

ROOF LAYOUT

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

DWC CONSTRUCTION

THORNWOOD \ LOT 22

ALACHUA COUNTY, FLORIDA

JACOB ESKRIDGE

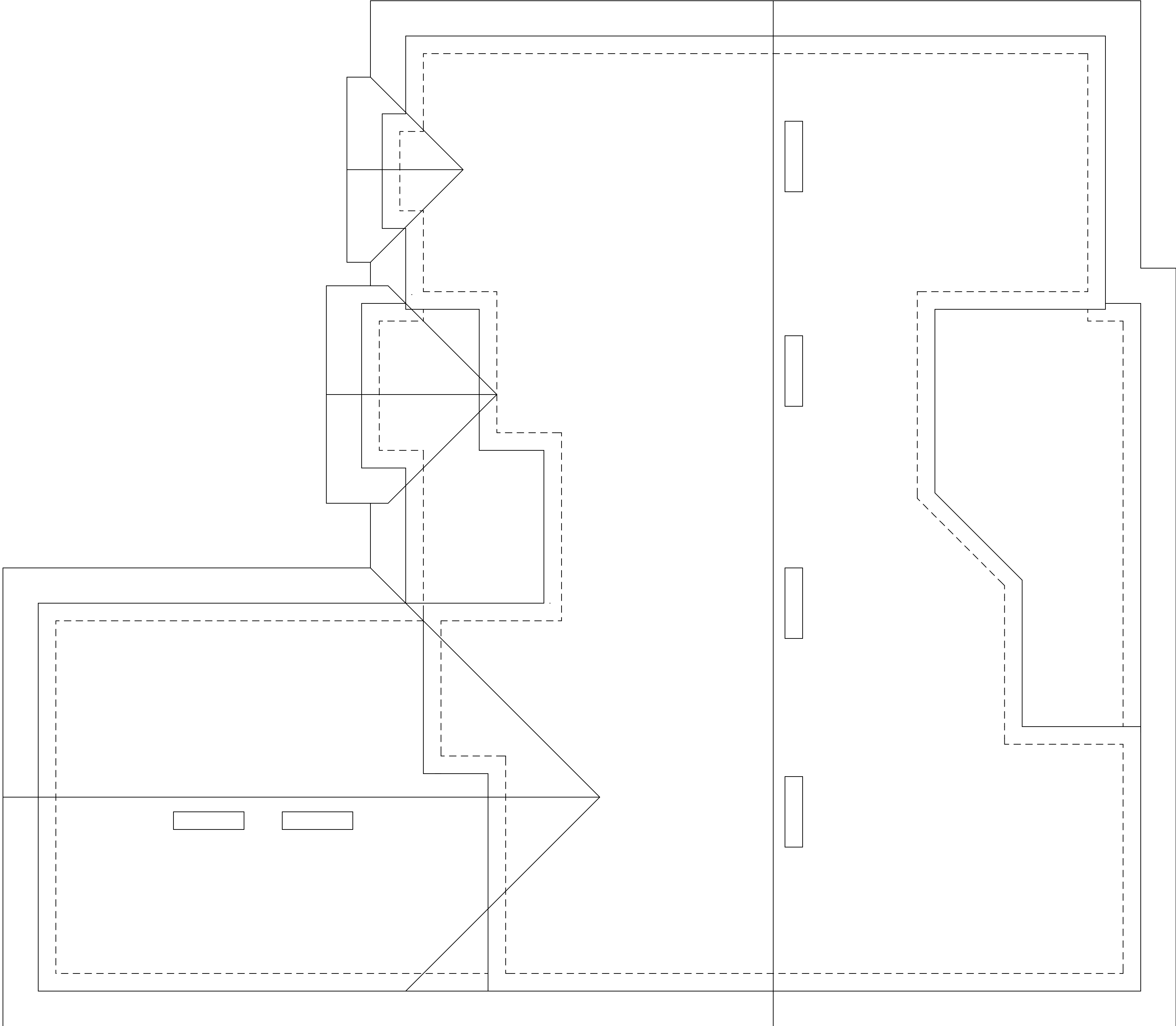
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DRAFTING & DESIGNS

14705 MAIN STREET

ALACHUA, FLORIDA

386-462-1340



TIE-DOWN TABLES				
HEADER STRAPPING				
Uplift Lbs	Top Connector	Feeling Lbs	Bottom Connector	Rating Lbs
to 455	LS7A19	635	H-3	320
to 910	LS7A12	795	2-N3	640
to 1265	LS7A18	1110	L7T19	1305
to 1720	2-L7A12	1810	L7T20	1790
to 2330	2-L7A18	2530	HQ2A-2.5	2165
to 2865	3-L7A18	3265	HQ2A-3.5	2865
to 3700	3-L7A24	3860	HQ2A-3	3120
Total uplift on truss from roof and wall shall be less than the rated uplift capacity of the tie-down system. The tie-down system shall be designed to resist the uplift loads.				

