

**GENERAL NOTES:**

1. These drawings were prepared with the assumption that the contractor or owner - builder is knowledgeable of common construction practices.
2. This site plan is for location purposes only and is not a survey.
3. If knowledge of exact site conditions are required, it shall be the responsibility of the contractor to obtain a site survey from a licensed surveyor.
4. The contractor / owner - builder shall review drawings for accuracy and interpretation. Any discrepancies shall be brought to the attention of the engineer prior to construction. All Dimensions and proportionate locations of all site fixtures are approximate and shall be verified by the contractor prior to commencement of any work.
5. Dimensions shall take precedence over scale.  
DO NOT SCALE DRAWINGS.
6. The contractor / owner - builder is to verify that truss engineering and design is compatible with these drawings prior to truss fabrication.
7. The foundation plans shall be verified by the contractor / owner - builder to correspond with the final engineered truss layout.
8. Protection of openings are not required. Structure is outside of the wind borne debris region.

FLORIDA BUILDING CODE 2017 6th EDITION.  
NATIONAL ELECTRICAL CODE 2016

**ENCLOSED STRUCTURE**

ULTIMATE WIND SPEED	139 M.P.H.
NOMINAL WIND SPEED	111 M.P.H.
RISK CATEGORY II	
WIND IMPORTANCE FACTOR	1.0
BUILDING CATEGORY	2 (ORDINARY)
WIND EXPOSURE	C
INTERNAL PRESSURE COEFF.	0.18 ENCLOSED STRUCTURE.
CONSTRUCTION TYPE	5B
DESIGN WIND PRESSURE	SEE WINDOW SCH.
ROOF LIVE LOADS----	20 p.s.f
ROOF DEAD LOADS TOP CHORD-----	7 p.s.f
ROOF DEAD LOADS BOTTOM CHORD-----	10 p.s.f
ROOF LIVE LOADS BOTTOM CHORD----	0 p.s.f
FLOOR LIVE LOADS-----	40 p.s.f
FLOOR DEAD LOADS TOP CHORD-----	10 p.s.f
FLOOR DEAD LOADS BOTTOM CHORD----	10 p.s.f

STRUCTURAL LUMBER  
ALL STRUCTURAL BEARING LUMBER WILL BE #2 SPF U.O.N.

**NOTES:**

IF WATER BASED CEILING TEXTURE MATERIAL IS USED PROVIDE 1/2" GYPSUM BOARD FOR 16' O.C. FRAMING, OR 5/8" GYPSUM BOARD FOR 24' O.C. FRAMING. NOTE: 1/2" SAG-RESISTANT GYPSUM BOARD MAY BE USED I.L.D. 5/8" GYPSUM.

USE 5/8" DRYWALL BETWEEN LIVING AND NON-LIVING

Note: The R-value--all the Insulation which agrees with the submitted energy forms. (In this house it is: Ceiling R30-- R4 Block exterior frame walls R13

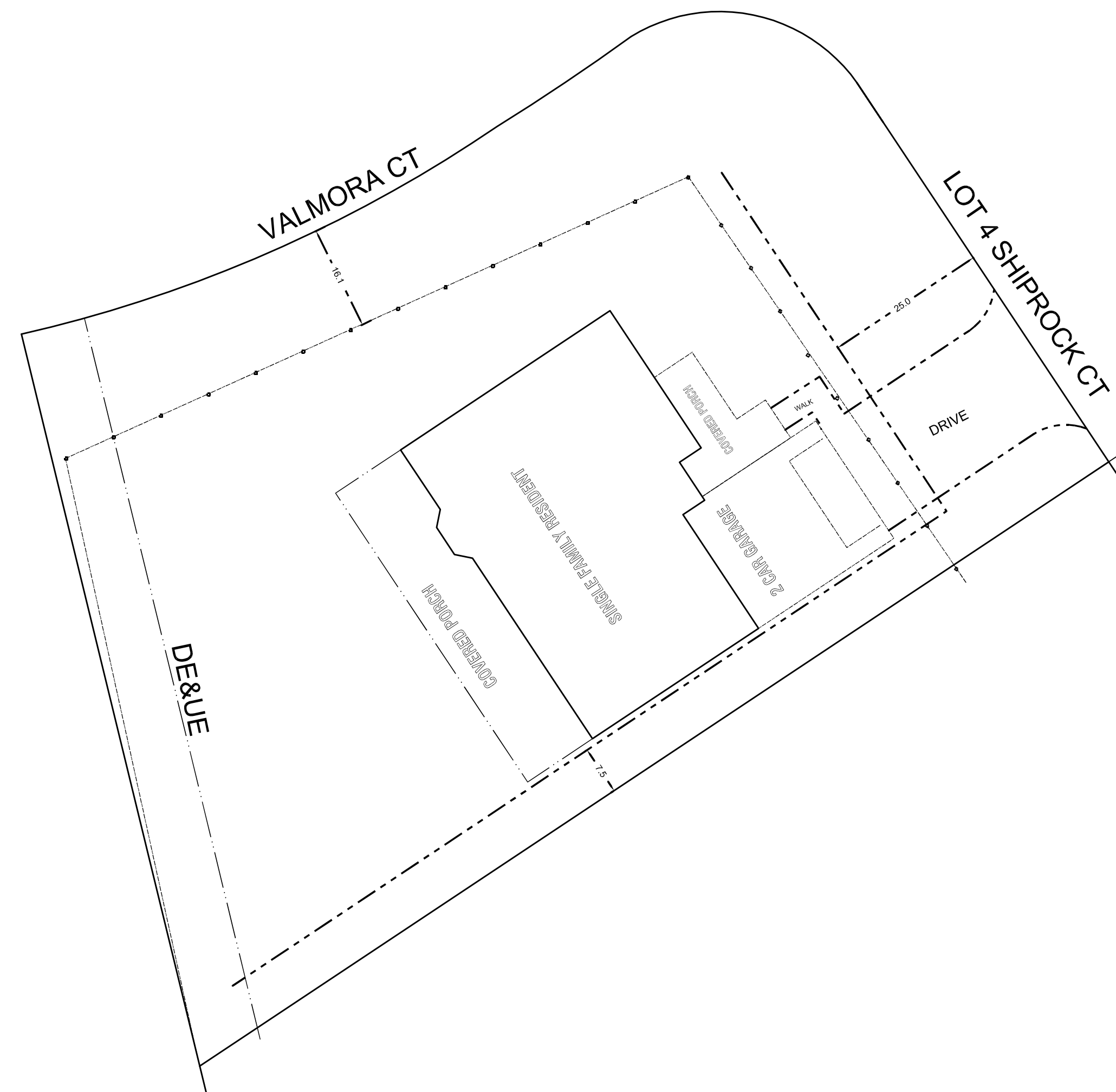
ALL EXTERIOR WALLS ARE SHEAR WALLS SEE (S-2)

**PROPOSED WORK**  
**NEW RESIDENT**

**LIST OF DRAWINGS**

- COVER SHEET AND SITE PLAN  
A-1 FLOOR PLAN  
A-2 ELEVATIONS  
S-1 FOUNDATION  
S-2 ROOF LAYOUT & FRAMING  
S-3 LINTEL  
E-1 ELECTRICAL

NOTE: THIS RESIDENTIAL STRUCTURE HAS BEEN DESIGNED TO EXCEED THE WIND LOADS OF THE FLORIDA BUILDING CODE 2017 6th EDITION.  
1. BASIC WIND SPEED = 139 M.P.H.  
2. WIND IMPORTANCE FACTOR = 1.0  
3. WIND EXPOSURE = CATEGORY C  
4. INTERNAL PRESSURE COEFFICIENT FOR ENCLOSED BUILDINGS IS .18 AND HEIGHT EXPOSURE ADJUSTMENT COEFFICIENT IS .10  
5. COMPONENTS CLADDING/DESIGN PRESSURE =34.1,-38.0



NOTE PROPOSED SITE PLAN ONLY  
SEE ACTUAL SEALED SURVEY

**COVER / SITE PLAN**

Edward F. Shinskie, P.E. State of Florida Professional Engineer, License No. 47515  
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Project Name and Address  
Custom Home  
For  
LOT 4 SHIPROCK  
DELTONA, FL. 32798  
VOLUSIA CO.

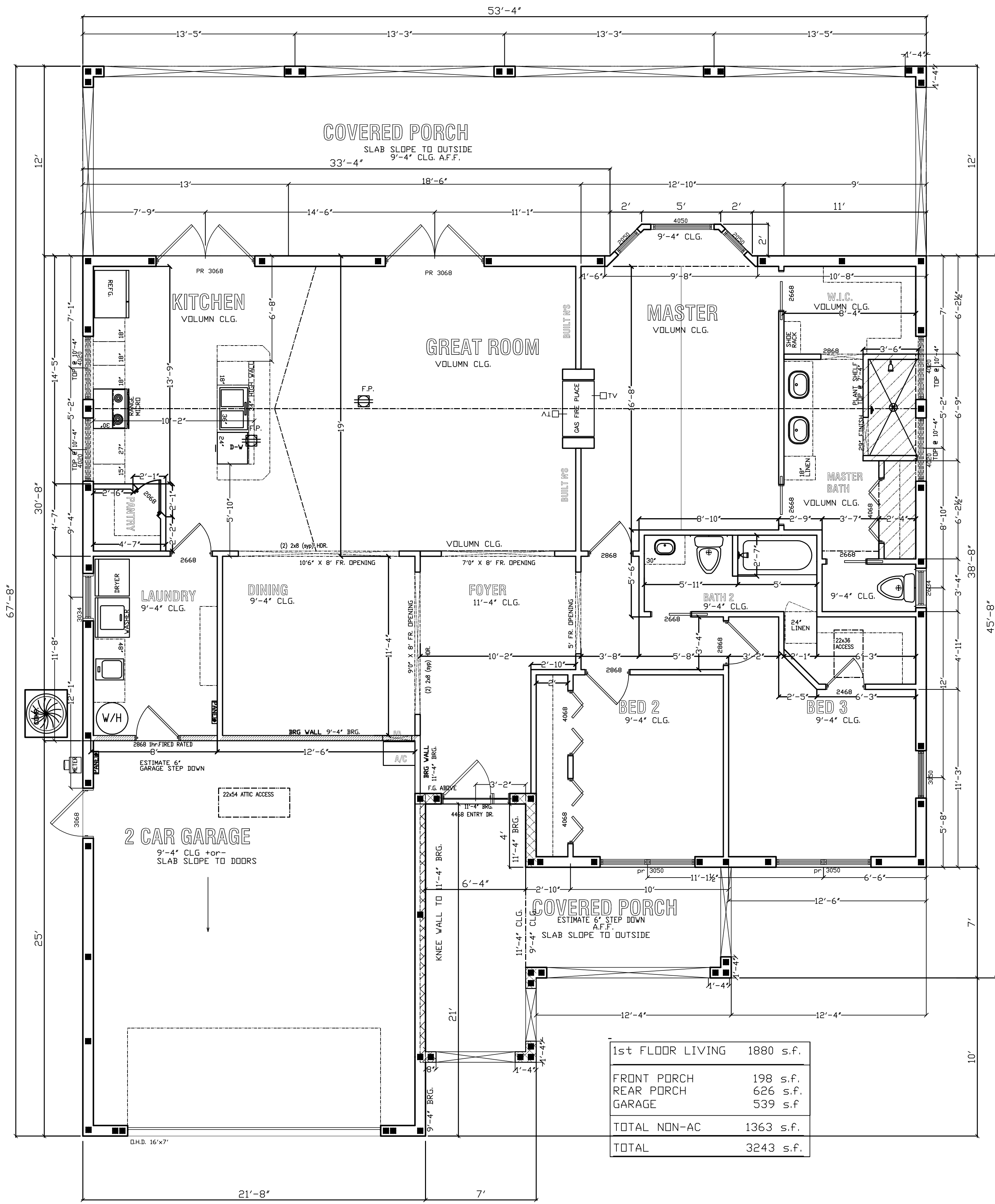
BUILDER  
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ISSUE DATE: 5-16-2020  
REVISION DATE:

DH

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REG. NO. 47515

COVER



NOTE: THIS RESIDENTIAL STRUCTURE HAS BEEN DESIGNED TO EXCEED THE WIND LOADS OF THE FLORIDA BUILDING CODE 607 6TH EDITION.

