

General Roofing NOTES:

DECK REQUIREMENTS:  
METAL PANELS MUST BE FASTENED TO MIN. 1/2" CDX PLYWOOD.

SLOPE:  
METAL PANELS SHALL BE USED ONLY ON ROOF SLOPES OF 3/12 OR GREATER TO INSURE PROPER DRAINAGE.

CAULKING:  
MUST BE APPROVED BY THE MANUFACTURER, BUTYL SEALANT SUPPLIED IN TAPE OR GUN-GRADE FORM.

METAL PANEL:  
METAL PANELS SHALL BE  
MIN. 26 GAUGE AND COMPLY WITH ASTM A-792 AND D 17-98  
EXPOSURE C AS ADOPTED IN SOUTH FLORIDA.

FASTENERS:  
FASTENERS FOR METAL PANELS SHALL BE GALVANIZED  
WOOD FAST SCREW; MINIMUM OF #9 X 1 1/2" HEX HEAD.

ATTACHMENT:  
METAL PANELS SHALL BE SECURED TO THE ROOF WITH NOT LESS THAN 24" O.C. WHERE ROOF IS LOCATED IN BASIC WIND SPEED OF 110 MPH OR GREATER, SPECIAL METHODS OF FASTENING ARE REQUIRED. UNLESS OTHERWISE NOTED, ATTACHMENT OF METAL PANELS SHALL CONFORM WITH ASTM E 330 OR FA 125.

BASE AND CAP FLASHINGS:  
FOR ROOF SLOPES FROM 3/12 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.

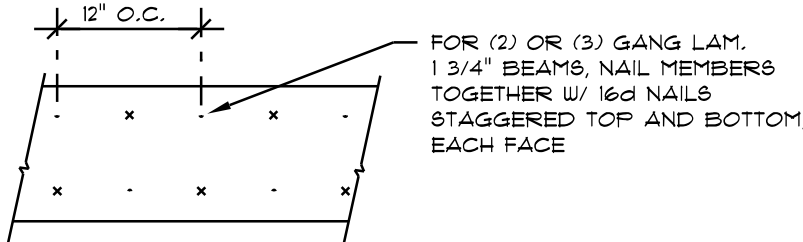
1. RC-1 - RIDGE CAP
2. ED-1 - EAVE DRIP
3. EF-3 - EAVE FLASHING
4. SW-1 - SIDEWALL FLASHING
5. EW-1 - ENDWALL FLASHING
6. GR-4 - GABLE END OR RAKE BOARD FLASHING
7. TF-1 - TRANSITION FLASHING
8. FV-2 - PREFORMED VALLEY FLASHING
9. BUTYL TAPE
10. SEALANT TAPE
11. PIPEBOOT

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.

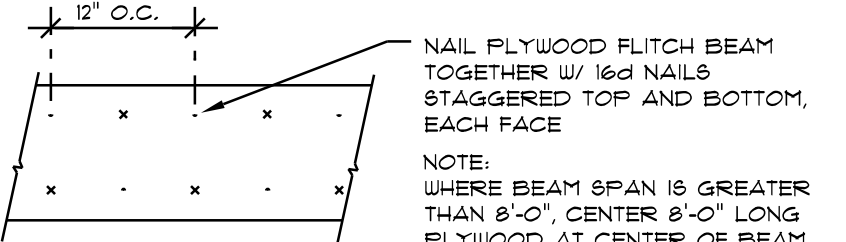
BASE AND CAP FLASHINGS:  
BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE W/ MFGR'S INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE EITHER CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS 0.019 INCH OR MINERAL SURFACE ROLL ROOFING WEIGHING A MINIMUM OF 11 LBS PER 100 SQUARE FEET. CAP FLASHING 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 ROOFING MATERIAL. VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED,  
1. 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 1501.3.3.2.  
2. OPEN VALLEYS: VALLEY LINING OF TWO PLYS OF MINERAL SURFACE ROLL ROOFING SHALL BE PERMITTED. THE BOTTOM LAYER SHALL BE 19 INCHES AND THE TOP LAYER A MINIMUM OF 36 INCHES WIDE.  
3. 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 & COMPLYING WITH ASTM D 1910.