TRUSSES \ GIRDERS				
Uplift Lbs	Top Connector	Bottom Connector	Rating Lbs	
to 335	HQ2A	NA		
to 1015	HQ2A	NA		
to 1315	TS22	L7T19	1305	
to 1720	2-TS22	L7T20	1790	
to 2370	2-TS22	HQ2A	2775	
to 2865	3-TS22	HQ2A	4010	
to 3420	3-HS737	H7T22	5250	
to 3660	2-HS780	HQ10A	9540	
Two 12d common toenails are required per truss for each 11.8 lbs. connector. Responsibility to provide a continuous plan view must be maintained.				

ROOF VENT CALCS

TOTAL S.F. 2716

VENT AREA 4.6

VENT REQ 6.0

1. FOR NAILING INTO SERVICE MEMBERS, FULLY NAIL ALL VALUES BY ANCHOR UPLIFT VALUES. THIS SCHEDULE IS NOT MEANT TO BE A REPLACEMENT TO THE SPECIFIED VALUES OF ANY MANUFACTURER'S VALUES.

PREFABRICATED WOOD TRUSSES

1. ALL PREFABRICATED TRUSSES SHALL BE SECURELY FASTENED TO THEIR SUPPORTING WALLS OR BEAMS PER TRUSS ENG REQ.

2. PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE NDS AS RECOMMENDED BY THE NFPA.

3. ALL TRUSSES AND CONNECTIONS SHALL BE PROPORTIONED TO RESIST ALL ALLOWABLE STRESSES INCREASE FOR ALL LOAD DURATIONS OF TPI RECOMMENDATIONS).