1. BASIC WIND SPEED = 130 MPH
2. WIND IMPORTANCE FACTOR = 1.0
3. WIND EXPOSURE = CATEGORY C
4. INTERNAL PRESSURE COEFFICIENT FOR ENCLOSED BUILDINGS IS .18 AND HEIGHT EXPOSURE ADJUSTMENT COEFFICIENT IS 1.0
5. COMPONENTS CLADDING/DESIGN PRESSURE = 34.1, -38.0

# FLOOR PLAN

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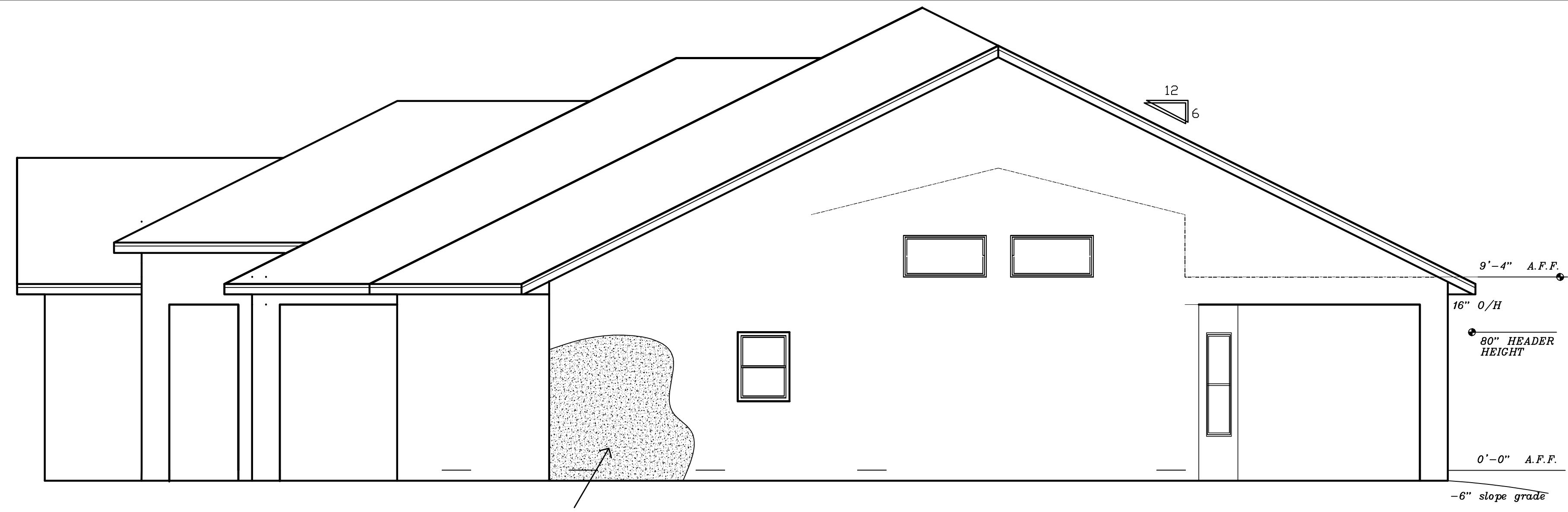
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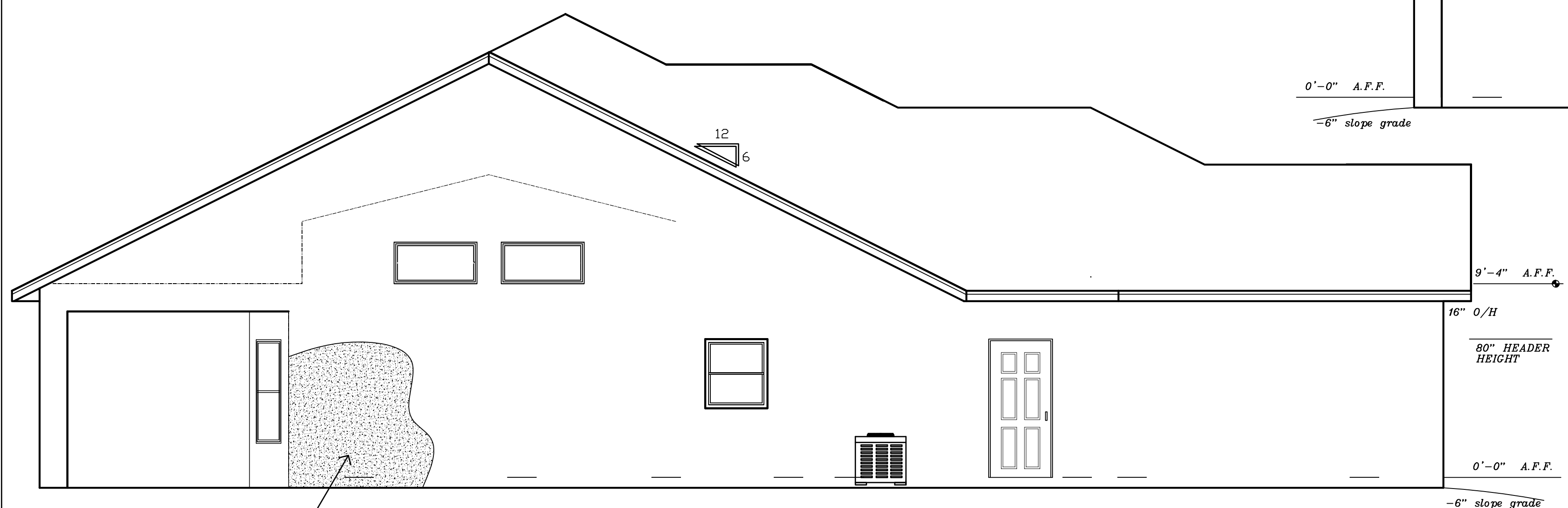
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RIGHT ELEVATION

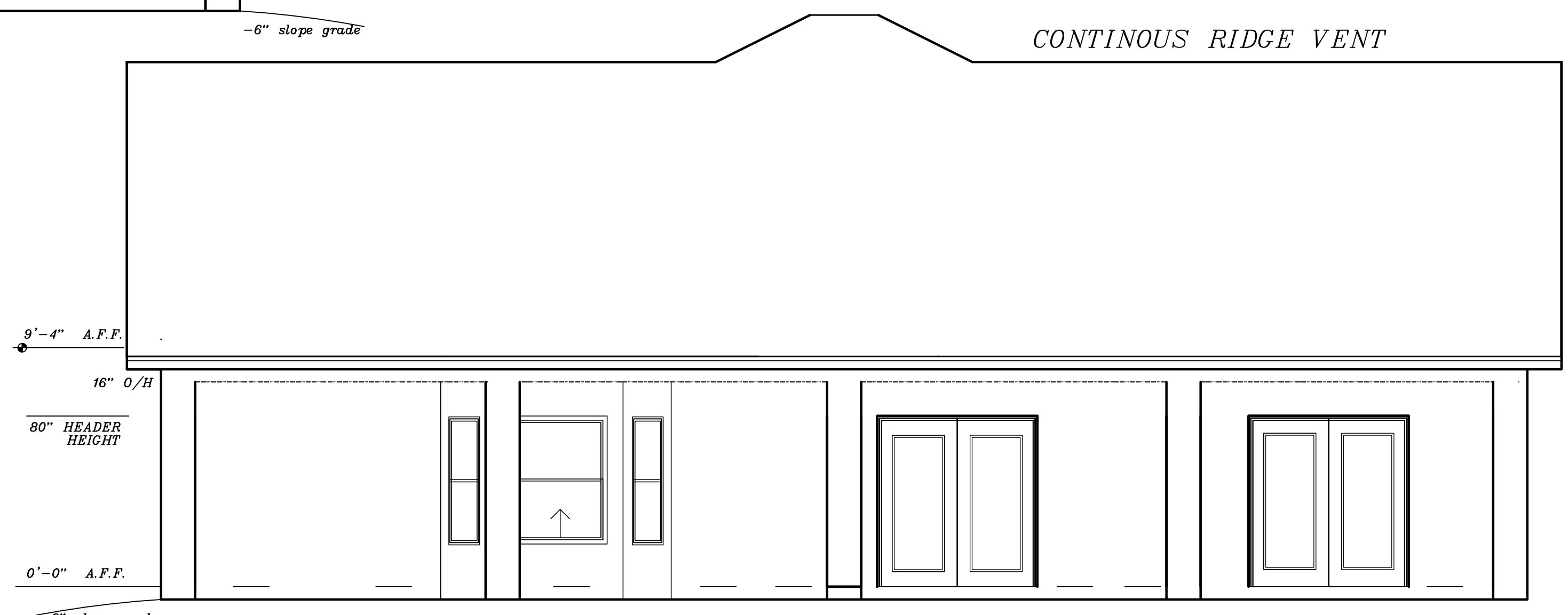
SMOOTH STUCCO FINISH

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1. BASIC WIND SPEED = 135 MPH
  2. WIND EXPOSURE CATEGORY = C
  3. WIND IMPORTANCE FACTOR = 1.0
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  5. COMPONENTS CLADDING/DESIGN PRESSURE = 34.1,-38.0



LEFT ELEVATION

SMOOTH STUCCO FINISH



REAR ELEVATION

CONTINUOUS RIDGE VENT



FRONT ELEVATION

CONTINUOUS RIDGE VENT

ELEVATIONS

<b>Total S/F Roof</b>	Soffit Efficiency = .35	1 S/F Ventilation = 250	Length of Ridge Vents Ft.
<b>3243</b>	Area of Soffit O/H (feet)	Per S/F of roof	<b>50</b>
	<b>1.3</b>		
	<b>Length of vented O/H</b>		
	67		
	53		
	67		
	53		
	0		
	<b>ROOF VENTILATION CALCS</b>		
	Square Ft. of vented soffit	250 * S/F of roof	Sq. FEET OF Ridge vents
	<b>240</b>	<b>S/F of vent needed.</b>	<b>4.2</b>
	<b>84</b>		
	<b>Soffit Efficiency</b>		<b>Vents Efficiency</b>

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 phone: 404 509 8550  
 travis.d.barr@gmail.com

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 For  
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 DELTONA, FL. 32798  
 VOLUSIA CO.

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**FOUNDATION NOTES**

SUBSURFACE INVESTIGATION WAS NOT PERFORMED AND A GEOTECHNICAL ENGINEERING REPORT WAS NOT AVAILABLE FOR FOUNDATION DESIGN OF THIS STRUCTURE. PRIOR TO AND IF DEEMED NECESSARY BY THE OWNER OR LOCAL BUILDING OFFICIAL, THE CONTRACTOR SHALL RETAIN THE SERVICES OF A QUALIFIED GEOTECHNICAL ENGINEER TO PERFORM THE SOIL'S INVESTIGATION AND PROVIDE THE RECOMMENDATIONS FOR FOUNDATION DESIGN.

