

***POLK COUNTY BUILDING DIVISION
RESIDENTIAL INSPECTION
CHECKLIST***



Revised: December 2018

POLK COUNTY BUILDING DIVISION RESIDENTIAL INSPECTION CHECKLIST

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**POLK COUNTY BUILDING DIVISION
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SECTION -1-**

INTRODUCTION

THE INFORMATION CONTAINED ON THE FOLLOWING PAGES IS BASED ON ADOPTED ORDINANCES AND CODES THAT ARE RECOGNIZED BY THE STATE OF FLORIDA AND ITS AGENCIES. THESE APPROVED REFERENCES INCLUDE:

1. POLK COUNTY LAND DEVELOPMENT CODE
2. NFIP / FEMA REGULATIONS
3. 2014 NATIONAL ELECTRIC CODE (NEC)
4. 2017 FLORIDA RESIDENTIAL BUILDING CODE – 6TH EDITION (FRC)
5. 2017 FLORIDA EXISTING BUILDING CODE - 6TH EDITION (EBC)
6. 2017 FLORIDA BUILDING CODE – 6TH EDITION (FBC)
7. 2017 FLORIDA ENERGY CODE – 6TH EDITION (FEC)
8. 2017 FLORIDA MECHANICAL CODE – 6TH EDITION (FMC)
9. FLORIDA ADMINISTRATIVE CODE FOR MANUFACTURED HOMES - (15C)

PURPOSE

The attached checklist is intended to highlight some of the most commonly missed or misunderstood building code requirements in order to insure compliance with the minimum building code requirements for the strength, stability, durability, function and safety.

DISCLAIMER

This partial checklist is not intended to be fully inclusive or all-encompassing. For additional information or details please consult with your design professional or applicable building code sections. Further assistance is available by contacting the Polk County Building Division at (863) 534-6080 or by visiting our website at WWW.POLK-COUNTY.NET

ADDRESSING REQUIREMENT

All job sites must have the lot or address numbers clearly posted and visible from the street.

REVERSE PLANS FOR SINGLE FAMILY HOMES

Reverse plans will be allowed for one story, single family, homes up to 2,500 square feet. The site plan must also match the reverse configuration. These plans will have the words “REVERSE PLANS” written on them and a letter of authorization from the engineer or design professional must be on file in the office.

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SECTION -2-

FOOTING / FOUNDATION / STEM-WALL

1. CHECK PERMIT CARD, SITE PLAN, SET BACKS AND PLANS.
2. CONFIRM TOILET FACILITIES ARE ON SITE. IF NOT, LEAVE A COURTESY NOTE TO REMIND CONTRACTOR ONE WILL BE REQUIRED BY NEXT INSPECTION. (FBC 3305.1)
3. FOUNDATIONS SHALL BE BUILT ON UNDISTURBED SOIL OR PROPERLY COMPACTED FILL MATERIAL. (FRC - R403.1)
4. WHEN FOUNDATIONS BEAR ON COMPACTED FILL MATERIAL, THE COMPACTED FILL SHALL COMPLY WITH THE PROVISIONS OF AN APPROVED GEOTECHNICAL REPORT COMPLETED BY A REGISTERED DESIGN PROFESSIONAL. (FBC 1803, 1803.5.8 & 1804.6) (SEE # 6 BELOW)
5. EXCAVATIONS FOR ANY PURPOSE SHALL NOT EXTEND WITHIN ONE FOOT OF THE ANGLE OF REPOSE (45 DEGREES) OR NATURAL SLOPE OF THE SOIL UNDER ANY FOOTING OR FOUNDATION. (R403.1.7.2)
6. THE BOTTOM OF FOUNDATION SHALL EXTEND NO LESS THAN 12 INCHES BELOW THE UNDISTURBED GROUND SURFACE. (R 403.1.4)
7. FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. (FRC - R318.6 & R506.2.1)
8. THE AREA UNDER FOOTINGS AND/OR SLABS ON GRADE SHALL HAVE ALL VEGETATION, STUMPS, ROOTS AND FOREIGN MATERIALS REMOVED PRIOR TO CONSTRUCTION. (FRC - R408.5 & R506.2)
9. FOOTINGS SHALL BE SO DESIGNED THAT THE ALLOWABLE BEARING CAPACITY OF THE SOIL IS NOT EXCEEDED. COMPACTED SOILS SHALL BE TESTED TO A MINIMUM OF 95% COMPACTION OF MODIFIED PROCTOR IN ACCORDANCE WITH ASTM D 1557 AND TESTED IN LIFTS NOT TO EXCEED 12 INCHES (FRC R401.4 & FBC1803.5.8)
10. QUESTIONABLE, EXPANSIVE, SHIFTING OR MOVING SOILS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION 1808.6 OF THE FBC. (FRC - R403.1.8) SILT BARRIERS, WHEN REQUIRED, SHALL BE IN PLACE.
11. CHECK FOOTING SIZE FOR WIDTH AND DEPTH PER PLAN. CHECK FOR INTERIOR FOOTINGS, COLUMN PADS, PORCH FOOTINGS, FIREPLACE FOOTINGS OR FOR PORTIONS OF THE FOOTING THAT WILL SUPPORT MORE THAN ONE STORY. (FRC - R403 & TABLE R403.1)

