CUSTOM RESIDENTIAL DESIGN for:

MR. & MRS. P. J. PATEL

COLUMBIA COUNTY, FLORIDA

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Columbia County Building Department
Plans Reviewed for Code Compliance
State of Florida

Digitally signed by: N. P. GEISLER
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AR0007005

REVISION:

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DRAWN: TPB

CUSTOM RESIDENTIAL DESIGN for:
MR. & MRS. P. J. PATEL
COLUMBIA COUNTY, FLORIDA
COVER SHEET

Calculations
4th Edition 2020 Florida Residential Code
1/72 - 2020
N.P. Geisler, Architect
Administrator

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

DATE: 21 SEP 2021

COMM: 2K2104

SHEET: CS.1

1 OF 1

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GENERAL NOTES:

THE CONTRACTOR SHALL INDEMNIFY THE OWNER AGAINST ALL CLAIMS, WHETHER FROM PERSONAL INJURY OR PROPERTY DAMAGE, ARISING FROM EVENTS ASSOCIATED WITH THE WORK PERFORMED UNDER THE CONTRACT FOR THIS PROJECT.

2. THE CONTRACTOR AND/OR SUB-CONTRACTORS SHALL WARRANT ALL WORK FOR A PERIOD OF ONE YEAR FOLLOWING THE DATE OF FINAL COMPLETION AND ACCEPTANCE BY THE OWNER. DEFECTS IN MATERIALS, EQUIPMENT, COMPONENTS AND WORKMANSHIP SHALL BE CORRECTED AT NO FURTHER COST TO THE OWNER DURING THE ONE YEAR WARRANTY PERIOD.

3. AT THE OWNER'S OPTION, A WARRANTY INSPECTION SHALL BE PERFORMED DURING THE ELEVENTH MONTH FOLLOWING THE COMMENCEMENT OF THE WARRANTY PERIOD, FOR THE PURPOSE OF DETERMINING ANY WARRANTY WORK THAT MAY BE REQUIRED. THE CONTRACTOR SHALL BE PRESENT DURING THIS INSPECTION IF REQUESTED BY THE OWNER.

4. THE CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES, TESTS AND THE LIKE THAT MAY BE REQUIRED BY THE VARIOUS AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT BE THEY CITY, COUNTY, STATE OR FEDERAL.

5. THE OWNER SHALL FILE A "NOTICE OF COMMENCEMENT" PRIOR TO THE BEGINNING THE THE PROJECT AND THE CONTRACTOR(S) SHALL FILE "NOTICE TO OWNER" AND PROVIDE "RELEASE OF LIEN" FOR ALL PAYMENT REQUESTS PRIOR TO DISBURSEMENT OF ANY FUNDS.

6. ANY AND ALL DISPUTES ARISING FROM EVENTS ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT BETWEEN THE OWNER, CONTRACTOR(S) AND SUPPLIERS SHALL BE RESOLVED THROUGH BINDING ARBITRATION.

7. ALL WORK SHALL BE IN ACCORDANCE W/ APPLICABLE CODES AND LOCAL REGULATIONS, INCLUDING APPLICABLE ENERGY CODES. ALL COMPONENTS OF THE BUILDING SHALL MEET WITH THE MINIMUM ENERGY REQUIREMENTS OF THE BUILDING CODE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IN WRITING PRIOR TO THE COMMENCEMENT OF THE WORK.

8. ALL INSULATION SHALL BE LEFT EXPOSED AND ALL LABLES LEFT INTACT ON THE WINDOWS AND DOORS UNTIL INSPECTED BY THE BUILDING OFFICIAL.

9. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.

10. INTERIOR BEARING WALLS SHALL BE CONSTRUCTED IN COMPLIANCE WITH "UL Design U333". BATT INSULATION SHALL BE INCLUDED WHERE UNCONDITIONED AREA IS BEING SEPARATED FROM HEATED / COOLED AREA.

11. INTERIOR STUD WALLS SEPARATING LIVING AREA FROM GARAGE AREAS SHALL BE CONSTRUCTED IN COMPLIANCE WITH "UL Design U333", INCLUDING R-11 BATT INSULATION.

12. CEILINGS OVER ATTACHED GARAGES OR GARAGES W/ LIVING AREA ABOVE SHALL BE 5/8" FIRECODE "C" GUB ON 1X3 WOOD FURRINGS AT 16" O.C., ATTACHED W/ 1 1/4" BUGLEHEAD SCREWS @ 6" O.C. ALONG EACH POINT OF BEARING.

AS - BUILT DRAWING REQUIREMENTS:

A. ELECTRICAL "AS-BUILT" DRAWINGS
ELECTRICAL CONTR SHALL PREPARE "AS-BUILT" SHOP DWGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELEC. PLAN, ADDNS TO THE ELEC. PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE W/ ALL CKTS IDENTIFIED W/ CKT Nr., DESCRIPTION & BRKR, SERVICE ENT. & ALL UNDERGROUND WIRE LOCATIONS/ROUTING/DEPTH. RISER DIA. SHALL INCLUDE WIRE SIZES/TYPE & EQUIPMENT TYPE W/ RATINGS & LOADS.
CONTRACTOR SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.

B. H.V.AC. "AS-BUILT" DRAWINGS
H.V.AC. CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP DRAWINGS INDICATING ALL H.V.AC. WORK, INCLUDING ALL DUCTWORK (AC, RTES, LINES), EQUIPMENT SCH. & BALANCING REPORT - CONTR SHALL PROVIDE 1 COPY OF AS-BLT. DWGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.

C. PLUMBING "AS-BUILT" DRAWINGS
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.

GENERAL MILLWORK NOTES:

1. MILLWORK SUB-CONTRACTOR PROVIDING CASEWORK, MILLWORK OR THE LIKE FOR THIS PROJECT SHALL BE SUBJECT TO THE PROVISIONS OF NOTES 1 THRU 6 OF THE GENERAL NOTES, THIS SHEET.

2. SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING: FABRICATION AND DELIVERY OF MILLWORK, SHOWN IN THE DRAWINGS, TO THE JOB SITE, INSTALLATION OF CABINET HINGES, CATCHES, DRAWER & TRAY GUIDES, ADJUSTABLE SHELF STANDARDS & SURFACE BOLTS.

3. ALL APPLICABLE STANDARDS OF "AWI QUALITY STANDARDS & GUIDE SPECIFICATIONS" APPLY TO THIS PROJECT, UNLESS NOTED OTHERWISE.

4. AWI "CUSTOM" GRADE EXCEPT AS OTHERWISE NOTED OR DIRECTED BY THE OWNER, SHALL BE THE BASE STANDARD OF QUALITY REQ'D FOR THIS WORK.

5. MILLWORK SUB-CONTRACTOR SHALL SUBMIT FOR APPROVAL BY THE OWNER, THE FOLLOWING ITEMS, PRIOR TO FABRICATING ANY MAT'LS OR MILLWORK: COMPLETE SET OF SHOP DRAWINGS, SAMPLES OF WD. SPECIES RECEIVING TRANSPARENT FINISH, MFR'S LITERATURE FOR ALL SPECIALTY ITEMS NOT MFD. BY THE ARCHITECTURAL WOODWORK FIRM AND HARDWARE SCHEDULE, SHOWING HARDWARE USED AT EA. LOCATION & CONFORMANCE W/ THE DESIGN INTENT OF THE DRAWINGS OR DIRECTIVES ISSUED BY THE OWNER.

6. PRODUCTS SHALL INCLUDE THE FOLLOWING:
SOFTWOOD - SOLID STOCK PINE, C OR BETTER
HARDWOOD - SPECIES AS SELECTED BY OWNER
PLYWOOD, OPAQUE FINISH - FIR, GRADE A/B
PLYWOOD, TRANSPARENT FINISH - SPECIES AS SELECTED BY OWNER
PARTICLE BOARD - HIGH DENSITY, W/ RESIN BINDER
LAM. PLASTIC - MFG, COLORS, PATTERNS & TEXTURES AS SELECTED BY OWNER
LAMINATING ADHESIVES - POLYVINYL ACETATE, UREA-FORMALDEHYDE, CASEIN

7. ASSEMBLE WORK AT MILL & DELIVER TO JOB SITE READY TO INSTALL INSOFAR AS POSSIBLE.

8. PROTECT MILLWORK FROM MOISTURE & DAMAGE WHILE IN TRANSIT TO THE JOB SITE. UNLOAD AND STORE IN A PLACE WHERE IT WILL BE PROTECTED FROM MOISTURE AND DAMAGE AND BE CONVENIENT FOR INSTALLATION.

9. FABRICATE WORK IN ACCORDANCE WITH MEASUREMENTS TAKEN AT THE JOB SITE.

10. INSTALL HARDWARE IN ACCORDANCE WITH MANUFR'S DIRECTIONS. LEAVE OPERATING HARDWARE OPERATING SMOOTHLY & QUIETLY.

11. DAMAGED SURFACES SHALL BE REPAIRED TO MATCH UNDAMAGED ADJACENT PORTION OF THE WORK.

GENERAL H.V.A.C. NOTES:

1. SUB-CONTRACTORS PROVIDING HVAC INSTALLATION SHALL BE SUBJECT TO THE PROVISIONS OF NOTES 1 THRU 6, GENERAL NOTES/D.1a.

2. HVAC SUB-CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT TO INSTALL A COMPLETE & OPERATING HVAC SYSTEM.

3. HVAC SYSTEM SHALL BE AS DETAILED IN THE PLANS (IF INCLUDED), OR SHALL BE AS DIRECTED BY THE OWNER IN CONSULTATION WITH THE HVAC SUB-CONTRACTOR.

4. HVAC SUB-CONTRACTOR SHALL FURNISH SHOP DWGS FOR DUCTWORK, CONDENSING UNIT & AIR HANDLER, EXHAUST FANS AND AIR DEVICES.

5. IT IS THE HVAC SUB-CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH NFPA-90A AND ALL APPLICABLE CODES.

6. FLEXIBLE DUCT SHALL BE FULLY ANNEALED, CORRUGATED ALUMINUM W/ 1 3/4 LB. DENSITY FIBERGLASS INSULATION AND SHALL BE U.L. LISTED. SHEET METAL DUCT SHALL BE LINED W/ 1" MATRACED DUCT LINER & WRAPPED W/ 1 3/4 LB. FOILFACED FIBERGLASS INSULATION. ALL FIBERGLASS DUCT SHALL BE FOILFACED, R4.2/R8.0 DUCTBOARD.

7. ALL EXHAUST AND OUTSIDE AIR DUCT SHALL BE GALVANIZED SHEET METAL CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ASHREA AND SMACNA STANDARDS.

8. ALL AIR DEVICES SHALL BE OF ALUMINUM CONSTRUCTION FOR WALL AND CEILING APPLICATIONS AND STEEL CONSTRUCTION IN FLOOR APPLICATIONS. ACCEPTABLE MANUFACTURER'S SHALL BE TITUS, METALAIRE, NAILORHART, HART & COOLIE OR AS DIRECTED BY THE OWNER.

9. IF REQUIRED BY THE OWNER, THE HVAC SUB-CONTRACTOR SHALL SUPPLY A TEST AND BALANCE REPORT IN ACCORDANCE WITH AIR BALANCE COUNCIL STANDARDS, SIGN AND SEALED BY A REGISTERED ENGINEER.

10. HVAC SUB-CONTRACTOR SHALL SUPPLY ALL CONTRACTORS, RELAYS, AND THERMOSTATS. THE ELECTRICAL SUB-CONTRACTOR SHALL PROVIDE ALL SWITCHES, DISCONNECTS & CONTROL WIRING. THERMOSTATS SHALL BE APPROVED BY THE EQUIPMENT MFG'R.

11. ALL DUCT SIZES INDICATED IN THE PLANS (IF INCLUDED) ARE NET INSIDE DIMENSIONS.

12. ALL EQUIPMENT SHALL BE FULLY WARRANTED FOR 1 YEAR AND THE COMPRESSOR(S) SHALL BE WARRANTED 5 YEARS FROM DATE OF FINAL ACCEPTANCE, BY THE OWNER.

13. ALL WORK IN THIS TRADE SHALL BE COORDINATED WITH ALL OTHER TRADES SO AS TO AVOID CONFLICTS OR HINDERANCE TO COMPLETION OF THE JOB.

14. CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1/2" THICK ARMAFLEX INSULATION.

15. FILTERS SHALL BE DISPOSABLE TYPE AND HAVE INITIAL SHARE WEIGHT ARRESTANCE OF 10% AND A CLEAN PRESSURE DROP OF 0.15. PROVIDE 2 SETS, ONE DURING CONSTRUCTION AND ONE FOR USE AT FINAL ACCEPTANCE.

16. HVAC SUB-CONTRACTOR SHALL PROVIDE & INSTALL ALL NECESSARY OFFSETS, TRANSITIONS & BENDS REQUIRED TO PROVIDE A COMPLETE SYSTEM AT NO ADDITIONAL COST TO THE OWNER.

17. IT IS THE RESPONSIBILITY OF THE HVAC SUB-CONTRACTOR TO COORDINATE LOCATION OF CEILING DIFFUSERS, GRILLES AND REGISTERS IN THE FIELD WITH THE ELECTRICIAN, LIGHTS AND ARCHITECTURAL ELEMENTS.

18. COORDINATE W/ THE ELECTRICIAN, PARTICULARLY ELECTRICAL NOTE Nr. 23, TO ASSURE SUITABLE SIZES OF BREAKERS, SWITCHES AND WIRING.

GENERAL PLUMBING NOTES:

1. SUB-CONTRACTORS PROVIDING PLUMBING MATERIALS AND INSTALLATION SHALL BE SUBJECT TO THE PROVISIONS OF NOTES 1 THRU 6.

2. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE LOCAL CODES, RULES AND ORDINANCES.

3. ALL MATERIALS SHALL BE NEW.

4. ALL WORK SHALL BE PREFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIONAL.

5. ALL EXCAVATION & BACKFILL AS REQUIRED FOR THIS PHASE OF THE CONSTRUCTION SHALL BE PART OF THE PLUMBING SUB-CONTRACTOR'S RESPONSIBILITIES.

6. PLUMBING FLAT PLANS AND RISER DIAGRAMS (IF INCLUDED) ARE DIAGRAMATIC. DO NOT SCALE THE DRAWINGS FOR EXACT LOCATIONS OF THE PLUMBING FIXTURES.

7. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF THE CONSTRUCTION.

8. WATER PIPING SHALL BE TYPE L COPPER UP TO 1", & TYPE K FOR ALL LARGER SIZES. ALL UNDERGROUND PIPING SHALL BE TYPE K COPPER. AT THE OWNERS OPTION SUPPLY PIPING MAY BE C.P.V.C. SCHEDULE 40 OR SCHEDULE 80.

9. DO NOT USE LEAD BASED SOLDER FOR JOINING SUPPLY PIPING.

10. SOIL, WASTE, VENT & RAINWATER PIPING SHALL BE CAST IRON NO-HUB 301-'13 ABOVE GRADE WITH NEOPRENE GASKETS AND STAINLESS STEEL BANDS & BELL & SPIGOT CAST IRON BELOW GRADE W/ LEAD & OAKUM JOINTS OR AT THE OWNERS OPTION, P.V.C. SCHEDULE 40, SEE NOTE 12.

11. AIR CONDITIONING CONDENSATE DRAIN PIPING SHALL BE THREADED STEEL PIPE. COPPER DRAIN, WASTE OR VENT PIPE AND FITTINGS, OR P.V.C. SEE NOTE 12, BELOW. INSULATE ALL CONDENSATE PIPING EXCEPT WHERE UNDERGROUND, AND ELECTRIC HEAT WRAP WHERE EXPOSED TO FREEZING CONDITIONS.

12. P.V.C. SCHEDULE 40 PIPE AND FITTINGS MAY BE USED FOR SOIL, WASTE, VENT, RAINWATER OR CONDENSATE PIPING AS APPROPRIATE, WHERE APPROVED BY LOCAL BUILDING CODES & OFFICIALS. P.V.C. MAY NOT BE USED TO PENETRATE CHASES OR FIRE RATED WALLS / CEILINGS.

13. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND WHERE PROVIDED, MARKED ACCESS PANELS.

14. FURNISH AND INSTALL APPROVED AIR CHAMBERS AT EACH PLUMBING FIXTURE AND APPROVED SHOCK ARRESTERS ON MAIN LINE OR RISERS.

15. DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METALS IN PIPING AND EQUIPMENT CONNECTIONS.

16. ISOLATE COPPER PIPING FROM HANGERS OR SUPPORTS W/ HAIR FELT INSULATOR PADS.

17. PROVIDE 1/2" TRAP PRIMER LINE FOR ALL FLOOR DRAINS FROM NEAREST PLUMBING FIXTURE. DO NOT MANIFOLD.

18. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES.

19. PROVIDE COMBINATION COVERPLATE / CLEANOUT PLUG FOR ALL WALL CLEANOUTS, FINISH AS DIRECTED BY THE OWNER.

20. FIXTURES, HARDWARE, EQUIPMENT, COLORS AND FINISHES SHALL BE AS SELECTED BY THE OWNER.

GENERAL WELL & SEPTIC NOTES:

1. SUB-CONTRACTORS PROVIDING WATER WELLS AND/OR SEPTIC TANKS AND DRAINFIELDS SHALL BE SUBJECT TO THE PROVISIONS OF NOTES 1 THRU 6, THIS SHEET

2. LOCATION OF POTABLE WATER WELLS SHALL BE DETERMINED BY THE OWNER IN CONSULTATION WITH THE WELL DRILLING CONTRACTOR. WELLS SHALL NOT BE LOCATED CLOSER THAN "15'-0" TO ANY PROPOSED OR EXISTING SEPTIC TANK OR DRAINFIELD, EITHER ON SUBJECT PROPERTY OR ADJACENT/ADJOINING PROPERTY.

3. POTABLE WATER WELLS SHALL BE A MINIMUM 4"Ø WITH BLACK IRON CASING TO A DEPTH OF 80'-0". PUMPS SHALL BE OF THE SUBMERSIBLE TYPE. THREE WIRE SYSTEM. MINIMUM HORSEPOWER SHALL BE 1/2 H/P OR AS DIRECTED BY THE OWNER. MOTOR STARTER SHALL BE ENCLOSED IN A WEATHERPROOF HOUSING, MOUNTED ON A P/T 4X4 POST AT THE WELL HEAD.

4. WELL HEAD SHALL PROJECT 12" ABOVE GRADE.

5. ALL REQUIRED COMPONENTS FOR A COMPLETE OPERATING SYSTEM SHALL BE PROVIDED, INCLUDING ANTI-FREEZE BLEEDER FITTING, CHECKVALVE, AIR BLEEDERS, SHUTOFF VALVE, HOSE BIBB, PRESSURE REGULATOR/CONTACTOR, UNIONS AND PRESSURE GAUGE.

6. PRESSURE TANK SHALL BE GALVANIZED 82 GALLON CAPACITY, UNLESS DIRECTED OTHERWISE BY THE OWNER.

7. SEPTIC TANK LOCATION & DRAINFIELD INVERT SHALL BE DETERMINED BY THE LOCAL HEALTH DEPARTMENT, IN CONSULTATION W/ THE OWNER.

8. SEPTIC TANKS SHALL BE OF A SIZE & CONSTRUCTION AS DETERMINED BY THE LOCAL HEALTH DEPARTMENT. TANK MAT'L SHALL BE POURED CONCRETE OR FIBERGLASS AS ALLOWED BY THE SEPTIC TANK PERMIT.

9. SEPTIC DRAINFIELDS SHALL BE CONSTRUCTED TO THE STANDARDS OF THE LOCAL HEALTH DEPARTMENT. DRAINFIELD PIPING SHALL BE CLAY TILE OR P.V.C. OR POLY AS ALLOWED BY THE SEPTIC TANK PERMIT. DRAINFIELD BEDS SHALL BE 3/4" WASHED ROCK, INSTALLED THICKNESS SHALL BE AS PER SEPTIC TANK PERMIT.

10. SAND FILTER BEADS, MOUND SYSTEMS, DOSING TANKS, GREASE TRAPS, DISTRIBUTION BOXES, GRINDER PUMPS, SUMP PUMPS AND OTHER SUCH RELATED ITEMS (IF REQUIRED OR REQUESTED) SHALL BE AS PER THE DESIGN STANDARDS OF THE LOCAL HEALTH DEPARTMENT.

ELECTRICAL NOTES: General

1. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT. CONFIRM WITH OWNER.

2. INSTALL ALL ELECTRICAL WORK IN CONFORMANCE WITH THE NEC 1997 EDITION, AND ITS AMENDMENTS AS ADOPTED BY THE PERMIT ISSUING AUTHORITY AT THE TIME OF CONSTRUCTION.

3. GROUNDING: GROUND ALL MAIN DISCONNECTS TO STANDARD GROUND ROD(S) AND TO COLD WATER SUPPLY AS PER ARTICLE 250 OF NEC-2020

4. INSTALL ONLY COPPER WIRING ON THIS PROJECT: THW, TW, THWN, THHN OR NM CABLE, UNLESS NOTED OTHERWISE. ALL CONDUCTORS #6 & SMALLER MAY BE SOLID. ALL CONDUCTORS #8 AND LARGER SHALL BE STRANDED TYPE.