4. BRIDGING FOR PRE-ENGINEERED TRUSSES SHALL BE SPECIFIED BY THE TRUSS MANF.

5. TRUSS ELEVATIONS AND SECTIONS ARE FOR GENERAL CONFIGURATION ONLY. THE TRUSS MANF SHALL PROVIDE THE FINAL DESIGN.

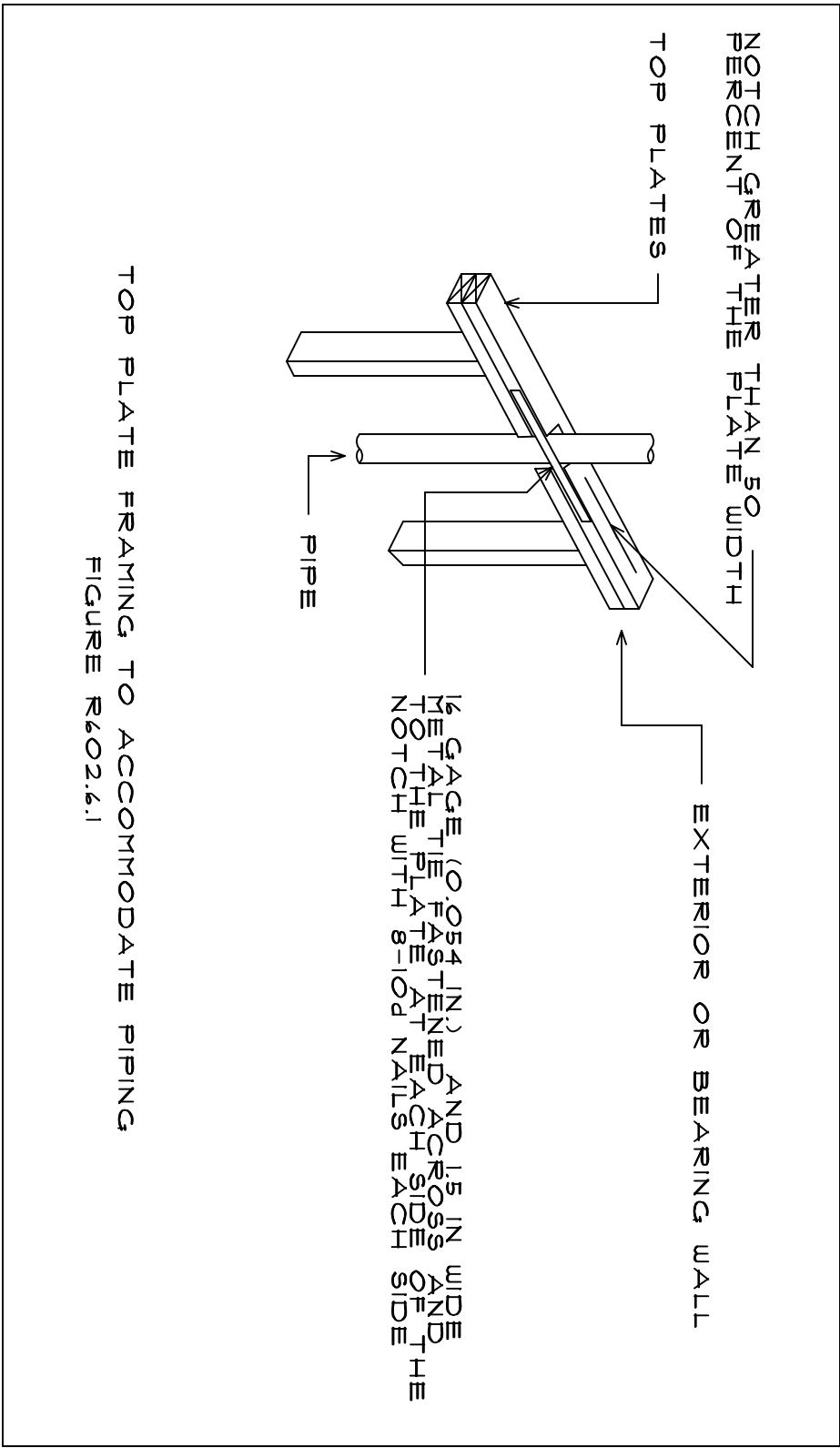
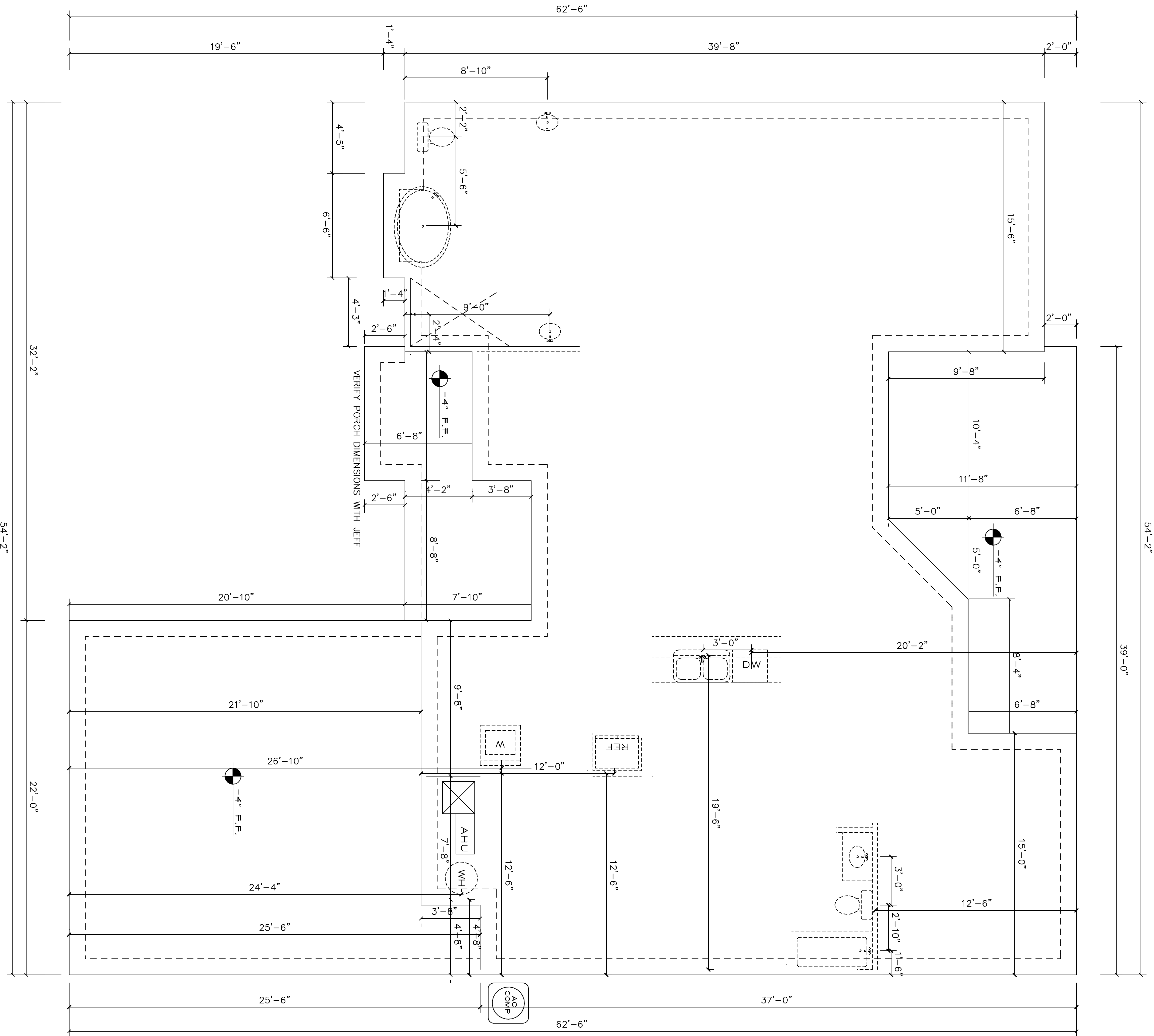
6. DESIGN SPECIFICATION FOR LIGHTWEIGHT METAL PLATE CONNECTED WOOD TRUSSES PER TPI.

7. PRE-ENGINEERED WOOD TRUSSES SHALL BE DESIGNED BY THE MANF. IN ACCORDANCE WITH SPECIFIED LOADS AND THE COVERING THEREON.