12. **CONFIRM THAT TOP OF FOOTING IS LEVEL OR STEPPED AS REQUIRED. BOTTOM CAN BE SLOPED UP TO MAXIMUM 10 PERCENT. (FRC - R403.1.5)**
13. **CHECK FOR PROPER REBAR SIZE, PLACEMENT, OVERLAP, CONCRETE COVER AND APPROVED SUPPORT. (PLANS, R404.1.3.3.7, TABLES AND FIGURES)**
14. **CHECK FOR PROPER SUPPORT AND CONCRETE COVERAGE OF REBAR. STEEL REINFORCEMENT IN CONCRETE CAST AGAINST THE EARTH SHALL HAVE A MINIMUM COVER OF 3 INCHES, MINIMUM COVER FOR REINFORCEMENT IN CONCRETE CAST IN REMOVABLE FORMS SHALL BE 1.5 INCHES. (FRC - R404.1.3.3.7.4)**
15. **CONFIRM FOOTER DOWELS ARE WIRED IN PLACE AT SPECIFIED LOCATIONS OR PLACED ADJACENT TO CORRECT LOCATIONS. REFER TO PLANS.**
16. **CONFIRM ANY REQUIRED FORMS COMPLY WITH FRC SECTION R404.**
17. **CONFIRM PLUMBING PENETRATIONS THROUGH FOOTINGS ARE SLEEVED TWO PIPE SIZES LARGER THAN THE PIPE ITSELF. (FRC - R318.2 & FPC 2603.4)**
18. **IF LAND ELEVATION CHANGES CREATE FOUNDATION WALLS EXCEEDING 3 FEET OF UNBALANCED FILL, THE PLANS NEED TO BE SITE SPECIFIC. (FRC - R404.)**
19. **FOOTER REBAR MUST BE BONDED PER NEC ARTICLE 250.52(A)(3). THIS IS COMMONLY KNOWN AS A UFER GROUND.**
20. **ALL VERTICAL DOWELS (REBAR) SHALL HAVE SAFETY CAPS INSTALLED IF NOT EXTENDED 7 FEET ABOVE THE SLAB. (FBC – 115 AND OSHA 29 CFR 1926.701 (B))**
21. **RETURN PLANS TO ORIGINAL LOCATION, SIGN AND DATE PERMIT CARD OR LEAVE CORRECTION NOTICE WITH ITEMS LISTED.**

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10. PIPE SUPPORT IN TRENCHES TO BE PER FRC - P2604.1. PIPE SUPPORT IN GROUND OR HANGERS TO BE PER P 2605, (1), (2), (3), (4).
 - A. EXPOSED PIPING, PIPING IN CRAWL SPACES SHALL BE PROTECTED FROM FREEZING WHERE DESIGN TEMPERATURES ARE BELOW 32 DEGREES F. (FRC - P2603.5)
11. HOSE CONNECTION SILCOCK- HOSE BIBB SHALL HAVE VACUUM BREAKER OR ANTI-SIPHON DEVICES (FRC - P 2902.4.3)

