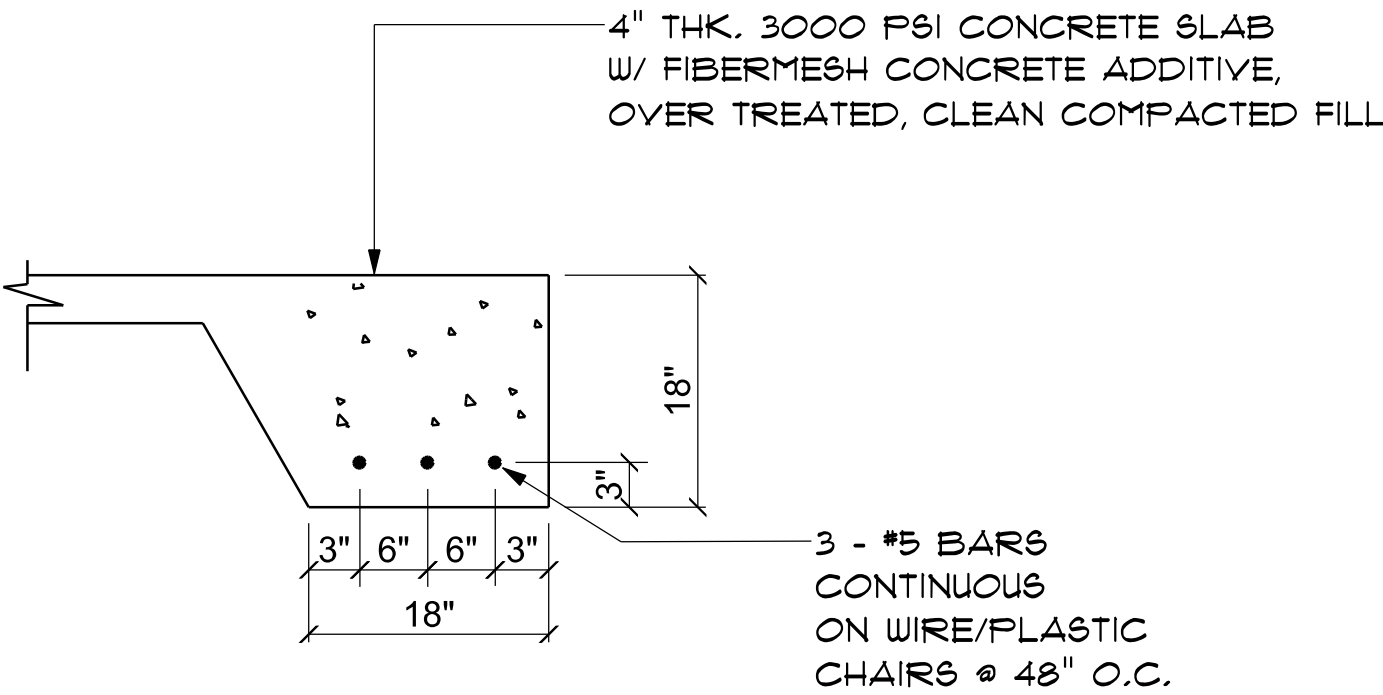


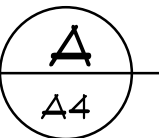
CONCRETE / MASONRY /  
METALS GENERAL NOTES:

- DESIGN SOIL BEARING PRESSURE: 1500 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 40 AND MEET THE REQUIREMENTS OF ASTM A615, ALL BENDS SHALL BE MADE COLD.
- WELDED WIRE MESH SLAB REINFORCING SHALL MEET THE REQUIREMENTS OF ASTM A105 - 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 I OR A325, AS PER PLAN REQUIREMENTS.
- WELDS SHALL BE AS PER "AMERICAN WELDING SOCIETY" STANDARDS FOR STRUCTURAL STEEL APPLICATIONS.