8. THE TRUSS MANF SHALL DETERMINE ALL SPANS, BEARING POINTS AND SIMILAR CONDITIONS. TRUSS SHOP DRAWINGS SHALL SHOW ALL TRUSSES, ALL BRACING MEMBERS, AND ALL TRUSS TO TRUSS CONNECTORS.

9. TRUSS CONNECTORS SUCH AS LUGSCANE CLIPS, TRUSS ANCHORS AND ANCHOR BOLTS ARE REQUIRED ON MEMBERS IN WALLS THAT ARE EXPOSED TO UPLIFT FORCES, INTERIOR LOAD BEARING WALLS ARE NOT ALWAYS EXPOSED TO UPLIFT FORCES. THE MEMBERS OF THESE WALLS MAY NOT NEED TO BE FULLY CONNECTED TO THE TRUSS MANF. THE TRUSS MANF SHALL CONSULT THE TRUSS MANF FOR THE LOCATION OF THESE WALLS.

10. THE CAPACITIES OF THE TRUSS CONNECTORS SPECIFIED BY THE TRUSS MANF SHALL BE VERIFIED BY THE CONTRACTOR TO EXCEED THE LOADS IN THE SIGNED AND SEALED TRUSS ENGINEERING.



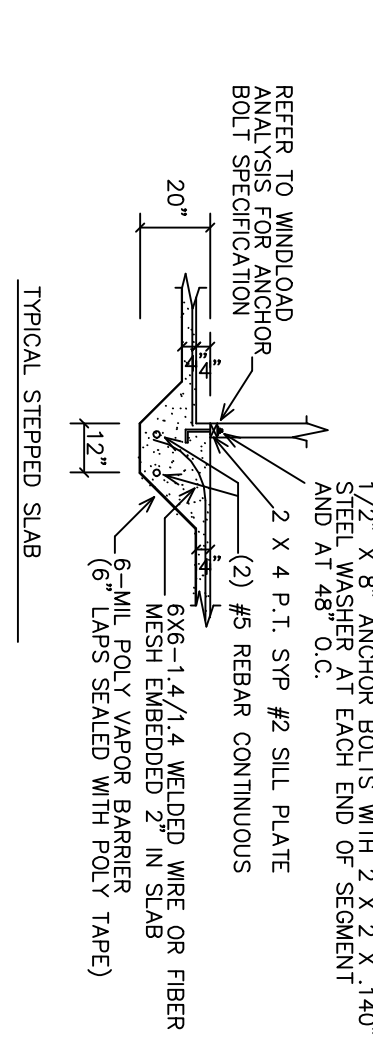
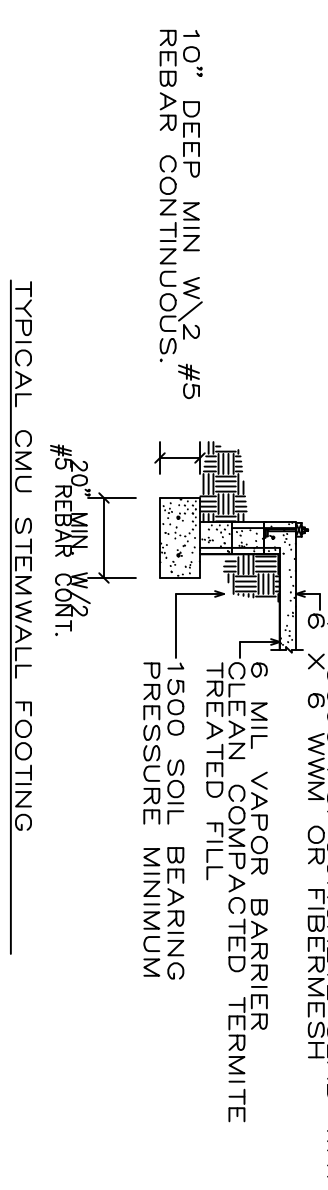
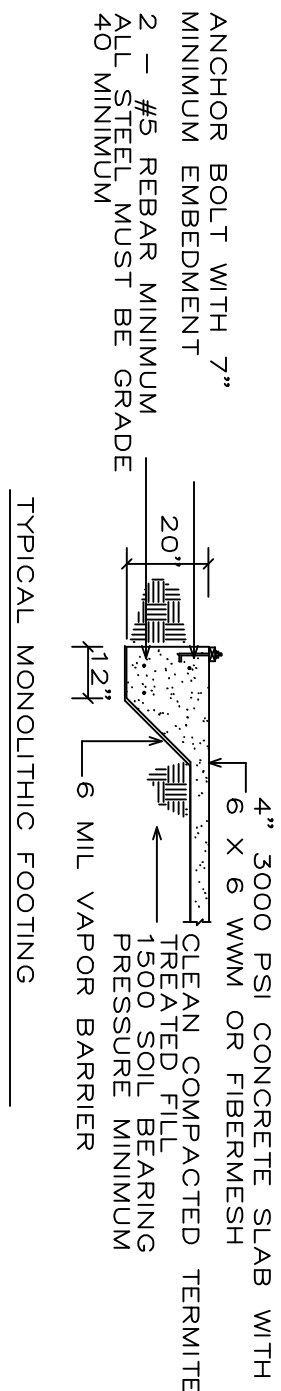
FOUNDATION NOTES