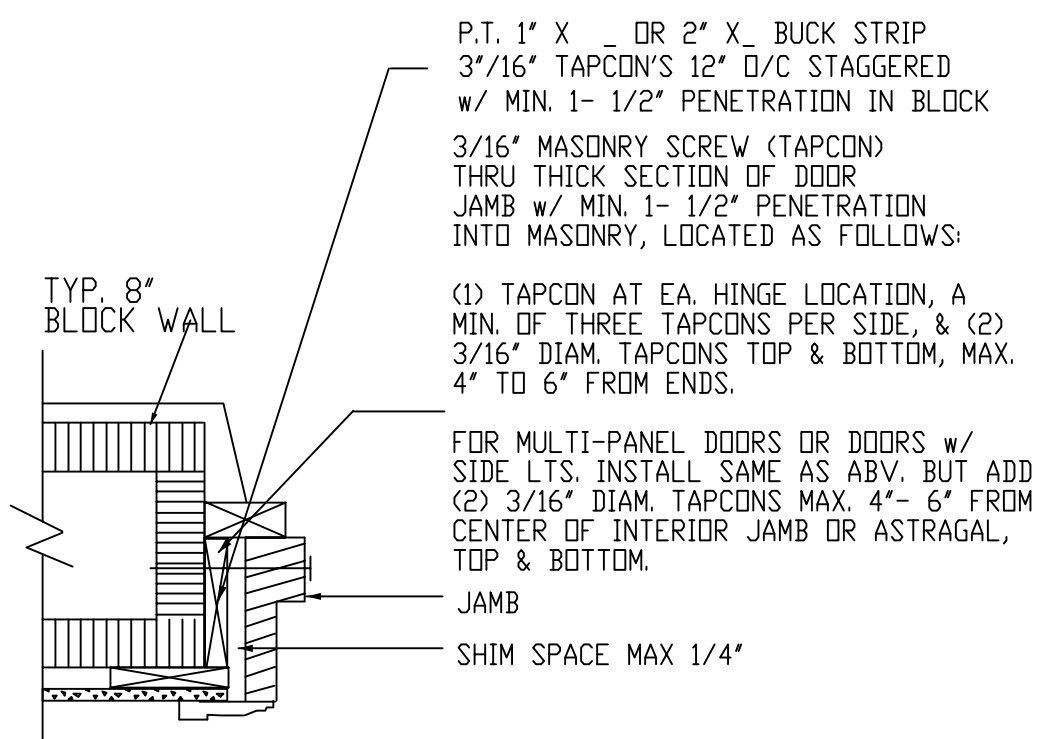
VERIFY LOCATION OF BUILDING AT SITE AND ADJUST CONCRETE FOOTINGS, SLABS, LANDINGS AND STEPS AS GRADE REQUIRES.

FOUNDATION: SEE FOOTING DETAILS FOR SIZE, SHAPE AND REINFORCING OF FOOTINGS. FOUNDATION DESIGN IS BASED UPON THE FOOTINGS BEARING ON UNDISTURBED SANDY GRANULAR SOIL HAVING BEARING PRESSURE CAPACITY OF 2500 PSF. IF FIELD OBSERVATION OR FURTHER TESTING INDICATES DIFFERENT SOIL CONDITION, NOTIFY THE DESIGNER FOR REDESIGN OF FOUNDATION SYSTEM. FOUNDATION SHALL BE CONTINUOUS AROUND ENTIRE BUILDING.

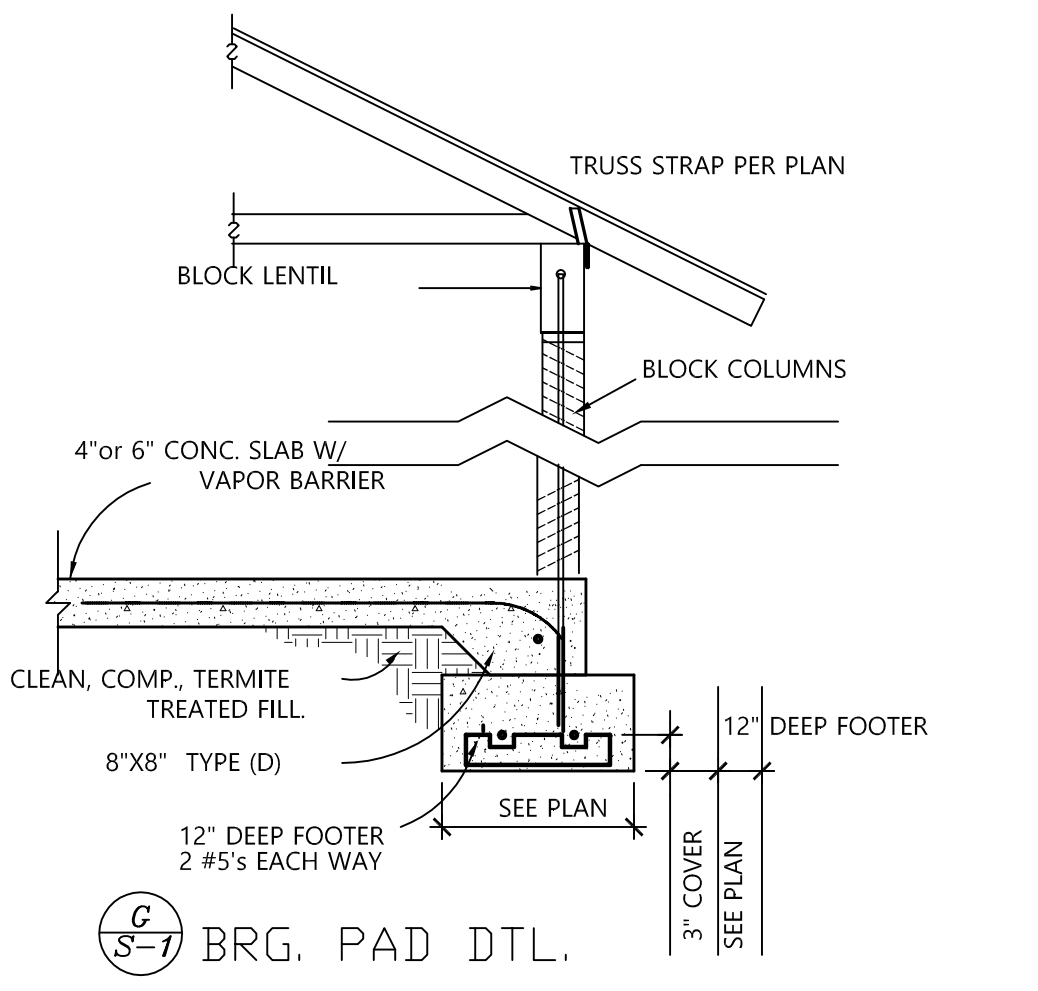
REQUIRED COMPRESSION STRENGTH OF POURED CONCRETE:  
 FOOTINGS: 2500 PSI IN 28 DAYS  
 SLABS: 2500 PSI IN 28 DAYS  
 FILLED CELLS: 3000 PSI IN 28 DAYS  
 COLUMNS: 3000 PSI IN 28 DAYS  
 BEAMS: 3000 PSI IN 28 DAYS

1. THE MINIMUM DISTANCE REINFORCING STEEL MAY BE FROM THE SURFACE OF CONCRETE SHALL BE AS FOLLOWS:  
 3" - WHERE CONCRETE IS PLACED AGAINST THE GROUND.  
 1 1/2" - WHERE CONCRETE IS PLACED AGAINST THE FORMS BUT WILL BE EXPOSED TO GROUND OR WEATHER AFTER FORM REMOVAL.  
 1" - FOR ABOVE GRADE SLABS & WALLS  
 2" - FOR BEAMS AND COLUMNS  
 CONSULT WITH ARCHITECT IF ABOVE CONFLICTS WITH DETAILS.

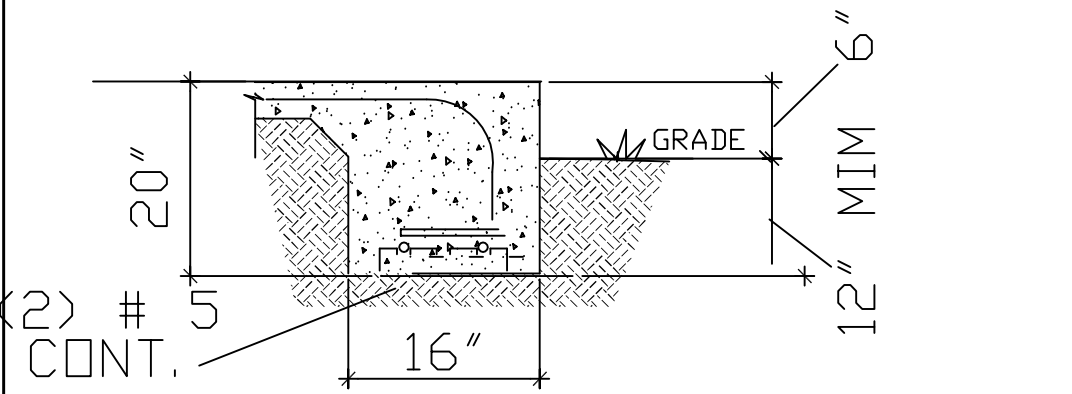
- POUR CONCR. DRIVE SLAB MIN-6" AND SLOPE AWAY FROM BUILDING 1/4" PER FT. OR 1 1/2" (MAX).
- THE BOTTOM OF ALL BEARING FOOTINGS SHALL BE AT LEAST 12" BELOW FINAL GRADE.
- NON-BEARING MONOLITHIC FOOTINGS TO BE 6" DEEP CONCR.
- 4" CONCRETE SLAB W/FIBERMESH OVER 6 MIL VAPOR BARRIER OVER COMPACTED, TERMITED TREATED FILL. (TYPICAL ALL SLABS). USE INDUSTRY STANDARDS TO KEEP SLAB WET DURING CURING PROCESS.
- POUR ALL CONCR. STOODS MIN. -4" W/ FINISH FLOOR AT DOORS AND SLOPE AWAY FROM BUILDING 1" (MAX) OR 1/4" PER FT.
- SOIL BEARING CAPACITY SHALL BE 2000# P.S.F.



