved from architectural plans </div> <div style="margin-bottom: 10px;"> <input checked="" type="radio"/> Code software calculated </div> <div> <input type="radio"/> Field measured and calculated </div> </div> </div>	
<p>R402.4.1.2 Testing. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or <i>(Florida Statutes)</i> or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the <i>code official</i>. Testing shall be performed at any time after creation of all penetrations of the <i>building thermal envelope</i>.</p> <p>During testing:</p> <ol style="list-style-type: none"> 1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures. 2. Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures. 3. Interior doors, if installed at the time of the test, shall be open. 4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed. 5. Heating and cooling systems, if installed at the time of the test, shall be turned off. 6. Supply and return registers, if installed at the time of the test, shall be fully open. 	
Testing Company	
<p>Company Name: _____ Phone: _____</p> <p>I hereby verify that the above Air Leakage results are in accordance with the 2020 7th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.</p> <p>Signature of Tester: _____ Date of Test: _____</p> <p>Printed Name of Tester: _____</p> <p>License/Certification #: _____ Issuing Authority: _____</p>	

Residential System Sizing Calculation

Summary

Peter & Anna Lev
125 Milkweed Ct
Lake City, FL 32025

Project Title:
125 Milkweed Ct

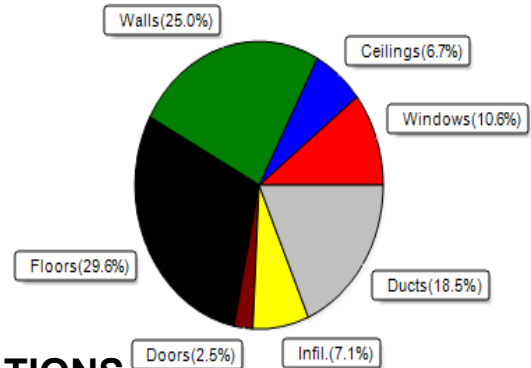
12/20/2022

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)			
Winter design temperature(TMY3 99%)	30 F	Summer design temperature(TMY3 99%)	94 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	40 F	Summer temperature difference	19 F
Total heating load calculation	30037 Btuh	Total cooling load calculation	21238 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	100.0 30037	Sensible (SHR = 0.70)	85.8 14867
Heat Pump + Auxiliary(0.0kW)	100.0 30037	Latent	162.5 6371
		Total (Electric Heat Pump)	100.0 21238

WINTER CALCULATIONS

Winter Heating Load (for 1888 sqft)

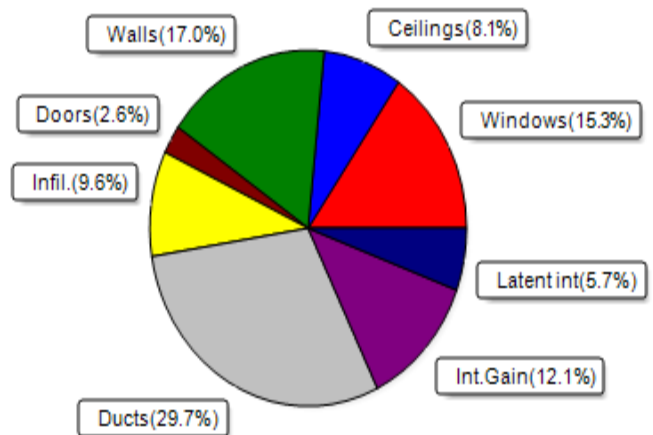
Load component		Load	
Window total	220 sqft	3173	Btuh
Wall total	1497 sqft	7496	Btuh
Door total	40 sqft	736	Btuh
Ceiling total	1982 sqft	2012	Btuh
Floor total	1888 sqft	8905	Btuh
Infiltration	49 cfm	2143	Btuh
Duct loss		5571	Btuh
Subtotal		30037	Btuh
Ventilation Ex:0 cfm; Sup:0 cfm		0	Btuh
TOTAL HEAT LOSS		30037	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1888 sqft)

Load component		Load	
Window total	220 sqft	3256	Btuh
Wall total	1497 sqft	3611	Btuh
Door total	40 sqft	552	Btuh
Ceiling total	1982 sqft	1710	Btuh
Floor total		0	Btuh
Infiltration	37 cfm	764	Btuh
Internal gain		2580	Btuh
Duct gain		4845	Btuh
Sens.Ventilation Ex:0 cfm; Sup:0 cfm		0	Btuh
Blower Load		0	Btuh
Total sensible gain		17318	Btuh
Latent gain(ducts)		1453	Btuh
Latent gain(infiltration)		1267	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1200	Btuh
Total latent gain		3920	Btuh
TOTAL HEAT GAIN		21238	Btuh



8th Edition

EnergyGauge® System Sizing

PREPARED BY: _____

DATE: 12 / 20 / 2022

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Peter & Anna Lev
125 Milkweed Ct
Lake City, FL 32025

Project Title:
125 Milkweed Ct
Building Type: User

12/20/2022

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 40.0 °F (TMY3 99%)
Winter Setpoint: 70 °F (Required Manual J default)

Component Loads for Whole House

Window	Panes/Type	Frame	U	Orientation	Area(sqft)	X	HTM=	Load
1	2, NFRC 0.25	Vinyl	0.36	S	30.0		14.4	432 Btuh
2	2, NFRC 0.25	TIM	0.36	S	13.3		14.4	192 Btuh
3	2, NFRC 0.25	Vinyl	0.36	S	25.0		14.4	360 Btuh
4	2, NFRC 0.25	Vinyl	0.36	S	9.0		14.4	130 Btuh
5	2, NFRC 0.25	Vinyl	0.36	E	10.0		14.4	144 Btuh
6	2, NFRC 0.25	Vinyl	0.36	N	60.0		14.4	864 Btuh
7	2, NFRC 0.25	Vinyl	0.36	E	20.0		14.4	288 Btuh
8	2, NFRC 0.25	Vinyl	0.36	N	9.0		14.4	130 Btuh
9	2, NFRC 0.25	TIM	0.36	N	40.0		14.4	576 Btuh
10	2, NFRC 0.25	Vinyl	0.36	W	4.0		14.4	58 Btuh
Window Total					220.3(sqft)			3173 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area	X	HTM=	Load
1	Conc Blk,Hollow - Ext		(0.132)	5.0/0.0	82		5.26	432 Btuh
2	Conc Blk,Hollow - Ext		(0.132)	5.0/0.0	200		5.26	1054 Btuh
3	Frame - Wood - Adj		(0.089)	13.0/0.0	19		3.55	67 Btuh
4	Frame - Wood - Adj		(0.089)	13.0/0.0	205		3.55	729 Btuh
5	Conc Blk,Hollow - Ext		(0.132)	5.0/0.0	224		5.26	1176 Btuh
6	Conc Blk,Hollow - Ext		(0.132)	5.0/0.0	476		5.26	2504 Btuh
7	Conc Blk,Hollow - Ext		(0.132)	5.0/0.0	292		5.26	1534 Btuh
Wall Total					1497(sqft)			7496 Btuh
Doors	Type	Storm	Ueff.		Area	X	HTM=	Load
1	Insulated - Exterior, n		(0.460)		20		18.4	368 Btuh
2	Insulated - Garage, n		(0.460)		20		18.4	368 Btuh
Door Total					40(sqft)			736Btuh
Ceilings	Type/Color/Surface		Ueff.	R-Value	Area	X	HTM=	Load
1	Flat ceil/L/Shing		(0.025)	38.0/0.0	1982		1.0	2012 Btuh
Ceiling Total					1982(sqft)			2012Btuh
Floors	Type		Ueff.	R-Value	Size	X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	188.7 ft(perim.)		47.2	8905 Btuh
Floor Total					1888 sqft			8905 Btuh
Envelope Subtotal:								22323 Btuh
Infiltration	Type	Wholehouse	ACH	Volume(cuft)	Wall Ratio	CFM=		Load
	Natural		0.17	17615	1.00	48.9		2143 Btuh
Duct load	Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.228)							5571 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Peter & Anna Lev
125 Milkweed Ct
Lake City, FL 32025

Project Title:
125 Milkweed Ct
Building Type: User

12/20/2022

All Zones	Sensible Subtotal All Zones	30037 Btuh
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WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sens. Heat Loss (Ex:0 cfm; Sup:0 cfm) Total Heat Loss	30037 Btuh 0 Btuh 30037 Btuh
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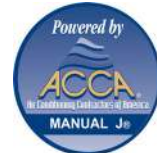
EQUIPMENT

1. Electric Heat Pump	#	30037 Btuh
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Key: Window types - NFRC (Requires U-Factor and Shading coefficient(SHGC) of glass as numerical values)
or - Glass as 'Clear' or 'Tint' (Uses U-Factor and SHGC defaults)

U - (Window U-Factor)

HTM - (ManualJ Heat Transfer Multiplier)



Version 8

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Peter & Anna Lev
125 Milkweed Ct
Lake City, FL 32025

Project Title:
125 Milkweed Ct

12/20/2022

Reference City: Gainesville, FL (Defaults)
Humidity difference: 51gr.