SECTION

SCALE: not to scale

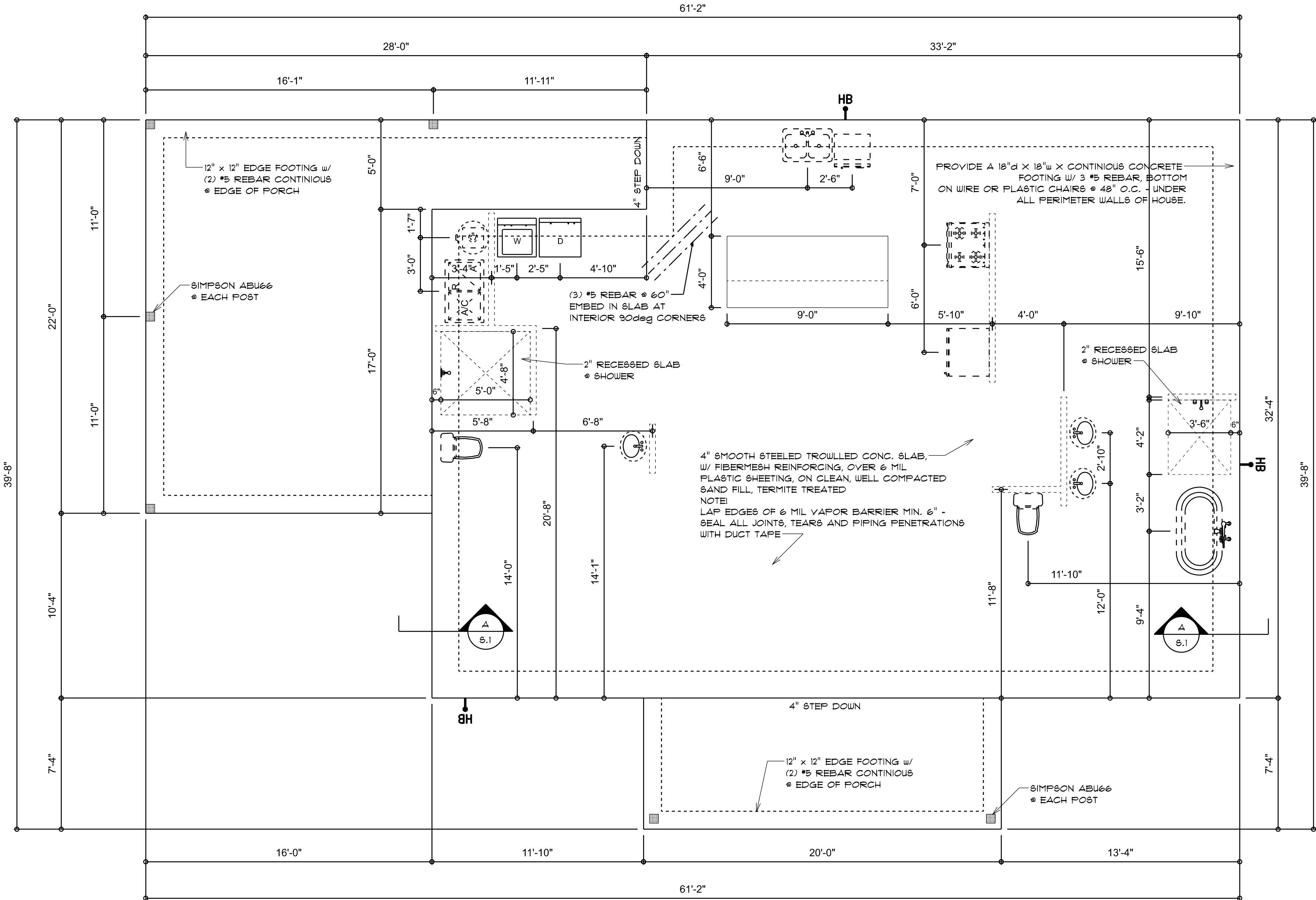


NOTE:  
THE DESIGN WIND SPEED FOR THIS  
PROJECT IS 130 MPH PER FBC 1609  
AND LOCAL JURISDICTION REQUIREMENTS

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

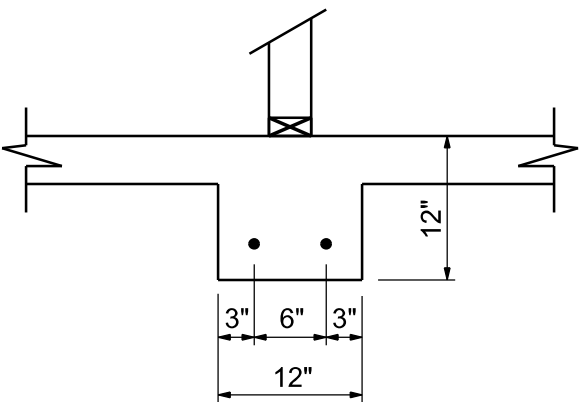
NOTE:  
PROVIDE A MINIMUM OF TWO OPENINGS HAVING A TOTAL NET AREA  
OF NOT LESS THAN ONE SQUARE INCH FOR EVERY SQUARE FOOT OF  
ENCLOSED AREA SUBJECT TO FLOODING

NOTE:  
THE PROJECT IS DESIGNED IN ACCORDANCE WITH ASCE 24



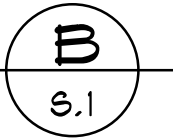
FOUNDATION PLAN

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



INTERIOR  
BEARING FT'G

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



NOTE:  
VERIFY INTERIOR BEARING WALLS WITH  
TRUSS MANUFACTURE DRAWINGS! USE DETAIL  
"B" THIS PAGE AT ALL INTERIOR BEARING LOC.

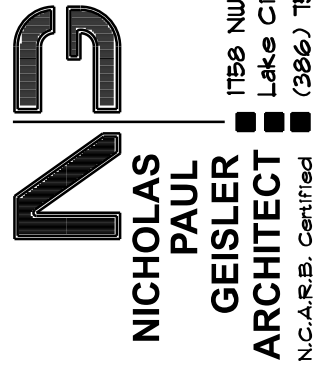
| REVISIONS      |
|----------------|
| Mar. 9th, 2023 |
|                |
|                |
|                |



LITTLE RESIDENCE

153 SW HOLLY GLN, LAKE CITY, FL 32024

CUSTOM HOME FOR:



SHEET NUMBER

S.1

OF 4 SHEETS

Nicholas  
P. Geisler

Digitally signed by: Nicholas P. Geisler  
DN: CN = Nicholas P. Geisler email =  
npgisler47@gmail.com C = US  
Date: 2023.03.16 11:33:30 -05'00'