4" THICK SLAB WITH FIBER MESH OR 4" X 4" W/M 1" OVER 4" MIL VAPOR BARRIER ON CLEAN TERNITE TREATED SOIL. FIBER MESH MAY BE USED. ALL STEEL MUST BE GRADE 40 MIN. 1500 PSF SOIL BEARING. PRESSURE MIN. 8" C/MU. STEMWALL WITH (1) #5 REBAR VERTICAL FILLED CELL W/ CONCRETE AT ALL CORNERS AND 4" O.C. MAX. SPACING. 10" DEEP X 20" WIDE WITH (2) #5 REBAR CONT. STEMWALL FOOTING. THICKEN EDGE OF MONOLITHIC SLAB TO 12" WIDE X 20" DEEP WITH (2) #5 REBAR CONTINUOUS. ALL DIMENSIONS CODES AND DESIGNS TO CONTROL WITH AUTHORITY OF ADVISING JURISDICTION. VERIFY ALL FOOTINGS WITH CONTRACTOR.

CODE STATEMENT:

2020 FLORIDA RESIDENTIAL BUILDING CODE

1500 PSF SOIL BEARING CAPACITY. THE CONTRACTOR IS REQUIRED TO CONTACT THE POWER SUPPLIER FOR THE PAD DESIGN. THE SOIL IS TO BE COMPACTED TO BE AT LEAST 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM 1557 (modified Proctor)



DESIGN CRITERIA			
F.B.C.	RESIDENTIAL	2020	
WIND LOAD DESIGN	ASCE 7-16	2020	
FL. PLUMBING	F.B.C.	2020	
FLOOR LIVE LOAD	40 P.S.F.	2020	
ROOF LIVE LOAD	20 P.S.F.	2020	
FL. ELECTRICAL	NAT'L. ELECT. CODE	2017	
MECHANICAL	F.B.C.	2020	

FOUNDATION PLAN			
SCALE: 1/4"=1'-0"			
11/1/24			
LIVING AREA	1843 S.F.		
FRONT ENTRY	125 S.F.		
COVERED LANAI	222 S.F.		
GARAGE	526 S.F.		
TOTAL AREA	2716 S.F.		