Temperature Difference: 19.0F(TMY3 99%)
Summer Setpoint: 75 °F (Required Manual J default)

Component Loads for Whole House

Window	Type*						Overhang		Window Area(sqft)			HTM		Load		
	Panes	SHGC	U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded			
1	2 NFRC	0.25, 0.36	No	No	S		1.5ft.	1.0ft.	30.0	30.0	0.0	12	14	363	Btuh	
2	2 NFRC	0.25, 0.36	No	No	S		7.5ft.	1.0ft.	13.3	13.3	0.0	12	14	161	Btuh	
3	2 NFRC	0.25, 0.36	No	No	S		7.5ft.	1.0ft.	25.0	25.0	0.0	12	14	302	Btuh	
4	2 NFRC	0.25, 0.36	No	No	S		7.5ft.	1.0ft.	9.0	9.0	0.0	12	14	109	Btuh	
5	2 NFRC	0.25, 0.36	No	No	E		1.5ft.	1.0ft.	10.0	0.5	9.5	12	31	300	Btuh	
6	2 NFRC	0.25, 0.36	No	No	N		1.5ft.	1.0ft.	60.0	0.0	60.0	12	12	726	Btuh	
7	2 NFRC	0.25, 0.36	No	No	E		1.5ft.	1.0ft.	20.0	1.2	18.8	12	31	596	Btuh	
8	2 NFRC	0.25, 0.36	No	No	N		1.5ft.	1.0ft.	9.0	0.0	9.0	12	12	109	Btuh	
9	2 NFRC	0.25, 0.36	No	No	N		1.5ft.	1.0ft.	40.0	0.0	40.0	12	12	484	Btuh	
10	2 NFRC	0.25, 0.36	No	No	W		1.5ft.	1.0ft.	4.0	1.0	3.0	12	31	105	Btuh	
	Window Total									220 (sqft)					3256 Btuh	
Walls	Type					U-Value	R-Value	Area(sqft)			HTM		Load			
							Cav/Sheath									
1	Concrete Blk,Hollow- Ext						0.13	5.0/0.0			82.0		2.5		208	Btuh
2	Concrete Blk,Hollow- Ext						0.13	5.0/0.0			200.2		2.5		508	Btuh
3	Frame - Wood - Adj						0.09	13.0/0.0			18.9		1.7		32	Btuh
4	Frame - Wood - Adj						0.09	13.0/0.0			205.3		1.7		346	Btuh
5	Concrete Blk,Hollow- Ext						0.13	5.0/0.0			223.6		2.5		568	Btuh
6	Concrete Blk,Hollow- Ext						0.13	5.0/0.0			475.9		2.5		1208	Btuh
7	Concrete Blk,Hollow- Ext						0.13	5.0/0.0			291.6		2.5		740	Btuh
	Wall Total									1497 (sqft)					3611 Btuh	
Doors	Type							Area (sqft)			HTM		Load			
1	Insulated - Exterior								20.0			13.8		276		Btuh
2	Insulated - Garage								20.0			13.8		276		Btuh
	Door Total									40 (sqft)					552 Btuh	
Ceilings	Type/Color/Surface					U-Value	R-Value	Area(sqft)			HTM		Load			
1	Vented Attic/Light/Shingle/RB						0.025	38.0/0.0			1982.0		0.86		1710	Btuh
	Ceiling Total									1982 (sqft)					1710 Btuh	
Floors	Type						R-Value	Size			HTM		Load			
1	Slab On Grade							0.0	1888 (ft-perimeter)			0.0		0		Btuh
	Floor Total									1888.0 (sqft)					0 Btuh	
	Envelope Subtotal:														9129 Btuh	
Infiltration	Type					Average ACH	Volume(cuft)		Wall Ratio		CFM=		Load			
	Natural						0.13	17615		1		36.7		764		Btuh
Internal gain							Occupants	Btuh/occupant		Appliance		Load				
							6	X 230		+		1200		2580		Btuh
	Sensible Envelope Load:														12473 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Peter & Anna Lev
125 Milkweed Ct
Lake City, FL 32025

Project Title:
125 Milkweed Ct

Climate:FL_GAINESVILLE_REGIONAL_A

12/20/2022

Duct load	Average sealed,Supply(R6.0-Attic), Return(R6.0-Attic)	(DGM of 0.388)	4845 Btuh
	Sensible Load All Zones		17318 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Peter & Anna Lev
125 Milkweed Ct
Lake City, FL 32025

Project Title:
125 Milkweed Ct

Climate:FL_GAINESVILLE_REGIONAL_A

12/20/2022

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	12473 Btuh
	Sensible Duct Load	4845 Btuh
	Total Sensible Zone Loads	17318 Btuh
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Blower	0 Btuh
	Total sensible gain	17318 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	1267 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	1453 Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	3920 Btuh
	TOTAL GAIN	21238 Btuh