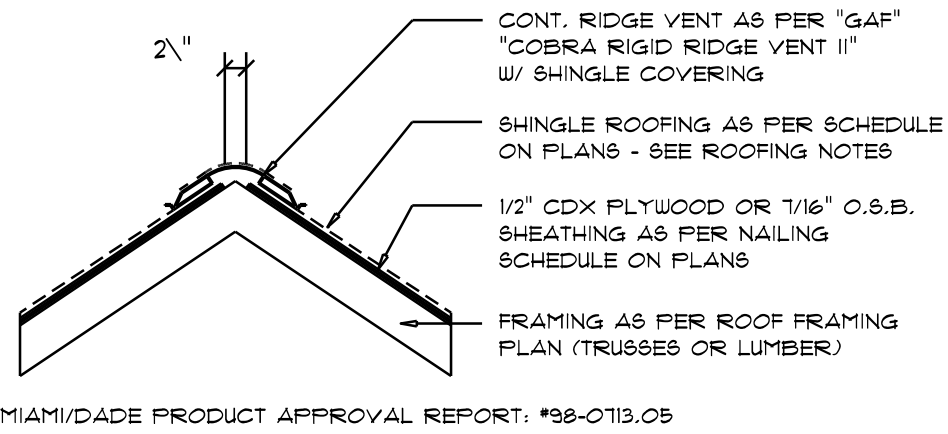
AR0007005



WOOD STRUCTURAL NOTES

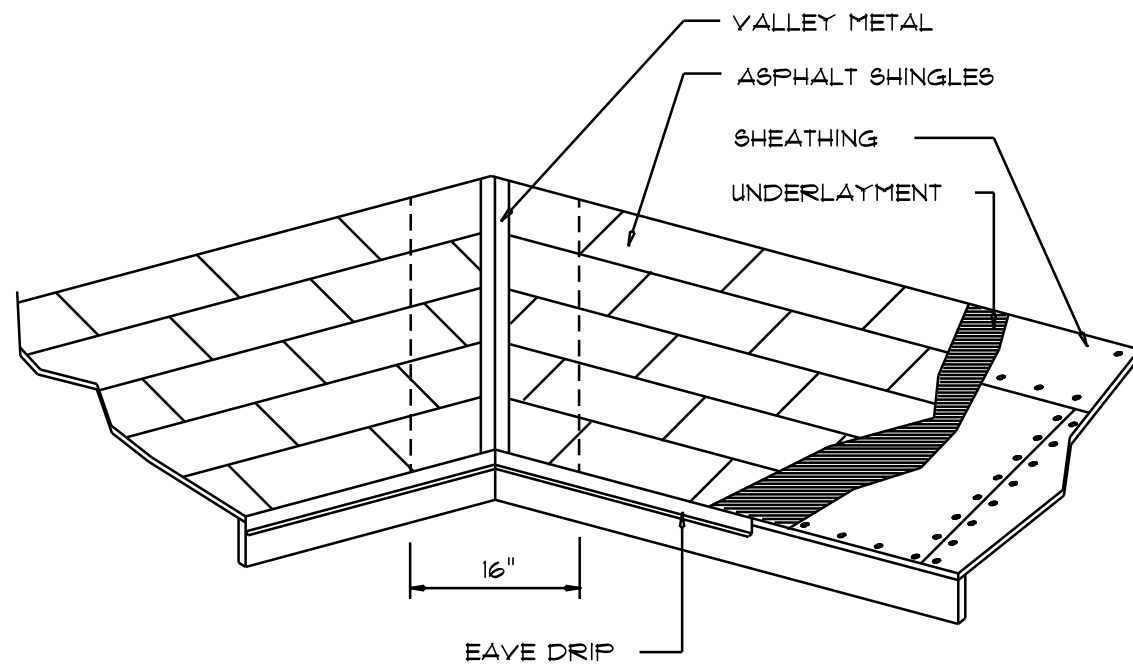
1. TEMPORARY BRACING OF THE STRUCTURE DURING ERECTION, REQUIRED FOR SAFE AND STABLE CONSTRUCTION, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR SO ENGAGED. TEMPORARY & PERMANENT BRACING OF ROOF TRUSSES SHALL BE AS PER THE STANDARD GUIDELINES OF THE "TRUSS PLATE INSTITUTE".
2. ALL TRUSSES SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER & SHALL BE SIGNED AND SEALED BY SAME. TRUSS DESIGN SHALL INCLUDE PLACEMENT PLANS, TRUSS DETAILS, TRUSS TO TRUSS CONNECTIONS & THE STANDARD SPECIFICATIONS & RECOMMENDATIONS OF INSTALLATION OF THE "TRUSS PLATE INSTITUTE".
3. WOOD STUDS IN EXTERIOR WALLS & INTERIOR BEARING WALLS SHALL BE NOT LESS THAN No.2 HEM-FIR OR BETTER.
4. CONNECTORS FOR WOOD FRAMING SHALL BE GALVANIZED METAL OR BLACK METAL AS MANUFACTURED OR AS CALLED FOR IN THE PLANS AND BE OF A DESIGN SUITABLE FOR THE LOADS AND USE INTENDED. REFER TO THE JOINT REINFORCEMENT SCHEDULE FOR PRINCIPLE CONNECTIONS.