5. PROVIDE CONTINUITY OF NEUTRAL ON MULTI-BRANCH CIRCUITS BY SPLICING AND BRINGING OUT A TAIP, ASSURING NO OPENINGS OF NEUTRAL IN REPLACEMENT OF A DEVICE.

6. COLOR CODE MULTI-CIRCUIT WIRING AS FOLLOWS: NEUTRAL - WHITE, GROUND - GREEN, LINE - ALL OTHER COLORS.

7. INSTALL ONLY HIGH POWER FACTOR BALLASTS AT FLUORESCENT FIXTURES.

8. INSTALL GFI BREAKERS OF DEVICES AT ALL BATHROOM, RESTROOM, KITCHEN, GARAGE AND EXTERIOR RECEPTACLES AND AS NOTED ON THE DRAWINGS.

9. INSTALL ONLY THOSE ELECTRICAL DEVICES THAT BEAR A "UL" OR OTHER RECOGNIZED TESTING LAB LABEL. ALL MATERIALS SHALL BE NEW.

10. INSTALL NON-FUSED DISCONNECT SWITCHES AT ALL PIECES OF ELECTRICAL EQUIPMENT LOCATED WHERE SAID EQUIPMENT IS NOT VISIBLE FROM THE CIRCUIT BREAKER THAT PROTECTS IT: SIZE IN ACCORD WITH THE LOAD, ALL DISCONNECT SWITCHES SHALL BE H.P. RATED, HEAVY DUTY, QUICK-MAKE - QUICK-BREAK TYPE - ENCLOSURES SHALL BE AS REQ'D FOR EXPOSURE.

11. MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC WITH OVERLOAD RELAYS IN EACH HOT LEG.

12. ISOLATE DISSIMILAR CONDUIT AND TUBING METALS FROM SOIL WATER AND GAS PIPING AND OTHER BUILDING MATERIALS WHERE DAMAGE BY FRICTION OR ELECTROLYSIS MAY OCCUR, EXCEPT WHERE ELECTRICAL GROUND IS PROVIDED.

13. FURNISH AND INSTALL ALL ELECTRICAL DEVICES AND ITEMS REQUIRED FOR A COMPLETE, OPERATING SYSTEM, PROVIDING THE FUNCTIONS AS DETAILED IN THE PLANS (AND SPECS).

14. OUTLET BOXES SHALL BE PRESSED STEEL OR PLASTIC OR ALL DRY LOCATIONS, FOR WET LOCATIONS, CAST ALLOY WITH THREADED HUB OUTLET BOXES SHALL BE INSTALLED.

15. HOT CHECK ALL SYSTEMS WITH THE OWNER'S REPRESENTATIVE PRESENT TO VERIFY PROPER FUNCTION PRIOR TO C.O.

16. COORDINATE ALL WORK THROUGH GC TO AVOID CONFLICTS. COORDINATE WITH HVAC CONTRACTOR AND ELECTRONICS SYSTEMS CONTRACTORS SO THAT A COMPLETE, FUNCTIONING SYSTEM IS INSTALLED, IN EACH CASE, WITH NO EXTRA COST TO THE OWNER.

17. EMERGENCY LIGHTING AND EXIT SIGNS, IF INDICATED ON THE PLANS, SHALL BE WIRED PER NEC 700-12F.

18. ALL PANEL SCHEDULES SHALL BE FULLY FILLED OUT AND SHALL BE TYPEWRITTEN. EA. CIRCUIT SHALL BE CLEARLY IDENTIFIED A TO WHAT IS INCLUDED ON SAID CIRCUIT.

19. IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION.

20. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF THE POWER COMPANY & TELEPHONE COMPANY.

21. FURNISH AND INSTALL DISCONNECT SWITCHES AND WIRING FOR HVAC SYSTEM AS PER MANUFACTURER'S RECOMMENDATIONS. CONTROLS ARE TO BE SUPPLIED BY THE HVAC CONTRACTOR, AND CONNECTED BY THE ELECTRICAL CONTRACTOR.

22. ALL RACEWAYS BELOW GROUND SHALL BE A MINIMUM OD 3/4".

23. ALL CIRCUIT BREAKERS, TWO AND THREE POLE, SHALL BE COMMON TRIP. NO TIE HANDLES OR TANDEMS SHALL BE ACCEPTABLE.

24. ALL FUSES, UNLESS NOTED OTHERWISE ON THE DRAWINGS, SHALL BE CURRENT LIMITED TYPE (CLL) RATED 200,000 AIC.

25. ELECTRICAL CONTRACTOR SHALL VERIFY ALL COMPONENTS FOR ALL ELECTRICAL APPLICATIONS & DETERMINE THE CORRECTNESS OF SAME. ANY DISCREPANCY SHALL BE REPORTED TO THE OWNER PRIOR TO FABRICATING ANY MATERIALS, ORDERING COMPONENTS OR DOING ANY WORK.

26. CIRCUITS ON PANEL SCHEDULE (AND PLANS) ARE TO DETERMINE LOAD DATA AND SIZE. THE CONTRACTOR SHALL PROVIDE CIRCUITS AND ROUTING OF CONDUITS AND WIRING TO SUIT JOB CONDITIONS, AND BALANCE THE JOB, THROUGHOUT.

27. CHECK EQUIPMENT FOR PROPER VOLTAGE, PHASE AND AMPERAGE RATING PRIOR TO CONNECTION TO CIRCUITS.

28. PANEL BOARDS SHALL BE CIRCUIT BREAKER TYPE. VERIFY NUMBER AND SIZES OF CIRCUITS.

29. WHEN CONDUIT RUNS EXCEED 200 FEET, PULL BOXES SHALL BE INSTALLED SO THAT NO PULL EXCEEDS THIS DISTANCE.

30. ELECTRICAL EQUIPMENT AIC RATING AND FEEDER SIZE SHOWN ON THE PLANS ARE DESIGNED FOR MAX. AVAILABLE FAULT CURRENT AND MAX. ALLOWABLE VOLTAGE DROP, RESPECTIVELY.

PROJECT INFORMATION / NOTES:

DESIGN VALUES/LOADS & CODES

WIND DESIGN SPEED: 130 MPH, UNLESS NOTED OTHERWISE

SOIL DESIGN STATEMENT:
FOOTING DESIGN IS BASED UPON 1000PSF SOIL BEARING PRESSURE PROVIDED BY CLEAN SAND, GRAVEL OR STONE. OTHER SOIL CONDITIONS ie: CLAY, HIGH LEVEL OF ORGANICS OR OTHER UNDESIRABLE SOILS SHALL REQUIRE FOUNDATION MODIFACATIONS.

LIVE LOADS: 1st FLOOR: 40PSF, 2nd FLOOR: 30PSF, ROOF: AS DETERMINED BY SHAPE FACTORS APPLIED TO THE WIND FORCE GENERATED BY THE DESIGN WIND SPEED.

BUILDING CODE: 2020 FLORIDA BUILDING CODE, 7th EDITION

ELECTRICAL CODE: NATIONAL ELECTRICAL CODE - 2020
LIFE SAFETY: NFPA-101 - LATEST

CONSTRUCTION DOCUMENTS

THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE REQUIRED SETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITIES FOR THE ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR SHALL REVIEW THE CONSTRUCTION DOCUMENTS AND VERIFY ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF ANY WORK OR FABRACATION OF ANY MATERIALS.

DO NOT SCALE OFF THESE PLANS

AMPLE DIMENSIONS ARE SHOWN ON THE PLANS TO LOCATE ALL ITEMS. SIMPLE ARITHMETIC MAY BE USED TO DETERMINE THE LOCATIONS OF THOSE ITEMS NOT DIMENSIONED.

CHANGES TO FINAL PLAN SETS

PLEASE DO NOT MAKE ANY STRUCTURAL CHANGES TO THESE PLANS WITHOUT CONSULTING WITH THE ARCHITECT. THE OWNER SHALL ASSUME ANY AND ALL LIABILITY FOR STRUCTURAL DAMAGE RESULTING FROM CHANGES MADE TO THE PLANS OR BY SUBSTITUTION OF MATERIALS DIFFERENT FROM SPECIFICATION ON THE PLANS.

REVISION:

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DRAWN: MPB

CUSTOM RESIDENTIAL DESIGN for:
MR. & MRS. P. J. PATEL
COLUMBIA COUNTY, FLORIDA
GENERAL NOTES

Alt. Calculations
Prepared by Architect
NFPA - 2010 "
N.P. Geisler, Architect
Submitted

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DATE: 21 SEP 2021

COMM#: 2K2104

SHEET: G.1
1 OF 1

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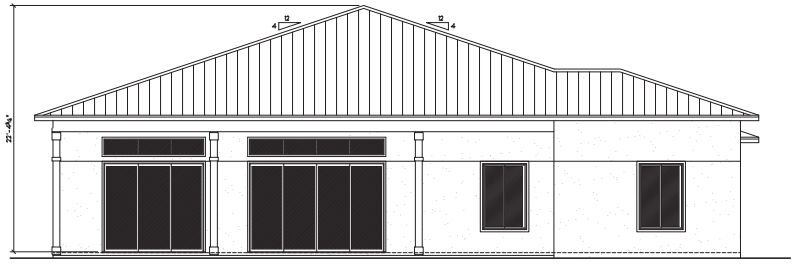
FRONT ELEVATION

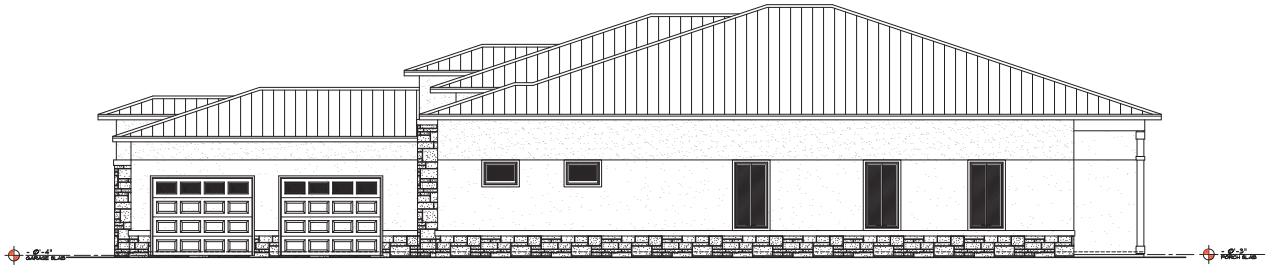
SCALE: 3/16" = 1'-0"

GRAPHIC SCALE



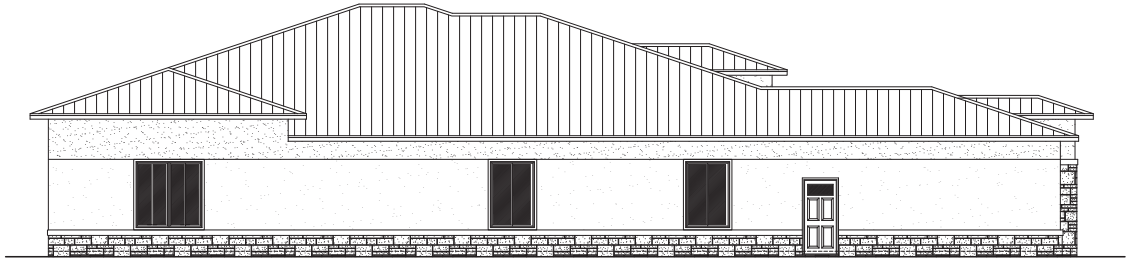
REAR ELEVATION

SCALE: 3/16" = 1'-0"



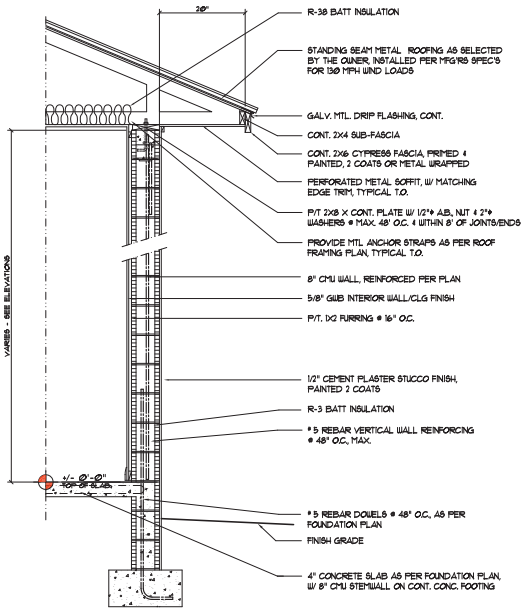
SIDE ELEVATION

SCALE: 3/16" = 1'-0"



SIDE ELEVATION

SCALE: 3/16" = 1'-0"



CMU WALL CONSTRUCTION
CONSTRUCT W/ C-90 CMU, WITH PUMP-MIX CONCRETE FILLED CELLS, REINFORCED W/ 1 #5 REBAR HOOKED TO THE FTG. BELOW & TO THE BOND BEAM, ABOVE, @ 48" O.C., ADJACENT TO WALL OP'NGS & @ CORNERS/INTERSECTIONS
PROVIDE HORZ. 9 GA. LADDER JOINT REINFORCEMENT @ 16" O.C. VERTICALLY (ALTERNATING BLOCK COURSES.)
BOND BEAM SHALL BE 8" X 8" W/ 1 #5 REBAR

Typical Wall SECTION

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

A

CUSTOM RESIDENTIAL DESIGN for:
MR. & MRS. P. J. PATEL
COLUMBIA COUNTY, FLORIDA
ELEVATIONS & TYPICAL WALL SECTION

REVISION:

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DRAWN: TPS

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NICHOLAS P. GERBER ARCHITECT
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1758 NW Brown Rd
Lake City, FL 32055
386-365-4355

DATE: 21 SEP 2021

COMM: 2K2104

SHEET: A.1

1 OF 13

AR0007005

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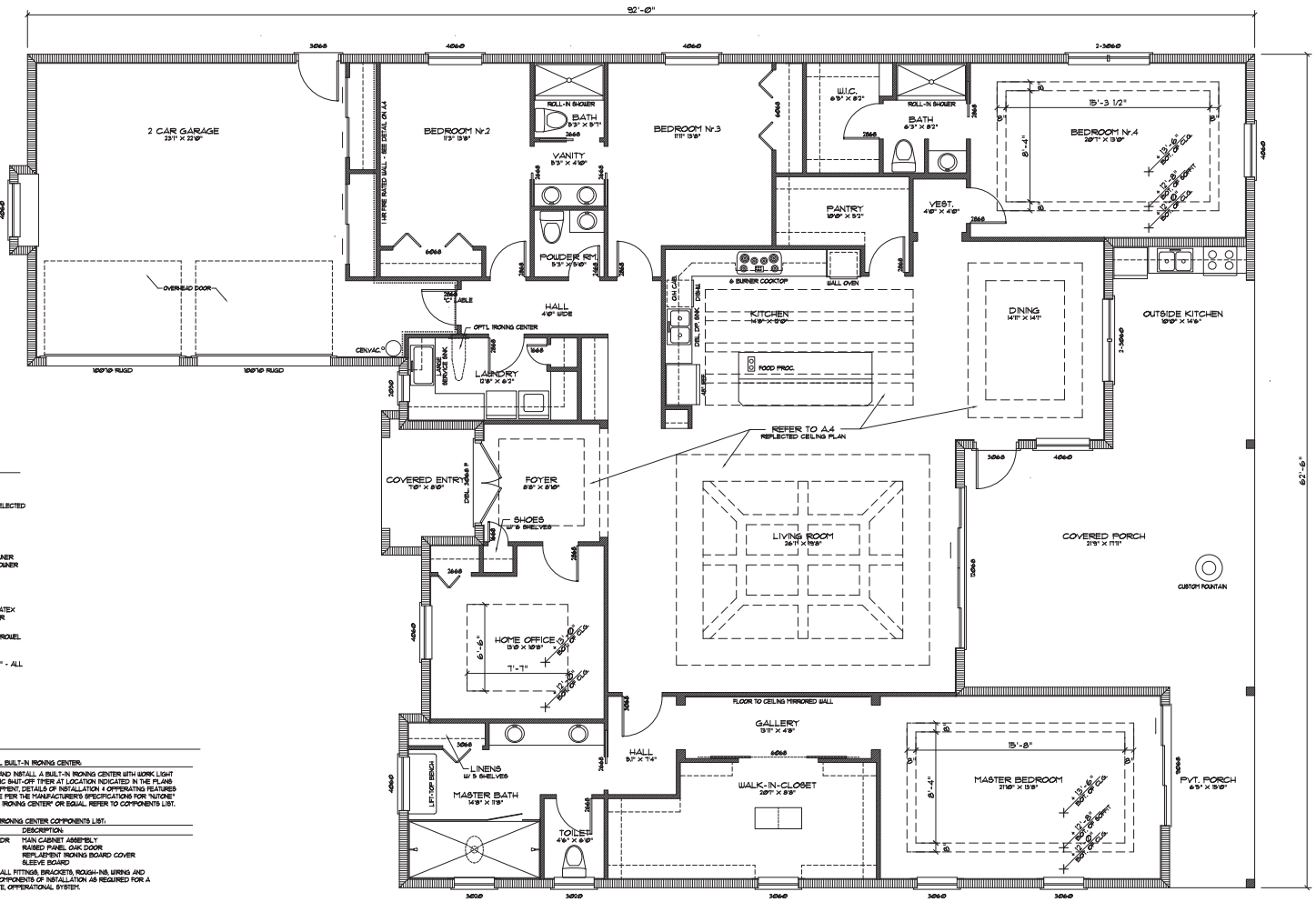
TEMPERED GLASS NOTES:

THE FOLLOWING SHALL BE CONSIDERED SPECIFIC HAZARDOUS LOCATIONS FOR THE PURPOSES OF GLAZING:

1. GLAZING IN SWINGING DOORS AND FIXED AND SLIDING PANELS OF SLIDING (PATIO) DOOR ASSEMBLIES.
2. GLAZING IN DOORS AND WALLS OF ENCLOSURES FOR HOT TUBS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS, SHOWERS AND OTHER SUCH FACILITIES WHERE SUCH GLAZING IS LOCATED 36 INCHES (914 MM) OR LESS, MEASURED HORIZONTALLY, FROM A STANDING OR WALKING SURFACE WITHIN THE ENCLOSURE AND WHERE THE BOTTOM EDGE OF THE EXPOSED GLAZING IS LESS THAN 60 INCHES (1524 MM), MEASURED VERTICALLY, ABOVE SUCH STANDING OR WALKING SURFACES.
3. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24-INCH (610 MM) ARCHES OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES (1524 MM) ABOVE THE FLOOR OR WALKING SURFACE.

   EXCEPTION: GLAZING IN WALLS PERPENDICULAR TO THE PLANE OF THE DOOR IN A CLOSED POSITION IN GROUP R3 OR WITHIN DWELLING UNITS IN GROUP R2 SHALL BE SUBJECT TO 2004 FBC 2406.3.1/4.
4. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL, OTHER THAN THOSE LOCATIONS DESCRIBED IN ITEMS 2 AND 3 ABOVE, THAT MEETS ALL OF THE FOLLOWING CONDITIONS:
   - 4.1 EXPOSED AREA OF AN INDIVIDUAL PANE GREATER THAN 9 SQ FT (0.84 M²2).
   - 4.2 BOTTOM EDGE LESS THAN 18 INCHES (457 MM) ABOVE THE FLOOR.
   - 4.3 TOP EDGE GREATER THAN 36 INCHES (914 MM) ABOVE THE FLOOR.
   - 4.4 ONE OR MORE WALKING SURFACES WITHIN 36 INCHES (914 MM) HORIZONTALLY OF THE PLANE OF THE GLAZING.



GENERAL INTERIOR FINISH SCHEDULE:

FLOOR AREA:	CARPET AND PAD, PATTERN & COLOR AS PER THE OWNER OR LAMINATE STRIP WOOD, OR TILE - SEE OWNER FOR CHANGES
W/R FLOOR AREA:	THINSET CERAMIC TILE OR NATURAL STONE, PAT. & COLOR AS SELECTED BY THE OWNER
BASE:	TRIM, STYLE AND COLOR AS SELECTED BY THE OWNER OR CERAMIC TILE OR STONE - MATCH WITH FLOORING
TRIM:	COVES, CROWNS, CASINGS CHAIRRAILS AND THE LIKE AS PER OWNER WITH STAIN & VARNISH OR PAINT COLOR AS SELECTED BY THE OWNER
WALLS:	5/8" GWB, PRIMED AND PAINTED 2 COATS LATEX WALL PAINT, COLOR & GLOSS AS SELECTED BY THE OWNER
MAIN CEILING:	5/8" GWB, DIRECT HUNG, TAPED & FINISHED, W/ 2 COATS OF LATEX CEILING PAINT, COLOR & GLOSS AS SELECTED BY THE OWNER
APPLIED FINISHES:	APPLIED FINISHED TO GWB, to: SPRAY, KNOCK-DOWN, SKIP-TROWEL AND SIMILAR TREATMENTS AS DIRECTED BY THE OWNER.
CABINETS:	AS SELECTED BY THE OWNER, MINIMUM AWI GRADE: "CUSTOM" - ALL COUNTERTOPS SHALL BE AS SELECTED BY THE OWNER

OPTIONAL EQUIPMENT & FEATURES

BUILT-IN FOOD CENTER:

SUPPLY AND INSTALL A BUILT-IN FOOD PROCESSING SYSTEM WITH THE POWER UNIT RECESSED IN THE KITCHEN COUNTER AS INDICATED IN THE PLANS. ALL EQUIPMENT, DETAILS OF INSTALLATION & OPERATING FEATURES SHALL BE PER THE MANUFACTURER'S REQUIREMENTS FOR "NUTONE" "BUILT-IN FOOD CENTER" OR EQUAL. REFER TO COMPONENT LIST.