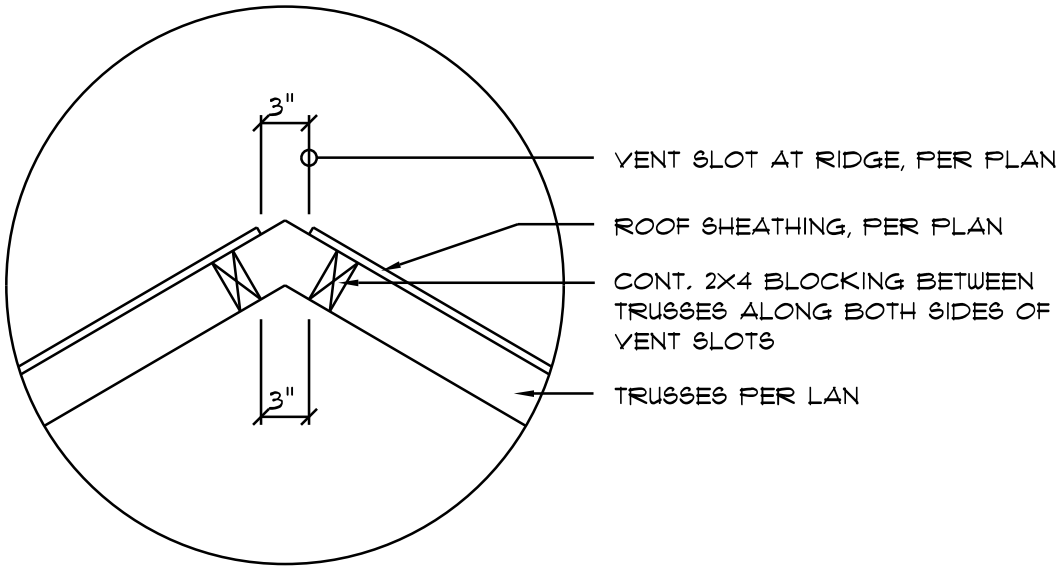
MULTIPLE GANG LAM. DETAIL

NOT TO SCALE



PLYWOOD FLITCH BEAM DETAIL

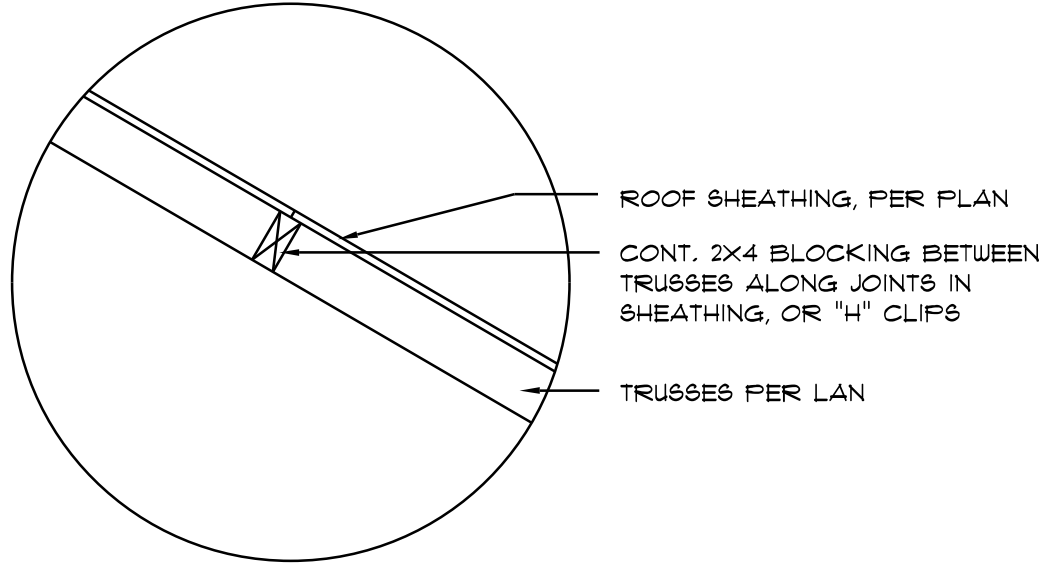
NOT TO SCALE



Vent DETAIL

SCALE: NONE

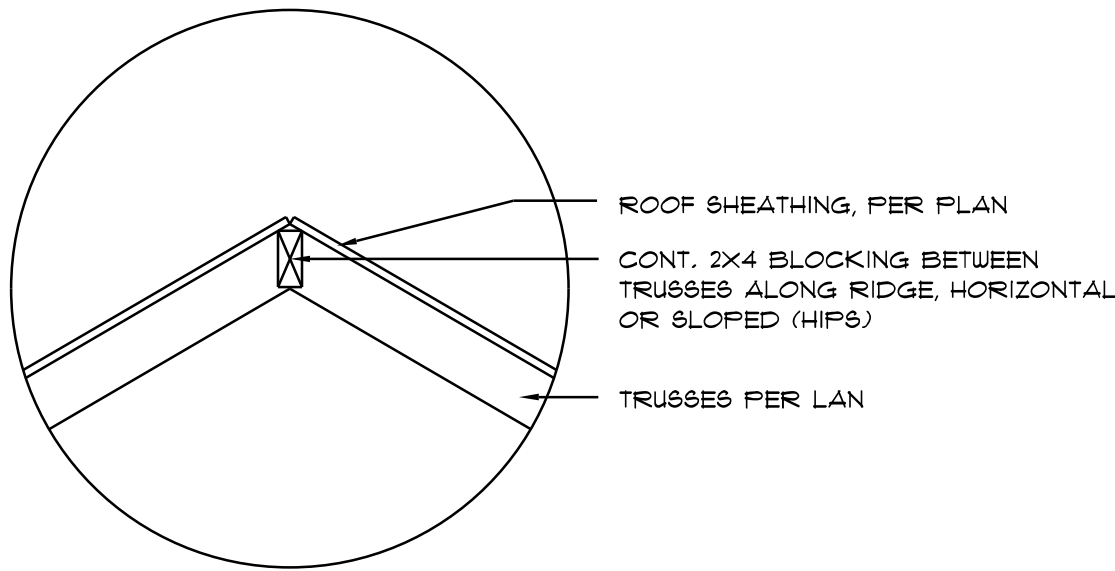
A1



Joint DETAIL

SCALE: NONE

A2



Ridge DETAIL

SCALE: NONE

A3

FRAMING ANCHOR SCHEDULE

| APPLICATION                  | MANUFR/MODEL                                  | CAP.      |
|------------------------------|---|-----------|
| TRUSSES TO WALL:             | SIMPSON H2.5a or SDUC15600                    | 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 BILL:                | NO CONNECTION REQ. WHEN USING WINDSTORM BOARD |           |
| PORCH BEAM TO POST:          | SIMPSON PC44 or (2) 5/8" LAG BOLTS EA. POST   | 1700*     |
| PORCH POST TO FND.:          | SIMPSON ABU44                                 | 2200*     |
| MISC. JOINTS                 | SIMPSON A34                                   | 315*/240* |

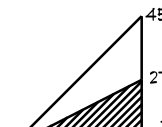
NOTE:  
ALL ANCHORS SHALL BE SECURED W/ NAILS AS PRESCRIBED BY THE MANUFACTURER FOR MAXIMUM JOINT STRENGTH, UNLESS NOTED OTHERWISE.