| 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.              |
| 2200 SF       | 28 LF              | 510 SQ.IN.              |
| 2500 SF       | 32 LF              | 650 SQ.IN.              |
| 2800 SF       | 36 LF              | 730 SQ.IN.              |
| 3100 SF       | 40 LF              | 820 SQ.IN.              |
| 3600 SF       | 44 LF              | 900 SQ.IN.              |



Ridge Vent DETAIL  
SCALE: 3/4" = 1'-0"

B



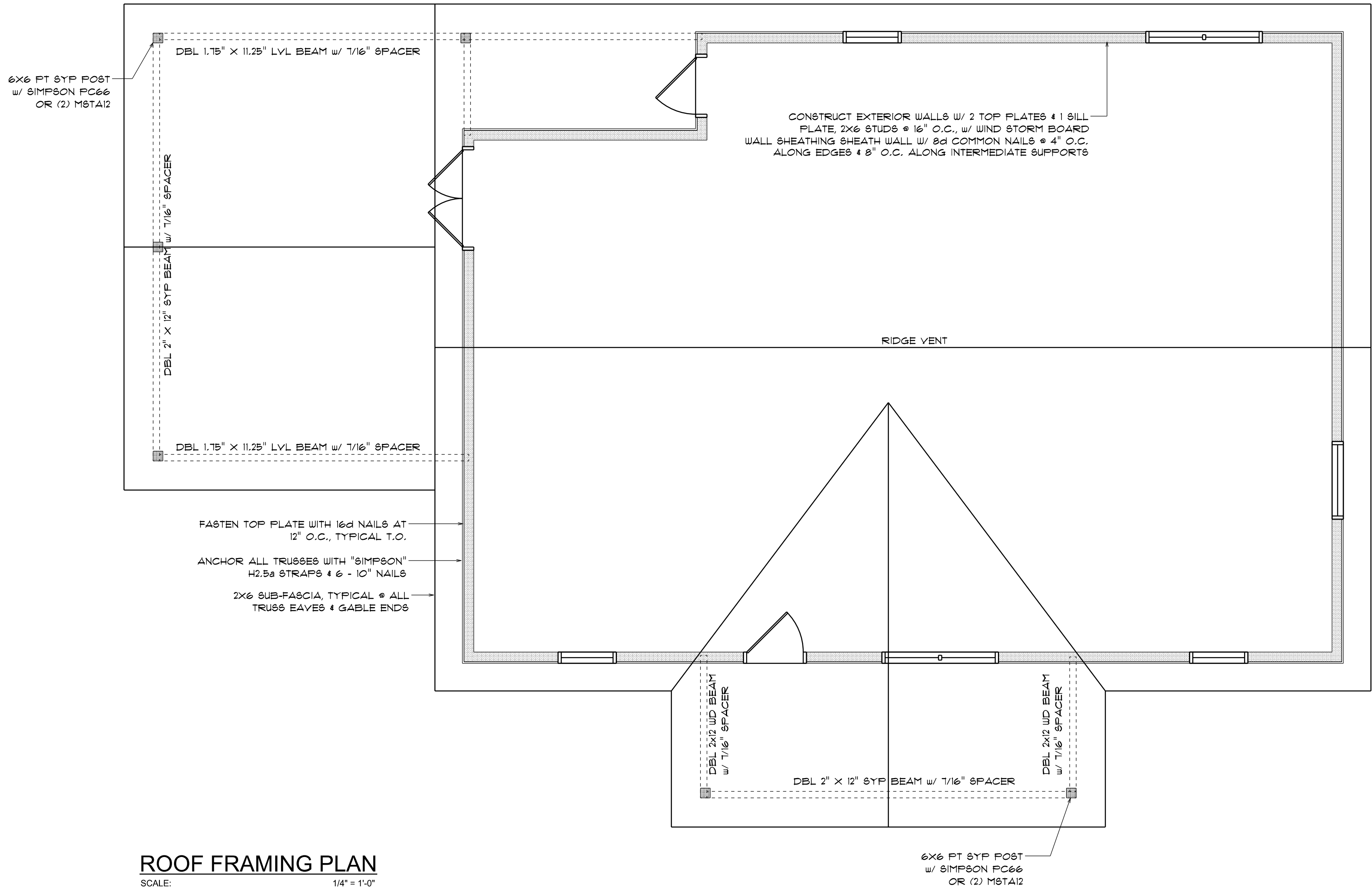
VALLEY FLASHING

| ROOFING METALS for FLASHING/ROOFING<br>MINIMUM THICKNESS REQUIREMENTS |                         |                      |              |
|-----------------------------------------------------------------------|-------------------------|----------------------|--------------|
| MATERIAL                                                              | MINIMUM THICKNESS (in.) | GAGE                 | WEIGHT (OZ.) |
| COPPER                                                                |                         |                      | 16           |
| ALUMINUM                                                              | 0.024                   |                      |              |
| STAINLESS STEEL                                                       |                         | 28                   |              |
| GALVANIZED STEEL                                                      | 0.0175                  | 26 (ZINC COATED G30) |              |
| ZINC ALLOY<br>LEAD<br>PAINTED TERNE                                   | 0.021                   |                      | 40<br>20     |

Roofing/Flashing DETS.