BUILT-IN FOOD CENTER COMPONENTS LIST:

PART Nr.:	DESCRIPTION:
2518B	POWER UNIT, 1/3 HP.
1539	FRUIT JUICER
256	FOOD PROCESSOR
271	MIXER
272	BLENDER
276	COFFEE GRINDER

INCLUDE ALL FITTINGS, BRACKETS, ROUGH-INS, WIRING AND OTHER COMPONENTS OF INSTALLATION AS REQUIRED FOR A COMPLETE, OPERATIONAL SYSTEM.

NUTONE CENTRAL VACUUM SYSTEM COMPONENTS LIST:

PART Nr.:	DESCRIPTION:
CV-750	POWER UNIT, 2 MOTOR, 2½ H.P., 6 GAL. CAPACITY
995	MOTOR DRIVEN POWER BRUSH
CK-2149	DELUXE TOOLKIT
CH-3149	DELUXE CURRENT CARRYING HOSE
366BU	AUTOMATIC ON/OFF WALL INLET
CI-366BU	VAC PAN AUTOMATIC DUSTPAN INLET

INCLUDE ALL FITTINGS, BRACKETS, ROUGH-INS, TUBING, PIPING AND OTHER COMPONENTS OF INSTALLATION AS REQUIRED FOR A COMPLETE, OPERATIONAL SYSTEM.

OPTIONAL NUTONE INTERCOM SYSTEM COMPONENTS LIST:

PART Nr.:	DESCRIPTION:
M-4406	INTERCOM MASTER CONTROL, W/ RADIO & CD PLAYER
IS-4516W	INSIDE 5" SPEAKER, WITH CONTROLS
IS-4516W	OUTSIDE CAST METAL 5" SPEAKER, WITH CONTROLS

INCLUDE ALL WIRING, BRACKETS, ROUGH-INS AND OTHER COMPONENTS OF INSTALLATION AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM.

OPTIONAL BUILT-IN IRONING CENTER:

SUPPLY AND INSTALL A BUILT-IN IRONING CENTER WITH WORK LIGHT AUTOMATIC SHUT-OFF TIMER AT LOCATION INDICATED IN THE PLANS. ALL EQUIPMENT, DETAILS OF INSTALLATION & OPERATING FEATURES SHALL BE PER THE MANUFACTURER'S SPECIFICATIONS FOR "NUTONE" "BUILT-IN IRONING CENTER" OR EQUAL. REFER TO COMPONENTS LIST.

BUILT-IN IRONING CENTER COMPONENTS LIST:

PART Nr.:	DESCRIPTION:
AVC-42MDR	MAIN CABINET ASSEMBLY
AVC-RIP	RAISED PANEL OAK DOOR
AVC-CP	REPLACEMENT IRONING BOARD COVER
AVC-SL1	SLEEVE BOARD

INCLUDE ALL FITTINGS, BRACKETS, ROUGH-INS, WIRING AND OTHER COMPONENTS OF INSTALLATION AS REQUIRED FOR A COMPLETE, OPERATIONAL SYSTEM.

OPTIONAL FIRE/INTRUSION ALARM SYSTEM

THIS RESIDENCE SHALL BE EQUIPTED WITH A SELF-CONTAINED FIRE ALARM - INTRUSION ALARM SYSTEM, THE OPERATION OF WHICH SHALL ALERT THE RESIDENT OCCUPANTS AND NOTIFY THE 911 EMERGENCY RESPONSE SYSTEM, EQUIPMENT AND SERVICE PROVIDER SHALL BE AS SELECTED BY THE OWNER. DETAILS OF INSTALLATION SHALL BE VIA SHOP DRAWINGS AND OPERATING FEATURES SHALL BE AS REQUIRED BY NFPA 101, 2003 EDITION, "LIFE SAFETY CODE" SECTION 4.3.4

OPTIONAL INTERCOM SYSTEM

SUPPLY AND INSTALL AN INTERCOM SYSTEM WITH A MASTER CONTROL CABINET FEATURING AM/FM RADIO, AUDIO CD/MP3, AND 2-WAY VOICE COMMUNICATION. SATELLITE STATIONS SHALL BE LOCATED IN BEDROOMS, ENTRY'S AND COMMON AREAS. THE MASTER CONTROL SHALL BE LOCATED IN THE KITCHEN AREA. ALL EQUIPMENT, DETAILS OF INSTALLATION AND OPERATING FEATURES SHALL BE PER THE MANUFACTURER'S REQMTS FOR "NUTONE" M-4406 SYSTEM OR EQUAL. REFER TO COMPONENT LIST.

CENTRAL VACUUM SYSTEM

SUPPLY AND INSTALL A CENTRAL VACUUM SYSTEM WITH THE POWER UNIT SOIL RECEPTICAL LOCATED IN THE GARAGE AND THE POWERED INLETS AS INDICATED IN THE PLANS. ALL EQUIPMENT, DETAILS OF INSTALLATION & OPERATING FEATURES SHALL BE PER THE MANUFACTURER'S REQMTS FOR "NUTONE" CV-750 QUIET SERIES SYSTEM OR EQUAL. REFER TO COMPONENT LIST.

FLOOR PLAN

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

North

NOTE!
CABINETS, COUNTERS, SHELVES AND THE LIKE, SHOWN ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS OF QUALITY AS OUTLINED IN THE NOTES TITLED "GENERAL MILLWORK NOTES", AND SHALL INCLUDE SUCH FEATURES, HARDWARE AND FINISHES AS DIRECTED BY THE OWNER. THE PLAN VIEWS INDICATED ARE FOR GENERAL LOCATION AND EXTENT OF THE WORK - UNLESS DETAILED CABINET PLANS ARE INCLUDED WITH THIS PLANS PACKAGE ALL OTHER PHYSICAL CHARACTERISTICS SHALL BE AS DIRECTED BY THE OWNER.

NOTE!
PROVIDE 2X6 BACKING AT ALL OVERHEAD CABINET LOCATIONS, FLUSH WITH FACE OF FRAMING - TOP OF BACKING TO BE 7'-0" A.F.F.

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N.P. Geisler, Architect

DRAWN: TPB

CUSTOM RESIDENTIAL DESIGN for:
MR. & MRS. P. J. PATEL
COLUMBIA COUNTY, FLORIDA
FLOOR PLAN

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32174-2020
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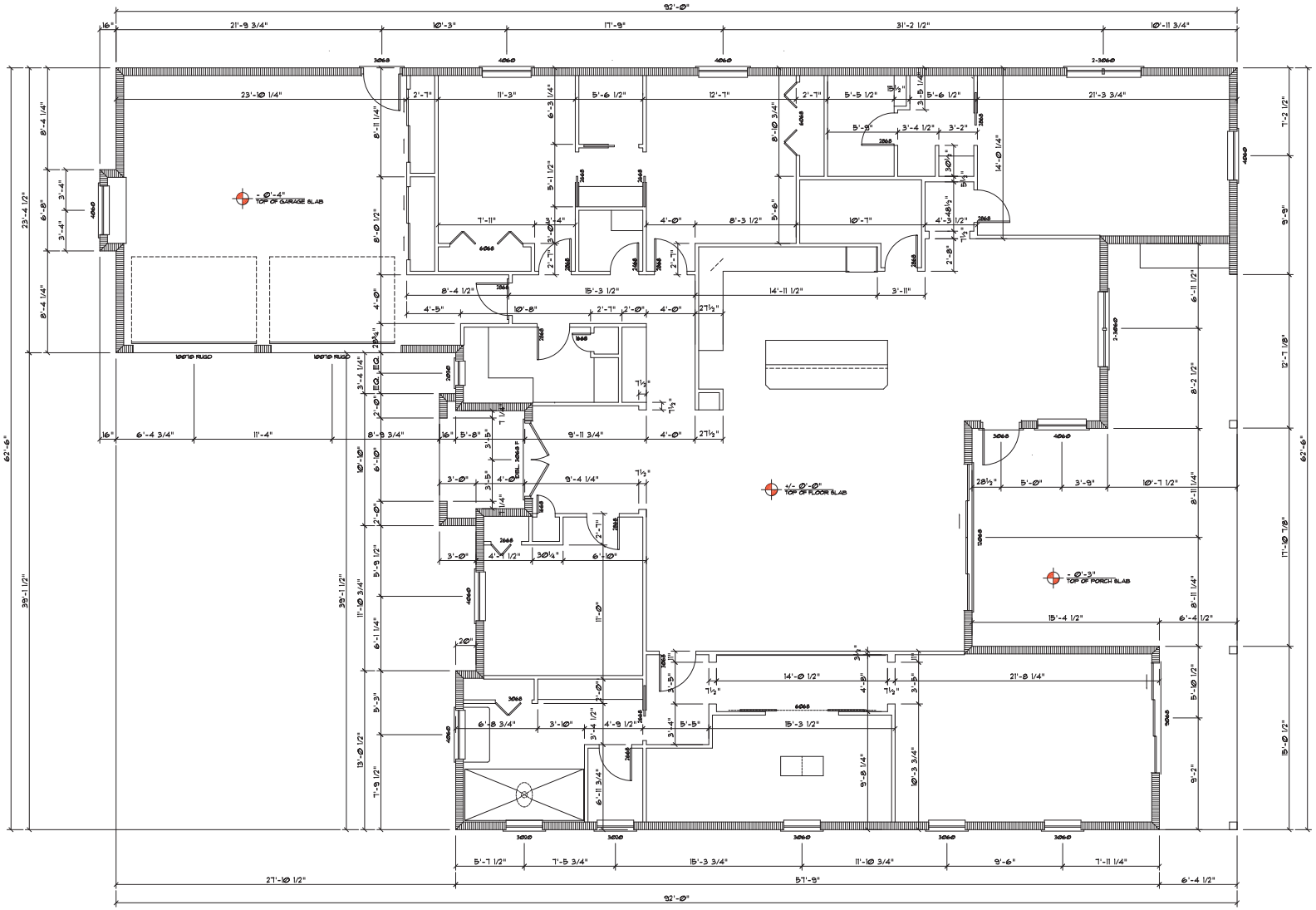
DATE: 21 SEP 2021

COMM: 2K2104

SHEET: A.2

AR0007005



DIMENSION PLAN

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

10 0 10 20

GRAPHIC SCALE

North

AREA CALCULATION

GROSS 1st FLOOR AREA:	3307.0 SF
GARAGE AREA:	649.3 SF
COVERED ENTRY AREA:	62.3 SF
COVERED PORCH AREA:	644.2 SF
TOTAL AREA:	4662.8 SF

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DRAWN: TPB

CUSTOM RESIDENTIAL DESIGN for:
MR. & MRS. P. J. PATEL
COLUMBIA COUNTY, FLORIDA
DIMENSION PLAN

48 Cashmere Drive
Lake City, Florida 32025
1972 - 2020
N.P. Geisler, Architect
Authorization

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ARCHITECT
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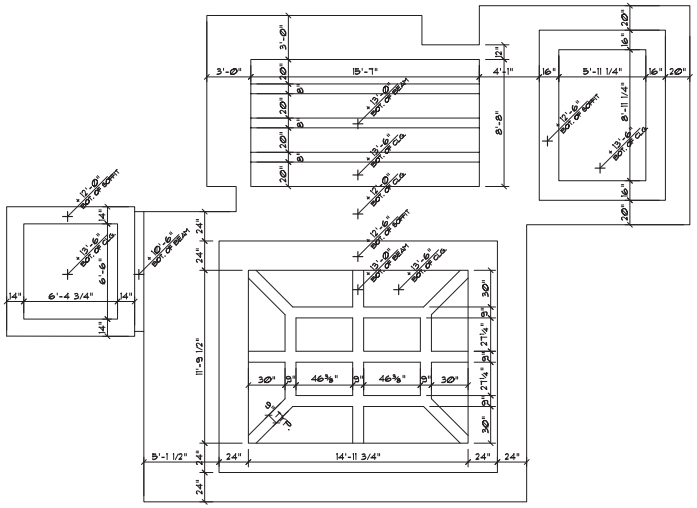
DATE: 21 SEP 2021

COMM: 2K2104

SHEET: A.3

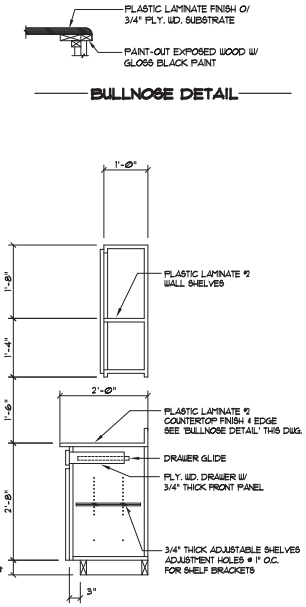
3 OF 13

AR0007005



PARTIAL REFLECTED CLG PLAN

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

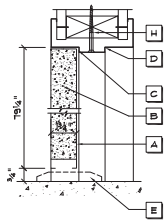


Typ. SECTION

SCALE 3/4" = 1'-0"

Door Notes

- A — NATERAL WOOD VENEER SKIN (OR EQUAL)
- B — SOLID CORE
- C — COMPRESSION BUMPERS
- D — WOOD HEAD JAMB OR STEEL - SEE DOOR SCHEDULE
- E — MARBLE THRESHOLD, AT R/R DOORS
- F — #10-24 X 1/2" F.H.M.S. (4) SCREWS PER HINGE INTO DOOR
- G — #10-24 X 1/2" F.H.M.S. (4) SCREWS PER HINGE INTO JAMB
- H — #10 X 2" F.H.W.S (2) SCREWS THROUGH HEAD INTO HEADER.
- J — DOOR HARDWARE AS PER DOOR SCHEDULE



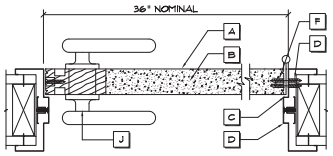
TYPICAL VERTICAL SECTION

DESIGN PRESSURE RATINGS *	
POSITIVE	+76.0 PSF
NEGATIVE	-76.0 PSF

* WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED

NOTE !!!
EXTERIOR DOORS SHALL MEET OR EXCEED THE WIND RESISTANCE OF THE FOLLOWING PRODUCT:

SERIES ENTERGY 6-8 W/E INSWING OPAQUE RESIDENTIAL INSULATED STEEL DOOR W/ STEEL FRAME AS MFG'D BY "FRENDOR ENTRY SYSTEMS"



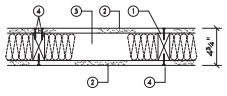
Interior Door DETAILS

SCALE : NONE

A

Design No. U333

Bearing Wall Rating-1 Hr.
Finish Rating-23 Min.



1 Wood Studs-Nom 2 by 4 in. spaced 16 in. O.C. effectively cross-braced.

2. Gypsum Wallboard*-5/8 in. thick, 4 ft. wide, applied either vertically or horizontally, screw attached to studs and plates with 1 1/4 in. long Type W steel screws, spaced 12 in. O.C.

Canadian Gypsum Co. Ltd-Type C.
Georgia-Pacific Corp. Gypsum Div.-Type GPFS-C.
United States Gypsum Co.-Type C or IP-XG.

3. Batts and Blankets*-(Optional)-Mineral wool insulation, partially or completely filling stud cavity.

USG Interiors Inc.
United States Gypsum Co.

4. Joints and Nailheads-Wallboard joints covered with paper tape and joint compound. Screwheads covered with joint compound.

*Bearing the UL Classification Marking

REVISION:

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DRAWN: MB

CUSTOM RESIDENTIAL DESIGN for:
MR. & MRS. P. J. PATEL
COLUMBIA COUNTY, FLORIDA
ARCHITECTURAL DETAILS

Celebrating 40 Years of Service
1972 - 2020
N.P. Geisler, Architect
Established

NICHOLAS PAUL GEISLER
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1758 NW Brown Rd
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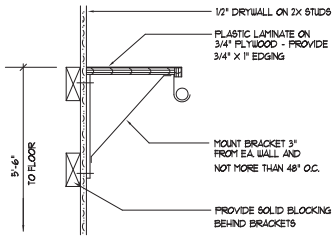
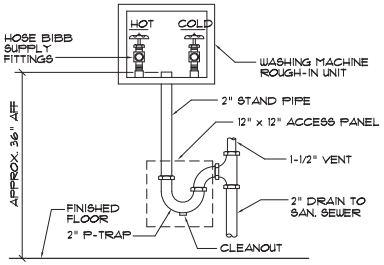


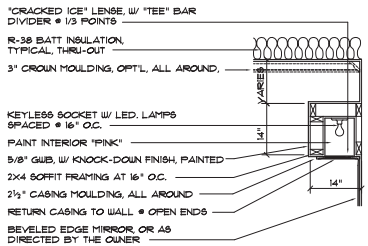
Closet Rod & Shelf Detail (A)

SCALE: NONE



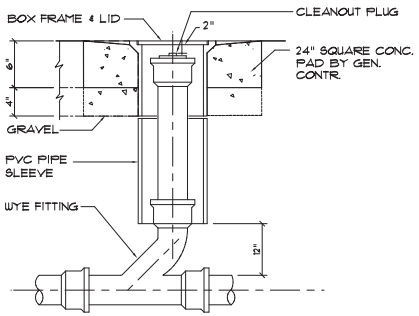
Washing Machine Hook-up DET. (B)

N.T.S.



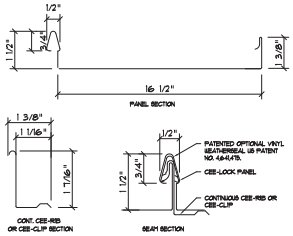
Lighting Soffit DETAIL (C)

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



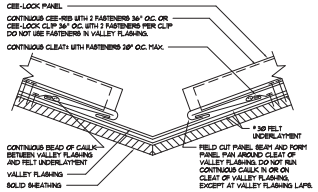
Outdoor Cleanout DETAIL (D)

N.T.S.



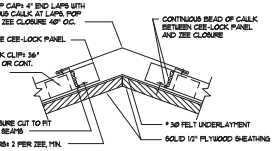
PANEL DETAIL

SCALE: NONE



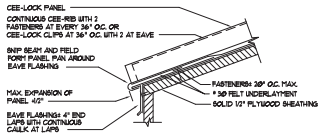
VALLEY DETAIL

SCALE: NONE



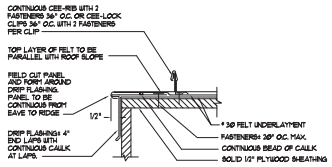
RIDGE/HIP DETAIL

SCALE: NONE



EAVE DETAIL

SCALE: NONE



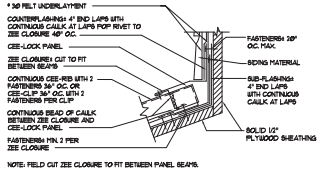
NOTE: FIELD CUT AND FORM LAST PANEL AROUND DRIP FLASHING. PANEL MUST BE CONTINUOUS FROM RIDGE TO EAVE.

GABLE DETAIL / PANEL TURNDOWN

SCALE: NONE

NOTE: ALL FELT UNDERLAYMENT, CAULKING, AND FASTENERS, SHALL BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER.

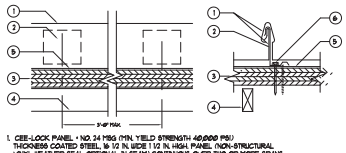
ALL ARCHITECTURAL PANELS ARE 24 GAUGE METAL. TAKE CARE IN HANDLING AND INSTALLATION TO AVOID DAMAGING OR DEFORMING THE PANELS.



NOTE: FIELD CUT ZEE CLOSURE TO FIT BETWEEN PANEL SEAMS.