WATER SERVICE

12. WATER SERVICE MUST BE SIZED PER FRC - P2903.1 & TABLE P2903.1.
 - A. MINIMUM ¾" SERVICE FOR 1 TO 2 BATH, BASED ON FIXTURE UNITS
 - B. MINIMUM 1" SERVICE FOR 2 1/2 BATH, BASED ON FIXTURE UNITS.
(DEPENDING ON PRESSURE AND DEVELOPED LENGTH OF SERVICE)
13. SERVICE CONTROL VALVE SHALL BE FULL OPEN-TYPE WITH VALVE NEAR ENTRANCE TO STRUCTURE. VALVE SHALL BE ACCESSIBLE. (FRC - P2903.9.1)
14. WATER SERVICE PIPES MUST BE MINIMUM OF 12 INCHES BELOW GRADE AND 6 INCHES BELOW THE FROST LINE. (FRC - P2603.5)
15. PIPES PASSING THROUGH FOUNDATION WALLS SHALL HAVE A RELIEVING ARCH OR A SLEEVE. SUCH SLEEVE MUST BE 2 PIPE SIZES LARGER THAN THE PIPE. (FRC - P2603.4)
16. ANNULAR SPACE OF SLEEVING IS REQUIRED TO BE SEALED WITH CAULKING MATERIAL, FOAM SEALANT OR GASKETING SYSTEM. (IF WALL IS FIRE RATED, CHECK PLANS FOR APPROVED FIRE RATED METHOD (FRC - P2606.1)
17. TRENCHING AND BACKFILLING. BACKFILL FOR PIPING SHALL BE FREE OF ROCKS, BROKEN CONCRETE, CONSTRUCTION MATERIAL AND DEBRIS. (FRC- P2604.3)
18. WHERE WATER SERVICE PIPING IS LOCATED IN THE SAME TRENCH WITH THE BUILDING SEWER, SUCH SEWER SHALL BE CONSTRUCTED OF MATERIALS LISTED IN FRC TABLE P3002.1(2). IF SEWER IS NOT CONSTRUCTED OF PIPING LISTED IN TABLE 3002.1(2) THEN WATER SERVICE PIPE & BUILDING SEWER MUST BE SEPARATED BY AT LEAST 5 FEET HORIZONTALLY OR 1 FOOT ABOVE THE HIGHEST POINT IN THE SEWER LINE. (FRC - P 2906.4.1)
19. CROSS-CONNECTIONS BETWEEN AN INDIVIDUAL WATER SUPPLY AND A POTABLE PUBLIC WATER SUPPLY SHALL BE PROHIBITED. CONNECTIONS SHALL NOT BE MADE TO A POTABLE WATER SUPPLY IN A MANNER THAT COULD CONTAMINATE THE WATER SUPPLY OR PROVIDE A CROSS-CONNECTION BETWEEN THE SUPPLY AND A SOURCE OF CONTAMINATION EXCEPT WHERE APPROVED BACKFLOW DEVICES ARE INSTALLED. (P2902)
20. HOSE BIBS AND OTHER HOSE CONNECTIONS SHALL BE PROTECTED BY ANTI-SIPHON DEVICES. (FRC - P2902.4.3)
21. PURPLE PRIMER REQUIRED ON PVC SERVICE PIPE CONNECTIONS (FRC - P2906.9.1.4)

22. SERVICE VALVE. EACH DWELLING UNIT SHALL BE PROVIDED WITH AN ACCESSIBLE MAIN SHUTOFF VALVE NEAR THE ENTRANCE OF THE WATER SERVICE. (FRC – P2903.9.1)
23. WET TEST WATER SUPPLY SYSTEM AT NOT LESS THAN WORKING PRESSURE OR AIR TEST TO 50 PSI MINIMUM. (FRC - P2503.7)