SCALE: NONE

A



ROOF FRAMING PLAN  
SCALE: 1/4" = 1'-0"

ROOF PLAN NOTES

- R-1 SEE ELEVATIONS FOR ROOF PITCH
- R-2 ALL OVERHANG 18" (12" on gables) UNLESS OTHERWISE NOTED
- R-3 PROVIDE ATTIC VENTILATION IN ACCORDANCE WITH SCHEDULE ON S.2
- R-4 SEE EXTERIOR ELEVATIONS AND FLOOR PLANS TO VERIFY PLATE AND HEEL HEIGHTS
- R-5 MOVE ALL VENTS AND OTHER ROOF PENETRATIONS TO REAR

NOTE!  
ANCHOR GIRDER TRUSSES(ES) TO HEADER WITH 2 "SIMPSON" LGT(2, 3 OR 4), ANCHOR HEADER TO KING STUDS W/ 2 "SIMPSON" ST2Z EA. END - TYP., T.O.

NOTE!  
THE DESIGN WIND SPEED FOR THIS PROJECT IS 130 MPH PER FBC 1609 AND LOCAL JURISDICTION REQUIREMENTS

GENERAL TRUSS NOTES:

1. 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" SUGGESTED GUIDELINES FOR TEMPORARY AND PERMANENT BRACING, AND HANDLING OF TRUSSES. TRUSS SHOP DRAWINGS SHALL INCLUDE TRUSS DESIGN, PLACEMENT PLANS, DETS, & TRUSS TO TRUSS CONNECTIONS.
2. TRUSS SHOP DRAWINGS SHALL BE SIGNED & SEALED BY THE DESIGNING ENGINEER.
3. 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.

STANDARD HEADER SCHEDULE

0'-0" UP TO 6'-0" OPENINGS

DOUBLE 2x8 No.12 SOUTHERN PINE WITH 1/2" OGB SOLID CONTINUOUS SPACER GLUED AND NAILED WITH 10d x 0.128" x 3" NAILS IN 2 ROWS @ 12" O.C. STAGGERED EACH SIDE WITH 1 - SIMPSON M8TA15 TOP AND 1 - SIMPSON SPH4R BOTTOM EACH SIDE OF OPENING WITH 1 - HEADER STUD AND 1 FULL HEIGHT STUDS EACH SIDE OF OPENING

6'-0" UP TO 9'-0" OPENINGS

DOUBLE 2x12 No.12 SOUTHERN PINE WITH 1/2" OGB SOLID CONTINUOUS SPACER GLUED AND NAILED WITH 10d x 0.128" x 3" NAILS IN 2 ROWS @ 12" O.C. STAGGERED EACH SIDE WITH 1 - SIMPSON M8TA24 TOP AND 2 - SIMPSON SPH4R BOTTOM EACH SIDE OF OPENING WITH 1 - HEADER STUD AND 2 FULL HEIGHT STUDS EACH SIDE OF OPENING

9'-0" UP TO 16'-0" OPENINGS

DOUBLE 2x12 No.12 SOUTHERN PINE WITH 1/2" OGB SOLID CONTINUOUS SPACER GLUED AND NAILED WITH 10d x 0.128" x 3" NAILS IN 2 ROWS @ 12" O.C. STAGGERED EACH SIDE WITH 2 - SIMPSON M8TA15 EACH SIDE OF OPENING WITH 2 - HEADER STUDS AND 3 FULL HEIGHT STUDS EACH SIDE OF OPENING

16'-0" GARAGE DOOR OPENINGS

2 PLY 1 1/4" x 11 1/8" 2.0E MICROLAMM LVL HEADER GLUED AND NAILED WITH 10d x 0.128" x 3" NAILS IN 2 ROWS @ 12" O.C. STAGGERED EACH SIDE WITH 3 - SIMPSON M8TA15 EACH SIDE OF OPENING WITH 2 - HEADER STUDS AND 3 FULL HEIGHT STUDS EACH SIDE OF OPENING

| REVISIONS      |
|----------------|
| Mar. 9th, 2023 |
|                |
|                |
|                |

CUSTOM HOME FOR:  
**LITTLE RESIDENCE**  
153 SW HOLLY GLN, LAKE CITY, FL 32024

**NICHOLAS P. GEISLER**  
ARCHITECT  
1750 NW Brown Rd.  
Lake City, FL 32055  
(904) 755-9021  
NCA#156 Certified

SHEET NUMBER  
**S.2**  
OF 4 SHEETS

Nicholas P. Geisler  
Digitally signed by: Nicholas P. Geisler  
DN: CN = Nicholas P. Geisler email = npageisler47@gmail.com C = US  
Date: 2023.03.18 11:36:52 -0500  
AR0007005