**MAS. WALL EXT. DOOR JAMB**  
SCALE: N.T.S.

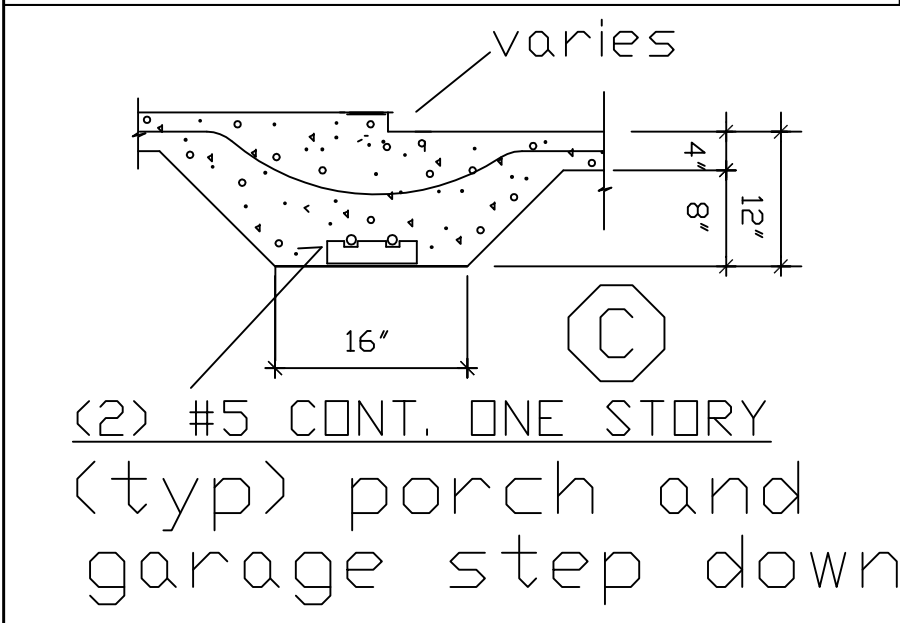


**BRG. PAD DTL.**

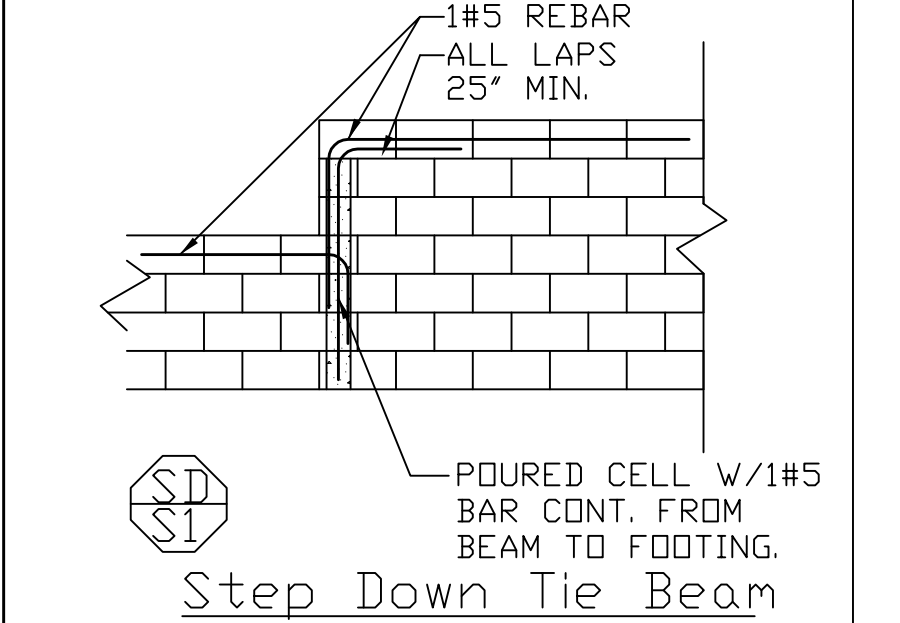


**\* MONOLITHIC FOOTER**

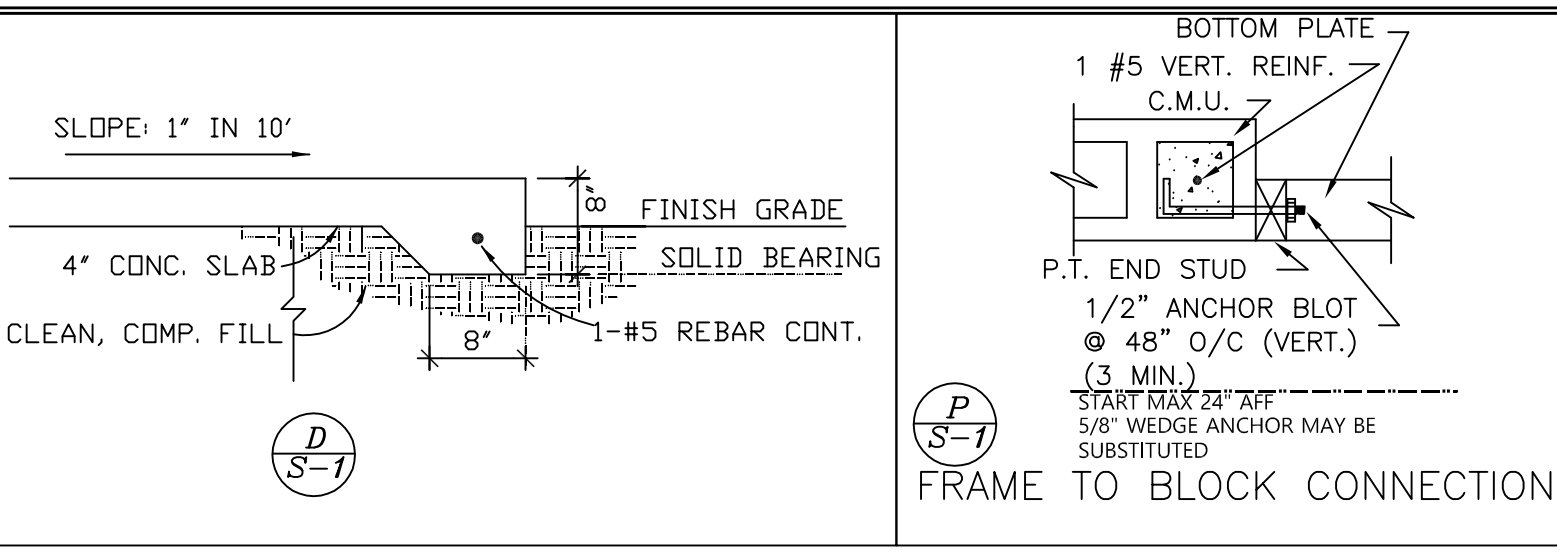
THE FOLLOWING CRITERIA MUST BE MET:  
 ROD SIZE #5 CONCR. HOLE SIZE 3/4" MIN HOLE DEPTH 5"  
 AFTER HOLE IS DRILLED ALL CONCRETE DUST MUST BE REMOVED PRIOR TO EPOXY INSTALLATION. REBAR ROD TO BE MIN. A36 STEEL AND FREE OF OIL AND GREASE. LOAD ON ROD CANNOT BE APPLIED UNTIL 12 HOURS AFTER INSTALLATION. 2 COMPONENT EPOXY RESIN TO BE MIXED PER MFG. DIRECTIONS.



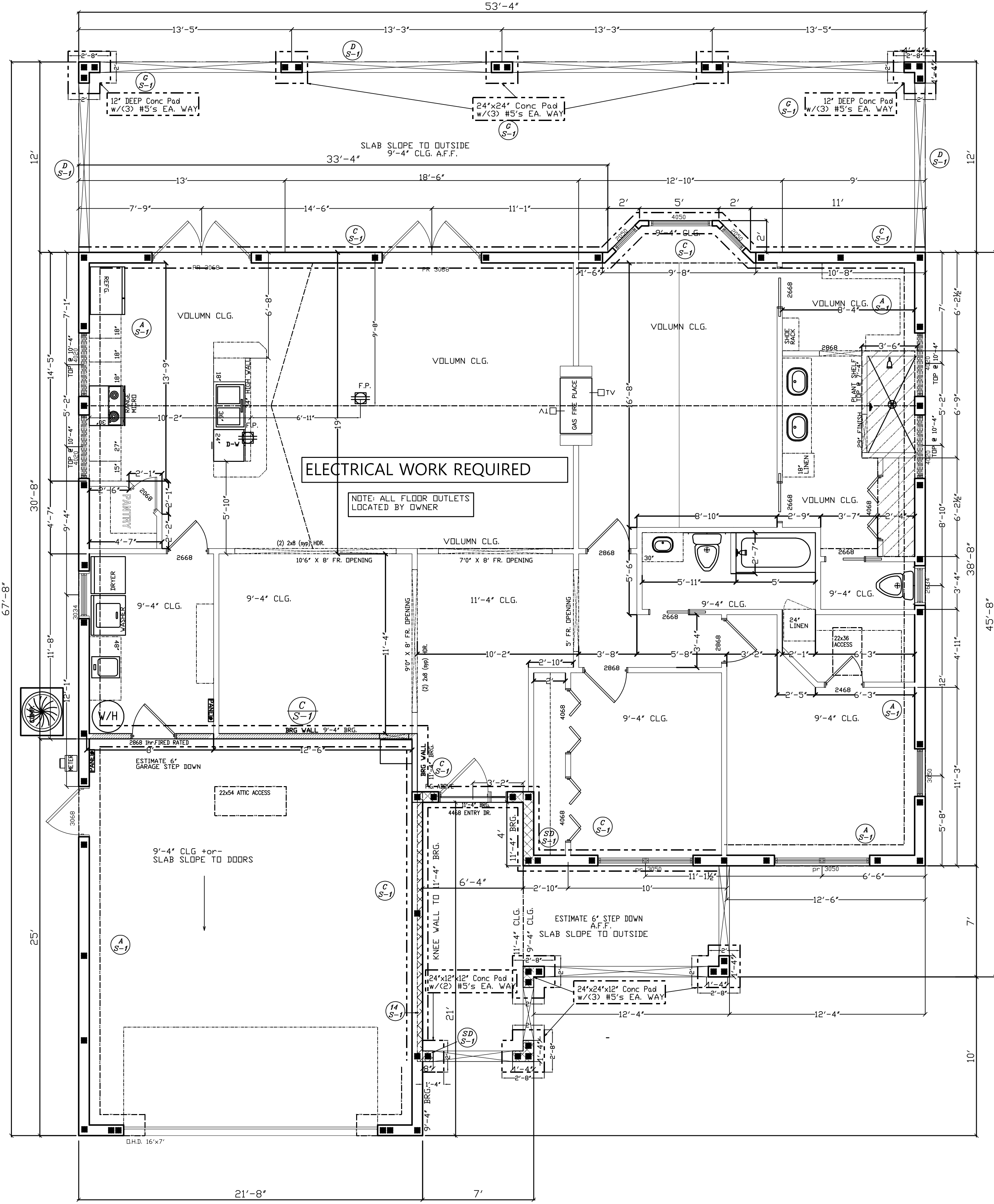
**(2) #5 CONT. ONE STORY (typ) porch and garage step down**



**Step Down Tie Beam**



**FRAME TO BLOCK CONNECTION**



**ELECTRICAL WORK REQUIRED**

NOTE: ALL FLOOR OUTLETS LOCATED BY OWNER

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 1. BASIC WIND SPEED = 110  
 2. WIND IMPORTANCE FACTOR = 1.0  
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 4. INTERNAL PRESSURE COEFFICIENT FOR ENCLOSED BUILDINGS IS .18 AND HEIGHT EXPOSURE ADJUSTMENT COEFFICIENT IS 1.0  
 5. COMPONENTS CLADDING/DESIGN PRESSURE = 34.1-38.0

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Custom Home For  
**LOT 4 SHIPROCK**  
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 VOLUSIA CO.