DRAIN & VENT

24. **DRAIN AND VENT SYSTEMS MUST BE TESTED WITH WATER FILLED TO A POINT NOT LESS THAN 5 FEET ABOVE THE HIGHEST FITTING CONNECTION OR TO THE HIGHEST POINT IN THE COMPLETED SYSTEM FOR A MINIMUM OF 15 MINUTES. (FRC - P 2503.5.1)**
25. GRAVITY BUILDING SEWER MUST BE TESTED TO A **MINIMUM 5 FOOT HEAD FOR 15 MINUTES** BY PLUGGING SEWER AT POINT OF CONNECTION WITH PUBLIC SEWER (FRC - P 2503.4)
26. PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH FRC SECTIONS P2604, P2605 AND TABLE P2605.1.
27. **ANNULAR SPACES BETWEEN PIPES AND SLEEVES SHALL BE SEALED WITH A CAULKING MATERIAL, FOAM SEALANT OR A GASKETING SYSTEM. (P2606.1)**
28. VALVES, PIPES AND FITTINGS SHALL BE INSTALLED IN A CORRECT RELATIONSHIP TO THE FLOW. (FRC P2608.1, P3005 AND TABLE P3005.1)
29. DRAINAGE PIPING MUST SLOPE IN ACCORDANCE WITH FRC-P3005.3, AND TABLE P3005.4.2.
30. SANITARY CROSSES SHALL NOT BE USED FOR BACK-TO-BACK WATER CLOSETS UNLESS DEVELOPED LENGTH FROM OUTLET OF CLOSET TO CONNECTION TO TEE IS \geq THAN 18 INCHES. (FRC - P3005.1.1)
31. FITTINGS USED FOR CHANGES OF DIRECTION MUST BE INSTALLED PER FRC TABLE P3005.1.
32. SANITARY TEES MAY ONLY BE USED TO CHANGE DIRECTION FROM HORIZONTAL TO VERTICAL ON DRAINAGE SYSTEMS. (FRC - TABLE P3005.1)
33. SOLVENT-CEMENT JOINTS BETWEEN DIFFERENT TYPES OF PLASTIC PIPE ARE PROHIBITED. (FRC - P3003.2, (5))
34. TRAP SIZES MUST BE PER FRC TABLE P3201.7.
35. CLEANOUTS MUST BE INSTALLED NOT MORE THAN 100' APART (ON 8' OR SMALLER LINES) AND AT CHANGES IN DIRECTION GREATER THAN 45 DEGREES. (FRC - P3005.2.2 AND P3005.2.4)
36. A CLEANOUT IS REQUIRED AT THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER THAT IS LOCATED AT THIS JUNCTION. (FRC - P3005.2.3)

37. **THE VENT SYSTEM SERVING EACH BUILDING DRAIN SHALL HAVE AT LEAST ONE VENT PIPE THAT EXTENDS TO THE OUTDOORS AND IT SHALL BE SIZED IN ACCORDANCE WITH SECTION. VENT SIZE TO BE NOT LESS THAN HALF THE SIZE OF THE BUILDING DRAIN BUT IN NO CASE SMALLER THAN 1.25". (FRC - P3113.1, P3102.1, & P3114.7)**
38. **AIR ADMITTANCE VALVES ARE ALLOWED ON INDIVIDUAL, BRANCH AND STACK VENTS. (FRC - P3114.3)**
39. **SIDE INLET CLOSET BENDS SHALL BE AN ACCEPTABLE MEANS OF CONNECTION FOR BOTH DRAINAGE AND WET VENTING AND STACK VENTING ARRANGEMENTS (FRC - P3005.1.2)**
40. **VENTS FOR FUTURE FIXTURES SHALL BE INSTALLED A MINIMUM OF ONE HALF THE DIAMETER OF THE DRAIN. THE VENT SHALL BE IDENTIFIED. (FRC - P3104.6)**
41. **MAXIMUM DISTANCE OF FIXTURE TRAP FROM VENT SHALL BE PER FRC TABLE P3105.1.**
42. **WET VENTS SHALL BE INSTALLED PER FRC TABLE P3108.3.**
43. **MINIMUM SIZE DRAIN LINE FOR WATER CLOSET IS 3". MINIMUM VENT SIZE FOR SYSTEM WITH WATER CLOSET IS 1-1/2". MINIMUM VENT SIZE FOR SYSTEM WITHOUT WATER CLOSET IS 1-1/4". (FRC - P3005.4.1 & TABLE P3005.4.1)**
44. **AIR ADMITTANCE VALVES TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF FRC - P 3114 AND THE MANUFACTURERS' INSTRUCTIONS. NOT LESS THAN ONE VENT OR VENT STACK SHALL EXTEND OUTDOORS TO OPEN AIR. (FRC - P3114.7)**
45. **DRY VENTS CONNECTING TO A HORIZONTAL DRAIN SHALL CONNECT ABOVE THE CENTERLINE OF THE HORIZONTAL DRAIN PIPE. EVERY DRY VENT SHALL RISE VERTICALLY TO A MINIMUM OF 6 INCHES ABOVE THE FLOOD LEVEL RIM OF HIGHEST TRAP OR TRAPPED FIXTURE TO BE VENTED. (FRC - P3104.3, P3104.4 AND 3104.5)**
46. **PVC DWV PIPING 4" IN DIAMETER AND SMALLER DOES NOT REQUIRE (PURPLE) PRIMER IF CEMENT CONFORMS TO ASTM D2564. (FRC - P3003.9.2)**
47. **CONFIRM PORT-A-JOHN IS ON-SITE. (FBC-B3305.1)**
48. **RETURN PLANS TO ORIGINAL LOCATION, SIGN AND DATE PERMIT CARD OR LEAVE CORRECTION NOTICE WITH ITEMS LISTED.**