| FLORIDA BUILDING CODE                                                                                                                                                                                                                                                                                                                                                                                   |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Compliance Summary                                                                                                                                                                                                                                                                                                                                                                                      |  |
| TYPE OF CONSTRUCTION                                                                                                                                                                                                                                                                                                                                                                                    |  |
| Roof: Gable Construction, Wood Trusses @ 24" O.C.<br>Walls: 2x6 Wood Studs @ 16" O.C.<br>Floor: 4" Thk. Concrete Slab W/ Fibermesh Concrete Additive<br>Foundation: Continuous Footer/Stem Wall                                                                                                                                                                                                         |  |
| ROOF DECKING                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Material: 1/2" CDX Plywood or 7/16" O.S.B.<br>Sheet Size: 48"x96" Sheets Perpendicular to Roof Framing<br>Fasteners: 8d Ring Shank Nails per schedule on sheet 5.3                                                                                                                                                                                                                                      |  |
| SHEAR WALLS                                                                                                                                                                                                                                                                                                                                                                                             |  |
| Material: 1/2" CDX Plywood or 7/16" O.S.B.<br>Sheet Size: 48"x96" Sheets Placed Vertical<br>Fasteners: 8d Common Nails @ 4" O.C. Edges & 8" O.C. Interior<br>Dragstrut: Double Top Plate (S.Y.P.) W/16d Nails @ 12" O.C.<br>Wall Studs: 2x6 Studs @ 16" O.C.                                                                                                                                            |  |
| HURRICANE UPLIFT CONNECTORS                                                                                                                                                                                                                                                                                                                                                                             |  |
| Truss Anchors: SIMPSON H2.5a @ Ea. Truss End (Typ. U.O.N.)<br>Wall Tension: Wall Sheathing Nailing Is Adequate - 8d @ 4" O.C. Top & Bot.<br>Anchor Bolts: 1/2" A307 Bolts @ 48" O.C. - 1st Bolt 12'-16" from corner<br>Corner Hold-down Devices: (1) HTTS @ each corner<br>Porch Column Base Connector: Simpson ABU66 @ each column<br>Porch Column to Beam Connector: Simpson EPC66/PC66 @ each column |  |
| FOOTINGS AND FOUNDATIONS                                                                                                                                                                                                                                                                                                                                                                                |  |
| Footings: 18"D x 18"W x CONT., CONCRETE FOOTING W/ 3 #5 REBAR.                                                                                                                                                                                                                                                                                                                                          |  |

STRUCTURAL DESIGN CRITERIA:

1. THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE 2020 FLORIDA BUILDING CODE - SECTION 1603 AND OTHER REFERENCED CODES AND SPECIFICATIONS. ALL CODES AND SPECIFICATIONS SHALL BE LATEST EDITION AT TIME OF PERMIT.

2. WIND LOAD CRITERIA: RISK CATEGORY: 2, EXPOSURE: "B"

BASED ON ANSI/ASCE 7-16, 2020 FBC 1603-A WIND VELOCITY:  $V_{ULT} = 130$  MPH  
 $V_{ASD} = 101$  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 RETARDER 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 DEPARTMENT BY A 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 CONSUMER 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./MODEL                                  | CAP.      |
|------------------------------|-----------------------------------------------|-----------|
| TRUSS TO WALL:               | SIMPSON H2.5a or SDDUC1600                    | 600*      |
| GIRDER TRUSS TO POST/HEADER: | SIMPSON LGT. W/ 28 - 16d NAILS                | 1785*     |
| HEADER TO KING STUD(S):      | SIMPSON ST22                                  | 1370*     |
| PLATE TO STUD:               | NO CONNECTION REQ. WHEN USING WINDSTORM BOARD |           |
| STUD TO SILL:                | NO CONNECTION REQ. WHEN USING WINDSTORM BOARD |           |
| FORCH BEAM TO POST:          | SIMPSON PC66/EPC66                            | 1700*     |
| FORCH POST TO FND.:          | SIMPSON ABU66                                 | 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:

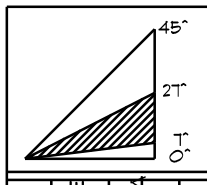
ALL UNLISTED JOINTS IN THE LOAD PATH SHALL BE REINFORCED WITH SIMPSON A34 FRAMING ANCHORS, TYPICAL T.O.

NOTE:

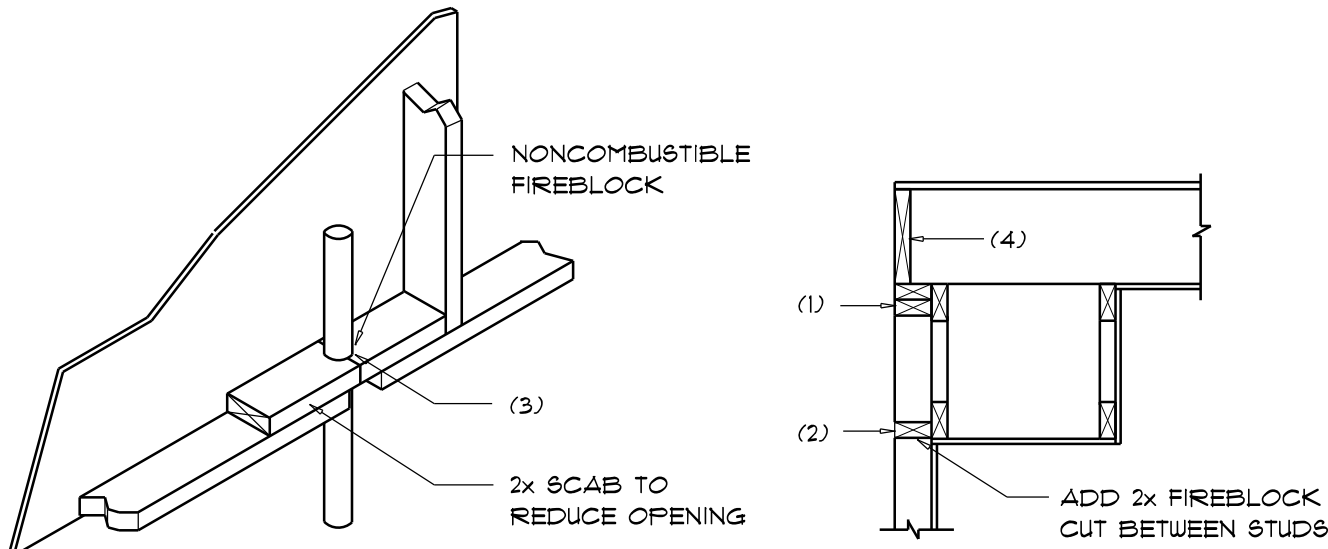
"SEMCO" PRODUCT APPROVAL:  
MIAMI/DADE COUNTY REPORT #35-0818.15