FLASHING DETAIL

SCALE: NONE



1. CEE-LOCK PANEL • NO. 24 MSG (MIN. YIELD STRENGTH 40,000 PSI) THICKNESS COATED STEEL, 16 1/2 IN. WIDE | 1/2 IN. HIGH. PANEL (NON-STRUCTURAL VINYL WEATHER SEAL OPTIONAL IN SEAM) CONTINUOUS OVER TWO OR MORE SPANS WITHOUT LAPS.
2. CEE-CLIP (PANEL CLIP) - ONE PIECE ASSEMBLY FABRICATED FROM NO. 24 MSG (MIN. YIELD STRENGTH 40,000 PSI) COATED STEEL. CEE-CLIP LOCATED AT EACH PANEL SIDE LAPS BEING PLACED AT 3'-0" O.C. MAXIMUM.
3. DECK - 5/8" APA 40/20 PLYWOOD.
4. JOIST - 2" X 4" AT 2'-0" O.C. MAXIMUM WITH #2 X 3" PAN HEAD WOOD SCREW AT 12" O.C. MAX. AT PLYWOOD TO JOIST CONNECTION AND AT PLYWOOD ENDS.
5. # 30 FELT UNDERLAYMENT.
6. FASTENERS (SCREWS) - FOR ATTACHING "CEE-CLIP" (ITEM TWO) TO DECK USE NO. 10 PANCAKE HEAD TEK3 STEEL SCREWS, TWO FASTENER PER "CEE-CLIP".

CLIP FASTENER DETAIL

SCALE: NONE

METAL ROOFING INSTALLATION NOTES

1. DOUBLE LAYER OF NUMBER THIRTY FELT UNDERLAYMENT OR EQUAL AND THE CEE-LOCK OPTIONAL VINYL WEATHERSEAL (US PATENT NO. 4,841,713) ARE RECOMMENDED FOR ALL APPLICATIONS WHERE THE ROOF SLOPE IS 3 ON 12 OR LESS.

2. STRIPPABLE FILM: THE STRIPPABLE PLASTIC FILM WHICH IS APPLIED OVER MOST BERRIDGE PREFINISHED PRODUCTS, PANELS, FLASHINGS, COILS, AND FLAT SHEETS PROVIDES PROTECTION OF THE FINISH DURING FABRICATION AND TRANSIT. THIS FILM MUST BE REMOVED PRIOR TO INSTALLATION.

3. SOLID SHEATHING REQUIREMENTS: 5/8" PLYWOOD SHEATHING SHALL BE USED TO PROVIDE SUFFICIENT HOLDING POWER FOR FASTENERS.

4. SHEATHING INSPECTION:
   - A. SHEATHING END JOINTS SHOULD BE STAGGERED.
   - B. ALL END JOINTS SHOULD MEET AT EITHER A JOIST OR RAFTER.
   - C. BLOCKING OR "H" CLIPS SHOULD BE USED IF JOISTS DO NOT REMAIN FLAT UNDER THE WEIGHT OF WORKMEN.
   - D. USE SHIMS TO KEEP ENTIRE SUBSTRATE EVEN. UNEVEN SUBSTRATE WILL RESULT IN "OIL-CANNING" IN PANELS. SUBSTRATE SHOULD BE LEVEL TO 1/4" IN 20'-0".
   - E. ALL CUTS AT PENETRATIONS SHOULD BE TIGHT, WITHOUT GAPS.
   - F. USE WOOD-FRAMED CRICKETS AT LARGE PENETRATIONS.
   - G. MAKE SURE SUBSTRATE JOINTS ARE TIGHT AT ALL HIPS, VALLEYS, AND RIDGES.

5. FASCIA/RAKE INSPECTION:
   - A. STRIKE A LINE THE FULL LENGTH OF THE FASCIA OR RAKE. IF NOT STRAIGHT, CORRECT WITH SHIMS.
   - B. MAKE SURE FASCIA/RAKE IS FLUSH WITH SHEATHING.

6. FELT UNDERLAYMENT: A MINIMUM SINGLE LAYER OF # 30 FELT UNDERLAYMENT (OR EQUAL) MUST BE APPLIED OVER SOLID SHEATHING AS SHOWN IN THE BERRIDGE MANUFACTURING COMPANY TYPICAL FELTING DETAILS. THE USE OF ADDITIONAL LAYERS OF # 30 FELT IS RECOMMENDED ON LOW-SLOPED ROOFS, AT ALL VALLEY CONDITIONS, AT ROOF PENETRATIONS, AND CERTAIN OTHER FLASHING CONDITIONS AS DEPICTED IN THE CEE-LOCK PANEL TYPICAL DETAILS. (THE UNDERLAYMENT MUST COVER THE ENTIRE ROOF DECKED SURFACE).

7. FELTING INSTALLATION:
   - A. DO NOT USE RED ROSIN PAPER UNDER METAL ROOFING PANELS.
   - B. SWEEP ROOF AREA CLEAN.
   - C. USE FLAT HEAD GALVANIZED ROOFING NAILS x 1 1/4" LONG WITH BERRIDGE GALVANIZED FELT CAPS.
   - D. INSTALL VALLEY FELT FIRST.
   - E. INSTALL FELT PARALLEL TO EAVE (2 LAYERS REQUIRED AT EAVE), STARTING AT EAVE AND USING MINIMUM 6" LAPS. USE TWO LAYERS OF FELT ON ENTIRE ROOF DECK IF ROOF SLOPE IS 3 ON 12 OR LESS. 2 LAYERS OF FELT REQUIRED AT EAVE REGARDLESS OF SLOPE.

8. FLASHING: IF BERRIDGE MANUFACTURING COMPANY IS TO SUPPLY FLASHINGS, ALL FLASHINGS WILL BE FABRICATED IN 10'-0" LENGTHS WITH SQUARE END CUTS ONLY. THE PURCHASER MUST PROVIDE ALL DIMENSIONS AND DEGREE OF ANGLES.

9. FLASHING INSTALLATION:
   - A. REMOVE STRIPPABLE PLASTIC FILM FROM ALL FLASHINGS PRIOR TO INSTALLATION.
   - B. ALWAYS STAGGER JOINTS WHEN ONE FLASHING IS INSTALLED OVER OTHER FLASHING.
   - C. INSTALL ALL FLASHINGS AS PER BERRIDGE TYPICAL DETAILS.
   - D. ALL FLASHINGS ARE TO BE DESIGNED AND INSTALLED TO NOT TRAP WATER.

10. PANEL INSTALLATION:
    - A. REMOVE STRIPPABLE PLASTIC FILM FROM EACH PANEL PRIOR TO INSTALLATION.
    - B. START PANEL INSTALLATION AT ON GABLE END OF THE ROOF, WORKING TOWARD THE OTHER GABLE END. MAKE SURE PANELS ARE PERPENDICULAR TO THE EAVE. AT VALLEY AREAS, MAKE SURE PANELS ARE INSTALLED SO THAT DRAINAGE HAS FREE FLOW AND IS NOT OBSTRUCTED BY PANEL SEAMS.
    - C. BEGIN BY INSTALLING J-CLIP AND/OR DRIP FLASHING AT GABLE THEN PLACING FIRST CEE-LOCK CONTINUOUS LENGTH PANEL.
    - D. INSTALL CEE-LOCK CLIPS OR CONTINUOUS CEE-RIB AS PER BERRIDGE TYPICAL DETAILS AND CEE-LOCK CONTINUOUS RIB/CLIP INSTALLATION NOTES.
    - E. IF OPTIONAL VINYL WEATHERSEAL (US PATENT 4,841,713) IS TO BE USED, THIS WILL BE EITHER FACTORY INSTALLED OR INSTALLED IN THE FIELD AS THE CEE-LOCK PANEL EXITS FROM THE CL-31 PORTABLE ROLL FORMER.
    - F. INSTALL PANELS BY PLACING THE FEMALE LEG OVER THE MALE LEG AND CONTINUOUS CEE-RIB OR CLIP AND SNAPPING THE INTEGRAL SEAM INTO PLACE WITH HAND PRESSURE. DO NOT USE EXCESSIVE FORCE, FOOT PRESSURE OR OTHER TOOLS SUCH AS MALLETS AS THIS WILL SCRATCH OR DENT THE PANEL RIB AND CAUSE DEFORMATION TO THE VINYL WEATHERSEAL.
    - G. EACH PANEL IS TO BE KEPT TIGHT AGAINST THE LEG OF THE ADJOINING PANEL. NEVER PERMIT A GAP BETWEEN VERTICAL LEGS.
    - H. KEEP PANELS ALIGNED SO THAT SEAMS MATCH AT HIPS, VALLEYS AND WHERE VERTICAL PANELS ADJOIN ROOF PANELS. DO NOT INSTALL LONG CONTINUOUS RUNS OF PANELS ALL AT ONE TIME WHERE SEAM LINES MUST MATCH. INSTALL TEN OR TWELVE PANELS IN ONE ELEVATION AND THEN FOLLOW WITH A LIKE NUMBER OF PANELS ON THE OTHER ELEVATION. WHEN YOU INSTALL PANELS IN THIS MANNER, YOU WILL BE ABLE TO MAKE ANY ADJUSTMENTS REQUIRED TO ENSURE SEAM MATCHING.
    - J. COPPER-COTE, CHAMPAGNE, LEAD-COTE, AND PREWEATHER GALVALUME PANEL INSTALLATION: NOTE THE SERIES OF ARROWS PAINTED ON THE UNDERSIDE OF THE PANEL. ALL PANELS MUST BE INSTALLED IN CONSISTENT MANNER, MEANING THAT THE ARROWS ON EVERY PANEL ARE ALL POINTING IN THE SAME DIRECTION. IF A PANEL IS REVERSED (ARROWS POINTING OPPOSITE OF THOSE ON OTHER PANELS) IT WILL APPEAR, FROM A DISTANCE, A DIFFERENT SHADE DUE TO THE GRANULAR OF THE PIGMENTS IN THE FINISH. METALLIC FINISHES ARE MATCH - LOT FINISHES. DO NOT MIX LOTS.

11. CEE-LOCK CLIP INSTALLATION:
    - A. INSTALL CLIPS AT PER BERRIDGE TYPICAL CEE-LOCK PANEL DETAILS.
    - B. CLIP SPACING ON SOLID SHEATHING TYPICALLY 36" ON CENTER.

12. FASTENERS:
    PLATED FASTENERS WHEN FASTENING TO WOOD. MAKE SURE ALL FASTENERS ARE DRIVEN STRAIGHT AND SET FLAT. DO NOT OVERDRIVE FASTENERS AS THIS WILL CAUSE THE CLIP AND/OR FLASHINGS TO BUCKLE OR BECOME RECESSED BELOW THE ELEVATION OF THE SUBSTRATE.

13. SEALANT RECOMMENDATIONS: TREMCO, INC. SPECTREM 1 SILICONE SEALANT. DO NOT USE CLEAR CAULK.

THESE INSTALLATION INSTRUCTIONS AND THE FOLLOWING TYPICAL DETAILS ARE INTENDED TO PROVIDE OUR CUSTOMERS WITH THE INFORMATION REQUIRED FOR AN AESTHETICALLY PLEASING AND FUNCTIONAL INSTALLATION OF THE BERRIDGE CEE-LOCK STANDING SEAM ROOF PANEL SYSTEM.

THE STANDING SEAM METAL ROOF SYSTEM SHALL COMPLY WITH BERRIDGE MANUFACTURING COMPANY SPECIFICATIONS & DETAILS AS SHOWN ON THIS DRAWING, OR AN APPROVED PRODUCT OF EQUAL DESIGN.

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HOUSTON, TX 77026
1-800-231-8211
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APPROVED ALTERNATE:

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COLUMBIA COUNTY, FLORIDA
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SHEET: A.5

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GENERAL STRUCTURAL NOTES

G E N E R A L:

1. THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN AND EXTENT OF THE WORK AND ARE PARTIALLY DIAGRAMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGH-IN MEASUREMENTS, OR TO SERVE AS SHOP DRAWINGS OR PORTIONS THEREOF.

2. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL OR SECTION IS SHOWN.

3. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR AND ALL THE SUBCONTRACTORS SHALL VERIFY ALL GRADES, LINES, LEVELS, DIMENSIONS AND COORDINATE EXISTING CONDITIONS AT THE JOB SITE WITH THE PLANS AND SPECIFICATIONS. THEY SHALL REPORT ANY INCONSISTENCIES OR ERRORS IN THE ABOVE TO THE ARCHITECT/ENGINEER BEFORE COMMENCING WORK. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL LAY OUT THEIR WORK FROM ESTABLISHED REFERENCE POINTS AND BE RESPONSIBLE FOR ALL LINES, ELEVATIONS AND MEASUREMENTS IN CONNECTION WITH THEIR WORK.

4. IF ANY ERRORS OR OMISSIONS APPEAR IN THE DRAWINGS, GENERAL NOTES OR OTHER DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF SUCH OMISSION OR ERROR PRIOR TO PROCEEDING WITH ANY WORK WHICH APPEARS IN QUESTION. IN THE EVENT OF THE CONTRACTOR'S FAILING TO GIVE SUCH AN ADVANCED NOTICE, HE SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS OR OMISSIONS AND THE COST OF RECTIFYING THE SAME.

5. THE CONTRACTOR SHALL USE THE STRUCTURAL DRAWINGS AND SPECIFICATIONS TOGETHER WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND OTHER TRADE DRAWINGS AND SHOP DRAWINGS, TO LOCATE DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, BOLT SETTINGS, SLEEVES, DIMENSIONS, ETC. NOTIFY ARCHITECT/ENGINEER IN WRITING, OF ANY POTENTIAL CONFLICTS BEFORE PROCEEDING WITH THE WORK.

SHOP DRAWINGS AND DELEGATED ENGINEERING:

1. ALL SHOP DRAWINGS SHALL BE SUBMITTED FOR ENGINEER'S REVIEW ONLY AFTER THEY HAVE BEEN THOROUGHLY REVIEWED BY THE CONTRACTOR FOR CONSTRUCTION METHODS, DIMENSIONS AND OTHER TRADE REQUIREMENTS, AND STAMPED WITH THE CONTRACTOR'S APPROVAL STAMP. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR DIMENSIONS, QUANTITIES, ENGINEERING DESIGN BY DELEGATED ENGINEERS, ERRORS OR OMISSIONS AS A RESULT OF REVIEWING ANY SHOP DRAWINGS. ANY ERRORS OR OMISSIONS MUST BE MADE GOOD BY THE CONTRACTOR, IRRESPECTIVE OF RECEIPT, CHECKING OR REVIEW OF DRAWINGS BY THE ENGINEER AND EVEN THOUGH WORK IS DONE IN ACCORDANCE WITH SUCH DRAWINGS.

2. BEFORE STRUCTURAL INSPECTIONS CAN BE MADE ON A PORTION OF THE STRUCTURE, ALL RELATED SHOP DRAWINGS, DELEGATED ENGINEERING, PRODUCT APPROVAL MANUFACTURER'S DATA AND OTHER RELATED INFORMATION, MUST BE REVIEWED AND ACCEPTED BY THE ENGINEER-OF-RECORD AND APPROVED BY THE BUILDING DEPARTMENT.

3. SHOP DRAWINGS SHALL CONTAIN ALL INFORMATION SHOWN ON THE STRUCTURAL PLANS (RELATED TO THE DELEGATED DESIGN) INCLUDING ALL DESIGN LOADS, IN ADDITION TO THE INFORMATION REQUIRED BY THE DELEGATED ENGINEER'S DESIGN.

4. A/E WILL REVIEW ALL SUBMITTED SHOP DRAWINGS, PREPARED AND SIGNED AND SEALED BY THE CONTRACTOR'S DELEGATED ENGINEER, ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT, REQUIRED LOADING AND COORDINATION WITH THE STRUCTURAL DESIGN.

5. CONTRACTOR SHALL SUBMIT TO THE A/E ONLY ONE SET OF SEPIA AND TWO SETS OF BLUE PRINTS OF THE STRUCTURAL SHOP DRAWINGS FOR A/E REVIEW, BEFORE STARTING FABRICATION. THE A/E WILL RETURN THE MARKED-UP AND STAMPED SEPIA TO THE CONTRACTOR. THESE SEPIA COPIES SHALL BE USED TO MAKE THE PRINTS REQUIRED FOR SHOP DRAWING DISTRIBUTION. SETS OF BLUE PRINTS (WITHOUT SEPIA) WILL NOT BE ACCEPTED.

CONSTRUCTION MEANS AND METHODS:

1. THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE OR PROCEDURES, SAFETY PRECAUTIONS, SHORES, RESHORES, LATERAL BRACING AND PROGRAMS IN CONNECTION WITH THE PROJECT, ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. OUR SERVICES DO NOT GUARANTEE NOR ASSUME LIABILITY FOR THE JOB SAFETY, TEMPORARY SHORING AND BRACING AND THE PERFORMANCE OF THE CONTRACTOR.

2. THE CONTRACTOR IS RESPONSIBLE AND SHALL COMPLY WITH THE SAFETY REQUIREMENTS OF THE STANDARD BUILDING CODE AND ANY OTHER LOCAL, STATE AND FEDERAL LAWS.

3. PROVIDE ALL SHORING, BRACING AND SHEETING AS REQUIRED FOR SAFETY, STRUCTURAL STABILITY AND FOR THE PROPER EXECUTION OF THE WORK. REMOVE WHEN WORK IS COMPLETED.

4. PROVIDE AND MAINTAIN GUARD LIGHTS AT ALL BARRICADES, RAILINGS, OBSTRUCTIONS IN THE STREETS, ROADS OR SIDEWALKS AND ALL TRENCHES OR PITS ADJACENT TO PUBLIC WALKS OR ROADS.

5. AT ALL TIMES, PROVIDE PROTECTION AGAINST WEATHER (RAIN, WIND, STORMS OR THE SUN), SO AS TO MAINTAIN ALL WORK, MATERIALS, APPARATUS AND FIXTURES FREE FROM INJURY OR DAMAGE.

6. AT THE END OF THE DAY'S WORK, COVER ALL WORK LIKELY TO BE DAMAGED. ANY WORK DAMAGED BY FAILURE TO PROVIDE PROTECTION SHALL BE REMOVED AND REPLACED WITH NEW WORK AT THE CONTRACTOR'S EXPENSE.

7. THE CONTRACTOR SHALL PAY FOR ALL DAMAGES TO ADJACENT STRUCTURES, SIDEWALKS AND TO STREETS OR OTHER PUBLIC PROPERTY OR PUBLIC UTILITIES.

STRUCTURAL DESIGN CRITERIA:

1. THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE 2017 FLORIDA BUILDING CODE, 6th EDITION AND OTHER REFERENCED CODES AND SPECIFICATIONS. ALL CODES AND SPECIFICATIONS SHALL BE LATEST EDITION AT TIME OF PERMIT.

2. WIND LOAD CRITERIA:

BASED ON ANSI/ASCE 7-97. BASIC WIND VELOCITY 130 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

FOUNDATIONS: (SPREAD FOOTINGS)

1. FOUNDATIONS ARE DESIGNED TO BEAR ON WELL COMPACTED GRADE OR CLEAN FILL OF AN ALLOWABLE BEARING CAPACITY OF 2,500 PSF MAXIMUM. A CERTIFIED TESTING LABORATORY SHALL BE ENGAGED BY THE OWNER TO VERIFY THAT THE REQUIRED BEARING CAPACITY WAS OBTAINED. SAID SOIL CAPACITY SHALL BE CERTIFIED AND TESTED BY A FLORIDA REGISTERED FOUNDATION ENGINEER, PRIOR TO CASTING OF CONCRETE IN THE FOOTINGS.

2. NATURAL GRADE (OR FILL) BELOW FOOTINGS SHALL BE COMPACTED TO 98% MODIFIED PROCTOR (ASTM D-1557).

3. TOP OF WALL FOOTINGS TO BE AT THE SAME ELEVATION AS TOP OF COLUMN PAD FOOTINGS. STEP WALL FOOTING FROM HIGHER COLUMN FOOTING TO THE LOWER ONE (AS DETAILED ON THE PLANS).

4. TOP OF ALL FOOTINGS TO BE A MINIMUM 1'-4" BELOW THE TOP OF CONCRETE SLABS ON GRADE (UNLESS OTHERWISE NOTED) OR MINIMUM 1'-6" BELOW FINISHED GRADE, WHICHEVER IS LOWER. IN THE EVENT THAT THE SLAB STEPS ON EACH SIDE OF THE FOOTING, THE FOOTING SHALL BE 1'-4" BELOW TOP OF THE LOWER SLAB.

5. REINFORCING IN THE CONTINUOUS WALL FOOTINGS (MONOLITHIC AND NON-MONOLITHIC) SHALL BE SPLICED 36 BAR DIAMETERS MINIMUM AND SHALL EXTEND CONTINUOUSLY THRU ALL FOOTING PADS.

6. ALL LONGITUDINAL REBARS IN THE CONTINUOUS WALL FOOTINGS, SHALL BE CONTINUED AT BENTS AND CORNERS BY BENDING THE REBARS 48 BAR DIAMETERS AROUND THE CORNERS OR ADDING MATCHING CORNER BARS, EXTENDING 48 BAR-DIAMETERS INTO FOOTING EACH SIDE OF CORNER OR BENT.