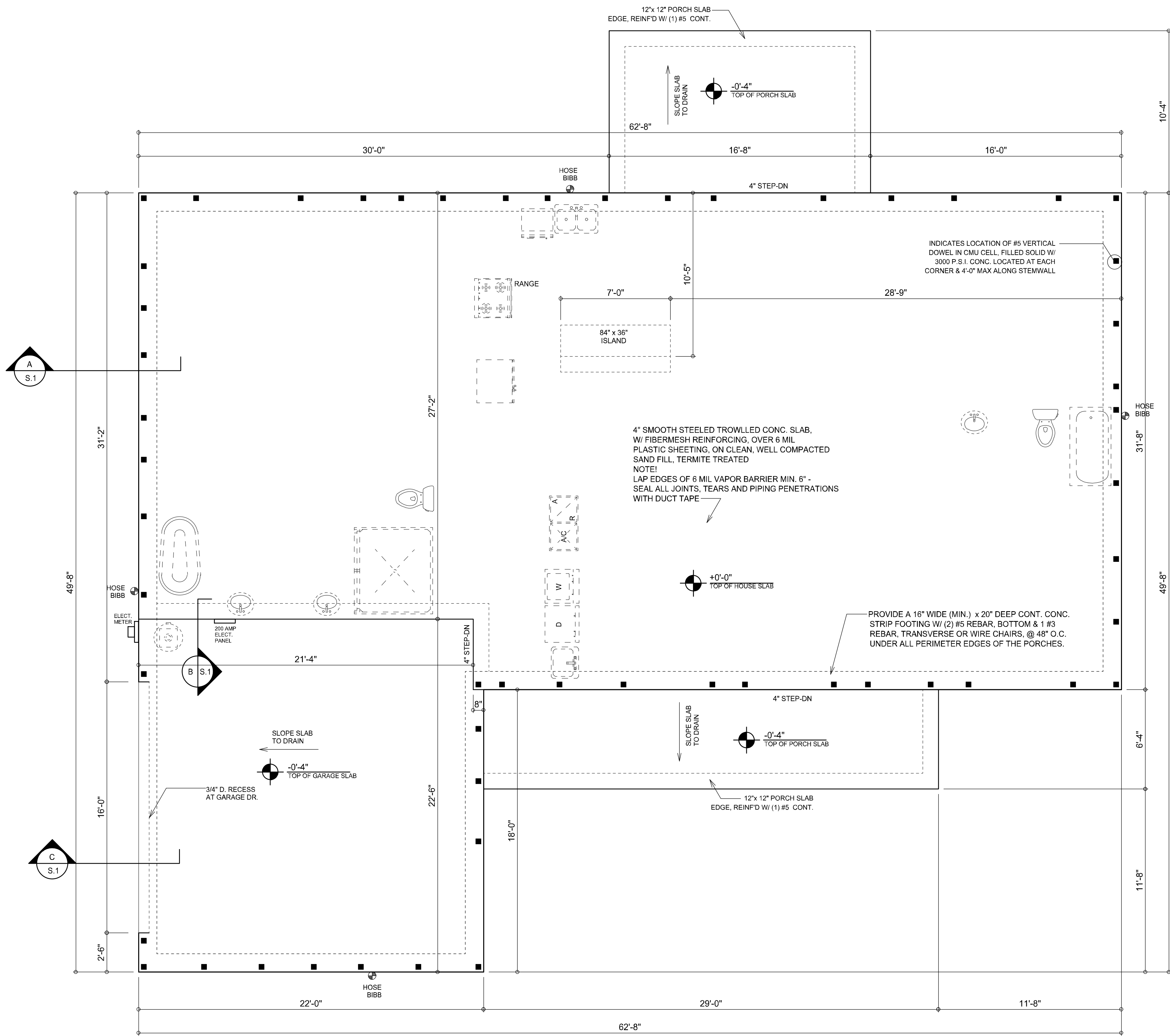
EQUIPMENT

1. Central Unit	#	21238 Btuh
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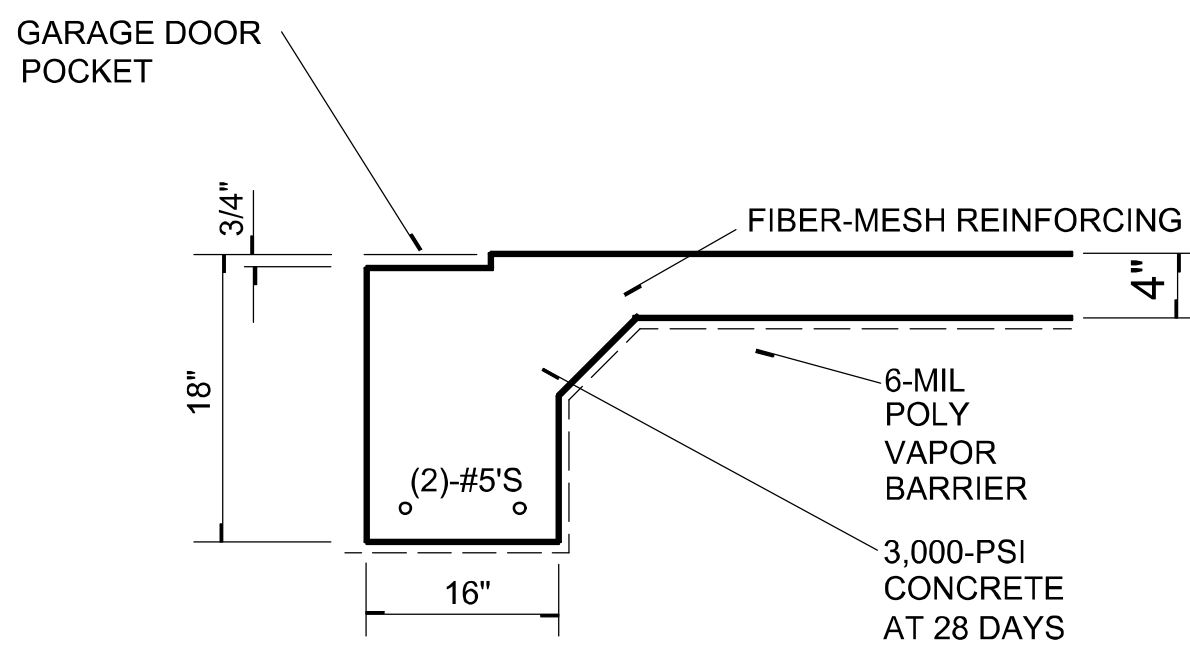
*Key: Window types (Panels - Number and type of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value)
(U - Window U-Factor)
(InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))
- For Blinds: Assume medium color, half closed
For Draperies: Assume medium weave, half closed
For Roller shades: Assume translucent, half closed
(IS - Insect screen: none(N), Full(F) or Half(½))
(Ornt - compass orientation)



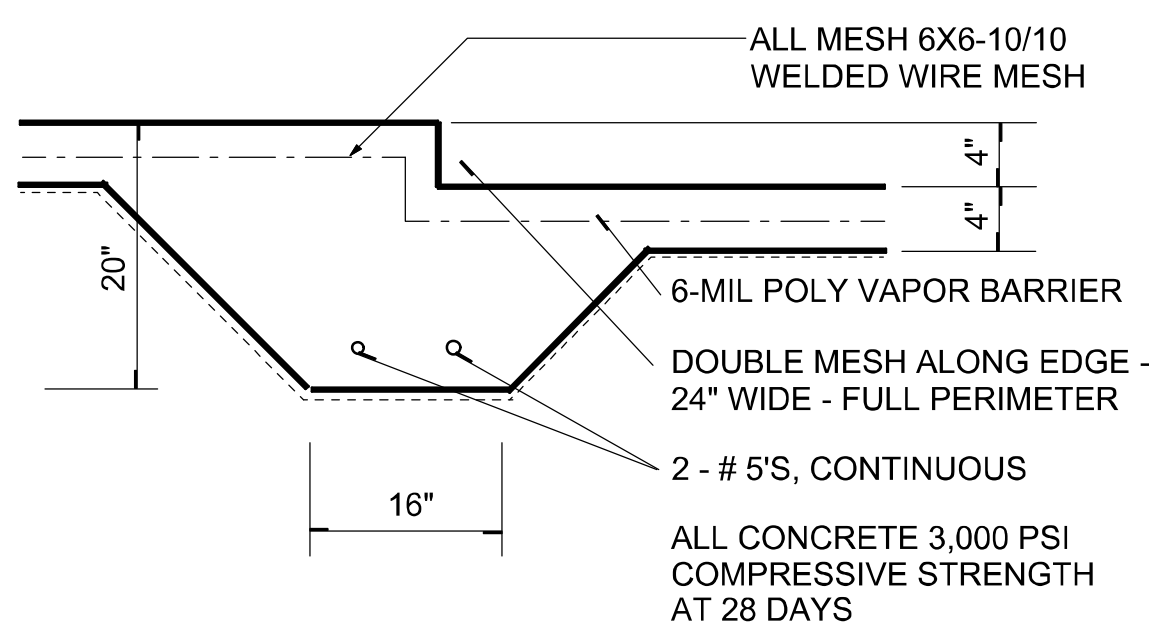
Version 8



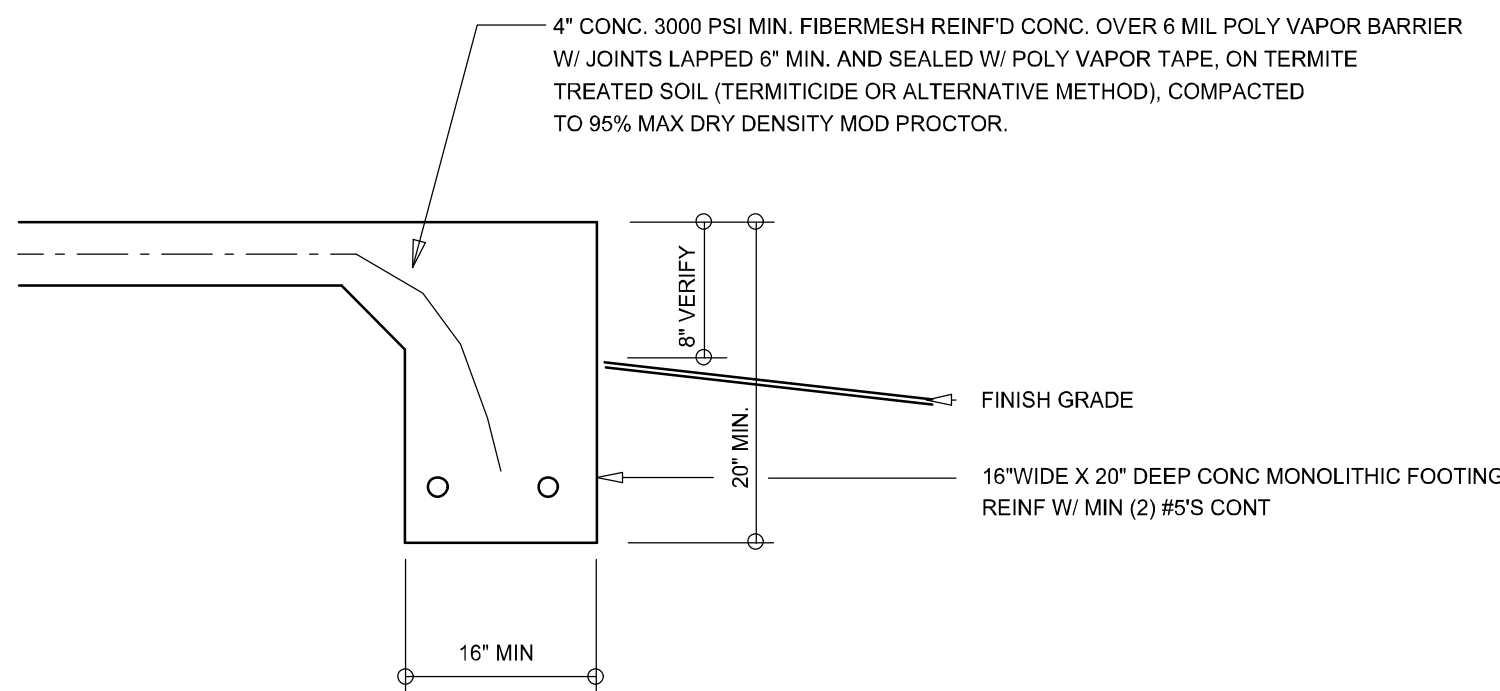
FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



SECTION C
SCALE: 3/4" = 1'-0"



SECTION B
SCALE: 3/4" = 1'-0"