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

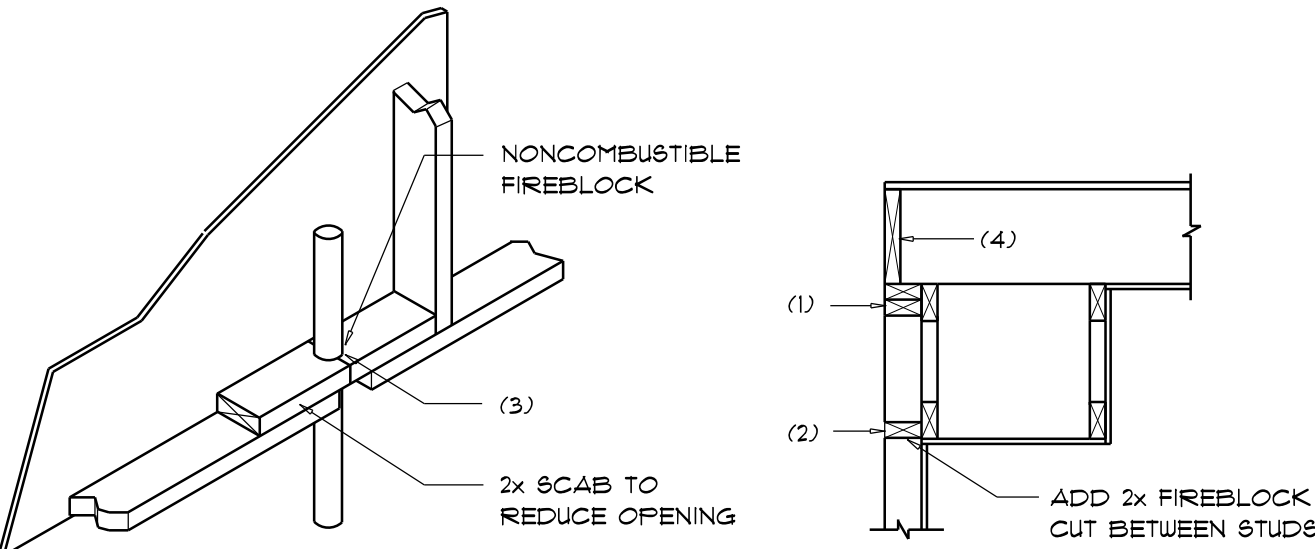
NOTE:  
ALL UNLISTED JOINTS IN THE LOAD PATH SHALL BE REINFORCED WITH SIMPSON A34 FRAMING ANCHORS, TYPICAL T.O.

NOTE:  
"SEMCO" PRODUCT APPROVAL:  
MIAMI/DADE COUNTY REPORT #95-0818.15

NOTE:  
"SIMPSON" PRODUCT APPROVALS:  
MIAMI/DADE COUNTY REPORT #97-0107.05, #96-1126.11, #99-0623.04  
SBCCI NER-443, NER-393

|  |      | BUILDING COMPONENTS & CLADDING LOADS<br>MEAN BUILDING HEIGHT = 30.0'; EXPOSURE "B"<br>ROOF ANGLE T° TO 27° |                 |                 |                 |
|---|------|--|-----------------|-----------------|-----------------|
| WIND ZONE   | AREA | Vult<br>100 MPH  | Vult<br>120 MPH | Vult<br>130 MPH | Vult<br>140 MPH |
| 1   | 10   | 15.0 / -19.9   | 14.9 / -23.7    | 17.5 / -27.8    | 20.3 / -32.3    |
|   | 20   | 11.4 / -19.4   | 13.6 / -23.0    | 16.0 / -27.0    | 18.9 / -31.4    |
|   | 50   | 10.0 / -18.6   | 11.9 / -22.2    | 13.9 / -26.0    | 16.1 / -30.2    |
| 2   | 10   | 12.5 / -34.7   | 14.9 / -41.3    | 17.5 / -48.4    | 20.3 / -56.2    |
|   | 20   | 11.4 / -31.9   | 13.6 / -38.0    | 16.0 / -44.6    | 18.9 / -51.7    |
|   | 50   | 10.0 / -28.2   | 11.9 / -33.6    | 13.9 / -39.4    | 16.1 / -45.7    |
| 3   | 10   | 12.5 / -51.3   | 14.9 / -61.0    | 17.5 / -71.6    | 20.3 / -83.1    |
|   | 20   | 11.4 / -47.9   | 13.6 / -57.1    | 16.0 / -67.0    | 18.9 / -77.7    |
|   | 50   | 10.0 / -43.9   | 11.9 / -51.8    | 13.9 / -60.8    | 16.1 / -70.9    |
| 4   | 10   | 21.8 / -23.6   | 25.9 / -34.7    | 30.4 / -33.0    | 35.3 / -38.2    |
|   | 20   | 20.8 / -22.6   | 24.7 / -26.9    | 29.0 / -31.6    | 33.7 / -36.7    |
|   | 50   | 19.5 / -21.3   | 23.2 / -25.4    | 27.2 / -29.8    | 31.6 / -34.6    |
| 5   | 10   | 21.8 / -29.1   | 25.9 / -34.7    | 30.4 / -40.7    | 35.3 / -47.2    |
|   | 20   | 20.8 / -27.2   | 24.7 / -32.4    | 29.0 / -38.0    | 33.7 / -44.0    |
|   | 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            | 1.59            |
| 25  | 1.00            | 1.39            | 1.61            |
| 30  | 1.00            | 1.40            | 1.66            |