NOTE:

"SIMPSON" PRODUCT APPROVALS:  
MIAMI/DADE COUNTY REPORT #31-0101.05, #36-1126.11, #93-0623.04  
SBCCI NER-443, NER-393

|            |   |  |        | BUILDING COMPONENTS & CLADDING LOADS<br>MEAN BUILDING HEIGHT = 30.0', EXPOSURE "B"<br>ROOF ANGLE "T" TO 27° |                 |                 |                 |
|------------|---|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------|-----------------|-----------------|-----------------|
|            |   | W<br>N                                                                              | W<br>T | Vult<br>110 MPH                                                                                             | Vult<br>120 MPH | Vult<br>130 MPH | Vult<br>140 MPH |
| ROOF T-O-T | 1 | 10                                                                                  | 10     | 12.0 / -19.9                                                                                                | 14.9 / -23.7    | 17.5 / -27.8    | 20.3 / -32.3    |
|            |   | 20                                                                                  | 20     | 11.4 / -19.4                                                                                                | 13.6 / -23.0    | 16.0 / -27.0    | 18.5 / -31.4    |
|            |   | 50                                                                                  | 50     | 10.0 / -18.6                                                                                                | 11.9 / -22.2    | 13.9 / -26.0    | 16.1 / -30.2    |
|            | 2 | 10                                                                                  | 10     | 12.5 / -34.7                                                                                                | 14.9 / -41.3    | 17.5 / -48.4    | 20.3 / -56.2    |
|            |   | 20                                                                                  | 20     | 11.4 / -31.9                                                                                                | 13.6 / -38.0    | 16.0 / -44.6    | 18.5 / -51.7    |
|            |   | 50                                                                                  | 50     | 10.0 / -28.2                                                                                                | 11.9 / -33.6    | 13.9 / -39.4    | 16.1 / -45.7    |
|            | 3 | 10                                                                                  | 10     | 12.5 / -51.3                                                                                                | 14.9 / -61.0    | 17.5 / -71.6    | 20.3 / -83.1    |
|            |   | 20                                                                                  | 20     | 11.4 / -47.9                                                                                                | 13.6 / -57.1    | 16.0 / -67.0    | 18.5 / -77.1    |
|            |   | 50                                                                                  | 50     | 10.0 / -43.5                                                                                                | 11.9 / -51.8    | 13.9 / -60.8    | 16.1 / -70.5    |
|            | 4 | 10                                                                                  | 10     | 21.8 / -73.6                                                                                                | 25.9 / -34.7    | 30.4 / -33.0    | 35.3 / -38.2    |
|            |   | 20                                                                                  | 20     | 20.8 / -72.6                                                                                                | 24.7 / -26.9    | 29.0 / -31.6    | 33.7 / -36.7    |
|            |   | 50                                                                                  | 50     | 19.5 / -71.3                                                                                                | 23.2 / -25.4    | 27.2 / -23.8    | 31.6 / -34.6    |
| WALL       | 5 | 10                                                                                  | 10     | 21.8 / -29.1                                                                                                | 25.9 / -34.7    | 30.4 / -40.7    | 35.3 / -47.2    |
|            | 5 | 20                                                                                  | 20     | 20.8 / -27.2                                                                                                | 24.7 / -32.4    | 29.0 / -38.0    | 33.7 / -44.0    |
|            | 5 | 50                                                                                  | 50     | 19.5 / -24.6                                                                                                | 23.2 / -29.3    | 27.2 / -34.3    | 31.6 / -39.8    |

| HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENTS<br>FOR BUILDING COMPONENTS & CLADDING |                 |                 |                 |
|---------------------------------------------------------------------------------|-----------------|-----------------|-----------------|
| BLDG<br>HEIGHT                                                                  | EXPOSURE<br>"B" | EXPOSURE<br>"C" | EXPOSURE<br>"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            |



PENETRATIONS

SOFFIT/DROPPED CLG.