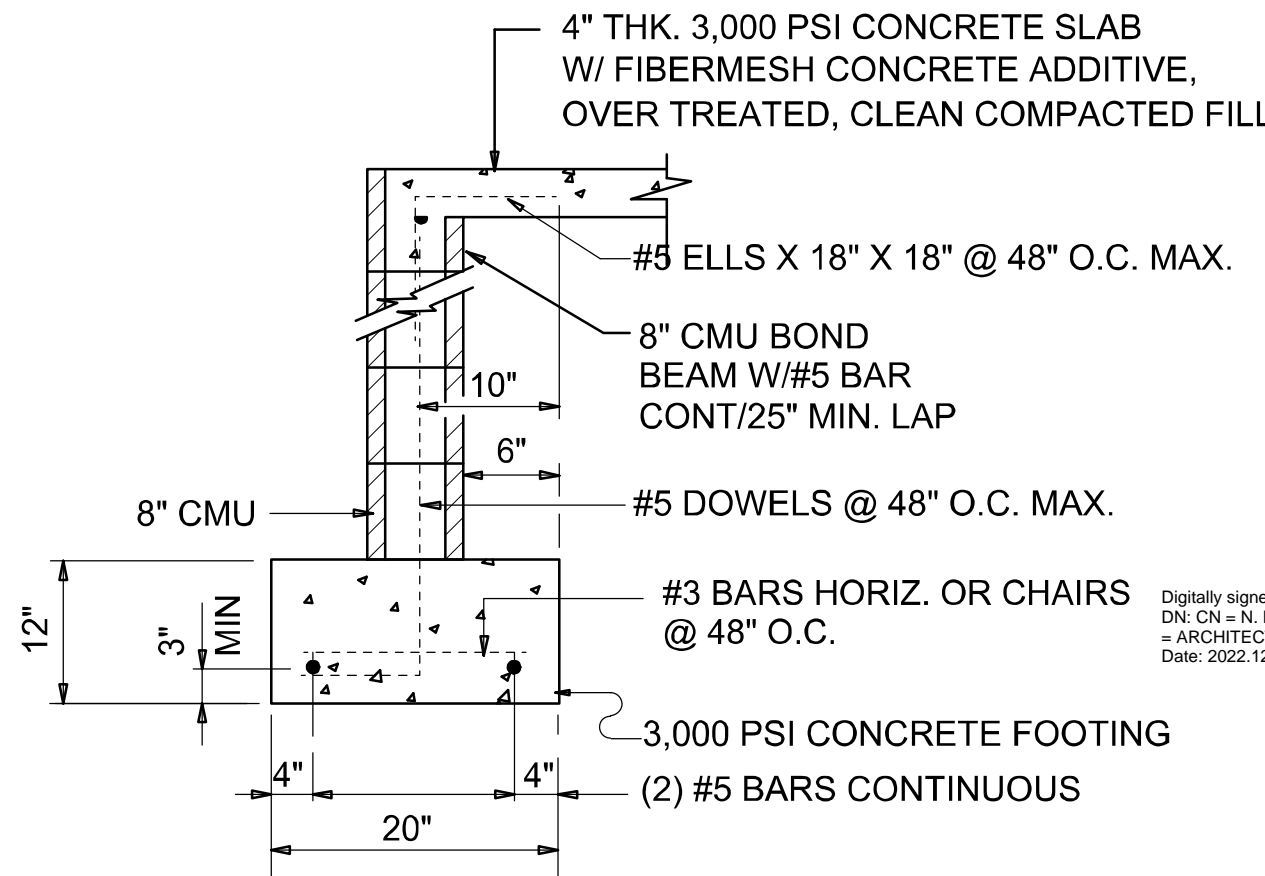
SECTION A
SCALE: 3/4" = 1'-0"

NOTE!
PRIOR TO THE CONSTRUCTION OF THE FOUNDATION, THE CONTRACTOR SHALL COORDINATE ANY INTERIOR BEARING LOCATION CONDITIONS PER THE TRUSS ENGINEERED SHOP DRAWINGS WITH THE FOUNDATION PLAN. ANY INTERIOR BEARING LOCATIONS OR ANY POINT LOADS OF 4.0 K OR GREATER SHALL BE SUPPORTED VIA A MODIFIED FOUNDATION PLAN TAKING THESE LOADS INTO CONSIDERATION. THE CONTRACTOR SHALL MAKE THE ENGINEERED TRUSS SHOP DRAWINGS AVAILABLE TO THE ARCHITECT FOR THE PURPOSE OF RENDERING SUCH MODIFICATIONS PRIOR TO POURING ANY CONCRETE.

INTERIOR BEARING WALLS:
IT IS THE BUILDING CONTRACTOR'S RESPONSIBILITY TO VERIFY WITH THE TRUSS ENGINEERING ANY AND ALL INTERIOR BEARING WALL LOCATIONS AND FURNISH THE ENGINEER OR ARCHITECT OF RECORD TRUSS INFO SO THICKENED FOOTINGS CAN BE SIZED AND LOCATED ON THE FOUNDATION PLAN.

CONCRETE / MASONRY / METALS GENERAL NOTES:

- DESIGN SOIL BEARING PRESSURE: 1000 PSF.
- EXPANSIVE SOILS: WHERE DIRECTED BY THE SOILS ENGINEER, SOIL AUGMENTATION PER THE SOILS ENGINEER'S SPECIFICATIONS SHALL BE IMPLEMENTED PRIOR TO PLACING ANY FOUNDATIONS - TESTS AS SPECIFIED SHALL BE PERFORMED TO DETERMINE THE SUITABILITY OF THE SUB-GRADE TO SUPPORT THE DESIGN LOADS.
- CLEAN SAND FILL OVER STRIPPED AND COMPACTED EXISTING GD. SHALL BE PLACED IN 12" LIFTS. BOTH SUB-SOIL AND FILL COMPACTION SHALL BE NOT LESS THAN 98% AS MEASURED BY A MODIFIED PROCTOR TEST AT THE RATE OF ONE TEST FOR EACH 1500 SF OF BUILDING PAD AREA, OR FRACTION THEREOF, FOR EACH 12" LIFT.
- REINFORCING STEEL SHALL BE GRADE 60 AND MEET THE REQUIREMENTS OF ASTM A615, ALL BENDS SHALL BE MADE COLD.
- WELDED WIRE MESH SLAB REINFORCING SHALL MEET THE REQUIREMENTS OF ASTM A185 - MIN. YIELD STRESS = 85 KSI.
- CONCRETE SHALL BE STANDARD MIX F_c = 3000 PSI FOR ALL FTGS, SLABS, COLUMNS AND BEAMS OR SHALL BE STANDARD PUMP MIX F_c = 3000 PSI. STRENGTH SHALL BE ATTAINED WITHIN 28 DAYS OF PLACEMENT. MIXING, PLACING AND FINISHING SHALL BE AS PER ACI STANDARDS.
- CONCRETE BLOCK SHALL BE AS PER MANUFACTURER'S PRODUCT GUIDE FOR ASTM C-90 REQUIREMENTS WITH MEDIUM SURFACE FINISH - F_m = 1500 PSI.
- MORTAR SHALL BE TYPE "M" OR "N" FOR ALL MASONRY UNITS.
- STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 STANDARDS FOR STRENGTH, BOLTS SHALL BE ASTM A307 / GRADE 1 OR A325, AS PER PLAN REQUIREMENTS.
- WELDS SHALL BE AS PER "AMERICAN WELDING SOCIETY" STANDARDS FOR STRUCTURAL STEEL APPLICATIONS.
- 2X4 P/T WOOD SILL, CONT., ALL AROUND, W/ 5/8" A.B. W/ 3" SQ. X 1/4" PLATE WASHERS WITHIN 6" FROM EACH CORNER, EA. WAY, & WITHIN 6" FROM ALL WALL OPENINGS / ENDS - 1/2" A.B. W/ 2" SQ. WASHERS ALONG EACH RUN @ 48" O.C., MAX. - ALL ANCHOR BOLTS SHALL HAVE A MINIMUM OF 8" EMBEDMENT INTO THE CONCRETE.



SECTION (optional) A
SCALE: 3/4" = 1'-0"

NOTE:
THE DESIGN WIND SPEED FOR THIS PROJECT IS 140 MPH PER 2020 FBC (7TH EDITION) AND LOCAL JURISDICTION REQUIREMENTS

NOTE:
ADDED FILL SHALL BE APPLIED IN 8" LIFTS - EA. LIFT SHALL BE COMPACTED TO 98% DRY COMPACTION PER THE "MODIFIED PROCTOR" METHOD.

NOTE:
PLUMBING CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP DRAWINGS INDICATING ALL PLUMBING WORK, INCLUDING ALL PLUMBING LINE LOCATIONS AND RISER DIAGRAM - CONTR' SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER AND 1 COPY TO THE PERMIT ISSUING AUTHORITY.

NOTE:
H.V.A.C. CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP DRAWINGS INDICATING ALL H.V.A.C. WORK, INCLUDING ALL DUCTWORK LOC., SIZES, LINES, EQUIPMENT SCH. & BALANCING REPORT - CONTR' SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.

REVISIONS	
October 20, 2022	
December 20, 2022	

ARCHITECTURAL DRAFTING SOFTWARE

A CUSTOM HOME FOR:

PETER & ANNA LEV

PROJECT ADDRESS: 125 SW MILKWEED CT, LAKE CITY, FLORIDA 32025

N. P. GEISLER

Digitally signed by N. P. GEISLER
DN: cn = N. P. GEISLER, c = US, o = AR0007005 OU = ARCHITECT
Date: 2022.12.21 13:55:30 -0500