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**FOUNDATION**

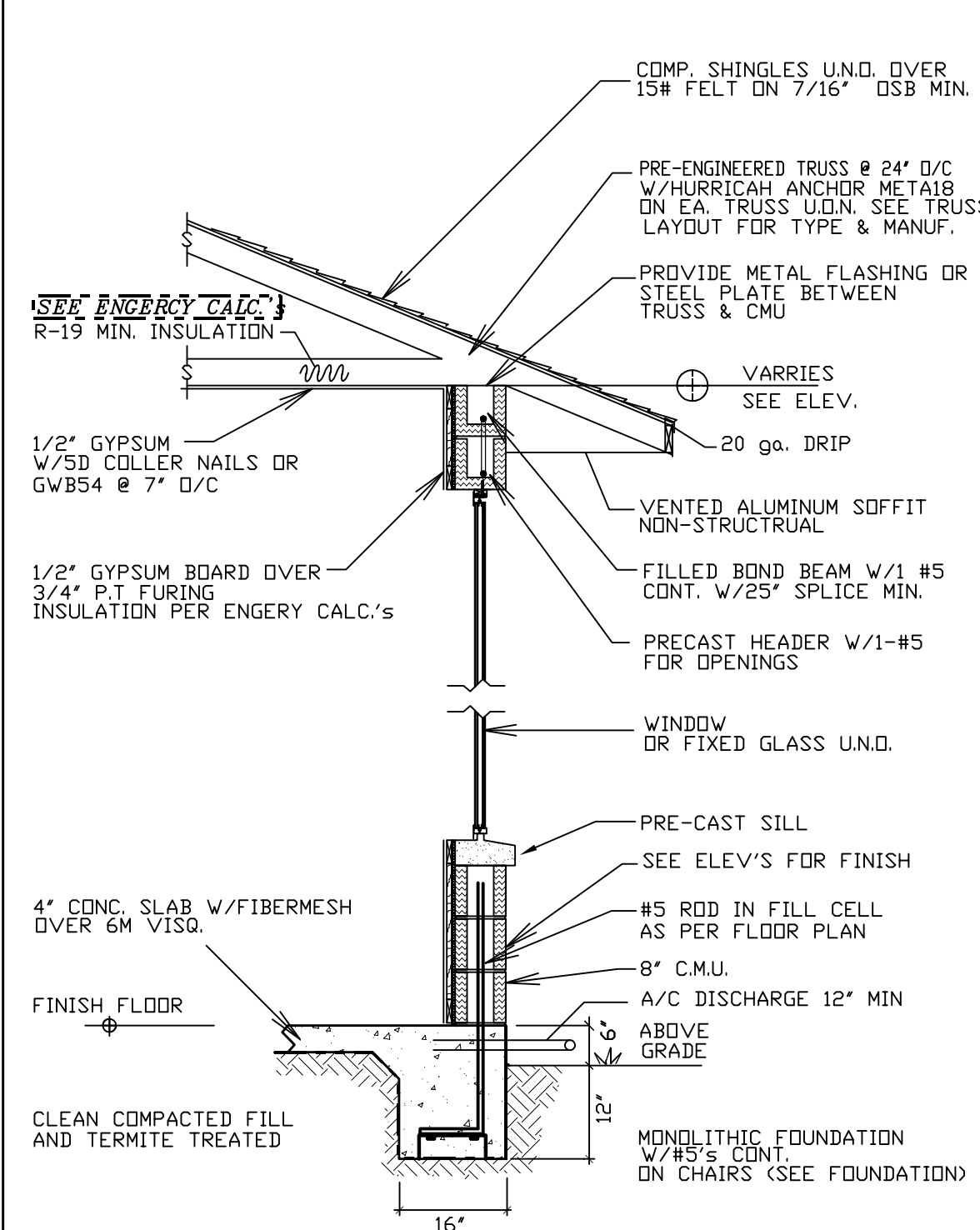
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**S-1**

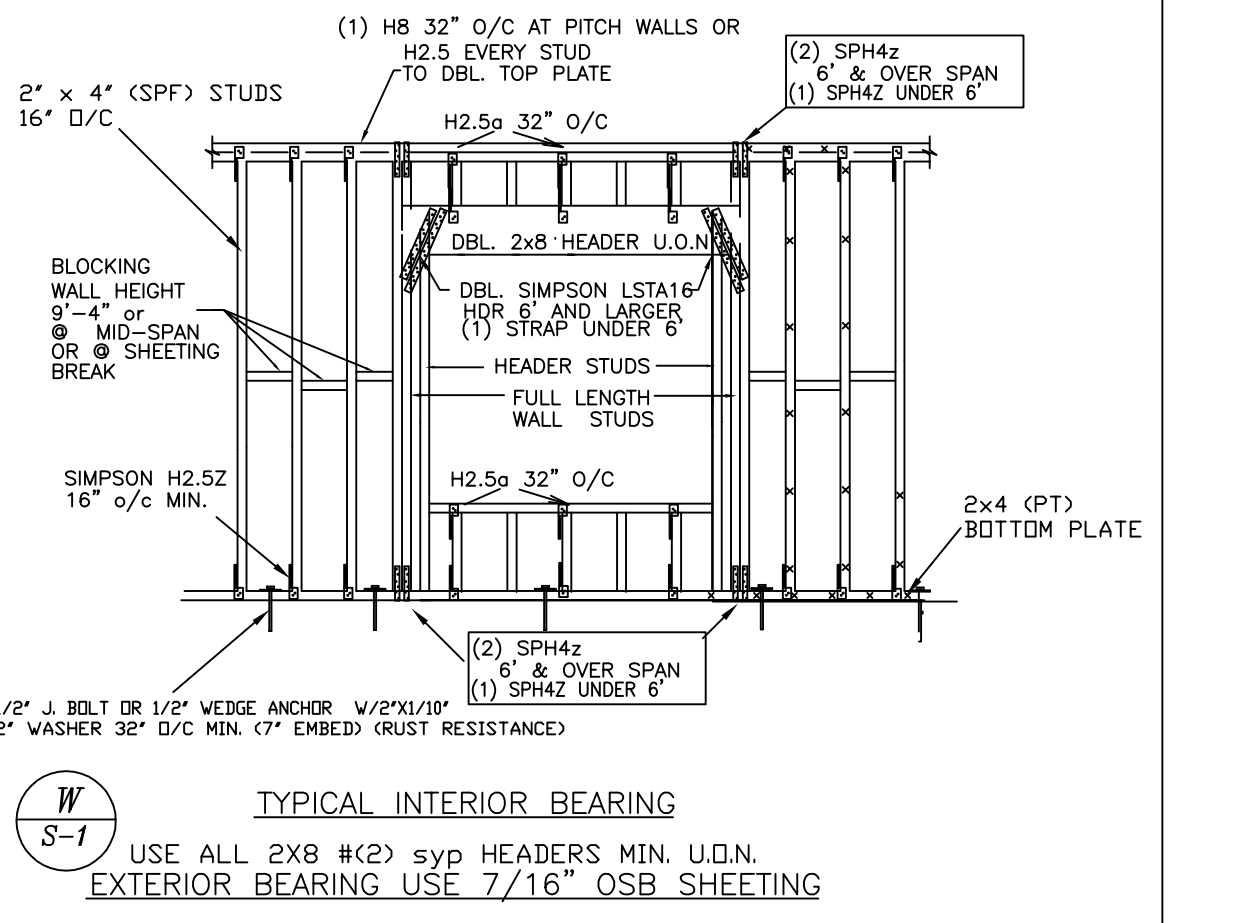
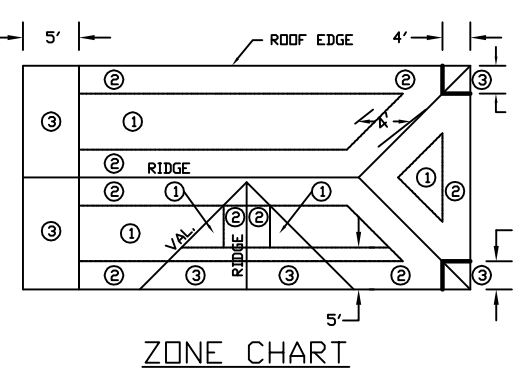
**FOUNDATION PLAN**

SCALE: 1/4"=1'

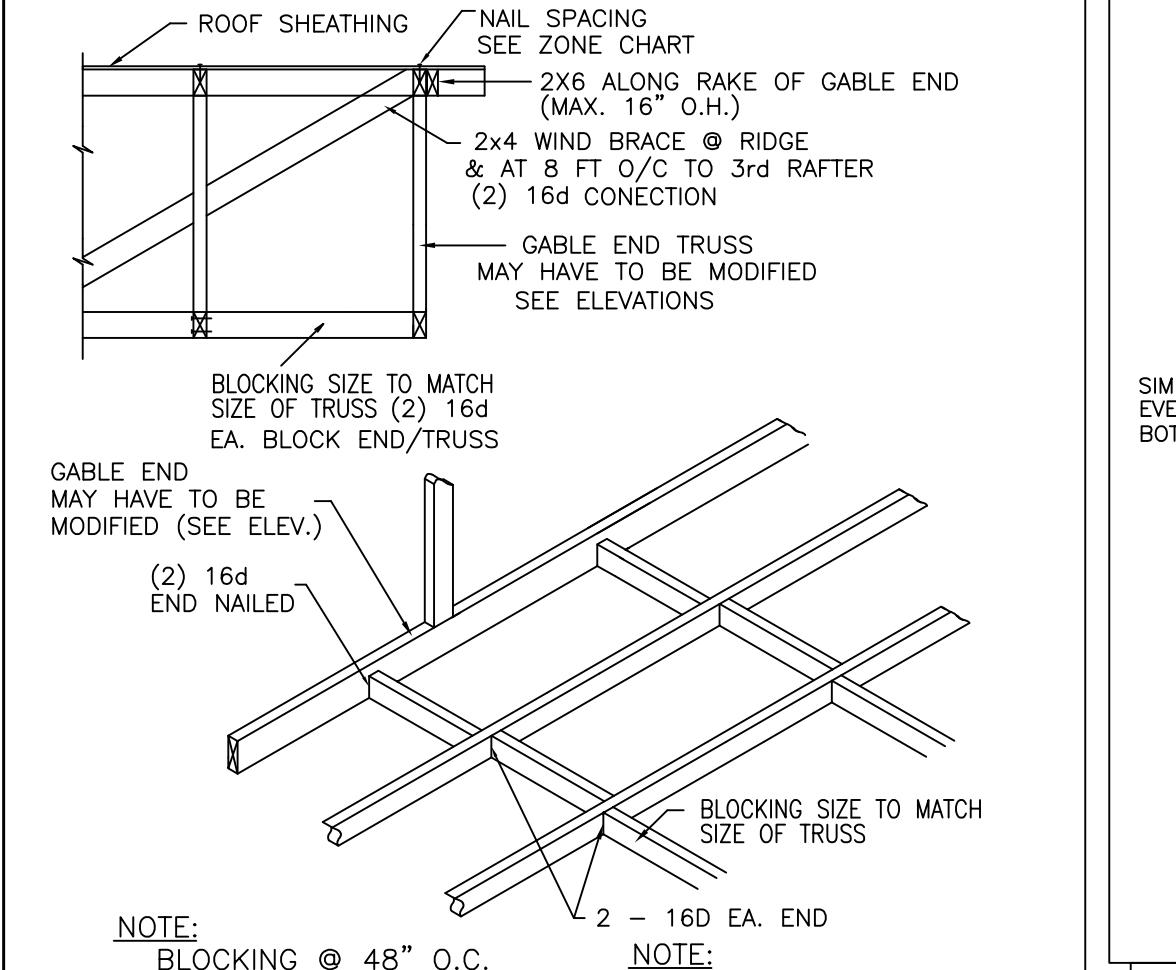


ADDED 8" BLOCK WALL SECT. MONOLITHIC FTG. (S-1)

- NOTES:**
- TRUSSES MUST BE CAPABLE OF TRANSFERRING LATERAL LOADS TO BEARING WALLS.
  - TRUSSES, GIRDERS, AND BEAM TIE DOWNS TO BE SIZED PER TRUSS MANUFACTURERS UPLIFT CALCULATIONS. ANY QUESTIONS AS TO THE SIZE, TYPE, OR VALUE OF A NAIL, STRAP OR CLIP SHOULD BE VERIFIED BY THE STRUCTURAL ENGINEER.
  - HEADER STUD REQUIREMENT**
    - HEADER STUDS (EACH SIDE) 1'-6" TO 6'-0"
    - HEADER STUDS (EACH SIDE) 6'-0" TO 12'-0"
    - HEADER STUDS (EACH SIDE) 12'-0" TO 18'-0"
  - BEARING WALL NAIL PATTERN:**
    - PLYWOOD: (FIELD) USE 8D NAILS @ 6" O/C
    - DIR. I.S.B. (EDGE) USE 8D NAILS @ 4" O/C
    - GYPSUM: (FIELD) USE 5D NAILS @ 7" O/C
    - (EDGE) USE 5D NAILS @ 7" O/C
  - ROOF NAILING PATTERN: PLYWD OR OSB**
    - ZONE 1 - USE 8D RING SHANK NAILS @ 6" O/C
    - ZONE 2 - USE 8D RING SHANK NAILS @ 6" O/C
    - ZONE 3 - USE 8D RING SHANK NAILS @ 6" O/C
  - 1/2" GYPSUM CEILING: USE 5D NAILS @ 7" O/C
  - SENCO 2 1/4" X 131 & PASSELODE 2 1/4" X .099 PNEUMATIC RING SHANK NAILS MAY BE USED IN LIEU OF 8D COMMON NAILS. NAILED @ 4" O.C. EDGES & @ 6" O.C. FIELD
  - ALL INTERIOR LOAD BEARING WALLS TO BE 2X4 #2 SPF @ 16" O.C. UP TO 14'-0" HGT. INTERIOR LOAD BEARING WALLS ABOVE 14'-0" TO BE 2X6 #2 SPF @ 16" O.C. UNLESS OTHERWISE NOTED.
  - NAILING REQUIREMENTS ARE IN ADDITION TO STRAPPING REQUIREMENTS.