FIREBLOCKING NOTES:

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

- IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS INCLUDING FURRED SPACES AT CEILING AND FLOOR LEVELS.
- AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILING, COVE CEILING, ETC.
- AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS WITH "PYROFANEL MULTIFLEX SEALANT"
- 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

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:  
TWO LAYERS OF ASTM D226 TYPE II or ASTM D4869 TYPE III or TYPE IV UNDERLAYMENT SHALL BE INSTALLED AS FOLLOWS:

- STARTING AT THE EAVE, A 19 INCH STRIP OF UNDERLAYMENT SHALL BE APPLIED PARALLEL WITH THE EAVE AND FASTENED SUFFICIENTLY TO STAY IN PLACE.
- 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.

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.

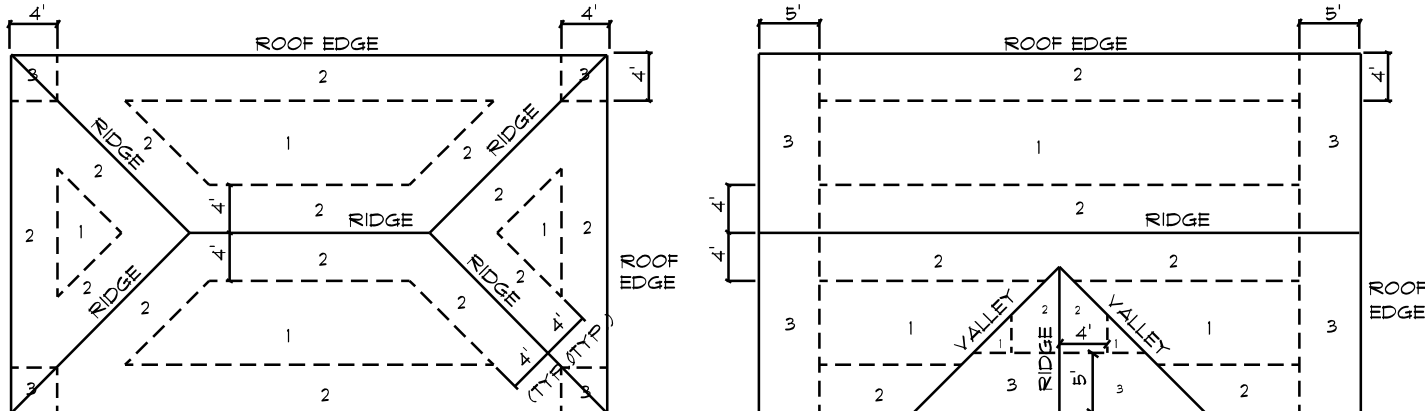
ATTACHMENT:  
ASPHALT SHINGLES SHALL BE SECURED TO THE ROOF WITH NOT LESS THAN FOUR FASTENERS PER STRIP SHINGLE OR TWO FASTENERS PER INDIVIDUAL SHINGLE. WHERE ROOFS LOCATED IN BASIC WIND SPEED OF 110 MPH OR GREATER, SPECIAL METHODS OF FASTENING ARE REQUIRED. UNLESS OTHERWISE NOTED, ATTACHMENT OF ASPHALT SHINGLES SHALL CONFORM WITH ASTM D 3161 OR M-DC FA 101-95.

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 71 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.

- 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 15013.3.2.
- FOR OPEN VALLEYS, VALLEY LINING OF TWO PLYS 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.
- FOR CLOSED VALLEYS VALLEY LINING SHALL BE ONE OF THE FOLLOWING:
  - BOTH TYPES 1 AND 2 ABOVE, COMBINED.
  - ONE PLY OF SMOOTH ROLL ROOFING AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 224.
  - SPECIALTY UNDERLAYMENT AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 1970.

| ROOF SHEATHING FASTENINGS |                              |                                                              |                                                                                     |
|---------------------------|------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------|
| NAILING<br>ZONE           | SHEATHING<br>TYPE            | FASTENER                                                     | SPACING                                                                             |
| 1                         | 7/16" O.S.B.<br>OR 15/32 CDX | 8d RING SHANK OR<br>8d HOT DIPPED<br>GALVANIZED<br>BOX NAILS | 6 in. o.c. EDGE<br>6 in. o.c. FIELD                                                 |
| 2                         |                              |                                                              | 6 in. o.c. EDGE<br>6 in. o.c. FIELD                                                 |
| 3                         |                              |                                                              | 4 in. o.c. @ GABLE ENDWALL<br>OR GABLE TRUSS<br>6 in. o.c. EDGE<br>6 in. o.c. FIELD |



ROOF SHEATHING NAILING ZONES  
(HIP ROOF)

ROOF SHEATHING NAILING ZONES  
(GABLE ROOF)

Roof Nail Pattern DET.

SCALE: NONE

B

REVISIONS

Mar. 9th, 2023

CUSTOM HOME FOR:  
**LITTLE RESIDENCE**

153 SW HOLLY GLN, LAKE CITY, FL 32024

**NICHOLAS P. GEISLER**  
ARCHITECT  
NCA#186 Certified  
1750 NW Brown Rd.  
Lake City, FL 32055  
(904) 755-9021

SHEET NUMBER

**S.3**

OF 4 SHEETS

Nicholas P. Geisler

Digitally signed by Nicholas P. Geisler  
DN: CN = Nicholas P. Geisler email =  
ngeisler47@gmail.com C = US  
Date: 2023.03.15 11:28:46 -0500

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