AR0007005

NICHOLAS PAUL GEISLER
ARCHITECT
N.C.A.R.B. Certified (386) 365-4355

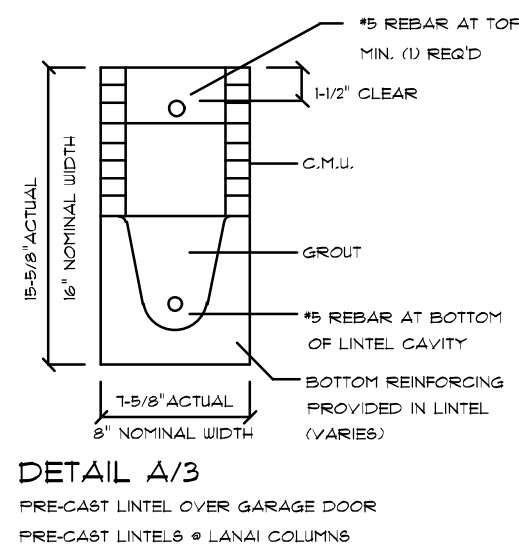
1758 NW Brown Rd.
Lake City, FL 32055

JOB NUMBER
20221011

SHEET NUMBER
S.1
OF 4 SHEETS

TYPE DESIGNATION

8'F16-1B/1T
 8" PRECAST & PRESTRESSED U-INTELS



MARK	LENGTH	TYPE	RUB	GRAVITY							
				8F8-CB	8F10-CB	8F12-CB	8F14-CB	8F16-CB	8F18-CB	8F20-CB	8F22-CB
L1	2'-10"	(34")	PRECAST	3302	3366	3433	3502	3573	3644	3715	3786
L2	3'-6"	(42")	PRECAST	3302	3366	3433	3502	3573	3644	3715	3786
L3	4'-0"	(48")	PRECAST	3028	3092	3156	3220	3284	3348	3412	3476
L4	4'-6"	(54")	PRECAST	1651	1715	1779	1843	1907	1971	2035	2099
L5	5'-4"	(64")	PRECAST	1884	1948	2012	2076	2140	2204	2268	2332
L6	5'-10"	(70")	PRECAST	972	1036	1100	1164	1228	1292	1356	1420
L7	6'-6"	(78")	PRECAST	931	995	1059	1123	1187	1251	1315	1379
L8	7'-6"	(90")	PRECAST	761	825	889	953	1017	1081	1145	1209
L9	8'-4"	(100")	PRECAST	573	637	701	765	829	893	957	1021
L10	10'-6"	(126")	PRECAST	456	520	584	648	712	776	840	904
L11	11'-4"	(136")	PRECAST	445	509	573	637	701	765	829	893
L12	12'-0"	(144")	PRECAST	414	478	542	606	670	734	798	862
L13	13'-4"	(160")	PRECAST	362	426	490	554	618	682	746	810
L14	14'-0"	(168")	PRECAST	338	402	466	530	594	658	722	786
L15	14'-8"	(176")	PRESTRESSED	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
L16	16'-4"	(196")	PRESTRESSED	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
L17	17'-4"	(208")	PRESTRESSED	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
L18	19'-4"	(232")	PRESTRESSED	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
L19	21'-4"	(256")	PRESTRESSED	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
L20	22'-0"	(264")	PRESTRESSED	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
L21	24'-0"	(288")	PRESTRESSED	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.

MARK	LENGTH	TYPE	RUB	GRAVITY							
				8R16	8R18	8R20	8R22	8R24	8R26	8R28	8R30
L22	4'-4"	(52")	PRECAST	1489	1553	1617	1681	1745	1809	1873	1937
L23	4'-6"	(54")	PRECAST	1351	1415	1479	1543	1607	1671	1735	1799
L24	5'-8"	(68")	PRECAST	785	849	913	977	1041	1105	1169	1233
L25	5'-10"	(70")	PRECAST	735	799	863	927	991	1055	1119	1183
L26	6'-8"	(80")	PRECAST	622	686	750	814	878	942	1006	1070
L27	7'-6"	(90")	PRECAST	665	729	793	857	921	985	1049	1113
L28	8'-8"	(104")	PRECAST	371	435	499	563	627	691	755	819

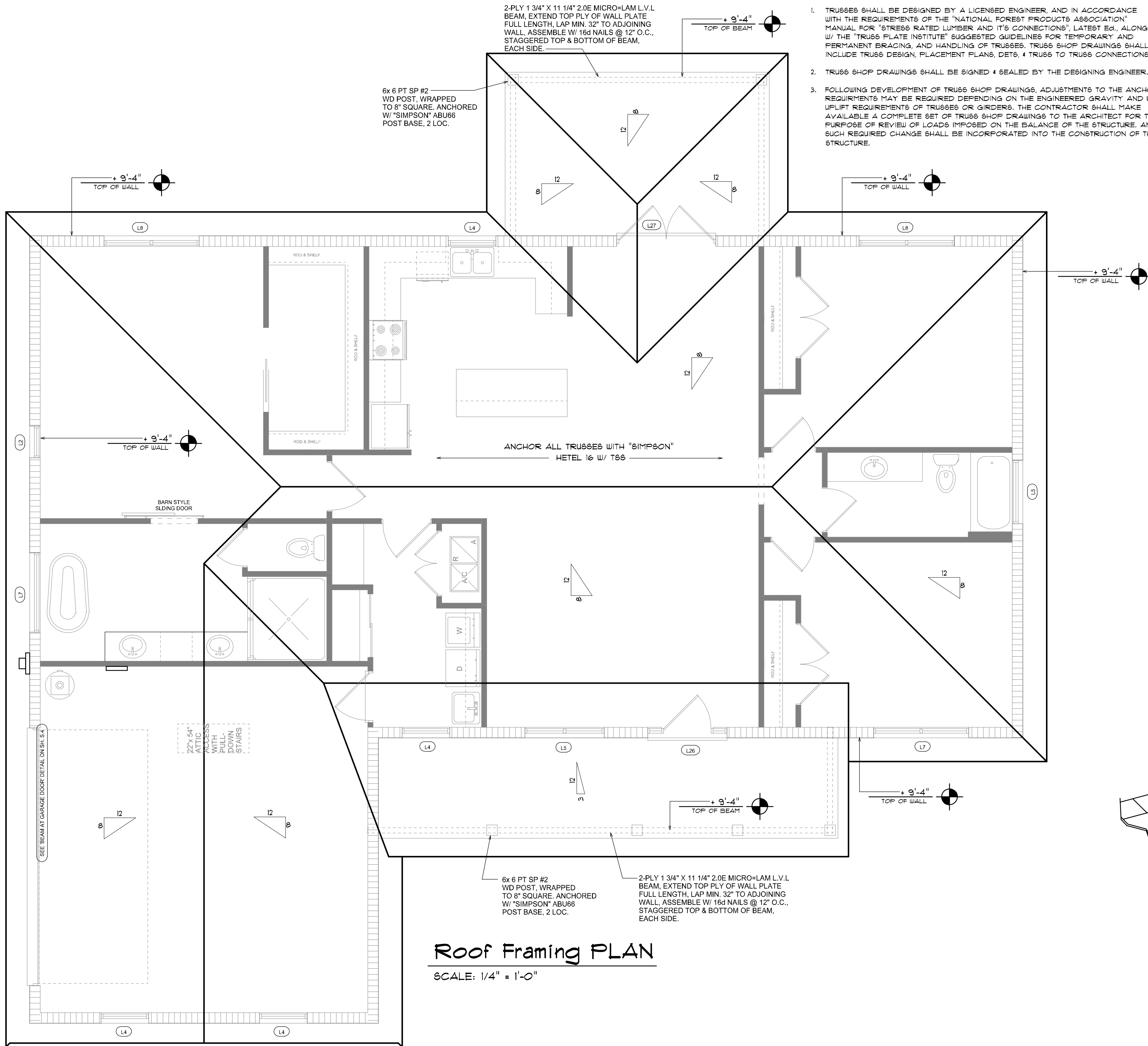
SHOP DUG COORDINATION: THE TRUSS ANCHOR STRAPS AS INDICATED IN THE CONSTRUCTION DOCUMENTS ARE SUGGESTED STRAPS AND THAT THE TRUSS ENGINEERED SHOP DRAWING LOADS TAKE PRECEDENCE OVER THAT INDICATED IN THE CONSTRUCTION DOCUMENTS. THE UPLIFT LOADS INDICATED FOR EACH TRUSS IN THE ENGINEERED TRUSS SHOP DRAWINGS MAY BE MATCHED TO STANDARD PRODUCT UPLIFT RATINGS FOR COMPARABLE UPLIFT CONNECTIONS, AND THAT THE PRODUCTS THAT PROVIDE EQUAL OR GREATER UPLIFT RESISTANCE FOR THE LISTED LOADS MAY BE USED IN LIEU OF THOSE INDICATED IN THE CONSTRUCTION DOCUMENTS OR AS APPROVED BY THE BUILDING OFFICIAL.

THE CONTRACTOR SHALL COORDINATE THE TRUSS TO TRUSS ANCHOR REQUIREMENTS WITH THE TRUSS ENGINEERING SHOP DRAWINGS. SOME OF THE TRUSS TO TRUSS CONNECTIONS WILL REQUIRE ANCHOR STRAPS IN ADDITION TO TYPICAL NAILING. ANCHOR DEVICES SHALL BE REQUIRED FOR ALL JOINTS WITH AN UPLIFT OR GRAVITY LOAD OF 100 LBS OR GREATER.

TRUSSES BEARING ON INTERIOR PARTITIONS WHERE UPLIFT LOADS ARE PRESENT SHALL REQUIRE ANCHORS OF EQUAL OR GREATER LOAD CAPACITY THAN THAT INDICATED BY THE TRUSS SHOP DRAWINGS. THE UPLIFT ANCHOR SYSTEM SHALL BE CONTINUOUS TO THE FOUNDATION.