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SECTION -4-

2nd PLUMBING ROUGH / ABOVE SLAB

WATER DISTRIBUTION

1. CHECK PLANS AND PERMIT CARD.
2. TOILET FACILITIES SHALL BE PROVIDED FOR CONSTRUCTION WORKERS.
(FBC -B3305.1)
3. WATER DISTRIBUTION PIPING SHALL CONFORM TO NATIONAL
SANITATION FOUNDATION STANDARDS. (NSF) 61. (FRC - P2906.5 AND TABLE
P2906.4)
4. HOT WATER PIPING MUST HAVE 180 DEGREE RATING AT 100 PSI.
(FRC - P2906.5)
5. WATER SUPPLY AND DISTRIBUTION MATERIALS, JOINTS AND
CONNECTIONS SHALL CONFORM TO FRC - P2906.
6. WATER SERVICE PIPE & WATER DISTRIBUTION PIPE SHALL BE IDENTIFIED
FOR APPROVED USE CONFORMING TO NSF 61. (FRC - P2906.4 & P2609.5)
7. WATER SUPPLY SYSTEM SHALL BE TESTED BY NO LESS THAN THE
WORKING PRESSURE OF THE SYSTEM OR FOR PIPES OTHER THAN
PLASTIC, 50 PSI AIR TEST FOR A MINIMUM 15 MINUTES. NOTE: POTABLE
WATER MUST BE USED FOR THE WET TEST. (FRC - P2503.7)
8. PIPING SUPPORT AND HANGERS MUST BE INSTALLED PER FRC SECTION
P2605. SEE TABLE P2605.1 FOR PIPE SUPPORT. SEE MID-STORY GUIDE
REQUIRED ON 2" AND SMALLER PLASTIC PIPE. (TABLE 2601.5, FOOTNOTE B)
9. **CPVC. ORANGE PRIMER IS REQUIRED FOR CPVC CONNECTIONS EXCEPT
WHERE ONE-STEP, YELLOW OR RED, SOLVENT CEMENTING CONFORMING
TO ASTM F493 IS ALLOWED. (FRC - P2906.9.1.2)**
10. IF PIPING OTHER THAN GALVANIZED OR CAST IRON IS USED WITHIN 1 1/4"
FROM EDGE OF FRAMING MEMBERS, PIPING MUST BE PROTECTED BY
NAIL OR SHEILD PLATES TO EXTEND 2" BELOW THE TOP AND 2" ABOVE
THE BOTTOM PLATES. (FRC - P 2603.2.1)
11. WATER HAMMER ARRESTERS ARE REQUIRED IN ACCORDANCE WITH
MANUFACTURER'S INSTRUCTIONS. NOTE: THE GENERAL REQUIREMENT
FOR THEM TO BE INSTALLED WHERE QUICK CLOSING VALVES ARE
UTILIZED CAN STILL BE FOUND IN THE COMMERCIAL PLUMBING CODE.
(FPC 604.9) (FRC - P2903.5)