PENETRATIONS

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 "FYTROPANEL 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

FLORIDA BUILDING CODE

Compliance Summary

TYPE OF CONSTRUCTION  
Roof: Gable Construction, Wood Trusses @ 24" O.C.  
Walls: 2x4 Wood Studs @ 16" O.C.  
Floor: 4" Thk. Concrete Slab W/ Fiberglass Concrete Additive  
Foundation: Continuous Footer/Stem Wall

ROOF DECKING  
Material: 1/2" CDX Plywood or 7/16" O.S.B.  
Sheet Size: 48"x96" Sheets Perpendicular to Roof Framing  
Fasteners: .113 RING SHANKED Nails per schedule on sheet 5.4

SHEARWALLS  
Material: 1/2" CDX Plywood or 7/16" O.S.B.  
Sheet Size: 48"x96" Sheets Placed Vertical  
Fasteners: .113 RING SHANKED Nails @ 4" O.C. Edges & 8" O.C. Interior  
Dragstrut: Double Top Plate (S.Y.P.) W/16d Nails @ 12" O.C.  
Wall Studs: 2x4 Studs @ 16" O.C.

HURRICANE UPLIFT CONNECTORS  
Truss Anchors: SIMPSON H2.5a @ Ea. Truss End (Typ. U.O.N.)  
Wall Tension: Wall Sheathing Nailing is Adequate - 8d @ 4" O.C. Top & Bot.  
Anchor Bolts: 1/2" A307 Bolts @ 48" O.C. - 1st Bolt 6" from corner  
Corner Hold-down Device: (1) HD8a @ each corner  
Porch Column Base Connector: Simpson ABU66 @ each column  
Porch Column to Beam Connector: Simpson M8TA20 (2 ea. side) or Simpson EPC66 or 2 - 5/8" thru bolts

FOOTINGS AND FOUNDATIONS  
Footings: 20"x10" Cont. W/ 2 - #5 Bars Cont. on wire/plastic chairs @ 48" o.c.  
Stemwall: 8" C.M.U. W/1-#5 Vertical Dowel @ 48" O.C.  
Int. Footings: 18"x18" x Cont. W/ 3 - #5 Bars Cont. on wire/plastic chairs @ 48" o.c.

STRUCTURAL DESIGN CRITERIA:

1. THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE 2020 FLORIDA BUILDING CODE - SECTION 1609 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 7-10, 2020 FBC 1609-4 WIND VELOCITY: V<sub>ULT</sub> = 130 MPH  
V<sub>ASCE</sub> = 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 OVERFOUR 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 \* 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

REVISIONS  
June 13th, 2022

CUSTOM HOME FOR:  
**KING RESIDENCE**  
COLUMBIA COUNTY, FLORIDA

**NICHOLAS P. GEISLER**  
ARCHITECT  
1715 NW Brown Rd.  
Lakes City, FL 32055

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: 2022.06.17 15:25:23 -0500

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