7. ALL FOOTINGS SHALL BE 12" MINIMUM THICKNESS.

CONCRETE SLABS ON GRADE:

1. ALL INTERIOR AND EXTERIOR SLABS AND WALKWAYS AS SHOWN ON THE STRUCTURAL OR ARCHITECTURAL PLANS, SHALL BE FOUR INCHES THICK MINIMUM REINFORCED WITH 6 X 6 - W1.4 X W1.4 WELDED WIRE FABRIC (UNLESS OTHERWISE NOTED).

2. ALL SLABS ON GRADE TO BE CONSTRUCTED IN ACCORDANCE WITH LATEST A.C.I - "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION" (A.C.I. - 302.1R)

3. JOINTS SHALL BE PROVIDED IN ALL INTERIOR SLABS ON GRADE AT COLUMN CENTER-LINES DIVIDING THE SLAB INTO BAYS NOT TO EXCEED 20 X 20 FT. IN SIZE. CAST SLAB IN LONG ALTERNATE STRIPS. PROVIDE A CONTRACTION JOINT BETWEEN EACH STRIP. SEE PLAN FOR SAW-CUT, CONTRACTION AND ISOLATION JOINT DETAILS.

4. PROVIDE SAW-CUT JOINTS AT ALL SIDEWALKS AT A MAXIMUM SPACING OF FIVE FEET ON CENTERS AND ISOLATION JOINTS AT 20 FEET O.C. (U.O.N.).

5. FILL MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING 12" AND COMPACTED TO 98% MODIFIED PROCTOR (ASTM D-1557) WITHIN A DISTANCE OF 3 FEET BEYOND ALL FOOTING EDGES. TAKE AT LEAST ONE DENSITY TEST FOR EACH 1,600 SQFT. OF AREA AND 12" BELOW SURFACE. SEND RESULTS OF THE TEST TO OWNER, ARCHITECT AND ENGINEER.

CONCRETE AND REINFORCING:

1. CONCRETE DESIGN AND REINFORCEMENT IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (A.C.I. 318 - LATEST EDITION) AND WITH "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" - (A.C.I. 315 - LATEST EDITION).

2. ALL CONCRETE WORK IN ACCORDANCE WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (A.C.I. 301 - LATEST EDITION). PRODUCTION OF CONCRETE, DELIVERY, PLACING AND CURING TO BE IN ACCORDANCE WITH "HOT WEATHER CONCRETING" (A.C.I. 305R - LATEST EDITION).

3. ALL CONCRETE TO BE REGULAR WEIGHT WITH A DESIGN STRENGTH OF 3,000 P.S.I. AT 28 DAYS. MAXIMUM SLUMP 5".

4. ALL REINFORCING TO BE NEW BILLET STEEL CONFORMING TO THE LATEST A.S.T.M. A-615 GRADE 60. FABRICATED IN ACCORDANCE WITH C.R.S.I. MANUAL OF STANDARD PRACTICE AND PLACED IN ACCORDANCE WITH A.C.I. 315 AND C.R.S.I. MANUAL OF STANDARD PRACTICE.

5. CONCRETE COVER UNLESS OTHERWISE DETAILED ON DRAWINGS:

FOOTINGS: (BOTTOM) ..... 3"
(TOP & SIDES) ..... 2"

SLABS ON GRADE: CENTERED W/SLAB

COLUMNS AND BEAMS: (TO THE TIES) ..... 1-1/2"

6. COLUMN REINFORCEMENT: DOWELS TO BE SAME SIZE AND NUMBER AS VERTICAL REBARS ABOVE. LAP 36 BAR DIAMETER OR MINIMUM OF 18 INCHES, U.O.N. PROVIDE RIGID TEMPLATES FOR DOWEL LOCATION. PROVIDE STANDARD HOOKS AT TOP OF ALL VERTICAL REINFORCEMENT AT NONCONTINUOUS COLUMNS (U.O.N.).

7. ALL DOWELS FOR COLUMNS SHALL BE SECURED IN POSITION PRIOR TO CONCRETING. PUSHING THE DOWELS INTO POSITION IN WET CONCRETE IS NOT PERMITTED.

8. BEAM REINFORCEMENT: LAPPED 36 BAR DIAMETER OR MINIMUM 18 INCHES. BOTTOM BARS SPLICED ONLY AT SUPPORTS, TOP BARS SPLICED ONLY AT MID-SPAN. ALL TOP BARS HOOKED AT NONCONTINUOUS EDGES (U.O.N.). ALL HOOKS TO BE STANDARD 90 DEGREE HOOKS AS REQUIRED (U.O.N.).

9. ADDED REINFORCEMENT: PROVIDE ADDITIONAL CORNER BARS BENT 36 INCHES MINIMUM EACH WAY AT "L" AND "T" CORNERS IN OUTER FACES OF ALL BEAMS TO MATCH ALL HORIZONTAL BAR (TOP, BOTTOM AND INTERMEDIATE REBARS).

10. SEE PLAN FOR MINIMUM SIZE CONCRETE TIE BEAM REQUIREMENTS.

REINFORCED MASONRY WALLS:

1. HOLLOW LOAD-BEARING MASONRY UNITS SHALL CONFORM TO ASTM C-90, TYPE I, GRADE N, SQUARE END WITH A MINIMUM AVERAGE COMPRESSIVE STRENGTH ON NET AREA OF f'm=2,000 (PSI.). CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 530.1 SPECIFICATIONS.

2. SPECIAL INSPECTOR SERVICES ARE REQUIRED FOR ALL REINFORCED MASONRY CONSTRUCTION. THE SPECIAL INSPECTOR SHALL INSPECT THE PLACING OF THE REBARS IN THE CELLS, VERIFY CLEANLINESS OF THE CELLS TO BE GROUTED, AND OBSERVE THE PLACING OF THE GROUT OR CONCRETE INTO THE CELLS.

3. MORTAR SHALL CONFORM TO ASTM C-270, TYPE "M" OR "S".

4. LAY ALL MASONRY WITH FULL FACE HEAD JOINTS AND WITH FACE SHELL MORTAR BEDDING.

5. MASONRY ANCHORAGE TO SUPERSTRUCTURE SHALL BE PROVIDED IN ACCORDANCE WITH STRUCTURAL DRAWINGS AND DETAILS.

6. THE USE OF ADMIXTURES SHALL NOT BE PERMITTED WITHOUT PRIOR REVIEW OF THE ENGINEER.

7. VERTICAL REINFORCING:

(A) ASTM A-615 PER REINFORCING SECTION.

(B) WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL CORE IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL INCH TO SIX INCHES VERTICAL FOR ALIGNMENT, EVEN THOUGH IT IS IN A CELL ADJACENT TO THE VERTICAL WALL REINFORCING.

(C) VERTICAL REINFORCING STEEL SHALL BE PLACED CENTERED IN THE CELL. LAP 48 BAR-DIAMETERS. PROVIDE BAR SPACERS AS REQUIRED TO MAINTAIN REINFORCING SECURED IN POSITION.

(D) VERTICAL REINFORCEMENT SHALL BE PROVIDED AT EACH SIDE OF OPENINGS IN WALL, AT WALL INTERSECTIONS, CORNERS AND ENDS. THIS REINFORCING SHALL BE THE SAME SIZE AS THE SCHEDULED WALL REINFORCING FOR THE PARTICULAR WALL BUT NEVER LESS THAN A #5 REBAR. SPECIAL CARE SHALL BE TAKEN TO INSURE THAT CELLS TO BE GROUTED LINE UP PROPERLY AND ARE CLEAN OF EXCESS MORTAR.

(E) ALL VERTICAL REINFORCING SHALL BE HOOKED INTO THE BOND BEAMS AT THE NON-CONTINUOUS END OF THE REBARS.

(F) PROVIDE INSPECTION HOLES AT THE BOTTOM OF EACH REINFORCED MASONRY CELL, AS REQUIRED FOR LIFTS HIGHER THAN 5 FT.

8. HORIZONTAL REINFORCING:

PROVIDE GALVANIZED #9 GAGE, LADDER TYPE HORIZONTAL JOINT REINFORCING EVERY SECOND BLOCK COURSE (1'-4" O.C. VERTICALLY) LAPPED 7-1/2". PROVIDE SPECIAL HORIZONTAL REINFORCING AT "T" AND "L" INTERSECTION. ANCHOR TO COLUMNS WITH MINIMUM 4" EXTENSION INTO AREA OF POUR.

9. PROVIDE "DOVE-TAIL" ANCHORS AT 16" O.C. VERTICALLY FOR ALL MASONRY PLACED ADJACENT TO ALREADY IN PLACE COLUMNS.

10. CELL FILLING CONCRETE SHALL BE "PEA DOCK" CONCRETE MIX (8" TO 9" SLUMP) OR GROUT WITH f'c=3,000 PSI MIN. AT 28 DAYS.

11. LINTELS:

A. THE CONTRACTOR SHALL PROVIDE PRECAST CONCRETE OR CAST-IN-SITE LINTELS AT THE HEADS OF ALL OPENINGS IN MASONRY WALLS NOT EXCEEDING SIX (6) FEET IN WIDTH WHERE BEAMS HAVE NOT BEEN SPECIFIED. FOR OPENING ADJACENT TO CONCRETE COLUMNS - THE LINTEL SHALL BE CAST-IN-PLACE WITH THE COLUMN.

B. LINTEL MAY BE INTEGRAL WITH THE STRUCTURAL OR TIE BEAM WHEN HEAD OF THE OPENING IS 16 INCHES OR LESS BELOW. CONTINUE BEAM'S TYPICAL BOTTOM REBARS THROUGH AND ADD 2-#5 BOTTOM TRUSS BARS AT DROPS AND 2-#3 STIRRUPS AT 6 INCHES O.C. EACH END AT DROP.

C. MINIMUM BEARING FOR ALL LINTELS 8 INCHES EACH SIDE OR PROVIDE DOWELS AND POCKETS IN ADJACENT CONCRETE COLUMNS.

D. LINTEL TO BE MINIMUM OF 8 INCHES DEEP WITH 2-#4 TOP AND BOTTOM FOR CLEAR SPANS LESS THAN 6 FEET, 12 INCHES DEEP WITH 2-#5 TOP AND BOTTOM AND 2-#3 STIRRUPS AT 6 INCHES O.C. EACH END, FOR SPANS GREATER THAN 6 FEET (UP TO 8 FEET). CALL ENGINEER FOR SPANS LARGER THAN 8 FEET WITH NO SPECIFIED BEAMS OR LINTELS OVER.

STRUCTURAL STEEL: (SHOP DRAWINGS REQUIRED)

1. ALL STRUCTURAL STEEL TO BE DOMESTIC A.S.T.M. A-36 (Fy=36 K.S.I.) AND DESIGNED IN ACCORDANCE WITH THE LATEST A.I.S.C. "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND THE A.I.S.C. CODE OF STANDARD PRACTICE.

2. STEEL TUBES TO BE DOMESTIC STEEL CONFORMING TO A.S.T.M. A-500 GRADE B (Fy=46 K.S.I.).

TUBE AND PIPE COLUMNS TO BE CONCRETE FILLED WITH VENT HOLES TOP, MIDDLE AND BOTTOM.

3. ALL COLUMN BASE AND CAP PLATES SHALL BE 3/4" THICK (UNLESS OTHERWISE NOTED). WIDTH AND LENGTH AS REQUIRED FOR PROPER BOLTING AND AS INDICATED ON THE PLANS AND DETAILS.

4. ALL WELDING TO BE IN ACCORDANCE WITH A.W.S. LATEST "STRUCTURAL WELDING CODE - STEEL", CLEAN AND RUSTPROOF ALL FIELD WELDS WITH HEAVY DUTY RUSTPROOFING PAINT.

5. ALL CONNECTIONS TO BE FIELD AND SHOP WELDED AND TO DEVELOP MEMBER IN SHEAR.

6. SPLICE LOCATIONS TO BE REVIEWED BY ARCHITECT/ENGINEER.

7. STEEL BEARING ON STEEL TO BE WELDED THERETO.

STRUCTURAL WOOD:

1. TO CONFORM TO RULES OF THE MANUFACTURER'S ASSOCIATION UNDER WHOSE RULES THE LUMBER IS PRODUCED. (SEE SUPPLIER'S SPECIFICATIONS).

2. TO BE AIR DRIED, WELL SEASONED AND GRADE MARKED AT MILL.

3. TO BE NO. 2 SOUTHERN PINE, UTILITY GRADE DOUGLAS FIR OR WEST COAST HEMLOCK.

4. ALL STRUCTURAL WOOD TO BE SURFACED FOUR (4) SIDES (S-4-S) WITH A MINIMUM FIBER STRESS IN BENDING OF 1,200 P.S.I. AND A MAXIMUM MOISTURE CONTENT OF 19 PERCENT.

5. ALL LUMBER AND PLYWOOD IN CONTACT WITH CONCRETE, STUCCO, MASONRY OR OTHER CEMENTITIOUS MATERIALS SHALL BE TREATED TO COMPLY WITH AWPA STANDARD LP-2.

6. STORE ALL LUMBER ABOVE GRADE OR FLOOR. STACK TO ALLOW PROPER AIR CIRCULATION AND PROTECT FROM WETTING WITH SUITABLE COVER.

WOOD TRUSSES: (DELEGATED ENGINEERED SHOP DRAWING REQUIRED)

1. DESIGNED AND FABRICATED IN ACCORDANCE WITH "NATIONAL DESIGN SPECIFICATIONS FOR STRESS GRADE LUMBER AND ITS FASTENERS" BY NFPA (LATEST REVISION).

2. TRUSSES SHALL BE DESIGNED, SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER, WHO SHALL BE ASSIGNED AS A DELEGATED ENGINEER FOR THE CONTRACTOR. THE DELEGATED ENGINEER DESIGN AND INDICATE ON THE SHOP DRAWINGS ALL TRUSS COMPONENTS, TEMPORARY BRACING, BRIDGING, HARDWARE, METAL HANGERS, ANCHORS AND METAL SHAPES AS REQUIRED BY DESIGN OR AS INDICATED ON THE PLANS. ALL METAL PARTS TO BE GALVANIZED.

3. TRUSS DESIGNER ENGINEER SHALL INDICATE THE NET WIND UPLIFT REACTIONS FOR EACH TRUSS AND GIRDER TRUSS. EACH TRUSS SHALL BE STRAPPED TO THE SUPPORT WITH A HURRICANE STRAP (AS PER DETAIL ON PLAN). THE SIZE OF STRAP AND AMOUNT OF NAILS SHALL BE SELECTED BASED ON THE UPLIFT DATA OF THE STRAP AND THE TRUSS SHOP DRAWINGS.

4. ALL SEATS FOR THE WOOD GIRDER TRUSSES HAVE BEEN SPECIFIED BY THE A/E IN COORDINATION WITH LOCATION AND LOADING INFORMATION PROVIDED ON THE PRE-ENGINEERED WOOD TRUSS SHOP DRAWINGS.

5. THE STRUCTURAL PLANS INDICATE ALL THE REQUIRED LATERAL PERMANENT BRIDGING, AS RECOMMENDED BY THE "TRUSS PLATE INSTITUTE". TRUSS DESIGNER ENGINEER SHALL PROVIDE INFORMATION AND SHOW ON PLAN, ALL LATERAL BRACING OF ANY TRUSS INDIVIDUAL MEMBERS, AS REQUIRED BY TRUSS DESIGN.

6. TRUSSES SHALL BE INSTALLED WITH OUT OF PLUMB AND OUT OF PLANE TOLERANCES, AS PER THE "TRUSS PLATE INSTITUTE" (SHOWN ON THE ROOF PLAN). ANY TRUSS EXCEEDING THE SPECIFIED TOLERANCE MUST BE REALIGNED OR REPLACED.

7. INSTALLATION OF TRUSSES LONGER THAN 35 FT. OR HIGHER THAN 6 FT. SHALL BE MADE UNDER THE DIRECT SUPERVISION OF A LICENSED BUILDING OR GENERAL CONTRACTOR OR A LICENSED STRUCTURAL ENGINEER OR ARCHITECT.

PLYWOOD ROOF DIAPHRAGM:

1. ROOF DIAPHRAGM SHALL COMPLY WITH THE DESIGN RECOMMENDATIONS OF "APA DESIGN/CONSTRUCTION GUIDE - DIAPHRAGMS" AND THE LOCAL BUILDING CODE.

2. PLYWOOD ROOF DECKING SHALL BE 19/32" MINIMUM THICKNESS, CDX TYPE AND SHALL BE CONTINUOUS OVER TWO OR MORE SPANS, WITH FACE GRAIN PERPENDICULAR TO THE SUPPORTS.

3. CONNECT PLYWOOD DIAPHRAGM TO STRUCTURE WITH 10d GALV. NAILS, SPACED AT 6" O.C. MAX. AT SUPPORTED EDGES AND AT 6" O.C. ALONG THE INTERMEDIATE SUPPORTS.

GABLE ENDS NAIL SPACING SHALL BE 4" ON CENTERS MAXIMUM.

4. INSPECTIONS: COMPLY WITH THE LOCAL BUILDING CODE AND OTHER REQUIREMENTS FOR INSPECTIONS (BY THE COUNTY, CITY, ARCHITECT OR ENGINEER) OF SPECIFIED COMPONENTS OF THE ROOF STRUCTURE REQUIRING INSPECTIONS.

COLD FORMED METAL FRAMING: (SHOP DRAWINGS REQUIRED)

1. ALL COLD FORMED METAL FRAMING SHALL BE DOMESTIC A.S.T.M. A 653 (Fy = 33 K.S.I.) STEEL, AND DESIGNED IN ACCORDANCE WITH THE LATEST S.S.M.A. SPECIFACATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF COLD FORMED METAL FRAMING AND THE S.S.M.A. CODE OF STANDARD PRACTICE.

2. ALL CFMF COMPONENTS SHALL BE MANUFACTURED AS PER ASTM C 955 AND BE GALVANIZED WITH A MINIMUM G-60 COATING PER ASTM C 955.

ALL PRODUCTS SHALL BE FREE OF RUST, DENTS, BENDS & TWISTS AND STORED ON A FLAT PLANE PRIOR TO INCLUSION IN THE WORK.

3. ALL WELDING TO BE IN ACCORDANCE WITH A.W.S. LATEST, E1.3 & D1.3 "STRUCTURAL WELDING CODE - STEEL". CLEAN AND RUSTPROOF ALL FIELD WELDS WITH ZINC RICH RUSTPROOFING PAINT.

4. BOTTOM TRACK SHALL BE SECURED TO THE CONCRETE FOUNDATION W/ ANCHOR BOLTS AS PER THE FOUNDATION PLAN AND SHALL BE FURTHER FASTENED AT EA. FULL STUD W/ #11 X 1½" PAF, SHOT THROUGH A 1"# X 16 GA HOLELESS WASHER.

5. ALL CONNECTIONS TO BE FIELD AND SHOP WELDED AND TO FULLY DEVELOP MEMBER IN SHEAR.

6. SPLICE LOCATIONS TO BE REVIEWED BY ARCHITECT/ENGINEER.

7. STEEL BEARING ON STEEL TO BE WELDED THERETO.

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REVISION:

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DRAWN: MB

CUSTOM RESIDENTIAL DESIGN for:
MR. & MRS. P. J. PATEL
COLUMBIA COUNTY, FLORIDA
STRUCTURAL NOTES

Ally Collaborative
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AR0007005

FIELD "AS-BUILT" NOTES

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PROJECT INFORMATION / NOTES:

DESIGN VALUES/LOADS & CODES

WIND DESIGN SPEED: 130 MPH, UNLESS NOTED OTHERWISE

SOIL DESIGN STATEMENT:
FOOTING DESIGN IS BASED UPON 1000PSF SOIL BEARING PRESSURE PROVIDED BY CLEAN SAND, GRAVEL OR STONE. OTHER SOIL CONDITIONS ie: CLAY, HIGH LEVEL OF ORGANICS OR OTHER UNDESIRABLE SOILS SHALL REQUIRE FOUNDATION MODIFACATIONS.

LIVE LOADS: 1st FLOOR: 40PSF, 2nd FLOOR: 40PSF, ROOF: AS DETERMINED BY SHAPE FACTORS APPLIED TO THE WIND FORCE GENERATED BY THE DESIGN WIND SPEED.

BUILDING CODE: 2014 FLORIDA BUILDING CODE

ELECTRICAL CODE: NATIONAL ELECTRICAL CODE - LATEST
LIFE SAFETY: NFPA-101 - LATEST

CONSTRUCTION DOCUMENTS

THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE REQUIRED SETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITIES, FOR THE ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR SHALL REVIEW THE CONSTRUCTION DOCUMENTS AND VERIFY ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF ANY WORK OR FABRACATION OF ANY MATERIALS.

DO NOT SCALE OFF THESE PLANS

AMPLE DIMENSIONS ARE SHOWN ON THE PLANS TO LOCATE ALL ITEMS. SIMPLE ARITHMETIC MAY BE USED TO DETERMINE THE LOCATIONS OF THOSE ITEMS NOT DIMENSIONED.