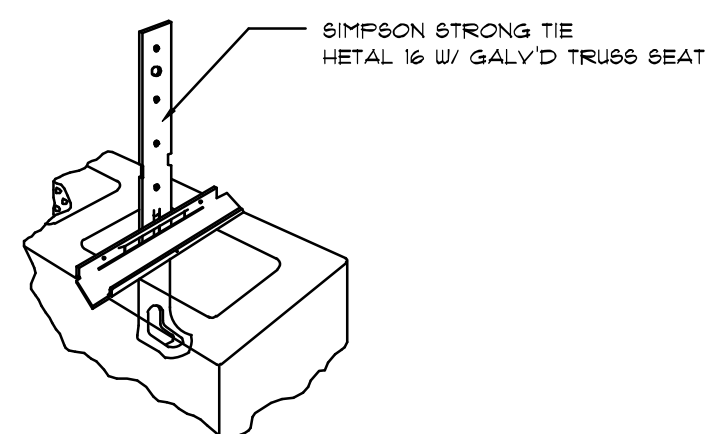
PROJECT COORDINATION REQUIREMENTS

NOTICE!
 THESE PLANS ARE DRAWN FOR AVERAGE SITE CONDITIONS AND COMPLIANCE WITH APPLICABLE CODES AT THE TIME THEY ARE DRAWN. DUE TO VARYING STATE, LOCAL, AND NATIONAL CODES RULES AND REGULATIONS, N.P. GEISLER, ARCHITECT CANNOT WARRANT COMPLIANCE WITH ALL APPLICABLE STATE, LOCAL, AND NATIONAL CODES IN YOUR AREA OR WITH YOUR PARTICULAR SITE CONDITIONS. IT IS THE RESPONSIBILITY OF THE PURCHASER AND/OR BUILDER TO SEE THAT THE STRUCTURE IS BUILT IN STRICT COMPLIANCE WITH ALL GOVERNING MUNICIPAL CODES (CITY, COUNTY, STATE, AND FEDERAL). IF YOUR CITY OR STATE REQUIRES AN ENGINEER'S SEAL FOR THE SITE/CIVIL PORTIONS OF THE WORK, YOU WILL NEED TO HAVE THAT DONE LOCALLY BY A QUALIFIED, LICENCED PROFESSIONAL ENGINEER.



Roof Framing PLAN

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



Truss Anchor DETAIL

SCALE: 1/2" = 1'-0"

NOTE!
 ALL PENETRATIONS OF THE TOP PLATE OF ALL LOAD BEARING WALLS SHALL BE SEALED WITH FIRE RETARDANT CAULKING, INCLUDING WIRING, PLUMBING OR OTHER SUCH PENETRATIONS. WALLS OVER 8'-0" TALL SHALL HAVE CONTINUOUS BLOCKING TO LIMIT CAVITY HEIGHT TO 8'-0". PENETRATIONS THROUGH SUCH BLOCKING SHALL BE TREATED IN THE SAME MANNER AS TOP PLATES, NOTED ABOVE

GENERAL TRUSS NOTES:

- TRUSSES SHALL BE DESIGNED BY A LICENSED ENGINEER, AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE "NATIONAL FOREST PRODUCTS ASSOCIATION" MANUAL FOR "STRESS RATED LUMBER AND ITS CONNECTIONS", LATEST EDITION, ALONG WITH THE TRUSS PLATE INSTITUTE'S SUGGESTED GUIDELINES FOR TEMPORARY AND PERMANENT BRACING, AND HANDLING OF TRUSSES. TRUSS SHOP DRAWINGS SHALL INCLUDE TRUSS DESIGN, PLACEMENT PLANS, DETAILS, AND TRUSS TO TRUSS CONNECTIONS.
- TRUSS SHOP DRAWINGS SHALL BE SIGNED & SEALED BY THE DESIGNING ENGINEER.
- FOLLOWING DEVELOPMENT OF TRUSS SHOP DRAWINGS, ADJUSTMENTS TO THE ANCHOR REQUIREMENTS MAY BE REQUIRED DEPENDING ON THE ENGINEERED GRAVITY AND WIND UPLIFT REQUIREMENTS OF TRUSSES OR GIRDERS. THE CONTRACTOR SHALL MAKE AVAILABLE A COMPLETE SET OF TRUSS SHOP DRAWINGS TO THE ARCHITECT FOR THE PURPOSE OF REVIEW OF LOADS IMPOSED ON THE BALANCE OF THE STRUCTURE. ANY SUCH REQUIRED CHANGE SHALL BE INCORPORATED INTO THE CONSTRUCTION OF THIS STRUCTURE.

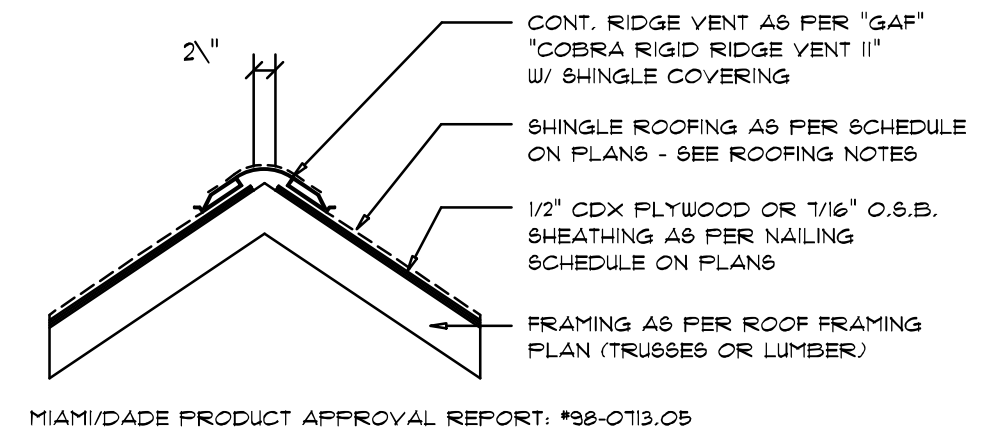
ROOF PLAN NOTES

- SEE EXTERIOR ELEVATIONS FOR ROOF PITCH
- ALL OVERHANG 18" UNLESS OTHERWISE NOTED
- PROVIDE ATTIC VENTILATION IN ACCORDANCE WITH SCHEDULE ON SD.3
- SEE EXTERIOR ELEVATIONS AND FLOOR PLANS TO VERIFY FLATE AND HEEL HEIGHTS
- MOVE ALL VENTS AND OTHER ROOF PENETRATIONS TO REAR

NOTE!
 SHEATH ROOF W/ 1/2" CDX PLYWOOD PLACED W/ LONG DIMENSION PERPENDICULAR TO THE ROOF TRUSSES, SECURE TO FRAMING W/ 8d NAILS - AS PER DETAIL ON SHEET SD.4

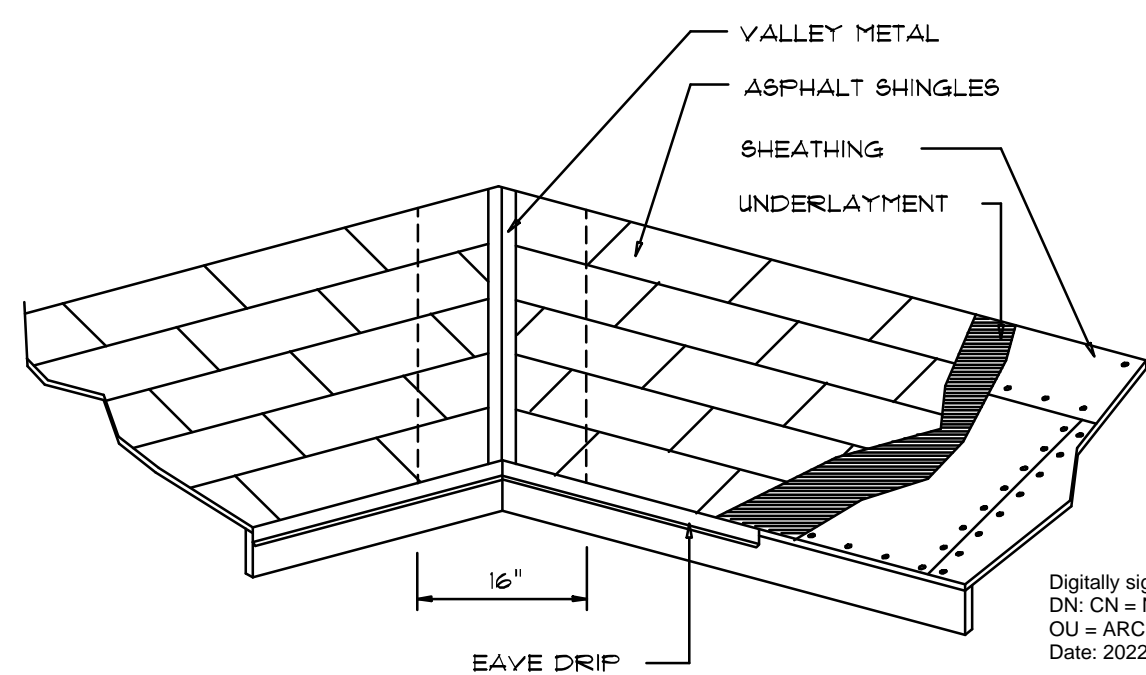
NOTE!
 THE DESIGN WIND SPEED FOR THIS PROJECT IS 130 MPH PER 2011 PER R301.2.1.1 AND LOCAL JURISDICTION REQUIREMENTS

AREA OF ATTIC	REQ'D L.F. OF VENT	NET FREE AREA OF INTAKE
1600 SF	20 LF	410 SQ.IN.
1800 SF	24 LF	490 SQ.IN.
2000 SF	28 LF	570 SQ.IN.
2500 SF	32 LF	650 SQ.IN.
2800 SF	36 LF	730 SQ.IN.
3100 SF	40 LF	810 SQ.IN.
3600 SF	44 LF	900 SQ.IN.