DWC CONSTRUCTION

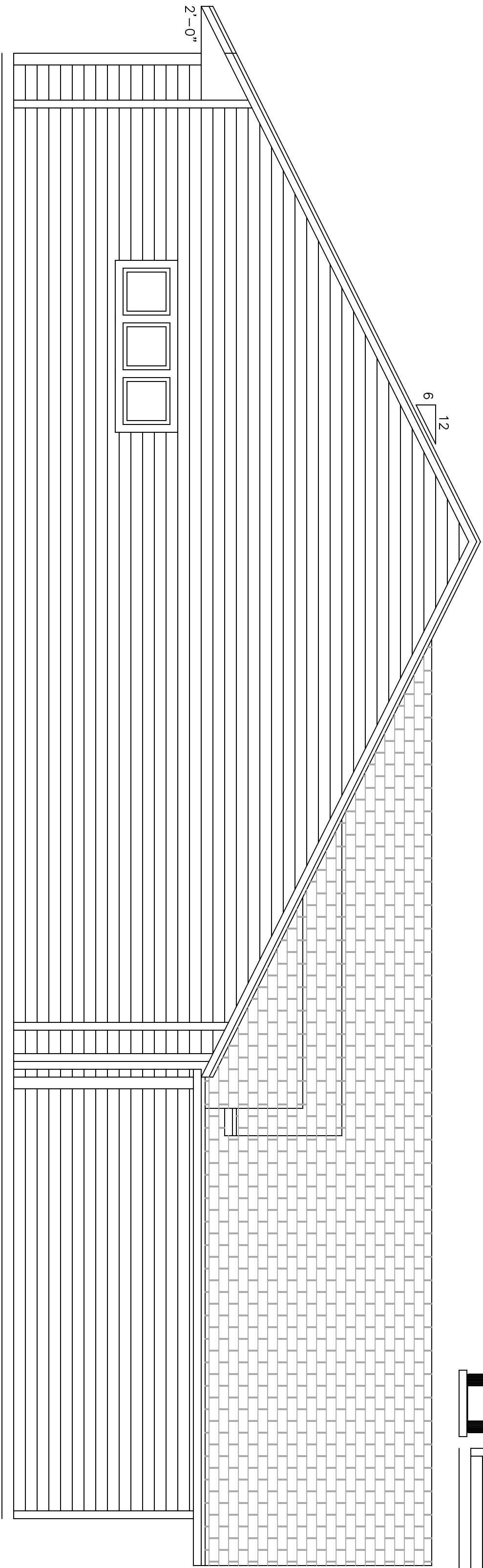
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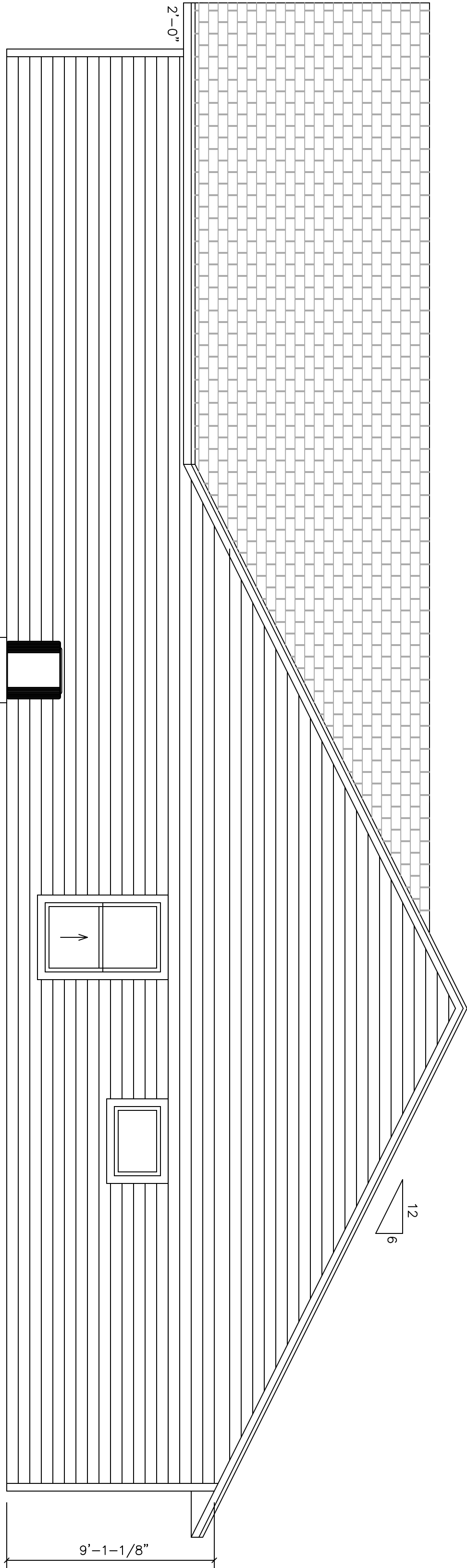
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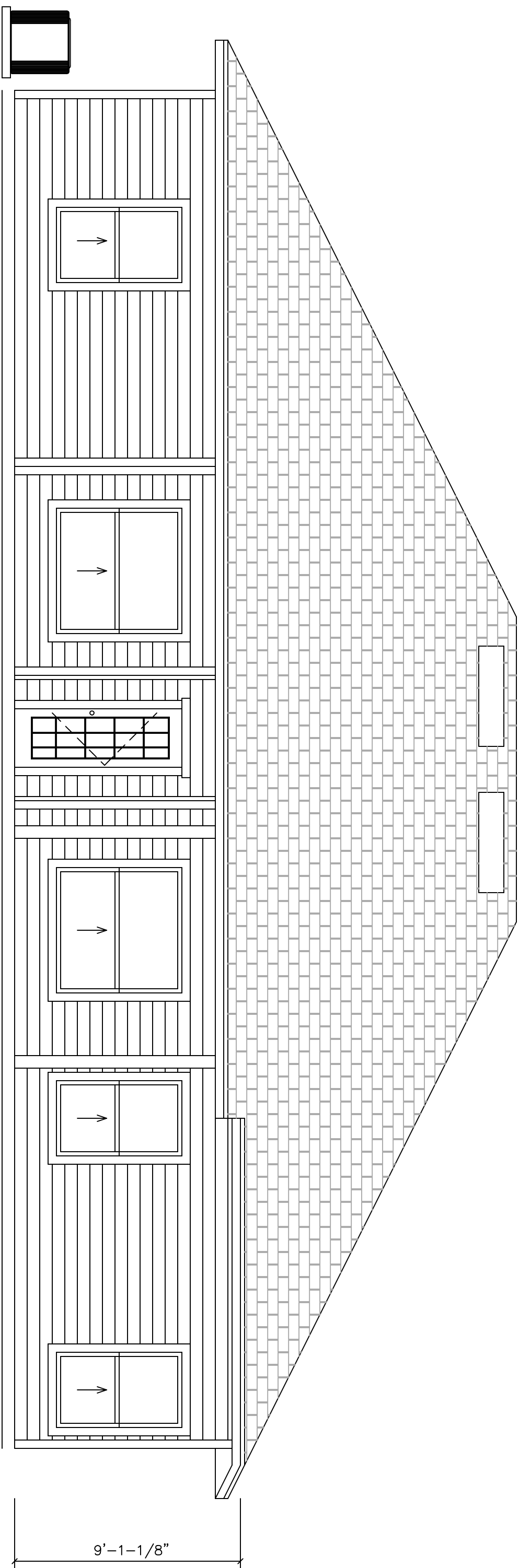
LEFT ELEVATION