CHANGES TO FINAL PLAN SETS

PLEASE DO NOT MAKE ANY STRUCTURAL CHANGES TO THESE PLANS WITHOUT CONSULTING WITH THE ARCHITECT. THE OWNER SHALL ASSUME ANY AND ALL LIABILITY FOR STRUCTURAL DAMAGE RESULTING FROM CHANGES MADE TO THE PLANS OR BY SUBSTITUTION OF MATERIALS DIFFERENT FROM SPECIFICATION ON THE PLANS.

GENERAL NOTES:

1. THE CONTRACTOR SHALL INDEMNIFY THE OWNER AGAINST ALL CLAIMS, WHETHER FROM PERSONAL INJURY OR PROPERTY DAMAGE, ARISING FROM EVENTS ASSOCIATED WITH THE WORK PERFORMED UNDER THE CONTRACT FOR THIS PROJECT.

2. THE CONTRACTOR AND/OR SUB-CONTRACTORS SHALL WARRANT ALL WORK FOR A PERIOD OF ONE YEAR FOLLOWING THE DATE OF FINAL COMPLETION AND ACCEPTANCE BY THE OWNER. DEFECTS IN MATERIALS, EQUIPMENT, COMPONENTS AND WORKMANSHIP SHALL BE CORRECTED AT NO FURTHER COST TO THE OWNER DURING THE ONE YEAR WARRANTY PERIOD.

3. AT THE OWNER'S OPTION, A WARRANTY INSPECTION SHALL BE PERFORMED DURING THE ELEVENTH MONTH FOLLOWING THE COMMENCEMENT OF THE WARRANTY PERIOD, FOR THE PURPOSE OF DETERMINING ANY WARRANTY WORK THAT MAY BE REQUIRED. THE CONTRACTOR SHALL BE PRESENT DURING THIS INSPECTION IF REQUESTED BY THE OWNER.

4. THE CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES, TESTS AND THE LIKE THAT MAY BE REQUIRED BY THE VARIOUS AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT BE THEY CITY, COUNTY, STATE OR FEDERAL.

5. THE OWNER SHALL FILE A "NOTICE OF COMMENCEMENT" PRIOR TO THE BEGINNING THE THE PROJECT AND THE CONTRACTOR(S) SHALL FILE "NOTICE TO OWNER" AND PROVIDE "RELEASE OF LIEN" FOR ALL PAYMENT REQUESTS PRIOR TO DISBURSEMENT OF ANY FUNDS.

6. ANY AND ALL DISPUTES ARISING FROM EVENTS ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT BETWEEN THE OWNER, CONTRACTOR(S) AND SUPPLIERS SHALL BE RESOLVED THROUGH BINDING ARBITRATION.

7. ALL WORK SHALL BE IN ACCORDANCE W/ APPLICABLE CODES AND LOCAL REGULATIONS, INCLUDING APPLICABLE ENERGY CODES. ALL COMPONENTS OF THE BUILDING SHALL MEET WITH THE MINIMUM ENERGY REQUIREMENTS OF THE BUILDING CODE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IN WRITING PRIOR TO THE COMMENCEMENT OF THE WORK.

8. ALL INSULATION SHALL BE LEFT EXPOSED AND ALL LABLES LEFT INTACT ON THE WINDOWS AND DOORS UNTIL INSPECTED BY THE BUILDING OFFICIAL.

9. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.

10. INTERIOR BEARING WALLS SHALL BE CONSTRUCTED IN COMPLIANCE WITH "UL Design U333", BATT INSULATION SHALL BE INCLUDED WHERE UNCONDITIONED AREA IS BEING SEPARATED FROM HEATED / COOLED AREA.

11. INTERIOR STUD WALLS SEPARATING LIVING AREA FROM GARAGE AREAS SHALL BE CONSTRUCTED IN COMPLIANCE WITH "UL Design U333", INCLUDING R-11 BATT INSULATION.

12. CEILINGS OVER ATTACHED GARAGES OR GARAGES W/ LIVING AREA ABOVE SHALL BE 5/8" FIRECODE "C" GWB ON 1X3 WOOD FURRING AT 16" O.C., ATTACHED W/ 1 1/4" BUGLE-HEAD SCREWS @ 6" O.C. ALONG EACH POINT OF BEARING.

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 1403.4.4
3. IRRIGATION/SPRINKLER SYSTEMS INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" FROM BUILDING SIDE WALLS. FBC 1403.4.4
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 3/8" 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, BRACING OR OTHER CELLULOSE CONTAINING MATERIAL. FBC 2303.1.3
15. NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC., SHALL BE BURIED WITHIN 5'-0" OF ANY BUILDING OR PROPOSED BUILDING. FBC 2303.1.4

BUILDING COMPONENTS & CLADDING LOADS
MEAN BUILDING HEIGHT = 30.0', EXPOSURE "B"
ROOF ANGLE 1° TO 27°

	ZONE	AREA	Vult 110 MPH	Vult 120 MPH	Vult 130 MPH	Vult 140 MPH
ROOF 1° TO 27°	1	10	12.0 / -19.9	14.9 / -23.7	17.5 / -27.8	20.3 / -32.3
	1	20	11.4 / -19.4	13.6 / -23.0	16.0 / -27.0	18.5 / -31.4
	1	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
	2	20	11.4 / -31.9	13.6 / -38.0	16.0 / -44.6	18.5 / -51.7
	2	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
	3	20	11.4 / -47.9	13.6 / -57.1	16.0 / -67.0	18.5 / -77.7
	3	50	10.0 / -43.5	11.9 / -51.8	13.9 / -60.8	16.1 / -70.5
SHELL	4	10	21.8 / -23.6	25.9 / -34.7	30.4 / -33.0	35.3 / -38.2
	4	20	20.8 / -22.6	24.7 / -26.9	29.0 / -31.6	33.7 / -36.7
	4	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
	5	20	20.8 / -27.2	24.7 / -32.4	29.0 / -38.0	33.7 / -44.0
	5	50	19.5 / -24.6	23.2 / -29.3	27.2 / -34.3	31.6 / -39.8

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

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 CATAGORY: 2

BASED ON ANSI/ASCE 7-16. 2020 FBC 1609-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 TRUSS SHOP DRAWINGS

SYMBOLS

THESE SYMBOLS ARE MOST OFTEN ENCOUNTERED IN THE FOLLOWING DRAWINGS: ELEVATIONS, DIMENSION PLANS, SECTIONS & STRUCTURAL PLANS

+/- 0'-0"
TOP OF SUB-FLOOR — TYPE OF ELEVATION MARK USED TO INDICATE A PREFERRED TARGET ELEVATION - TRUE MEASUREMENT.

TOP OF 19th LOG COURSE
NOMINAL = 8'-8 1/2" — TYPE OF ELEVATION MARK USED TO INDICATE THE TOP OF A LOG WALL STACK - NOMINAL ONLY.

A / A5 — TYPE OF DETAIL MARK USED TO INDICATE A SECTION OR DETAIL ASSOCIATED WITH A PLAN VIEW

A / A5 — TYPE OF DETAIL MARK USED TO INDICATE A SECTION ie: SECTION "A" ON SHEET "A5". TAIL INDICATES DIRECTION OF VIEW

A / A5 — TYPE OF SECTION MARK USED TO INDICATE A VIEW TAKEN IN THE DIRECTION OF THE ARROW ie: SECTION "A" FOUND ON "D.66" OF THE PROJECT MANUAL

FRAMING ANCHOR SCHEDULE

APPLICATION	MANUFR/MODEL	CAP.
TRUSS TO WALL:	SIMPSON H2.5a	535#
GIRDER TRUSS TO POST/HEADER:	SIMPSON LGT, W/ 28 - 16d NAILS	1185#
HEADER TO KING STUD(S):	SIMPSON ST22	1310#
PLATE TO FOUNDATION:	5/8"ø THRU-BOLT	3340#
PORCH BEAM TO POST:	SIMPSON PC44/EPC44	1100#
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 #97-0707.05, #96-1126.11, #99-0623.04
SBCCI NER-443, NER-393

GENERAL NAILING SCHEDULE:

NUMBER OF NAILS FOR CONNECTING WOOD MEMBERS:

CONNECTION	COMMON NAILS	Nr. / SPACING
BRIDGING TO JOIST, TOE NAIL	16d	2 EA. END
2" SUBFLOOR TO JOIST, BLIND & FACE NAILING	16d	2
SOLE PLATE TO JOIST OR BLOCKING FACE NAILED	16d	16" O.C.
TOP OR SOLE PLATE TO STUD END NAILED	16d	2
STUD TO SOLE PLATE, TOE NAILED	8d	3 OR 2 16d
DOUBLE STUDS, FACE NAILED	16d	24" O.C.
DOUBLE TOP PLATES, FACE NAILED	16d	16" O.C.
TOP PLATES - LAPS & INTERSECTIONS FACE NAILED	16d	2
1 X 6 SHEATHING TO EACH POINT OF BEARING, FACE NAILED	8d	2
BUILT-UP CORNER STUDS, FACE NAILED	16d	30" O.C.
BUILT-UP GIRDERS & BEAMS	20d	32" O.C. @ TOP & BOTTOM & STAGGERED - 2 @ EA. END & @ SPLICES
3/4" PLYWOOD SUBFLOORING	8d RS.	6" O.C. @ EDGES 10" O.C. @ INTERMEDIATE
OSB SHEATHING, 7/16" THICK	8d RS.	6" O.C. @ EDGES 10" O.C. @ INTERMEDIATE

A. NAILS, BOLTS AND OTHER METAL CONNECTORS WHICH ARE USED IN LOCATIONS EXPOSED TO THE WEATHER SHALL BE GALVANIZED OR OTHERWISE CORROSION RESISTANT.

B. IN GENERAL, NAILS SHALL PENETRATE THE SECOND MEMBER A DISTANCE EQUAL TO THE THICKNESS OF THE MEMBER BEING NAILED THERETO, OR GREATER.

C. THERE SHALL BE NOT LESS THAN 2 NAILS PER CONNECTION.

D. GLUING SHALL NOT BE CONSIDERED AN ACCEPTABLE CONNECTOR IN LIEU OF THOSE SPECIFIED HEREIN.

E. FORMED METAL CONNECTORS, AS PER THE SCHEDULE HEREIN, SHALL HAVE THE NUMBER OF NAILS INSTALLED AS REQUIRED BY THE MANUFACTURER, OR AS DIRECTED BY THE PLANS.

F. NAILS PROJECTING BEYOND THE LAST WOOD MEMBER SHALL BE CLINCHED, WHEREVER POSSIBLE.

G. NOTES IN THE "PLANS" PACKAGE OF THE CONSTRUCTION DOCUMENTS SUPERSEDE SIZES & SPACINGS OF NAILS CONTAINED HEREIN.

REVISION:

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DRAWN: TPB

CUSTOM RESIDENTIAL DESIGN for:
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COLUMBIA COUNTY, FLORIDA
STRUCTURAL INFORMATION

Alt. Calculations
Alt. Plans Submitted
12-7-2020
N.P. Geisler, Architect

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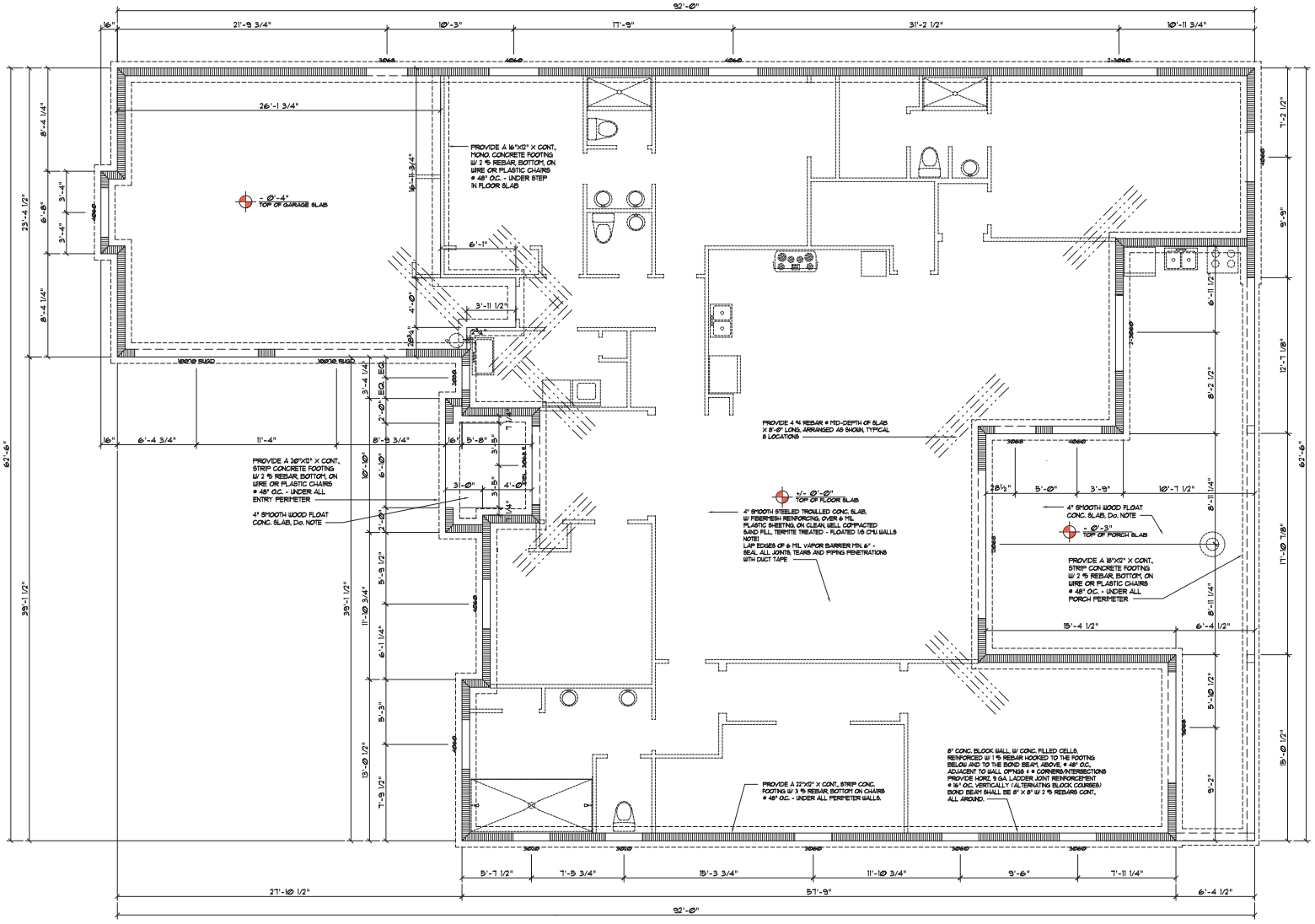

FOUNDATION PLAN

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

CONCRETE / MASONRY / METALS GENERAL NOTES:

1. DESIGN SOIL BEARING PRESSURE: 1000 PSF.
2. 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.
3. 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 2500 SF OF BUILDING PAD AREA, OR FRACTION THEREOF, FOR EACH 12" LIFT.
4. REINFORCING STEEL SHALL BE GRADE 60 AND MEET THE REQUIREMENTS OF ASTM A615, ALL BENDS SHALL BE MADE COLD.
5. WELDED WIRE MESH SLAB REINFORCING SHALL MEET THE REQUIREMENTS OF ASTM A185 - MIN. YELD STRESS = 85 KSI.
6. 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. FORMS, PLACING AND FINISHING SHALL BE AS PER ACI STANDARDS.
7. CONCRETE BLOCK SHALL BE AS PER MANUFACTURER'S PRODUCT GUIDE FOR ASTM C-90 REQUIREMENTS WITH MEDIUM SURFACE FINISH - F'm = 1500 PSI.
8. MORTAR SHALL BE TYPE "M" OR "N" FOR ALL MASONRY UNITS.
9. STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 STANDARDS FOR STRENGTH, BOLTS SHALL BE ASTM A307 / GRADE 1 OR A325, AS PER PLAN REQUIREMENTS.
10. WELDS SHALL BE AS PER "AMERICAN WELDING SOCIETY" STANDARDS FOR STRUCTURAL STEEL APPLICATIONS.

CONSTRUCTION NOTES

1. FIELD VERIFY ALL DIMENSIONS AND MATERIALS. ALL OUTSIDE DIMENSIONS ARE TO FACE OF FOUNDATION.
2. ALL NAILING CONSTRUCTION MATERIALS SHALL BE AS PER 2017 FBC - SEE A6
3. PROVIDE EXTERIOR COMBUSTION AIR TO GAS FIRED H.V.A.C. EQUIPMENT, WOOD BURNING STOVES, AND FIREPLACES.
4. VENT CLOTHES DRYER, BATH, AND COOKING FANS TO EXTERIOR AS REQUIRED.
5. CONTRACTOR SHALL CALL ATTENTION TO THE DESIGNER, ANY DISCREPANCIES IN DRAWINGS AND/OR SPECIFICATIONS AND SHALL RECEIVE INSTRUCTIONS OR CLEARIFACATIONS BEFORE PROCEEDING WITH THE PORTION OF THE WORK IN QUESTION.
6. ROOF & FLOOR TRUSS FRAMING PLANS ARE FOR GENERAL INFORMATION ONLY. THE TRUSS MANUFACTURER SHALL PROVIDE A DETAILED LAYOUT FOR TRUSS AND FRAMING MEMBERS.
7. SHOULD CONDITIONS AT THE SITE BE FOUND MATERIALLY DIFFERENT FROM THOSE INDICATED BY THE DRAWINGS AND/OR SPECIFICATIONS, AND THE CONDITIONS USUALLY INHERENT IN THE WORK OF THE CHARACTER SHOWN AND SPECIFIED BE DIFFERENT FROM THE DESIGNERS RECOMMENDED BUILDING PROCEDURES; CALL IMMEDIATE ATTENTION TO SUCH CONDITIONS BEFORE PROCEEDING.
8. LP GAS-BURNING APPLIANCES ARE NOT PERMITTED IN BASEMENTS OR CRAWLSPACES.
9. DO NOT SCALE DRAWINGS. USE PRINTED DIMENSIONS ONLY.

NOTE!
THE DESIGN WIND SPEED FOR THIS PROJECT IS 130 MPH PER 2020 FBC 1609 AND LOCAL JURISDICTION REQUIREMENTS

NOTE!
ADDED FILL SHALL BE APPLIED IN 8" LIFTS - E.L.FT 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.

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.

REVISION:

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DRAWN: MPB

CUSTOM RESIDENTIAL DESIGN for:
MR. & MRS. P. J. PATEL
COLUMBIA COUNTY, FLORIDA
FOUNDATION PLAN

4th Calculations
Submitted 10-22-2021
N.P. Geisler, Architect

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

DATE: 21 SEP 2021

COMM: 2K2104

SHEET: A.8

AR0007005

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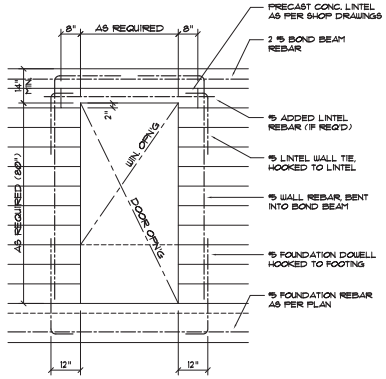
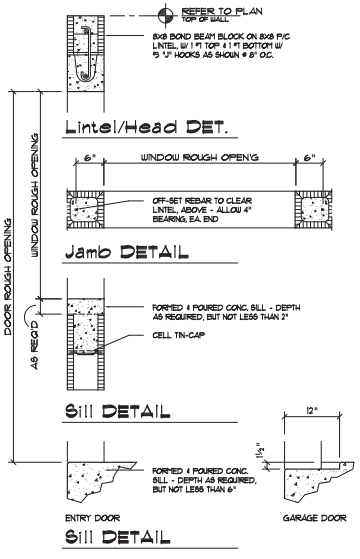
NOTE!
ALL BLOCK CELLS CONTAINING VERTICAL REINFORCING, SHALL BE SOLIDLY FILLED WITH CONCRETE - SEE GENERAL NOTES



Typical Door/Window Opening Reinforcing DET.