DRAIN & VENT

12. **DRAIN AND VENT PIPE SYSTEMS ARE TO BE TESTED WITH A FIVE FOOT HEAD OF WATER AT FIRST ROUGH. UPSTAIRS TUB(S) TO BE FILLED TO OVERFLOW OR TO FIVE FOOT HEAD OF WATER FOR 15 MINUTES AT SECOND ROUGH. SHOWER PANS ALSO TO BE FILLED. (FRC P2503.5.1 & P2503.6)**
13. **GRAVITY SEWER SHALL BE TESTED TO A MINIMUM FIVE FOOT HEAD FOR 15 MINUTES. (FRC - P2503.4)**
14. **FITTINGS MUST BE INSTALLED TO GUIDE SEWAGE AND WASTE IN THE DIRECTION OF FLOW (FRC - P2608.1)**
15. **CLEANOUTS MUST BE INSTALLED NOT MORE THAN 100' APART AND SHALL BE INSTALLED PER FRC SECTION P3005.2.1 THROUGH P3005.2.11.**
16. **THE JUNCTION OF THE BUILDING DRAIN AND THE BUILDING SEWER SHALL HAVE A CLEANOUT. (FRC - P3005.2.3)**
17. **WATER CLOSET SHALL NOT BE SET CLOSER THAN 15 INCHES FROM ITS CENTER TO ANY SIDE WALL, PARTITION OR VANITY. (FRC - P2705.1(5) & FRC307.1, FIGURE R307.1)**
18. **MINIMUM VENT REQUIRED AT LEAST ONE HALF THE REQUIRED DIAMETER OF THE DRAIN SIZE AND IN NO CASE SMALLER THAN 1 ¼". (FRC - P3113.1)**
19. **ALL OPEN VENT PIPES THAT EXTEND THROUGH A ROOF SHALL BE TERMINATED AT LEAST 6 INCHES ABOVE THE ROOF. WHERE A ROOF IS USED FOR OTHER THAN WEATHER PROTECTION, THE VENT EXTENSIONS SHALL BE RUN AT LEAST 7 FEET ABOVE THE ROOF (FRC - P 3103.1)**
20. **A VENT TERMINAL DIRECTLY BENEATH ANY DOOR, OPENABLE WINDOW OR AIR INTAKE OF THE BUILDING OR ADJACENT BUILDING MUST BE A MINIMUM OF 4' BELOW SAID OPENING NOR SHALL ANY SUCH VENT TERMINAL BE WITHIN 10' HORIZONTALLY OF SUCH AN OPENING UNLESS 2' ABOVE THE TOP OF THE OPENING (FRC - P 3103.5)**
21. **VENTS FOR FUTURE FIXTURES MUST BE INSTALLED AND CONNECTED TO THE VENT SYSTEM. THE CONNECTION MUST BE IDENTIFIED TO INDICATE THAT THE CONNECTION IS A VENT. (FRC - P3104.6)**
22. **DISTANCE OF TRAP TO VENT MUST BE PER FRC TABLE P3105.1.**
23. **WET VENT SIZING MUST BE PER FRC TABLE P3108.3**
24. **THE MINIMUM REQUIRED DIAMETER OF A VENT IS HALF THE DIAMETER OF THE DRAIN SERVED. IN NO CASE SHALL THE DIAMETER OF THE VENT BE SMALLER THAN 1 ¼ INCHES. (FRC - P3113.1)**
25. **ALL VENT PIPING SHALL BE SLOPED AND CONNECTED AS TO DRAIN BACK TO THE DRAINAGE SYSTEM BY GRAVITY (FRC - P3104.2)**