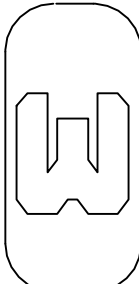
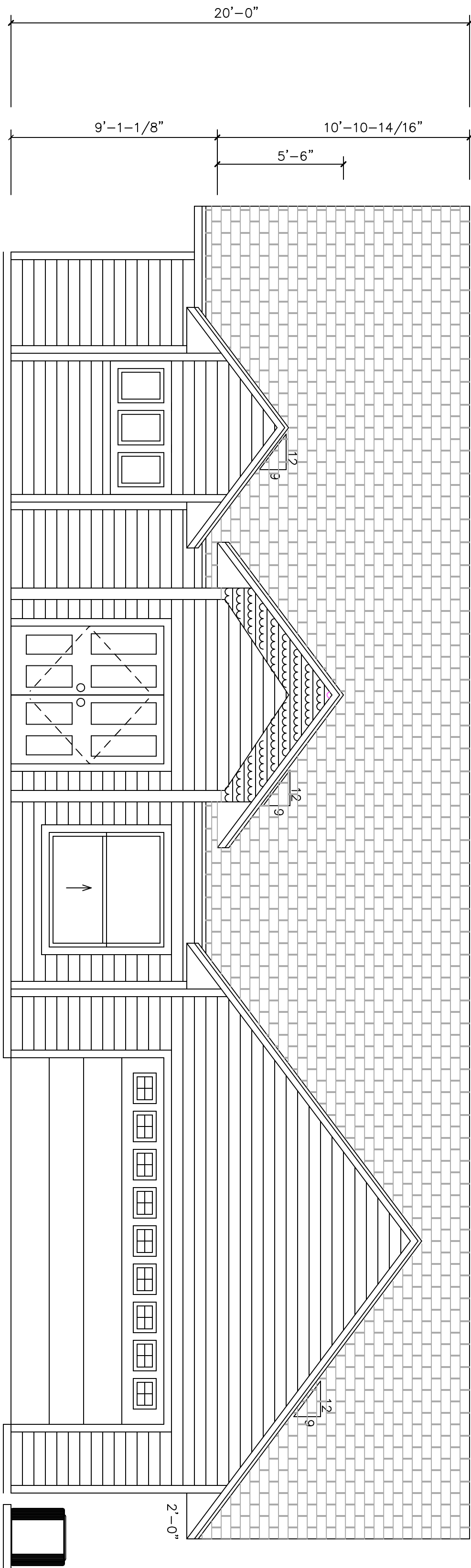
RIGHT ELEVATION