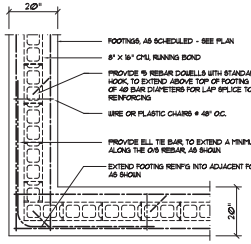
SCALE: 1/2" = 1'-0" (A)

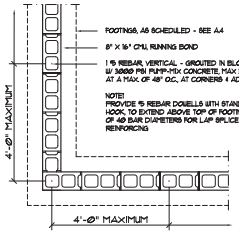
NOTE!
REFER TO GENERAL NOTES FOR LAP SPLICE AND HOOK MINIMUM LENGTH/SIZE - ALL PER ACI 318-LATEST



Masonry Opn'g DET'S

SCALE: 1" = 1'-0" (B)





Wall/Foundation Reinf'g DETAIL

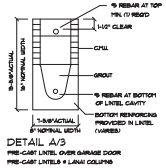
SCALE: 1/2" = 1'-0" (C)

TYPE DESIGNATION

F = FILLED WITH GROUT / U = UNFILLED
QUANTITY OF #5 REBAR AT BOTTOM OF LINTEL CAVITY

8F16 - 1B/1T

NOMINAL WIDTH
NOMINAL HEIGHT
QUANTITY OF #5 REBAR AT TOP



DETAIL A/3
PRE-CAST LINTEL OVER GARAGE DOOR
PRE-CAST LINTELS @ LANAI COLUMNS

8" PRECAST & PRESTRESSED U-LINTELS

MARK	LENGTH	TYPE	SIZE	GRAVITY							
				8F8-2B	8F12-2B	8F16-2B	8F20-2B	8F24-2B	8F28-2B	8F32-2B
				8F8-1B	8F12-1B	8F16-1B	8F20-1B	8F24-1B	8F28-1B	8F32-1B
L4	4'-0"	(48") PRECAST	16/61	1371	1813	2687	3489	4149	4896	5644
				2719	4897	6893	7826	9604	10472	12468
L5	5'-4"	(64") PRECAST	19/4	1223	1561	1909	2371	2826	3556	3946
				1449	2869	3697	4696	5450	6434	7450
L6	7'-4"	(88") PRECAST	26/1	1073	1415	2383	1954	2436	3086	3355
				1203	1673	2442	3659	3956	4613	5247
L8	9'-4"	(112") PRECAST	9/13	632	1045	1469	1751	1412	1754	2087
				768	112	1198	2544	3469	4059	3171
L10	10'-4"	(124") PRECAST	4/56	492	862	1131	1311	1112	1338	1513
				656	1129	1514	3458	2774	3312	2484

CMU WINDOW SCHEDULE

MARK	TYPE	WINDOW LINTEL	ROUGH OPENING	REMARKS
3030	8H 23	54"	37 3/4" X 39"	
3050	8H 25	54"	37 3/4" X 63"	EGRESS WINDOW
2-3050	(2) 8H 25	90"	74 7/8" X 63"	EGRESS WINDOW
2-2050	(2) 8H ½ 35	64"	54 3/4" X 63"	
3-2850	(3) 8H 28	112"	100" X 63"	
3-3050	(2) 8H ½ 35	126"	112" X 63"	

ALL WINDOWS MANUFACTURED BY: TBD

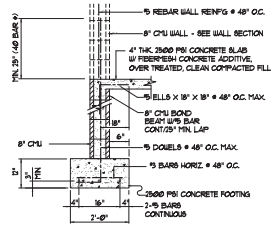
8" PRECAST W/ 2" RECESS DOOR U-LINTELS

MARK	LENGTH	TYPE	SIZE	GRAVITY							
				8RP8-2B	8RP10-2B	8RP14-2B	8RP18-2B	8RP22-2B	8RP26-2B	8RP30-2B
				8RP8-1B	8RP10-1B	8RP14-1B	8RP18-1B	8RP22-1B	8RP26-1B	8RP30-1B
L33	4'-6"	(54") PRECAST	13/1	1449	2182	2714	3489	4481	5373	6284
				1560	3412	4982	6472	7941	9484	10978
L36	6'-0"	(80") PRECAST	8/2	1371	1671	2133	2916	3223	3872	4522
				1871	1671	2133	4189	6139	8171	6187
L37	7'-4"	(88") PRECAST	6/6	1/4	1371	2351	1954	2484	3544	3436
				1/4	1371	2329	3489	5482	6624	5412

CMU DOOR SCHEDULE

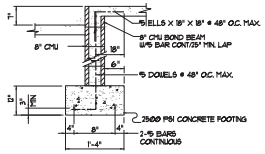
TYPE	DOOR LINTEL	REMARKS
3068 INS	54"	PRE-CAST REC.
5068 FRENCH	80"	PRE-CAST REC.
6068 FRENCH	90"	PRE-CAST REC.

ALL DOORS MANUFACTURED BY: TBD



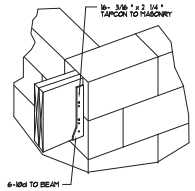
STEMWALL SECTION

SCALE: 1/2" = 1'-0" (D1)



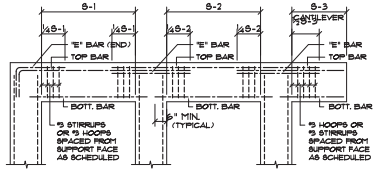
STEMWALL SECTION

SCALE: 1/2" = 1'-0" (D2)



"Simpson" HUSC410

SCALE: NONE
WOOD BEAM TO MASONRY (E)



BOTTOM BARS - TOP BARS - "E" BARS

BENDING DIAGRAM: CAST-IN-PLACE CONCRETE BEAMS AND SLABS

GENERAL BEAM SCHEDULE NOTE:

1. SCHEDULED HOOPS OR STIRRUPS SHALL BE PLACED AT EACH END OF BEAM UNLESS NOTED OTHERWISE. STIRRUPS SHALL BE TYPE S-6 & HOOPS SHALLBE TYPE T-2 TYPICAL CRSI BAR BENDS UNLESS NOTED OTHERWISE.
2. BUNDLE ALL STRUCTURAL BEAM TOP BARS IN PAIRS OVER SUPPORTS WITH TOP BARS FROM ADJACENT BEAMS.
3. ALL CONCRETE BEAMS OTHER THAN TI-08E WITH THE PREFIX TB SHALL BE POURED PRIOR TO PLACING OF BLOCK BELOW.
4. ALL TIE BEAM REINFORCING SHALL BE CONTINUOUS THROUGH TIE BEAMS ONLY. ALL SPLICES SHALL BE A MINIMUM OF 30 BAR DIAMETERS.
5. ALL TIE BEAM TOP REINFORCING SHALL EXTEND INTO SPAN OF ANY ADJACENT STRUCTURAL BEAM AS PER BENDING DIAGRAM.
6. DROP BOTTOM OF TIE BEAMS AS REQUIRED AT WINDOW AND DOOR HEADS (28" MAXIMUM) AND ADD 2 #5 BOTTOM IF DROP EXCEEDS 8".
7. TIE BEAM SCHEDULED DEPTHS ARE MINIMUM AND MAY BE INCREASED (8" MAXIMUM) TO FIT BLOCK WORK.
8. ALL ADDED LONGITUDINAL BEAM REINFORCING SHALL EXTEND A MINIMUM OF 6" INTO SUPPORT UNLESS NOTED OTHERWISE.
9. MARK "C" IN REINFORCING COLUMN BETWEEN TWO BEAMS INDICATES THAT REINFORCING SHALL BE CONTINUOUS THROUGH THESE TWO BEAMS.

REVISION:

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DRAWN: TPB

CUSTOM RESIDENTIAL DESIGN for:
MR. & MRS. P. J. PATEL
COLUMBIA COUNTY, FLORIDA
STRUCTURAL DETAILS

As Substantiated by Contractor
12-2-2020
N.P. Geisler, Architect

NICHOLAS PAUL GEISLER
ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd.
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386-365-4355

DATE: 21 SEP 2021

COMM#: 2K2104

SHEET: A.9

AR0007005

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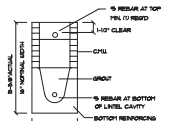
TYPE DESIGNATION

8F16-1B/1T

- F = FILLED WITH GROUT / U = UNFILLED
- QUANTITY OF #5 REBAR AT BOTTOM OF LINTEL CAVITY
- NOMINAL WIDTH
- NOMINAL HEIGHT
- QUANTITY OF #5 REBAR AT TOP



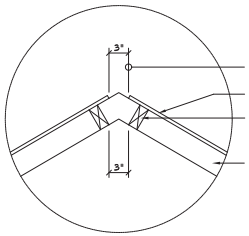
DETAIL A/3
PRE-CAST LINTEL OVER GARAGE DOOR
PRE-CAST LINTELS & LANAI COLUMNS

8" PRECAST & PRESTRESSED U-LINTELS

MARK	LENGTH	TYPE	SIZE	GRAVITY 8F16-2B/1B	8F12-2B/1B	8F16-1B/1T	8F08-2B/1B	8F04-2B/1B	8F08-1B/1T	8F12-1B/1T
				8F16-1B	8F12-1B	8F16-1B	8F08-1B	8F04-1B	8F08-1B	8F12-1B
L1	2'-8" (32")	PRECAST	2362	3566	4473	6895	7806	9684	10473	7856
				3566	4473	6895	7806	9684	10473	7856
L2	3'-4" (44")	PRECAST	2362	3538	3371	6895	6901	7315	8639	9541
				3566	4473	6895	7806	9684	10473	7856
L3	4'-0" (48")	PRECAST	2362	2339	2496	3457	4058	5412	6364	7356
				3566	4473	6895	7806	9684	10473	7856
L4	4'-8" (56")	PRECAST	1681	1787	1919	2697	3489	4149	4986	5644
				2730	4897	6895	7806	9684	10473	7846
L5	5'-4" (64")	PRECAST	1184	1223	1381	1899	2371	2836	3336	3846
				1866	2866	5697	6996	9480	6424	7450
L6	6'-0" (72")	PRECAST	972	1050	1199	1474	1899	2324	2721	3171
				1495	2484	4144	5158	4431	5089	6121
L7	6'-8" (80")	PRECAST	831	925	1081	1363	1746	1558	1971	4589
				1316	2181	3596	5060	7314	8999	6490
L8	7'-4" (88")	PRECAST	727	1005	1175	1389	1784	2435	2886	3333
				1005	1675	2640	3805	5996	6413	5047
L9	8'-0" (96")	PRECAST	673	652	1245	1469	1518	1482	1754	3071
				768	512	988	2944	3469	4089	3121
L10	8'-8" (108")	PRECAST	456	482	562	723	915	1121	1338	1555
				650	1205	1514	2481	2774	3540	3484
L11	9'-4" (124")	PRECAST	449	1198	1339	1369	1894	2399	1783	2079
				1198	1339	1369	1894	2441	3159	4844
L12	12'-0" (144")	PRECAST	414	549	864	1284	1468	2874	1730	1988
				1199	864	1284	1493	221	2850	3998
L13	13'-4" (160")	PRECAST	362	421	726	1058	1131	1439	1224	1418
				489	748	1076	1458	1885	2343	2928
L14	14'-0" (168")	PRECAST	338	241	648	971	1150	1462	1897	1649
				489	1189	1083	1339	1714	2133	2646
L15	14'-8" (176")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
				469	765	1130	2049	2618	3189	3769
L16	15'-4" (184")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
				439	693	1060	1855	2370	2889	3418
L17	17'-4" (208")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
				369	1130	1860	1406	1809	2289	3408
L18	19'-4" (232")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
				249	460	760	1090	1409	1738	2058
L19	21'-4" (256")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
				183	339	619	949	1349	1789	219
L20	22'-8" (264")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
				149	289	519	819	1259	1649	1979
L21	24'-8" (288")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
				119	249	479	729	1059	1389	1849

8" PRECAST W/ 2" RECESS DOOR U-LINTELS

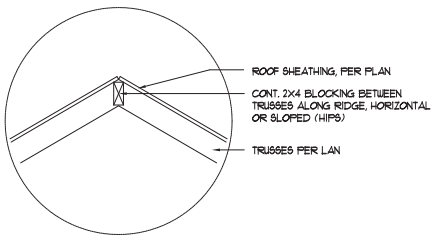
MARK	LENGTH	TYPE	SIZE	GRAVITY 8F16-2B	8F12-2B	8F04-2B	8F08-2B	8F12-2B	8F08-2B	8F12-2B
				8F16-1B	8F12-1B	8F04-1B	8F08-1B	8F12-1B	8F08-1B	8F12-1B
L22	4'-4" (52")	PRECAST	1489	918	3093	2982	3984	4579	5984	6880
				1877	3412	4982	6472	7941	9416	10878
L23	4'-8" (56")	PRECAST	1357	1449	2782	2714	3680	4497	5975	6364
				1760	3412	4982	6472	7941	9416	10878
L24	5'-8" (68")	PRECAST	1189	832	1682	2542	2859	3966	3879	3985
				1193	2362	4974	6472	6846	5864	6839
L25	5'-10" (70")	PRECAST	1135	778	1559	1411	1814	2459	2916	3392
				1193	2361	3411	6472	6846	5450	6411
L26	6'-8" (80")	PRECAST	922	1097	1671	2533	2916	3223	3872	4522
				1097	1671	2533	4189	6138	8171	6727
L27	7'-8" (92")	PRECAST	865	764	1371	2292	1956	2481	2944	3428
				764	1371	2329	3489	5492	6624	5132
L28	9'-8" (116")	PRECAST	372	459	854	1253	1671	1942	1414	1856
				539	1158	1497	2119	2619	3969	3973



Vent DETAIL

SCALE: 1" = 1'-0"

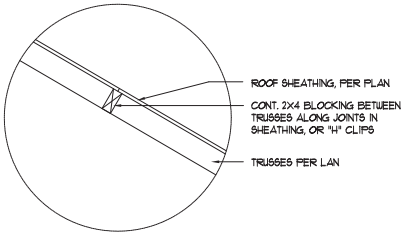
A1



Ridge DETAIL

SCALE: 1" = 1'-0"

A2



Joint DETAIL

SCALE: 1" = 1'-0"

A3

ATTENTION !!!

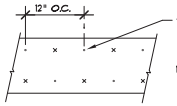
TRUSS SHOP DRAWING REQUIREMENTS

THIS PROJECT REQUIRES ENGINEERED TRUSS ROOF FRAMING AND/OR ENGINEERED TRUSS FLOOR FRAMING, BECAUSE OF THIS, PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE OWNER/BUILDER SHALL PROVIDE THE ARCHITECT OF RECORD WITH THE SIGNED AND SEALED TRUSS SHOP DRAWINGS FOR THE AOR'S REVIEW AND COMMENT. THE SUBMISSION SHALL CONSIST OF 3 PAPER COPIES OF THE SIGNED AND SEALED TRUSS SHOP DRAWING, AN ELECTRONIC DXF OR DWG (ACAD VERSION 14 OR LOWER) OF THE PLACEMENT PLAN(S) AND A POSTAGE PAID RETURN MAILER.

FAILURE OF THE OWNER/BUILDER TO PROVIDE THE REQUIRED TRUSS SHOP DRAWING PACKAGE TO THE AOR SHALL RESULT IN THE FULL ASSUMPTION OF RESPONSIBILITY BY THE OWNER/BUILDER FOR ALL MATTERS INVOLVING THE TRUSS FRAMING, INCLUDING, BUT NOT LIMITED TO, THE TRUSS PACKAGE SUITABILITY FOR INCLUSION IN THE PROJECT, PROFILES, BEARING REQUIREMENTS, UPLIFT RESTRAINTS OR ANY OTHER ASPECT OF THE INSTALLATION AND HOW SUCH MAY AFFECT ANY OTHER PORTION OF THE PROJECT, THE STRUCTURAL STABILITY OR THE CONTINUED SUITABILITY OF THE TRUSS COMPONENTS FOR THE DURATION OF THE LIFE OF THE STRUCTURE. USE OF TRUSS DOCUMENTS THAT LACK THE AOR'S "SHOP DRAWING REVIEW" STAMP WILL RESULT IN AOR BEING RELEASED FROM ALL LIABILITY INVOLVING ANY TRUSS COMPONET, FOR ANY REASON.

IF THE 1st SUBMISSION OF THE TRUSS DOCUMENTS FAILS TO MEET THE REQUIREMENTS OF THE DESIGN CONSTRUCTION DOCUMENTS, ADDITIONAL SUBMISSIONS SHALL BE REQUIRED UNTIL SUCH TIME THAT THE TRUSS DOCUMENTS ARE IN CONCURRENCE WITH THE DESIGN CONSTRUCTION DOCUMENTS. EACH SUBSEQUENT SUBMISSION SHALL INCLUDE A POSTAGE PAID MAILER FOR THE RETURN OF THE DOCUMENTS. SUCCESSFUL SUBMISSIONS SHALL BE STAMPED BY THE AOR AND THE DOCUMENTS SHALL BE MARKED AS "NO EXCEPTIONS TAKEN"

FOLLOWING THE REVIEW AND/OR COMMENTS MADE BY THE AOR, 2 SETS OF THE STAMPED TRUSS DOCUMENTS SHALL BE RETURNED TO THE OWNER/ BUILDER FOR USE IN THE CONSTRUCTION OF THE PROJECT.



NAIL PLYWOOD FLITCH BEAM TOGETHER W/ 16d NAILS STAGGERED TOP AND BOTTOM, EACH FACE

NOTE:
WHERE BEAM SPAN IS GREATER THAN 8'-0", CENTER 8'-0" LONG PLYWOOD AT CENTER OF BEAM SPAN, BUTT ADJACENT PLYWOOD PIECES TIGHT TO CENTER PIECE. STAGGER JOINTS AT BEAMS WITH MORE THAN ONE PLYWOOD PLATE.

B/U Beam DETAILS

SCALE: NONE

B

SHOP DWG 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 CONNECTORS, 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.

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 IT'S CONNECTIONS", LATEST Ed., ALONG W/ 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 REQUIRMENTS 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.

FRAMING ANCHOR SCHEDULE

PLATE TO CMU WALL	1/2" A.B. W/ 2" SQ. WASHERS @ 48" O.C.
TRUSS TO PLATE:	SIMPSON H2.5a - 2 REQ'D OVER 500 LB UPLIFT
PORCH RAFTER TO BEAM:	SIMPSON H1
PORCH BEAM TO POST:	SIMPSON PC44/EPC44
PORCH BEAM TO CMU.:	SIMPSON HUSC410
PORCH POST TO FND.:	SIMPSON ABU44

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.

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DRAWN: MPB

CUSTOM RESIDENTIAL DESIGN for:
MR. & MRS. P. J. PATEL
COLUMBIA COUNTY, FLORIDA
STRUCTURAL DETAILS

All Dimensions Are Approximate
NICHOLAS PAUL GEISLER ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd. Lake City, FL 32055
386-365-4355

DATE: 21 SEP 2021

COMM: 2K2104

SHEET: A.10

10 OF 13

AR0007005

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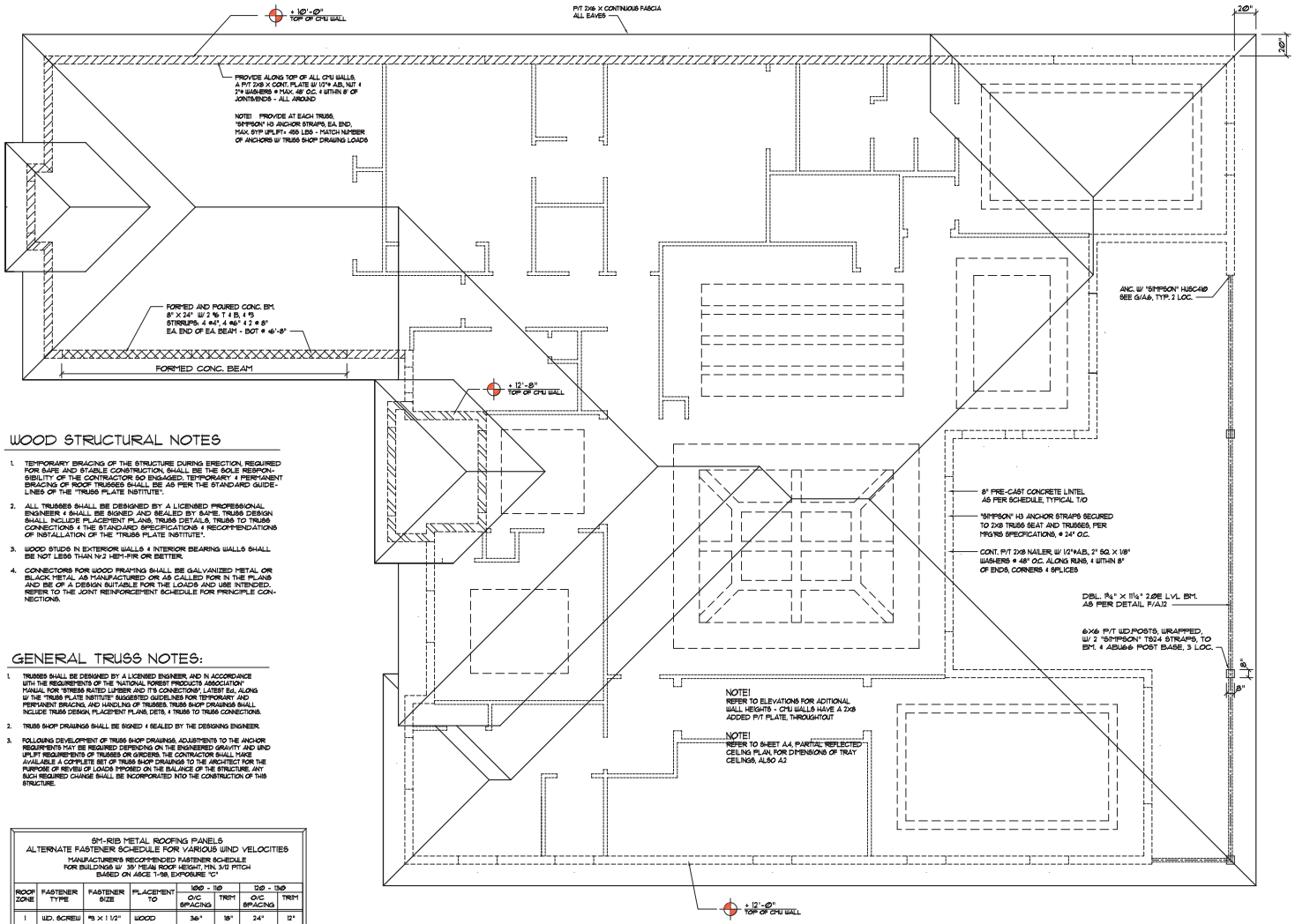

WOOD STRUCTURAL NOTES

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 #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.