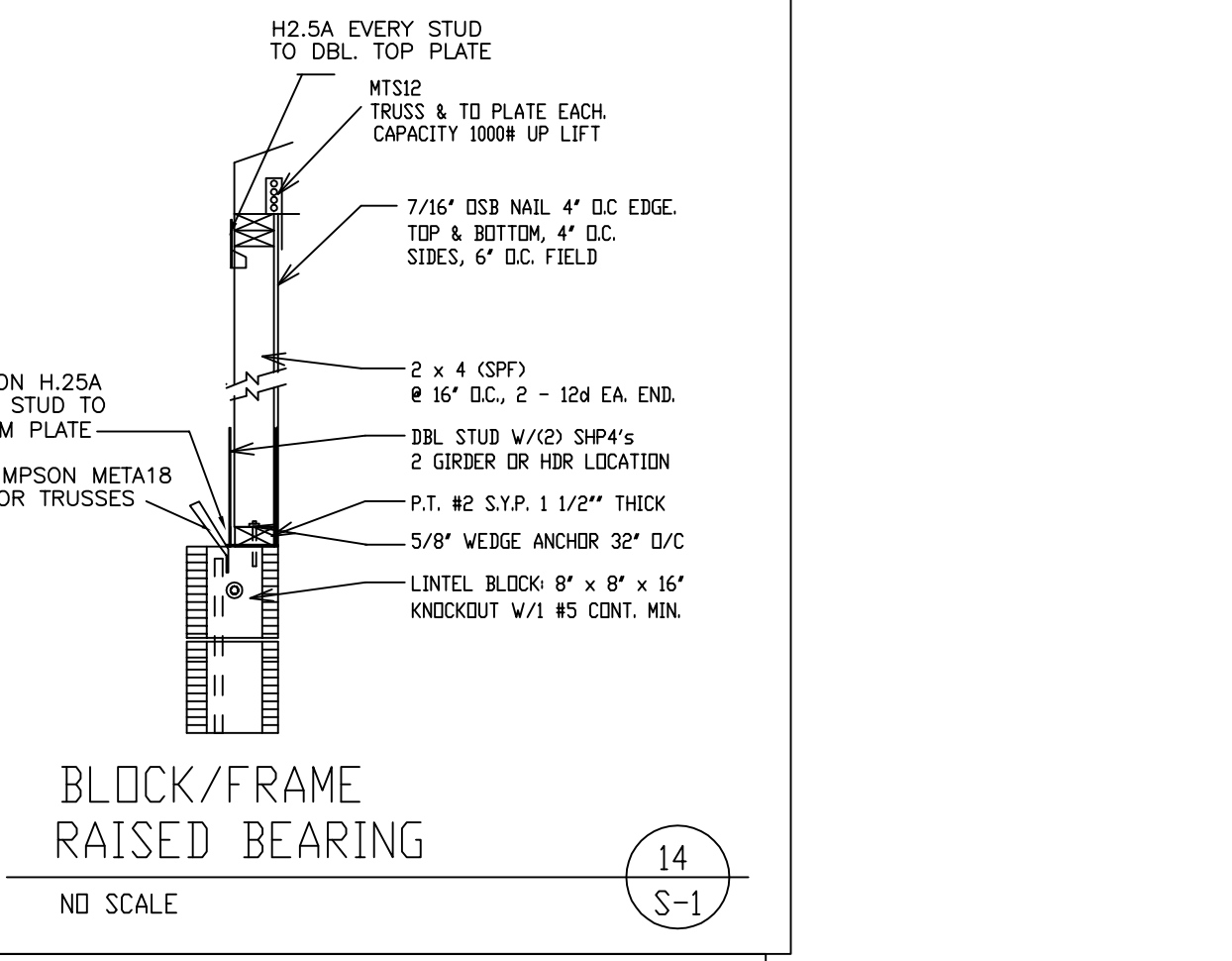


USE ALL 2X8 #2 SYP HEADERS MIN. U.D.N. EXTERIOR BEARING USE 7/16" OSB SHEATHING

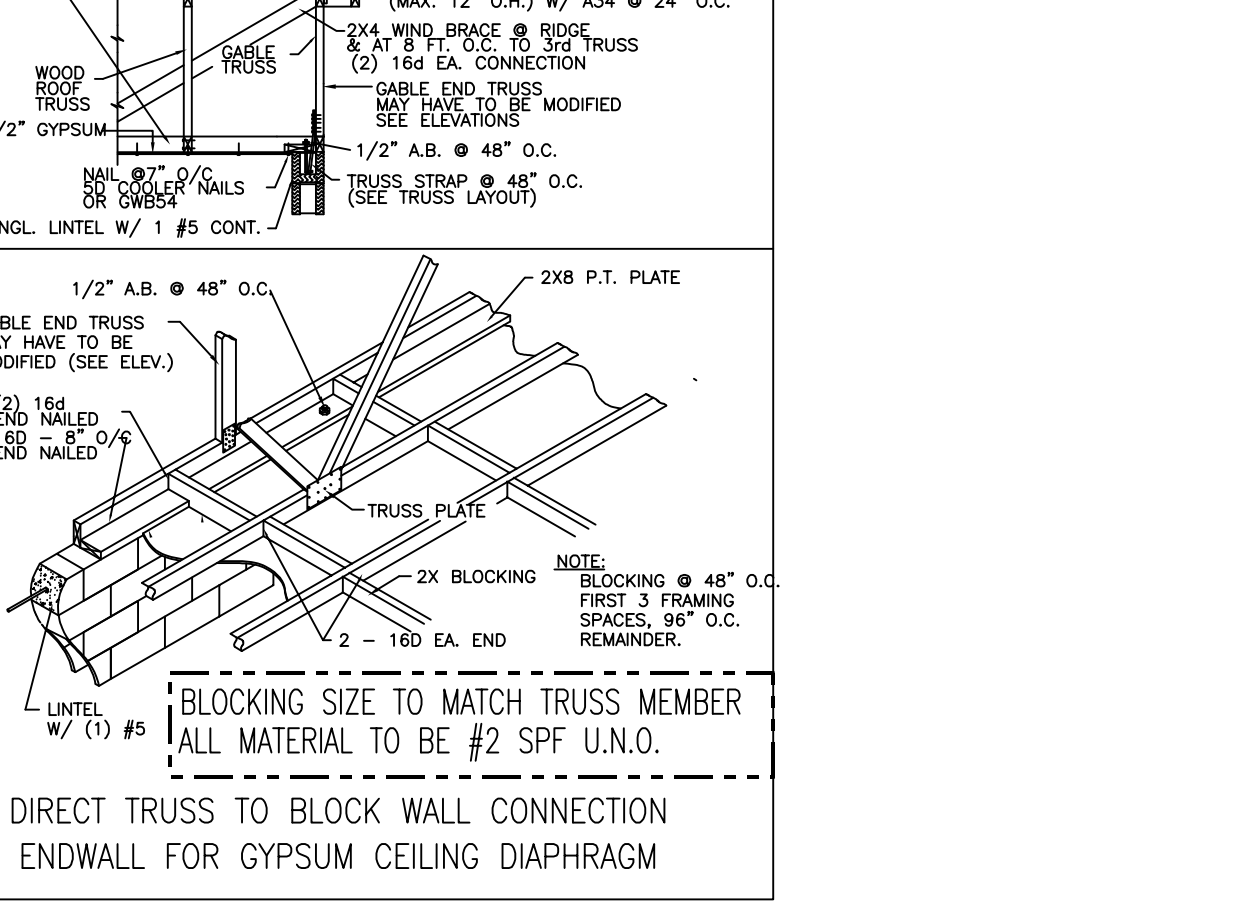


NOTE: BLOCKING @ 48" O.C. FIRST 3 FRAMING SPACES, 96" O.C. REMAINDER.

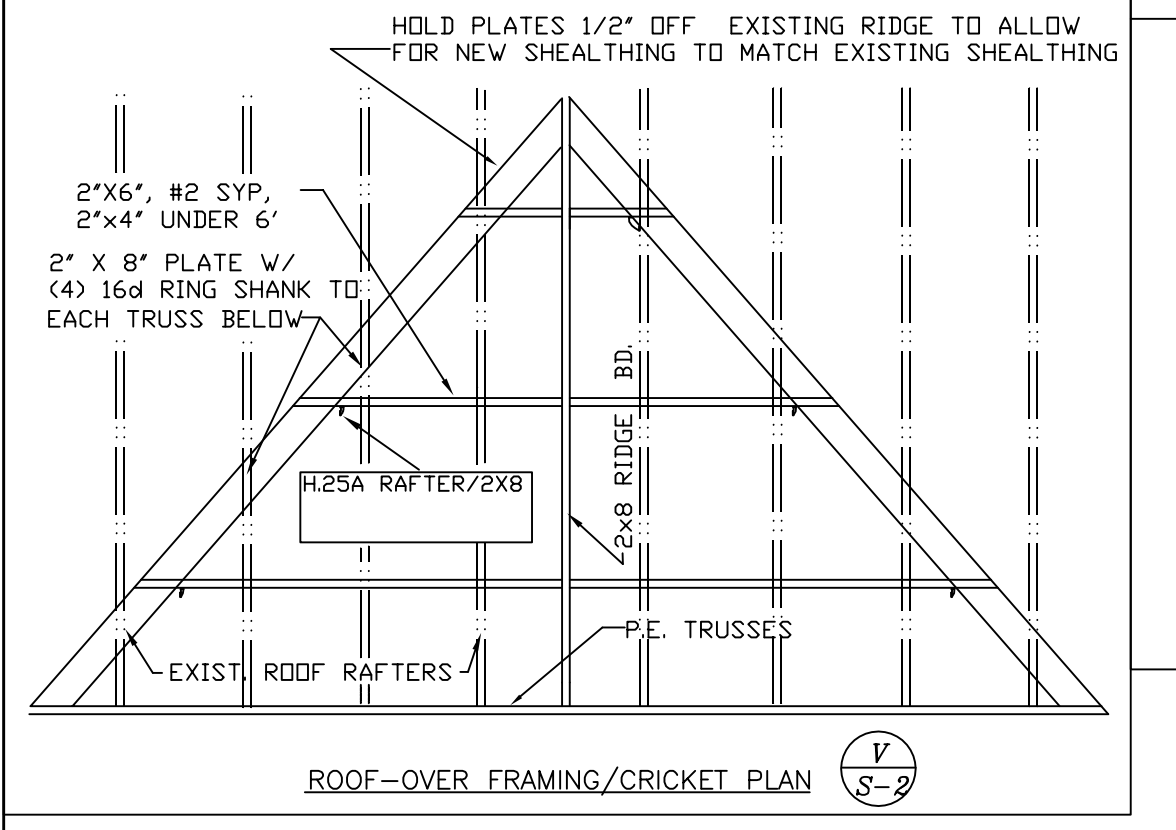
4 S-2 BLOCKING SIZE TO MATCH TRUSS MEMBER ALL MATERIAL TO BE #2 SPF U.N.O. DIRECT TRUSS TO WOOD FRAME CONNECTION GABLE END DETAIL