Ridge Vent DETAIL

SCALE: 3/4" = 1'-0"



VALLEY FLASHING

ROOFING METALS for FLASHING/ROOFING MINIMUM THICKNESS REQUIREMENTS			
MATERIAL	MINIMUM THICKNESS (in)	GAGE	WEIGHT (OZ.)
COPPER			16
ALUMINUM	0.024		
STAINLESS STEEL		28	
GALVANIZED STEEL	0.0179	26 (ZINC COATED G30)	
ZINC ALLOY LEAD PAINTED TERNE	0.021		40 20

REVISIONS
October 20, 2022
December 20, 2022

SOFTPLAN
ARCHITECTURAL DESIGN BY TRIAL

A CUSTOM HOME FOR:
PETER & ANNA LEV
PROJECT ADDRESS: 125 SW MILKWEED CT, LAKE CITY, FLORIDA 32025

N.P. GEISLER
ER
Digitally signed by N.P. GEISLER
DN: CN = N.P. GEISLER C = US O = AR0007005
OU = ARCHITECT
Date: 2022.12.20 16:56:57 -05'00'

NICHOLAS PAUL ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd.
Lake City, FL 32055
(386) 365-4355

JOB NUMBER
20221011

SHEET NUMBER
S.2
OF 4 SHEETS

NOTE: ALL DRAWINGS NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS

FLORIDA BUILDING CODE

Compliance Summary

TYPE OF CONSTRUCTION

Roof: Gable / Hip Construction, Wood Trusses @ 24" O.C.
Walls: 8" CMU W/ (1) #5 VERTICAL @ 48" O.C. MAX
Floor: 4" Thk. Concrete Slab W/ Fibermesh Concrete Additive
Foundation: Continuous monolithic footing or /Stem Wall foundation system

ROOF DECKING

Material: 1/2" CDX Plywood or 7/16" O.S.B.
Sheet Size: 48"x96" Sheets Perpendicular to Roof Framing
Fasteners: 8d Common Nails per schedule on sheet A.7

SHEARWALLS

Material: 8" CMU W/ (1) #5 VERTICAL @ 48" O.C. MAX AND BESIDE EACH OPENING

HURRICANE UPLIFT CONNECTORS

Truss Anchors: SIMPSON HETEL 16 W/ TSS
Truss Anchors (FRAME): SIMPSON H2.5A (OR EQUIVALENT), W/ 6 - 10d NAILS

Porch Column Base Connector:

Simpson ABU44/ABU66 @ each column

Porch Column to Beam Connector:

Simpson EPC44 or 66 /PC44 or 66 @ each column

FOOTINGS AND FOUNDATIONS

Footings: House walls: 20"D x 16"W Cont. W/ (2) #5 Bars Cont. on chairs or (1) #3 Transverse @ 24" O.C.
Optional Stemwall: 8" C.M.U. W/1-#5 Vertical Dowel @ 48" O.C.

STRUCTURAL DESIGN CRITERIA:

1. THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE 2020 FLORIDA BUILDING CODE (7TH EDITION) AND OTHER REFERENCED CODES AND SPECIFICATIONS. ALL CODES AND SPECIFICATIONS SHALL BE LATEST EDITION AT TIME OF PERMIT.

2. WIND LOAD CRITERIA: RISK CATAGORY: 2, EXPOSURE: "C"
BASED ON ANSI/ASCE 7-10, 2017 FBC 1603-A WIND VELOCITY: V_{ULT} = 140 MPH
V_{ASD} = 108 MPH

3. ROOF DESIGN LOADS:
SUPERIMPOSED DEAD LOADS: 20 PSF
SUPERIMPOSED LIVE LOADS: 20 PSF

4. FLOOR DESIGN LOADS:
SUPERIMPOSED DEAD LOADS: 25 PSF
SUPERIMPOSED LIVE LOADS:
RESIDENTIAL 40 PSF
BALCONIES 60 PSF

5. WIND NET UPLIFT: ARE AS INDICATED ON PLANS

TERMITE PROTECTION NOTES:

SOIL CHEMICAL BARRIER METHOD:

1. A PERMANENT SIGN WHICH IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR REINSPECTION AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL. FBC 104.2.6

2. CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM BUILDING SIDE WALLS. FBC 1503.4.4

3. IRRIGATION/SPRINKLER SYSTEMS INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" FROM BUILDING SIDE WALLS. FBC 1503.4.4

4. TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION, BETWEEN WALL COVERINGS AND FINAL EARTH GRADE SHALL NOT BE LESS THAN 6".
EXCEPTION: PAINT AND DECORATIVE CEMENTIOUS FINISH LESS THAN 5/8" THICK ADHERED DIRECTLY TO THE FOUNDATION WALL. FBC 1403.1.6

5. INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE. FBC 1816.1.1

6. SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED OR FORMED. FBC 1816.1.2

7. BOXED AREAS IN CONCRETE FLOOR FOR SUBSEQUENT INSTALLATION OF TRAPS, ETC., SHALL BE MADE WITH PERMANENT METAL OR PLASTIC FORMS. PERMANENT FORMS MUST BE OF A SIZE AND DEPTH THAT WILL ELIMINATE THE DISTURBANCE OF SOIL AFTER THE INITIAL TREATMENT. FBC 1816.1.3

8. MINIMUM 6 MIL VAPOR RETARDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL DILUTION, IF RAINFALL OCCURS BEFORE VAPOR RET- ARDER PLACEMENT, RETREATMENT IS REQUIRED. FBC 1816.1.4

9. CONCRETE OVERPOUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMENT. FBC 1816.1.5

10. SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1'-0" OF THE STRUCTURE SIDEWALLS. FBC 1816.1.6

11. AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED AFTER CONSTRUCTION IS COMPLETE INCLUDING LANDSCAPING AND IRRIGATION. ANY SOIL DISTURBED AFTER THE VERTICAL BARRIER IS APPLIED, SHALL BE RETREATED. FBC 1816.1.6

12. ALL BUILDINGS ARE REQUIRED TO HAVE PER-CONSTRUCTION TREATMENT. FBC 1816.1.7

13. A CERTIFICATE OF COMPLIANCE MUST BE ISSUED TO THE BUILDING DEPART- MENT BY # LICENSED PEST CONTROL COMPANY BEFORE A CERTIFICATE OF OCCUPANCY WILL BE ISSUED. THE CERTIFICATE OF COMPLIANCE SHALL STATE: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONS- UMER SERVICES." FBC 1816.1.7

14. AFTER ALL WORK IS COMPLETED, LOOSE WOOD AND FILL MUST BE REMOVED FROM BELOW AND WITHIN 1'-0" OF THE BUILDING. THIS INCLUDES ALL GRADE STAKES, TUB TRAP BOXES, FORMS, SHORING OR OTHER CELLULOSE CONTAINING MATERIAL. FBC 2303.1.3

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

FRAMING ANCHOR SCHEDULE

APPLICATION

MANUF/R/MODEL

CAP.

TRUSS TO WALL:

"SIMPSON" HETEL 16 W/ TSS

1410#

PORCH BEAM TO POST (4x 4):

SIMPSON PC44/EPC44

1700#

PORCH BEAM TO POST (6x 6):

SIMPSON PC66/EPC66

1700#

PORCH POST TO FND.:

SIMPSON ABU44 or ABU 66

2200#

MISC. JOINTS

SIMPSON A34

315#/240#

NOTE:

ALL ANCHORS SHALL BE SECURED W/ NAILS AS PRESCRIBED BY THE MANUFACTURER FOR MAXIMUM JOINT STRENGTH, UNLESS NOTED OTHERWISE.

NOTE:

REFER TO THE INCLUDED STRUCTURAL DETAILS FOR ADDITIONAL ANCHORS/ JOINT REINFORCEMENT AND FASTENERS.

NOTE:

ALL UNLISTED JOINTS IN THE LOAD PATH SHALL BE REINFORCED WITH SIMPSON A34 FRAMING ANCHORS, TYPICAL T.O.

NOTE:

"SEMCO" PRODUCT APPROVAL:

NOTE:

MIAMI/DADE COUNTY REPORT #95-0818.15

NOTE:

"SIMPSON" PRODUCT APPROVALS:

NOTE:

MIAMI/DADE COUNTY REPORT #97-0107.05, #96-1126.11, #99-0623.04
SBCC1 NER-443, NER-393

Diagram 1: Penetrations

Diagram 2: Soffit/Dropped Clg.

FIREBLOCKING NOTES:

FIREBLOCKING SHALL BE INSTALLED IN WOOD FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS:

1. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS INCLUDING FURRED SPACES AT CEILING AND FLOOR LEVELS.

2. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS, COVE CEILINGS, ETC.

3. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS WITH "PYROPANEL MULTIFLEX SEALANT"

4. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND CONCEALED SPACES CREATED BY AN ASSEMBLY OF FLOOR JOISTS. FIREBLOCKING SHALL BE PROVIDED FOR THE FULL DEPTH OF THE JOISTS AT THE ENDS AND OVER THE SUPPORTS.