26. **FLOOR DRAINS SUBJECT TO EVAPORATION SHALL BE PROTECTED BY ONE OF THE METHODS IN THE FOLLOWING SECTIONS. USING A TRAP PRIMER OR BARRIER-TYPE TRAP SEAL. (FRC - P3201.2.1.1 THRU P3201.2.1.4)**
27. **A DOOR OR PANEL OF SUFFICIENT SIZE TO PROVIDE ACCESS (MIN. 12"X12") SHALL BE PROVIDED TO WHIRLPOOL CIRCULATION PUMPS. (FRC - P2720.1)**
28. **MINIMUM SHOWER COMPARTMENT DIMENSIONS ARE 30" X 30". MINIMUM SHOWER SIZE IS 900 SQ. INCHES. (FRC - P2708.1 AND EXCEPTIONS)**
29. **SITE BUILT SHOWER PANS SHALL BE LINED WITH LEAD, COPPER, PLASTIC OR A SHEET APPLIED MEMBRANE. (FRC - P2709.2). SEE EXCEPTION 3. NOT REQUIRED WHERE SHOWER DRAIN IS DEPRESSED A MINIMUM 2" BELOW FINISHED FLOOR ON THE FIRST FLOOR LEVEL (FRC - P 2709.2)**
30. **PIPING, OTHER THAN GALVANIZED OR CAST IRON, USED WITHIN 1 1/4" FROM EDGE OF FRAMING MEMBER MUST BE PROTECTED BY NAIL PLATES, SHEILD PLATES TO EXTEND 2" BELOW THE TOP AND 2" ABOVE THE BOTTOM PLATES (FRC - P 2603.2.1)**
31. **RETURN PLANS TO ORIGINAL LOCATION, SIGN AND DATE PERMIT CARD, OR LEAVE CORRECTION NOTICE WITH ITEMS LISTED.**

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SECTION -5-

PLUMBING FINAL

1. CHECK PLANS AND PERMIT CARD.
2. ALL PREVIOUS REQUIRED INSPECTIONS MUST BE APPROVED.
3. WATER HEATERS REQUIRES FULL- OPEN TYPE SHUT- OFF VALVE INSTALLED IN THE COLD WATER SUPPLY PIPE TO EACH WATER HEATER. (FRC - P2903.9.2)
4. WATER HEATERS IN GARAGES HAVING AN IGNITION SCOURCE SHALL BE ELEVATED SUCH THAT THE SOURCE OF IGNITION IS NOT LESS THAN 18" ABOVE THE GARAGE FLOOR. EXCEPTION: ELEVATION IS NOT REQUIRED FOR APPLIANCES THAT ARE *LISTED* AS FLAMMABLE VAPOR IGNITION-RESISTANT. (FRC - P2801.7)
5. **WATER HEATER PAN IS REQUIRED IF LEAKAGE FROM THE TANK WILL CAUSE DAMAGE. (FRC - P2801.6) RELIEF PAN PIPING SHALL NOT BE PVC. (P2801.6.1) ALSO, WHERE A PAN DRAIN WAS NOT PREVIOUSLY INSTALLED, A PAN DRAIN SHALL NOT BE REQUIRED FOR A REPLACEMENT W.H. INSTALLATION. (FRC - P2801.6.1)**
6. **PRESSURE RELIEF VALVE PIPING SHALL NOT BE TRAPPED OR DIRECTLY CONNECTED TO THE DRAINAGE SYSTEM. IT SHALL DISCHARGE TO A SAFE PLACE SUCH AS THE FLOOR, WATER HEATER PAN, OUTSIDE THE BUILDING OR AN INDIRECT WASTE. THE DISCHARGE SHALL BE INSTALLED IN A MANNER THAT DOES NOT CAUSE PERSONAL INJURY OR STRUCTURAL DAMAGE. (FRC - P2804.6.1.1)**
7. **WHEN DISCHARGE PIPING IS CONSTRUCTED OF PEX OR PE-RT TUBING, PIPING SHALL BE ONE NOMINAL PIPE IZE LARGER THAN THE SIZE OF THE RELIEF VALVE OUTLET AND MUST BE FASTENED IN PLACE. (P2804.6.1(14)**
8. A MEANS OF CONTROLLING INCREASED PRESSURE CAUSED BY THERMAL EXPANSION SHALL BE PROVIDED PER SECTIONS P2903.4, P2903.4.1 AND P2903.4.2.
9. SERVICE VALVE. EACH DWELLING UNIT SHALL HAVE AN ACCESSIBLE MAIN SHUTOFF VALVE NEAR THE ENTRANCE OF THE WATER SERVICE TO THE STRUCTURE. (FRC - P2903.9.1)
10. HOSE BIBBS AND HOSE CONNECTIONS REQUIRE VACUUM BREAKER BACKFLOW PREVENTION KNOWN AS ANTI-SIPON DEVICES. (FRC - P2902.4.3)
11. POTABLE WATER SYSTEM MUST BE PROTECTED FROM BACKFLOW FROM IRRIGATION SYSTEM. (FRC - P2902.5.3)