NO SCALE 14 S-1

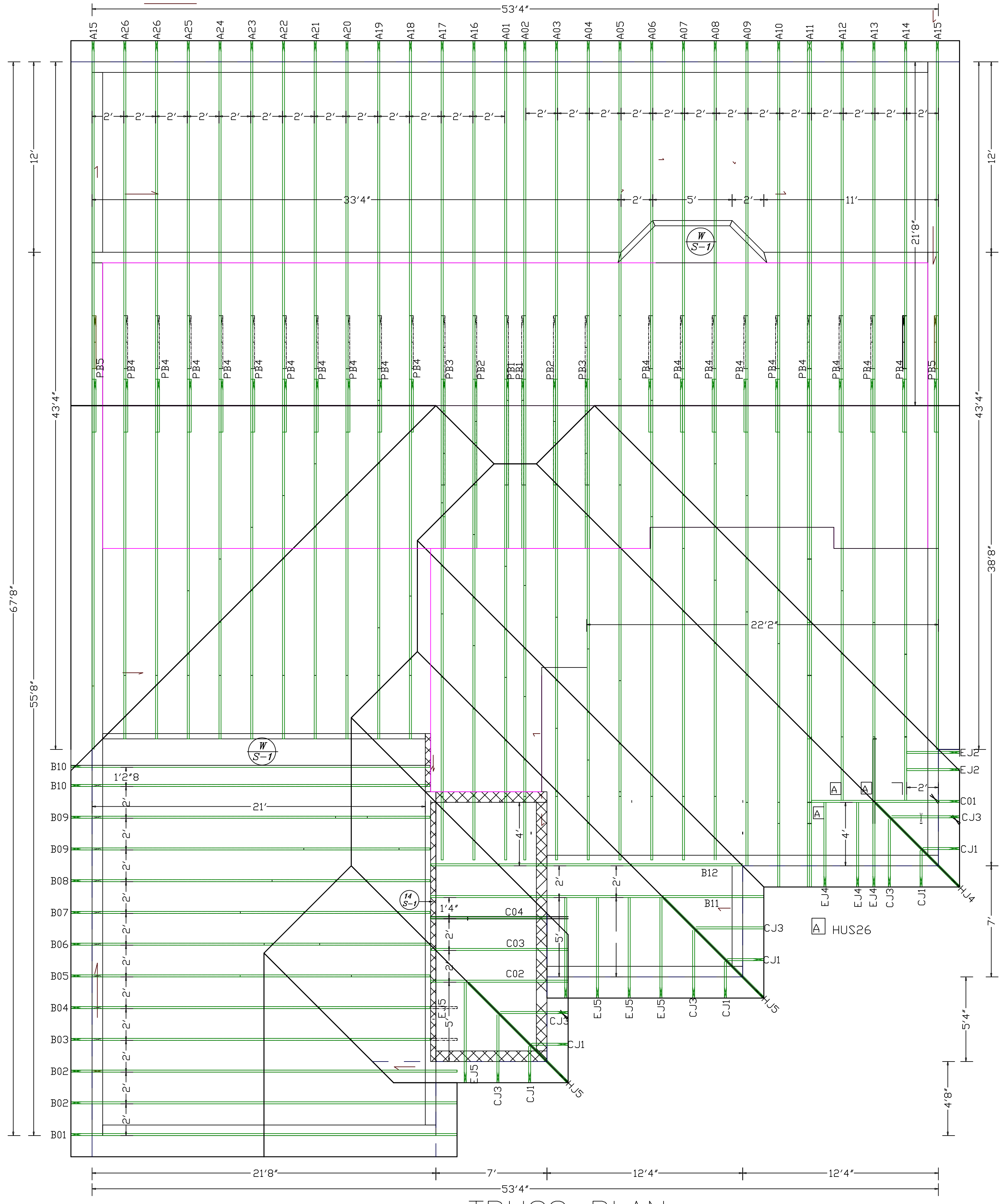


5 S-2 HOLD PLATES 1/2" OFF EXISTING RIDGE TO ALLOW FOR NEW SHEATHING TO MATCH EXISTING SHEATHING



ROOF-OVER FRAMING/CRICKET PLAN 5 S-2

\* USE SIMPSON MTS12 (-1000) FOR ALL WOOD TO TRUSS (U.N.O.)  
 \* USE SIMPSON META18 (-1450) FOR ALL BLOCK TO TRUSS (U.N.O.)  
 CONNECTIONS (U.N.O.) SEE MANUF. TRUSS LAYOUT TRUSS/TRUSS CONNECTIONS BY MANF.



TRUSS PLAN  
 SEE FINAL LAYOUT FROM MANF.

NOTE: THIS RESIDENTIAL STRUCTURE HAS BEEN DESIGNED TO EXCEED THE WIND LOADS OF THE FLORIDA BUILDING CODE 607-6TH EDITION.  
 1. BASIC WIND SPEED: 150 MPH  
 2. WIND IMPORTANCE FACTOR: I=1.0  
 3. WIND EXPOSURE CATEGORY: C  
 4. INTERNAL PRESSURE COEFFICIENT FOR ENCLOSED BUILDINGS IS .18 AND HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENT IS 1.0  
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TRUSS LAYOUT

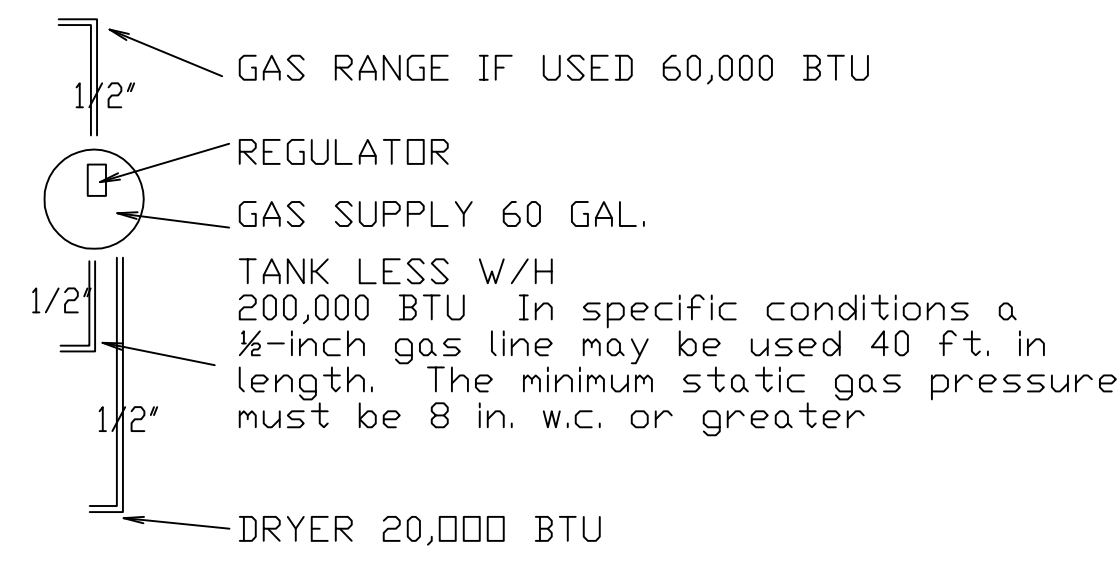
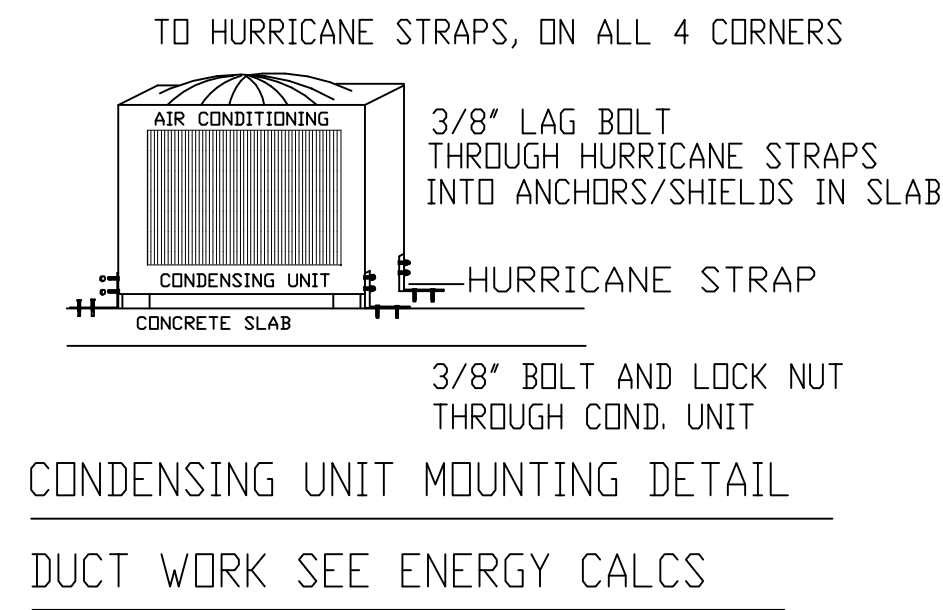
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S-2

SCALE: 1/4"=1'





THIS DIAGRAMMATIC PLAN IS INTENDED TO SHOW LIGHTING AND CONVENIENCE OUTLETS ONLY. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO VERIFY THE REQUIREMENTS AND LOCATIONS OF ALL ELECTRICAL EQUIPMENT AND PROVIDE AND INSTALL COMPLETE ELECTRICAL SERVICE AS REQUIRED. ELECTRICAL CONTRACTOR TO SUBMIT ELECTRICAL PLAN AND PULL PERMIT AS REQUIRED.