REAR ELEVATION



FRONT ELEVATION

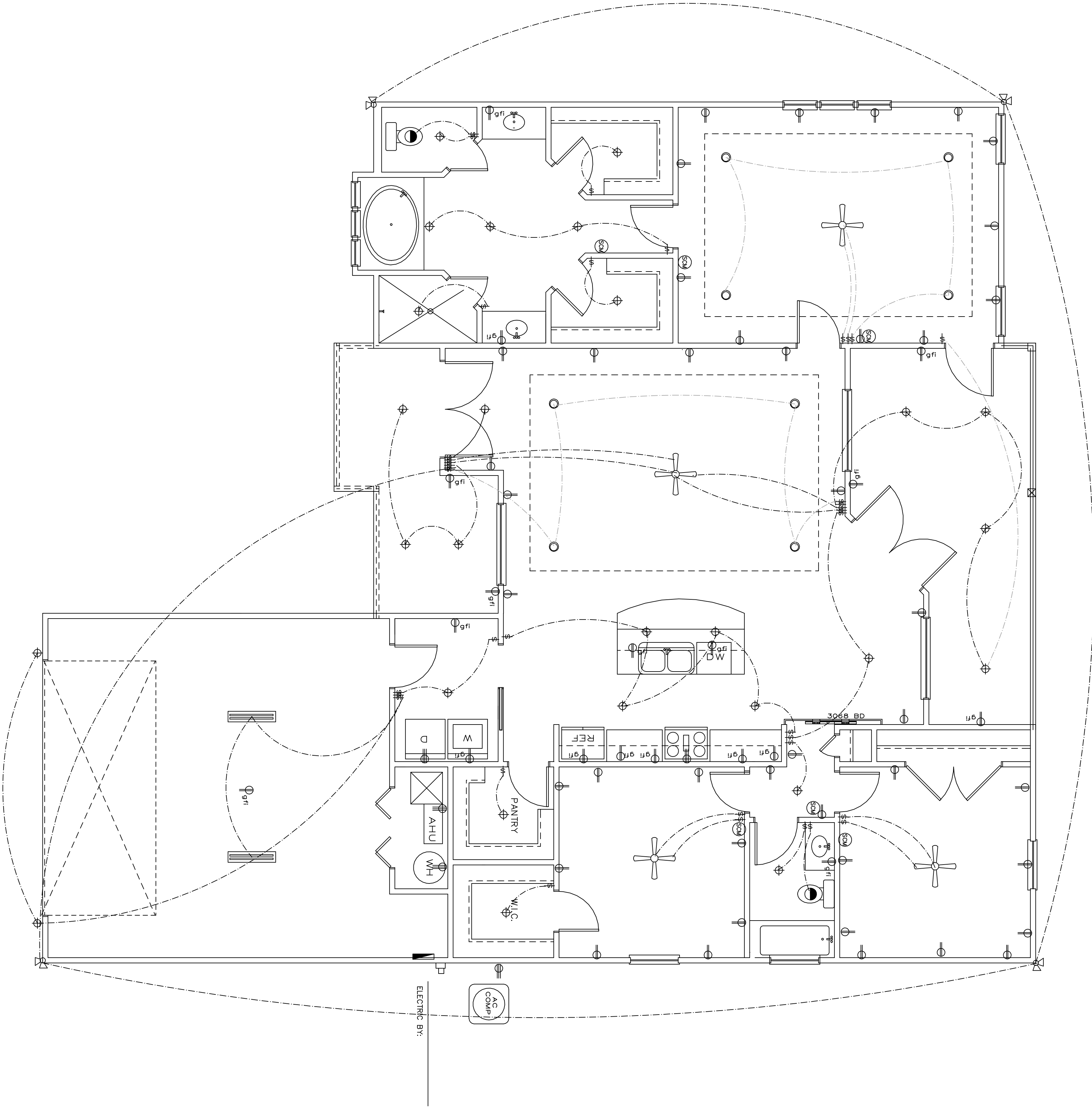


ELEVATIONS

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ELECTRICAL LEGEND

FLOOD LIGHT

AC 110V ELECT. OUTLET 1/8" ABOVE FINISH FLOOR TYPE

GROUND FAULT INTERRUPT

220V ELECT. OUTLET

LIGHT

EXHAUST FAN

SMOKE/CARBON MONOXIDE DETECTOR

200 AMP ELECT. PANEL

110V FLO. LIGHT

110V CEILING FAN W/LIGHT

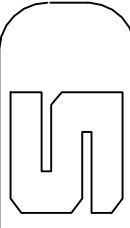
CAN LIGHT

AC COMP. AIR CONDITIONING COMPRESSOR

SMOKE DETECTORS TO BE WIRED W/ BATTERY FULLY PROTECTED BY CIRCUIT. ALL RECEPTACLES NEAR EXTERIOR BE GFI. ALL EXTERIOR OUTLETS TO BE WATERPROOF GFI.

NOTES:
ALL WIRING SHALL COMPLY WITH THE 2017 NEC AND ALL OTHER APPLICABLE LOCAL CODES AND ORDINANCES.
ALL SMOKE DETECTORS TO BE WIRED TOGETHER TO ACTIVATE AS ONE UNIT.
GROUND OR OUTLETS AT BATHROOMS, KITCHEN, EXTERIOR AND ANY EET AREA OUTLETS.
OUTLETS SUPPLYING POWER TO THE STOVE, RANGE AND WATER HEATER DRYER AND DISHWASHER ARE TO BE WIRED ON SEPARATE DEDICATED CIRCUITS.

Note:
THIS ELECTRICAL PLAN IS A SCHEMATIC WITH SUGGESTED SWITCH, RECEPTACLE AND LIGHT FIXTURE LOCATIONS. DUE TO VARYING LOCAL AND STATE CODES, REGULATIONS, AND STATUTES IT IS THE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR TO COMPLY WITH ALL LOCAL AND STATE CODES, REGULATIONS AND STATUTES.
ELECTRICAL NOTES:
INSTALLATION SHALL BE PER 2017 NAT'L ELECTRICAL CODE.
WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS.
SMOKE ALARMS SHALL BE LISTED IN ACCORDANCE WITH UL 217. COMBINATION SMOKE AND CARBON MONOXIDE ALARM SHALL BE LISTED IN ACCORDANCE WITH UL 217 AND 2034.
3314.1.1
ANY BUILDINGS HAVING A FOSSIL-FUEL-BURNING HEATER OR APPLIANCE, A FIREPLACE OR AN ATTACHED GARAGE SHALL HAVE CARBON MONOXIDE DETECTORS WITHIN 10' OF EACH ROOM USED FOR SLEEPING PURPOSES. R315.1
TELEPHONE, TELEVISION, AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER THE OWNER'S DIRECTIONS, AND IN ACCORDANCE WITH APPLICABLE SECTIONS OF NEC-LATEST EDITION 2017 NEC. ALL BEDROOM RECEPTACLES SHALL BE AFCI 2017 (ARC FAULT CIRCUIT INTERRUPT)
NOTE: ALL 15 AND 20 AMP BRANCH CIRCUITS THAT SUPPLY 120V OUTLET OUTLETS IN HABITABLE ROOMS SHALL BE AFCI FAULT PROTECTED (AFCI)



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