Fire Stopping DETAILS

SCALE: NONE

A

45°

15°

0°

BUILDING COMPONENTS & CLADDING LOADS
MEAN BUILDING HEIGHT = 30.0', EXPOSURE "B"
ROOF ANGLE 1° TO 21°

WIND ZONE	WIND SPEED (MPH)	WIND SPEED (MPH)	WIND SPEED (MPH)	WIND SPEED (MPH)
1	10	12.0 / -19.9	14.9 / -23.7	17.5 / -27.8
1	20	11.4 / -18.4	13.6 / -23.0	16.0 / -27.0
1	30	10.0 / -18.6	11.9 / -22.2	13.9 / -26.0
2	10	12.5 / -34.7	14.9 / -41.3	17.5 / -48.4
2	20	11.4 / -31.9	13.6 / -38.0	16.0 / -44.6
2	30	10.0 / -28.2	11.9 / -33.6	13.9 / -39.4
3	10	12.5 / -51.3	14.9 / -61.0	17.5 / -71.6
3	20	11.4 / -47.5	13.6 / -57.1	16.0 / -67.0
3	30	10.0 / -43.5	11.9 / -51.8	13.9 / -60.8
4	10	21.8 / -23.6	25.9 / -34.7	30.4 / -33.0
4	20	20.8 / -22.6	24.7 / -26.9	29.0 / -31.6
4	30	19.5 / -21.3	23.2 / -25.4	27.2 / -29.8
5	10	21.8 / -29.1	25.9 / -34.7	30.4 / -40.7
5	20	20.8 / -27.2	24.7 / -32.4	29.0 / -38.0
5	30	19.5 / -24.6	23.2 / -29.3	27.2 / -34.3

HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENTS
FOR BUILDING COMPONENTS & CLADDING

BLDG HEIGHT	EXPOSURE "B"	EXPOSURE "C"	EXPOSURE "D"
15	1.00	1.21	1.47
20	1.00	1.29	1.55
25	1.00	1.35	1.61
30	1.00	1.40	1.66

45°

15°

0°

BUILDING COMPONENTS & CLADDING LOADS
MEAN BUILDING HEIGHT = 30.0', EXPOSURE "B"
ROOF ANGLE 21° TO 45°

WIND ZONE	WIND SPEED (MPH)	WIND SPEED (MPH)	WIND SPEED (MPH)	WIND SPEED (MPH)
1	10	19.9 / -31.8	23.7 / -25.9	27.8 / -30.4
1	20	18.4 / -20.7	23.0 / -24.6	27.0 / -29.9
1	30	16.6 / -19.2	22.2 / -22.8	26.0 / -26.8
2	10	19.9 / -25.5	23.7 / -30.3	27.8 / -35.6
2	20	18.4 / -24.3	23.0 / -29.0	27.0 / -34.0
2	30	16.6 / -22.9	22.2 / -21.2	26.0 / -32.0
3	10	19.9 / -25.5	23.7 / -30.3	27.8 / -35.6
3	20	18.4 / -24.3	23.0 / -29.0	27.0 / -34.0
3	30	16.6 / -22.9	22.2 / -21.2	26.0 / -32.0
4	10	21.8 / -23.6	25.9 / -34.7	30.4 / -33.0
4	20	20.8 / -22.6	24.7 / -26.9	29.0 / -31.6
4	30	19.5 / -21.3	23.2 / -25.4	27.2 / -29.8
5	10	21.8 / -29.1	25.9 / -34.7	30.4 / -40.7
5	20	20.8 / -27.2	24.7 / -32.4	29.0 / -38.0
5	30	19.5 / -24.6	23.2 / -29.3	27.2 / -34.3

HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENTS
FOR BUILDING COMPONENTS & CLADDING

BLDG HEIGHT	EXPOSURE "B"	EXPOSURE "C"	EXPOSURE "D"
15	1.00	1.21	1.47
20	1.00	1.29	1.55
25	1.00	1.35	1.61
30	1.00	1.40	1.66

General Roofing NOTES:

DECK REQUIREMENTS:
ASPHALT SHINGLES SHALL BE FASTENED TO SOLIDLY SHEATHED DECKS.

SLOPE:
ASPHALT SHINGLES SHALL BE USED ONLY ON ROOF SLOPES OF 2:12 OR GREATER. FOR ROOF SLOPES FROM 2:12 TO 4:12, DBL. UNDERLAYMENT IS REQUIRED.

UNDERLAYMENT:
UNLESS OTHERWISE NOTED, UNDERLAYMENT SHALL CONFORM W/ ASTM D 226, TYPE 1, OR ASTM D 4869, TYPE 1.

SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET:
SELF ADHERING POLYMER MODIFIED BITUMEN SHALL COMPLY W/ ASTM D 1970.

ASPHALT SHINGLES:
ASPHALT SHINGLES SHALL HAVE SELF SEAL STRIPS OR BE INTERLOCKING, AND COMPLY WITH ASTM D 225 OR ASTM D 3462.

FASTENERS:
FASTENERS FOR ASPHALT SHINGLES SHALL BE GALVANIZED, STAINLESS STEEL, ALUMINUM OR COPPER ROOFING NAILS, MINIMUM 12 GAUGE SHANK WITH A MINIMUM 3/8 INCH DIAMETER HEAD, OF A LENGTH TO PENETRATE THROUGH THE ROOFING MATERIAL AND A MINIMUM 3/4" INTO THE ROOF SHEATHING. WHERE THE SHEATHING IS LESS THAN 3/4" THICK, THE NAILS SHALL PENETRATE THROUGH THE SHEATHING.

ATTACHMENT:
ASPHALT SHINGLES SHALL BE SECURED TO THE ROOF WITH NOT LESS THAN FOUR FASTENERS PER STRIP SHINGLE OR TWO FASTENERS PER INDIVIDUAL SHINGLE. WHERE ROOFS LOCATED IN BASIC WIND SPEED OF 110 MPH OR GREATER, SPECIAL METHODS OF FASTENING ARE REQUIRED. UNLESS OTHERWISE NOTED, ATTACHMENT OF ASPHALT SHINGLES SHALL CONFORM WITH ASTM D 3161 OR M-DC PA 107-95.

UNDERLAYMENT APPLICATION:
FOR ROOF SLOPES FORM 2:12 TO 4:12, UNDERLAYMENT SHALL BE A MINIMUM OF TWO LAYERS APPLIED AS FOLLOWS:
1. STARTING AT THE EAVE, A 19 INCH STRIP OF UNDERLAYMENT SHALL BE APPLIED PARALLEL WITH THE EAVE AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

2. STARTING AT THE EAVE, 36 INCH WIDE STRIPS OF UNDERLAYMENT FELT SHALL BE APPLIED OVERLAPPING SUCCESSIVE SHEETS 19 INCHES AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

FOR ROOF SLOPED 4:12 AND GREATER, UNDERLAYMENT SHALL BE A MINIMUM OF ONE LAYER OF UNDERLAYMENT FELT APPLIED AS FOLLOWS:
STARTING AT THE EAVE, UNDERLAYMENT SHALL BE APPLIED SHINGLE FASHION PARALLEL TO THE EAVE, LAPPED 2 INCHES, AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

BASE AND CAP FLASHINGS:
BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE W/ MFGR'S INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE OF EITHER CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS 0.019 INCH OR MINERAL SURFACE ROLL ROOFING WEIGHING A MINIMUM OF 77 LBS PER 100 SQUARE FEET. CAP FLASHING SHALL BE CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS OF 0.019 INCH.

VALLEYS:
VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING ASPHALT SHINGLES. VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED.
1. FOR OPEN VALLEYS LINED WITH METAL, THE VALLEY LINING SHALL BE AT LEAST 16" WIDE AND OF ANY OF THE CORROSION RESISTANT METALS IN FBC TABLE 1507.3.9.2.
2. FOR OPEN VALLEYS, VALLEY LINING OF TWO PLIES OF MINERAL SURFACE ROLL ROOFING SHALL BE PERMITTED. THE BOTTOM LAYER SHALL BE 18 INCHES AND THE TOP LAYER A MINIMUM OF 36 INCHES WIDE.
3. FOR CLOSED VALLEYS VALLEY LINING SHALL BE ONE OF THE FOLLOWING:
1. BOTH TYPES 1 AND 2 ABOVE, COMBINED.
2. ONE PLY OF SMOOTH ROLL ROOFING AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 224.
3. SPECIALTY UNDERLAYMENT AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 1970.

NOTE !!!
ROOF SHINGLES SHALL BE AS MANUFACTURED BY "TAMKO ROOFING PRODUCTS" OF THE FOLLOWING MODELS:

GLASS-SEAL AR
ELITE GLASS-SEAL AR
HERITAGE 30 AR
HERITAGE 40 AR
HERITAGE 50 AR

THESE SHINGLES MEET THE REQUIREMENTS OF ASTM D-3161
TYPE 1, MODIFIED TO 110 MPH WINDS & FBC TAS 100, USING
4 NAILS/SHINGLE

REVISIONS

December 20, 2022

SOFTPLAN

ARCHITECTURAL DRAFTING SOFTWARE

A CUSTOM HOME FOR:

PETER & ANNA LEV

PROJECT ADDRESS: 125 SW MILKWEED CT, LAKE CITY, FLORIDA 32025

N. P. GEISLER

ER

AR0007005

Digitally signed by N. P. GEISLER
DN: CN = N. P. GEISLER C = US O = AR0007005 OU = ARCHITECT
Date: 2022.12.20 13:58:25 -05'00'

NICHOLAS PAUL ARCHITECT

1758 NW Brown Rd.
Lake City, FL 32055
N.C.A.R.B. Certified (386) 365-4355

JOB NUMBER

20221011

SHEET NUMBER

S.3

OF 4 SHEETS

NOTE: ALL DRAWINGS NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS