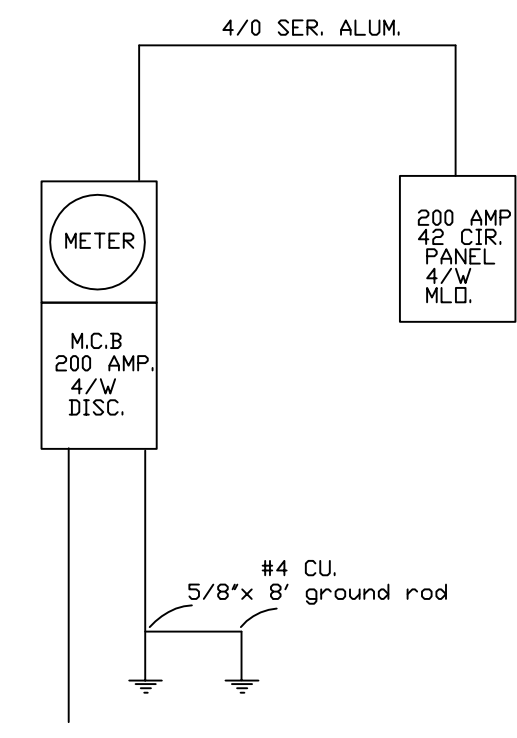
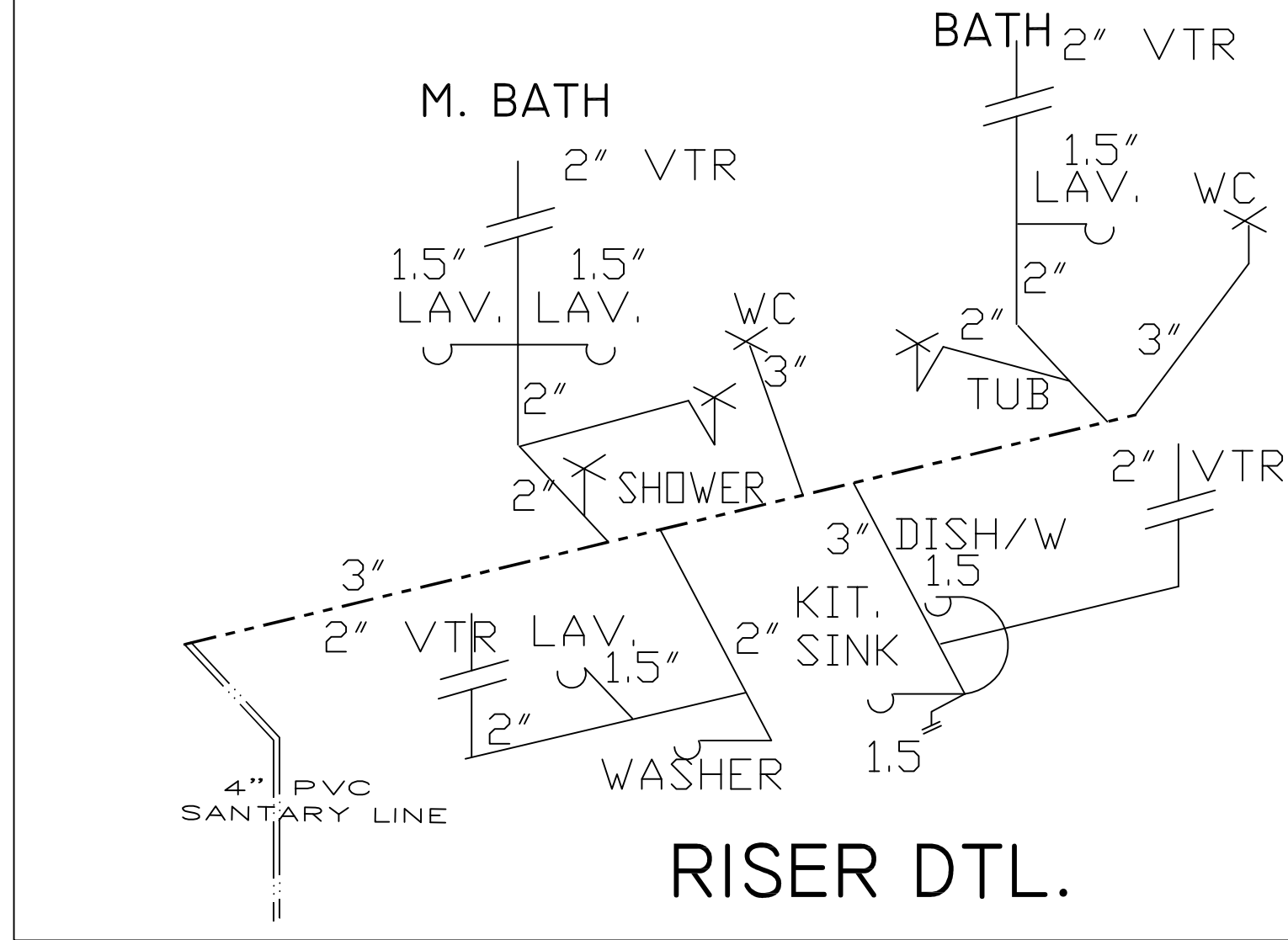
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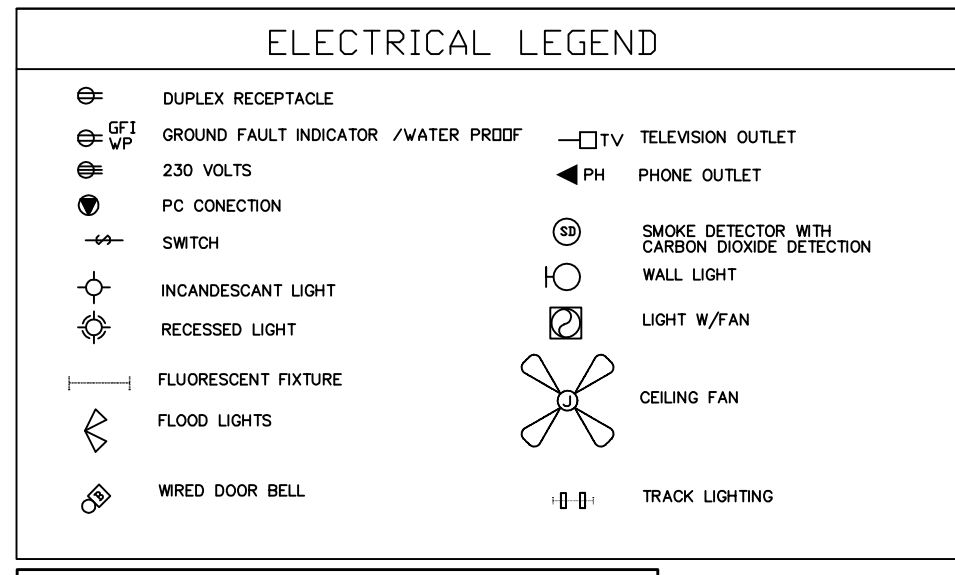
**BUILDER**  
 T.D. BARR CONSTRUCTION  
 phone: 404 509 8550  
 travis.d.barr@gmail.com

Custom Home For  
 LOT 4 SHIPROCK  
 DELTONA, FL. 32798  
 VOLUSIA CO.

Drawn by: Dennis Hennig  
 2611 FRONTIER DR.  
 TUSCALOOSA, FL. 32796  
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 dennis@edrafting.com  
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ELECTRICAL RISER DIAGRAM  
 200 AMP. SER.  
 NOTE: ELECTRICAL MATERIALS AND INSTALLATIONS SHALL COMPLY W/APPLICABLE PROVISIONS OF THE NATIONAL ELEC. CODE, LOCAL CODES, AND THE LOCAL POWER CO.

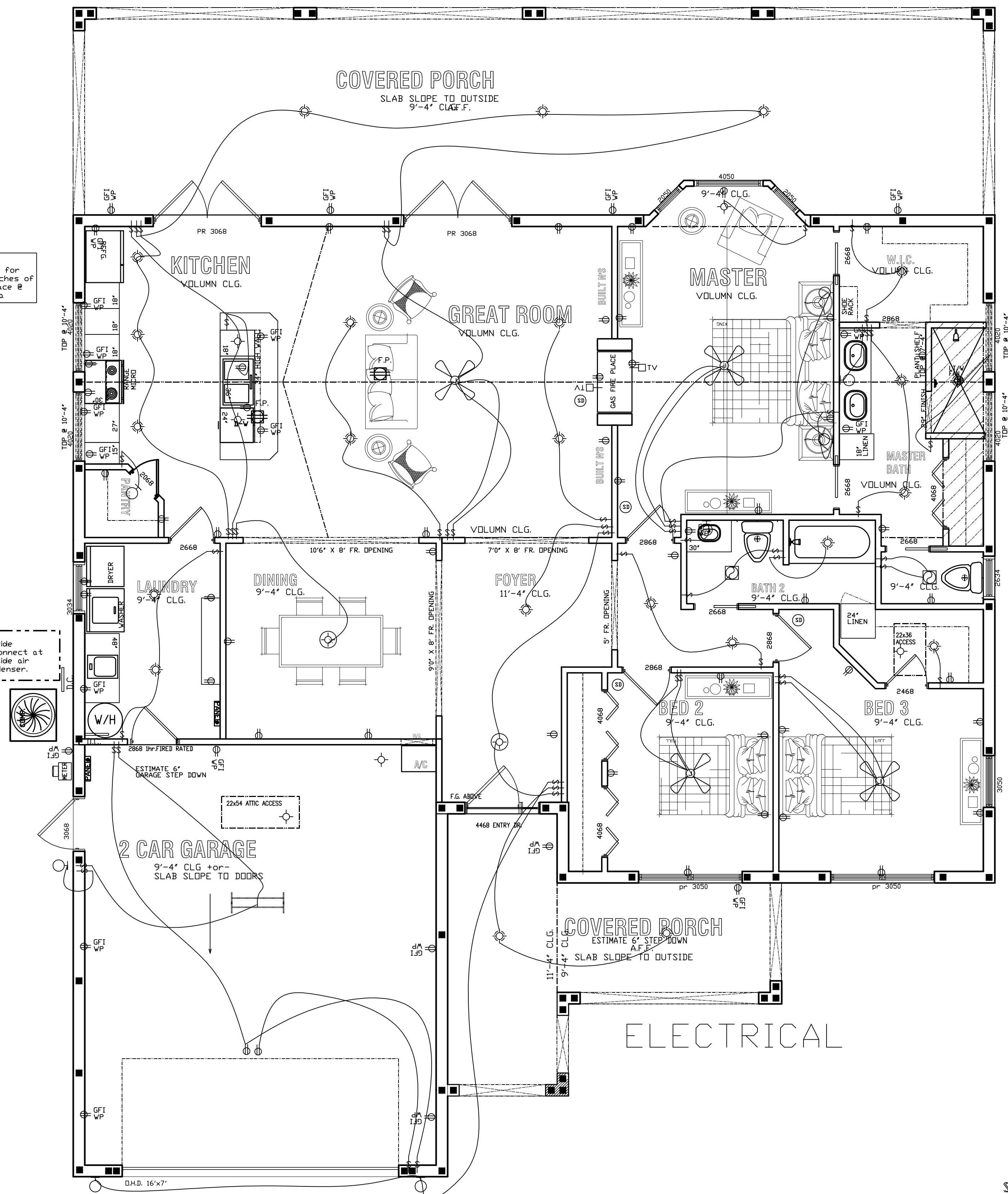


Provide AFCI circuits where required by NEC, 2016  
 Provide tamper resistant receptacles as required

SINGLE FAMILY DWELLING UNIT- LOAD CALCULATION				
			LOAD	
		Living Area	1880.00 Sq Ft	5640.00 VA
2.00	Kitchen	Appliance at 1500	VA	3000.00 VA
	Laundry	Circuit at 1500	VA	1500.00 VA
				10140.00
		1st 3000va @ 100 %		3000.00
		Next 11700va @ 35 %		7140.00
		Remained @ 25 %		0.00
		<b>Total General Load less Demand</b>		<b>5499.00 VA</b>
		<b>Fastened In place Appliance Load</b>		
		Dishwasher	1200.00	1200.00
		Disposal	1000.00	1000.00
		W/H	4800.00	4800.00
		Tankless W/H	12000.00	0.00
		Microwave	1000.00	1000.00
		Central Vac	1350.00	0.00
		Jacuzzi	1500.00	0.00
		Paddle fans	700.00	2800.00
		<b>Dryer Neutral Load (70%)</b>		<b>3500.00</b>
		<b>Total Load</b>		<b>14799.00</b>
		<b>Neutral Amps</b>		<b>61.66 Amps</b>
		<b>Sum less 75% Demand</b>	10800.00	<b>8100.00 VA</b>
		Dryer (Nameplate or 5kVA)		<b>5000.00 VA</b>
		Household Electric Range	10000.00	<b>8000.00 VA</b>
		Heating	8000.00 VA at 85 %	<b>5200.00 VA</b>
		Largest Motor Load	0.25 1000.00	<b>250.00 VA</b>
		<b>Total Computed Load</b>		<b>32049.00 VA</b>
		<b>Compute Amps</b>		<b>134 Amps</b>

Note: receptacles for every 24 inches of counter space & kitchen area

Provide disconnect at outside air condenser.



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SCALE: 1/4"=1'