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 Ed., ALONG W/ 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.
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SM-RIB METAL ROOFING PANELS
ALTERNATE FASTENER SCHEDULE FOR VARIOUS WIND VELOCITIES
MANUFACTURER'S RECOMMENDED FASTENER SCHEDULE
FOR BUILDINGS W/ 39' MEAN ROOF HEIGHT, MIN. 3/12 PITCH
BASED ON ASCE 7-98, EXPOSURE "C"

ROOF ZONE	FASTENER TYPE	FASTENER SIZE	PLACEMENT TO	100 - 110		120 - 130	
				O/C SPACING	TRIM	O/C SPACING	TRIM
1	WD. SCREW	#8 X 1 1/2"	WOOD	36"	18"	24"	12"
	MTL. SCR.	#12 X 1"	< 18 GA	36"	18"	24"	12"
		#14 X 7/8"	> 18 GA				
2 & 3	WD. SCREW	#8 X 1 1/2"	WOOD	36"	18"	24"	12"
	MTL. SCR.	#12 X 1"	< 18 GA	36"	18"	24"	12"
		#14 X 7/8"	> 18 GA				

ROOF PLAN

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

NOTE!
ALL PRECAST LINTELS SHALL BE SF8-15 CONFIGURATION, MINIMUM

NOTE!
THE DESIGN WIND SPEED FOR THIS PROJECT IS 130 MPH PER 2020 7th ED. FBC 1609 AND LOCAL JURISDICTION REQUIREMENTS

ROOF SHEATHING:
SHEATH ROOF W/ 15/32" CDX PLYWOOD OR 7/16" OSB PLACED W/ LONG DIMENSION PERPENDICULAR TO THE ROOF TRUSSES, SECURE TO FRAMING W/ 8d RING SHANK NAILS, PER FASTENER SCHEDULE

ROOF PLAN NOTES

R-1 ALL ROOF PITCH 4:12, U.N.O. SEE ROOF PLAN & ELEVATIONS

R-2 ALL OVERHANG 2'0" UNLESS OTHERWISE NOTED

R-3 N/A

R-4 MOVE ALL VENTS AND OTHER ROOF PENETRATIONS TO REAR

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DRAWN: TPS

CUSTOM RESIDENTIAL DESIGN for:
MR. & MRS. P. J. PATEL
COLUMBIA COUNTY, FLORIDA
ROOF PLAN

Celebrating 40 Years in Business
1972 - 2020
N.P. Geisler, Architect
Lake City, Florida

NICHOLAS PAUL GEISLER ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd.
Lake City, Florida 32055
386-365-4365

DATE: 21 SEP 2021

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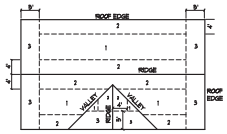
ROOF SHEATHING FASTENINGS			
NAILING ZONE	SHEATHING TYPE	FASTENER	SPACING
1	7/16" OSB OR 15/32 CDX	8d COATED OR 8d HOT DIPPED GALVANIZED BOX NAILS	6 in. o.c. EDGE 12 in. o.c. FIELD
2			6 in. o.c. EDGE 6 in. o.c. FIELD
3			4 in. o.c. GABLE TRUSS OR GABLE ENDWALL 6 in. o.c. EDGE 6 in. o.c. FIELD

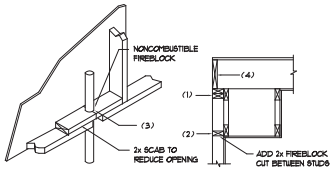


ROOF SHEATHING NAILING ZONES
(GABLE ROOF)

Roof Nail Pattern DET. (A)

SCALE: NONE

HEADER SPANS FOR EXTERIOR BEARING WALLS							
HEADERS SUPPORTING:	HEADER SIZE	BUILDING WIDTH (FT)					
		20'		28'		36'	
		SPAN	# JACKS	SPAN	# JACKS	SPAN	# JACKS
ROOF, CEILING	2-2x4	3'-6"	1	3'-2"	1	2'-10"	1
	2-2x6	5'-5"	1	4'-8"	1	4'-2"	1
	2-2x8	6'-10"	1	5'-11"	2	5'-4"	1
	2-2x10	8'-5"	2	7'-3"	2	6'-6"	2
	2-2x12	9'-9"	2	8'-5"	2	7'-6"	2
	3-2x8	8'-4"	1	7'-5"	1	6'-8"	1
	3-2x10	10'-6"	1	9'-1"	2	8'-2"	1
	3-2x12	12'-2"	2	10'-7"	2	9'-5"	2
	4-2x8	9'-2"	1	8'-4"	1	9'-2"	1
	4-2x10	11'-8"	1	10'-6"	1	9'-5"	1
	4-2x12	14'-1"	1	12'-2"	2	10'-11"	1



PENETRATIONS

SOFFIT/DROPPED CLG.

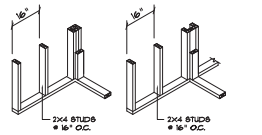
FIREBLOCKING NOTES:

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

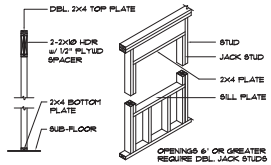
1. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS INCLUDING FURRED SPACES AT CEILING AND FLOOR LEVELS.
2. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS, COVE CEILINGS, ETC.
3. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS WITH "PYROPANEL MULTIPLEX 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 (B)

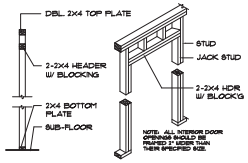
SCALE: NONE



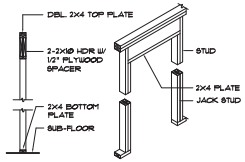
WALL CORNER WALL INTERSECTION



TYPICAL WINDOW HEADER



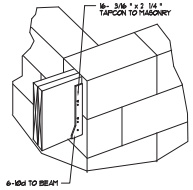
NON-BEARING WALL HEADER



BEARING WALL HEADER

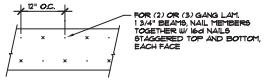
Wall Framing/ Header DET'S (C)

SCALE: NONE



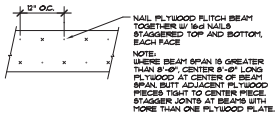
"Simpson" HUSC410 (D)

SCALE: NONE
WOOD BEAM TO MASONRY



MULTIPLE GANG LAM. DETAIL

NOT TO SCALE

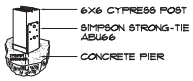


PLYWOOD FLITCH BEAM DETAIL

NOT TO SCALE

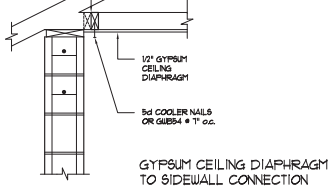
B/U Beam DETAILS (F)

SCALE: NONE



Post Anchor DETAIL (G)

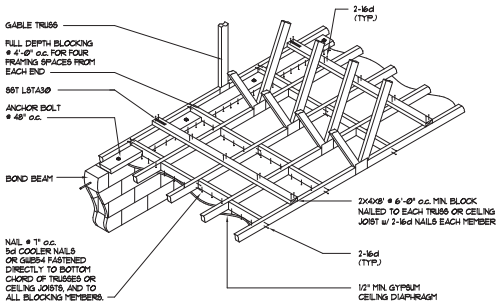
SCALE: 3/4" = 1'-0"



GYPSUM CEILING DIAPHRAGM
TO SIDEWALL CONNECTION

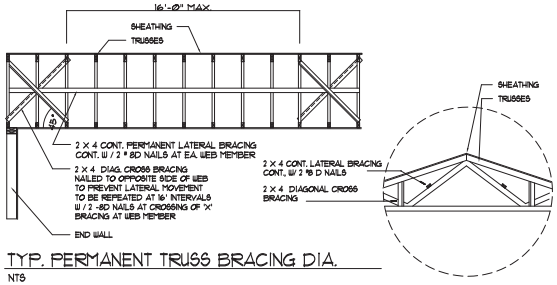
Roof Edge DETAIL (H)

SCALE: NONE



DIRECT TRUSS TO MASONRY CONNECTION ENDWALL FOR GYPSUM CEILING DIAPHRAGM (I)

SCALE: NONE



TYP. PERMANENT TRUSS BRACING DIA.

NTS

NOTE: ALL WOOD TO BE NUMBER 2 GRADE SOUTHERN YELLOW PINE

Truss Bracing DETAILS (J)

SCALE: AS NOTED

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CUSTOM RESIDENTIAL DESIGN for:
MR. & MRS. P. J. PATEL
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STRUCTURAL DETAILS

Celebrating 40 Years in Business
1972 - 2020
N.P. Geisler, Architect
Lakeland

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Electrical SYMBOLS

POWER

- DUPLEX WALL RECEPTACLE
- DUPLEX WALL RECPT. BELOW COUNTER
- 240V OUTLET
- GND FAULT INTERRUPTER DUPLEX RECEPT.
- WEATHER PROOF GFI DUPLEX RECEPT.
- DUPLEX FLOOR RECEPTACLE
- JUNCTION BOX
- MOTOR
- ELECTRICAL PANEL
- ELECTRICAL SERVICE
- EXHAUST FAN
- SMOKE DETECTOR, 120V
- CARBON MONOXIDE DETECTOR, 120V
- NON-FUSED DISC. SWITCH
- NON-FUSED W/P DISC. SWITCH
- CHIME
- MOMENTARY PUSHBUTTON SWITCH, LIGHTED

LIGHTING

- SPST WALL SWITCH
- DPDT WALL SWITCH (3-WAY)
- SPST WALL SWITCH, W/ DIMMER
- LED. CHANDELIER
- CEILING FAN, W/ LED. LIGHT FIXTURE
- 2 LAMP LED. PRISMATIC WRAP SURFACE FIXTURE
- LED. LIGHT FIXTURE
- LED. HIGH HAT DOWN LIGHT
- VAPOR PROOF LED. LIGHT FIXTURE
- HEAT LAMP
- SWITCH/FIXTURE WIRING
- CONTROL WIRE / LOW VOLTAGE

ELECTRICAL PLAN NOTES

NPG 8-15-22

[redacted] CODE.

WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS.

CONSULT THE OWNER FOR THE NUMBER OF SEPERATE TELEPHONE LINES TO BE INSTALLED.

ALL SMOKE DETECTORS SHALL BE 120V W/ BATTERY BACKUP OF THE PHOTOELECTRIC TYPE, AND SHALL BE INTERLOCKED TOGETHER. INSTALL INSIDE AND NEAR ALL BEDROOMS.

PROVIDE & INSTALL CARBON MONOXIDE DETECTORS IN ALL BEDROOMS, @ 12" ABV. FIN. FL., INTERLOCKED TOGETHER.

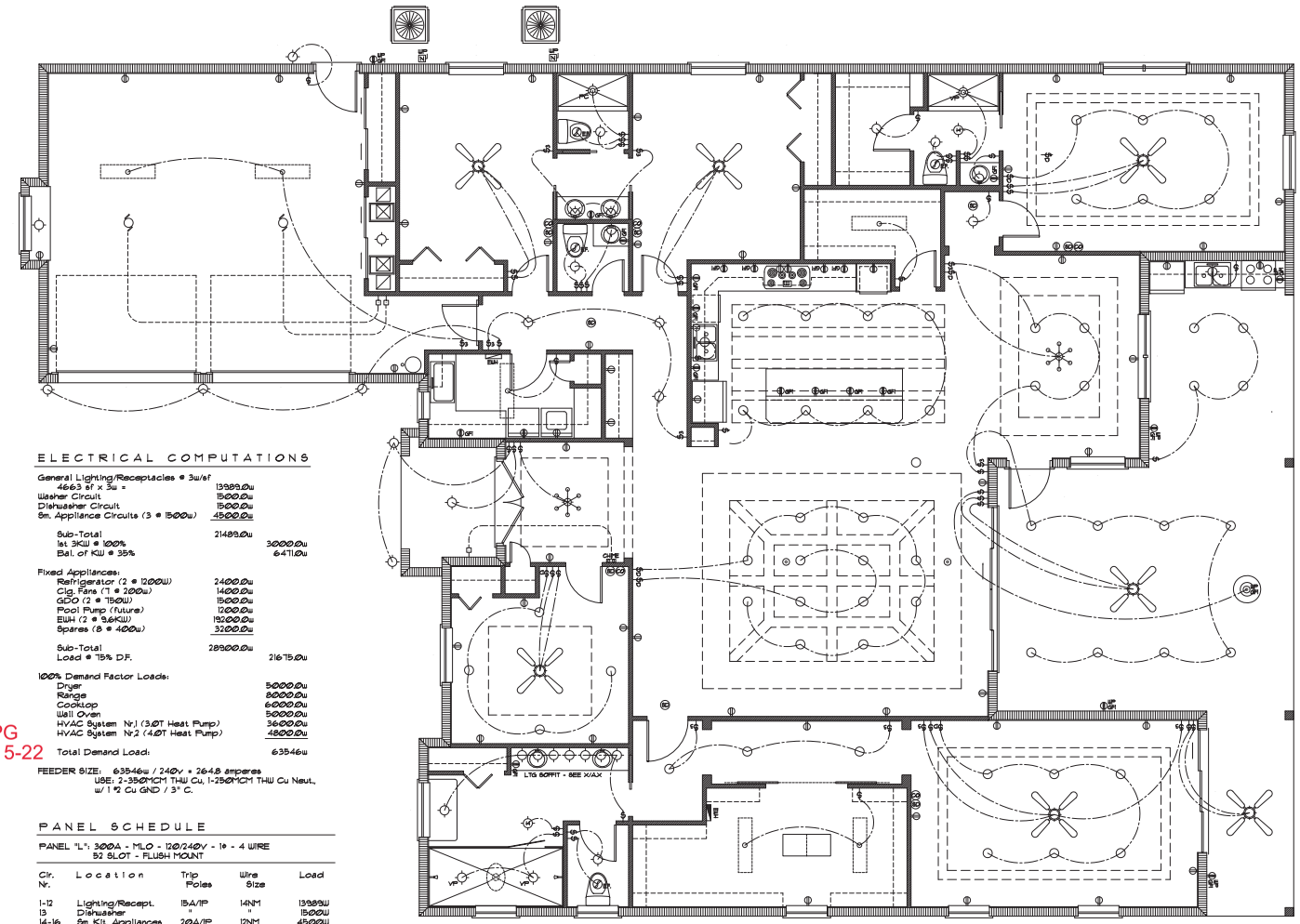
TELEPHONE, TELEVISION AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER THE OWNER'S DIRECTIONS, & IN ACCORDANCE W/ APPLICABLE SECTIONS OF NEC-LATEST EDITION.

ALL RECEPTICALS NOT OTHERWISE DESIGNATED, SHALL BE ARC FAULT INTERRUPTER TYPE, EXCEPT DEDICATED OUTLETS.

ALL RECEPTICALS IN KITCHEN AND BATHS SHALL BE GROUND FAULT INTERRUPTER TYPE (GFI).

ALL EXTERIOR RECEPTICALS SHALL BE WEATHERPROOF GROUND FAULT INTERRUPTER TYPE (WP/GFI).

ELECTRICAL CONT'R SHALL PREPARE "AS-BUILT" SHOP DWGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELEC. PLAN, ADD'NS TO THE ELEC. PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE W/ ALL CKTS IDENTIFIED W/ CKT Nr, DESCRIPTION & ERRCR, SERVICE ENT. & ALL UNDERGROUND WIRE LOCATIONS/ROUTING/DEPTH. RISER DIA. SHALL INCLUDE WIRE SIZES/TYPE & EQUIPMENT TYPE W/ RATINGS & LOADS.
CONTRACTOR SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.



ELECTRICAL COMPUTATIONS

General Lighting/Receptacles @ 3w/sf		
4663 sf x 3w =	13989.0w	
Washer Circuit	1500.0w	
Dishwasher Circuit	1500.0w	
8m. Appliance Circuits (3 @ 1500w)	4500.0w	
Sub-Total	21489.0w	
1st 3KW @ 100%		3000.0w
Bal. of KW @ 35%		6471.0w
Fixed Appliances:		
Refrigerator (2 @ 1200W)	2400.0w	
Clg. Fans (7 @ 200w)	1400.0w	
GDO (2 @ 750W)	1500.0w	
Pool Pump (future)	1200.0w	
EWH (2 @ 9.6KW)	19200.0w	
Spares (8 @ 400w)	3200.0w	
Sub-Total	28900.0w	
Load @ 75% D.F.		21675.0w
100% Demand Factor Loads:		
Dryer		5000.0w
Range		8000.0w
Cooktop		6000.0w
Wall Oven		5000.0w
HVAC System Nr.1 (3.0T Heat Pump)		3600.0w
HVAC System Nr.2 (4.0T Heat Pump)		4800.0w
Total Demand Load:		63546w

FEEDER SIZE: 63546w / 240v = 264.8 amperes
USE: 2-350MCM THW Cu, 1-250MCM THW Cu Neut., w/ 1 #2 Cu GND / 3" C.

PANEL SCHEDULE

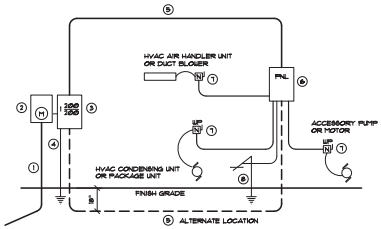
PANEL "L": 300A - MLO - 120/240V - 1ø - 4 WIRE
52 SLOT - FLUSH MOUNT

Cir. Nr.	Location	Trip Poles	Wire Size	Load
1-12	Lighting/Recept.	15A/1P	14NM	13989W
13	Dishwasher	"	"	1500W
14-16	8m. Kit. Appliances	20A/1P	12NM	4500W
17-18	Ceiling Fans	15A/1P	14NM	1400W
19,21	EWH Nr.1	50A/2P	6NM	9600W
20	Refrigerator Nr.1	15A/1P	14NM	1200W
22	Refrigerator Nr.2	"	"	1200W
23,25	EWH Nr.2	50A/2P	6NM	9600W
24,26	Range	50A/2P	6NM	8000W
27,29	Cooktop	50A/2P	6NM	6000W
28,30	Wall Oven	40A/2P	8NM	5000W
31,33	Dryer	30A/2P	10NM	5000W
32,34	HVAC CU Nr.1	50A/2P	6NM	3600W
35,37	HVAC AHU Nr.1	20A/2P	12NM	800W
36,38	HVAC CU Nr.2	50A/2P	6NM	4000W
39,41	HVAC AHU Nr.2	20A/2P	12NM	800W
40,42	Fut. Pool Pump	-	-	1200W
43-50	Spare	-	-	3200W
51-52	Space	-	-	0W

TOTAL CONNECTED LOAD: 79989W

Electrical PLAN

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



ELECTRICAL RISER DIAGRAM: 200A

SCALE: NONE

1. Service/Feeder Entrance Conductors- 2½" rigid conduit, min. 18" deep, w/ continuous Ground Bonding Conductor, Service/ Entrance Conductors shall not be spliced except that bolted connections at the Meter, Disconnecting Devices and Panel shall be allowed.
2. Meter Enclosure, weatherproof, UL. Listed.
3. Main Disconnect Switch fused or Main ERRCR, weatherproof, UL. Listed.
4. Service entrance Ground: ⅝" ⌀ ironplated rod x 8'-0" long and/or concrete encased foundation steel rebar x 20'-0" long. Grounding Conductor shall be bonded to each piece of Service/ Entrance Equipment, and shall be sized per Item 9, below.
5. 200 AMPERE SERVICE: 3-#1/0-USE-Cu, 1-#4-Cu-GND, 2" Conduit.
6. House Panel (PNL.) UL. Listed, sized per schedule.
7. Equipment Disconnect Switch: non-fused, in weatherproof enclosure, size according to Panel Schedule loads.
8. Provide Ground Bond Wire to metal piping, size in accordance with the Service Ground Conductor.

NOTE!
THE MINIMUM AIC RATING FOR PANEL BOARDS, ERKRS AND DISCONNECT SWITCHES SHALL BE 22,000 AIC.

REVISION:

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CUSTOM RESIDENTIAL DESIGN for:
MR. & MRS. P. J. PATEL
COLUMBIA COUNTY, FLORIDA
ELECTRICAL PLAN

Celebrating 40 Years of Excellence
1972 - 2020
N.P. Geisler, Architect
Established

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