12. EACH FIXTURE MUST HAVE SHUT-OFF VALVE EXCEPT FOR BATHTUBS AND SHOWERS IN RESIDENTIAL CONSTRUCTION (FRC - P2903.9.3)
13. EACH FIXTURE SHALL BE TRAPPED BY A WATER SEAL. SEE EXCEPTIONS FOR FIXTURES WITH INTEGRAL TRAPS AND LAUNDRY WASTE TRAYS. (FRC - P3201.6)
14. DOMESTIC DISHWASHER DISCHARGE PIPE OR TUBING SHALL RISE TO THE UNDERSIDE OF THE COUNTER AND BE FASTENED IN POSITION BEFORE CONNECTING TO THE GARBAGE DISPOSAL OR WYE FITTING IN THE SINK TAILPIECE. (FRC - P2717.2)
15. ALL FLASHINGS FOR VENTS MUST BE INSTALLED AND SEALED AT ROOF LINE. (FRC - P3103.3)
16. ALL FIXTURES SHALL BE SECURELY FASTENED IN PLACE. (FRC - P2705.1)
17. VERIFY SEWER TAP INSPECTION HAS BEEN APPROVED.
18. **CONDENSATION LINES, IRRIGATION/SPRINKLER SYSTEMS AND DOWNSPOUNTS SHALL DISCHARGE AT LEAST 1 FOOT AWAY FROM STRUCTURE SIDEWALL WHEATHER BY PIPING, TAIL EXTENSIONS OR SPLASHBLOCKS. (FRC - R318.5)**
19. WATER HAMMER ARRESTERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. (FRC - P2903.5)
20. RETURN PLANS TO ORIGINAL LOCATION, SIGN AND DATE PERMIT CARD, OR LEAVE CORRECTION NOTICE IF NECESSARY.

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SECTION -6-

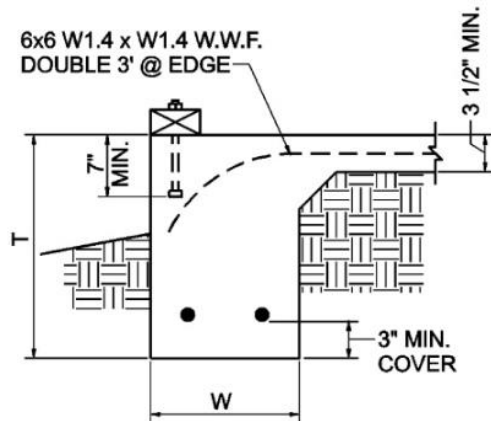
SLAB, STEMWALL, MONOLITHIC SLAB

1. CHECK PERMIT CARD, SITE PLAN, SETBACKS AND REVIEW PLANS.
2. CONFIRM TOILET FACILITIES ARE ON SITE. IF NOT, LEAVE A COURTESY NOTE TO REMIND CONTRACTOR ONE WILL BE REQUIRED BY NEXT INSPECTION. (FBC 3305.1)
3. CONFIRM THERE IS NO VEGETATION, STUMPS, ROOTS, CARDBOARD, TRASH AND FOREIGN MATERIAL, ETC. IN THE FILL. (FRC - R318.6.2 & R506.2)
4. **CONFIRM THAT ALL REQUIRED FOOTERS ARE IN PLACE AND PROPERLY SIZED. THE BOTTOM SHALL EXTEND NO LESS THAN 12 INCHES BELOW UNDISTURBED SOIL OR DIRT. (FRC - R403.1.4)**
5. CHECK FOOTING SIZE FOR WIDTH AND DEPTH PER PLAN. CHECK FOR INTERIOR FOOTINGS, COLUMN PADS, PORCH FOOTINGS AND FIREPLACE FOOTINGS OR FOR PORTIONS OF THE FOOTING THAT WILL SUPPORT MORE THAN ONE STORY. (FRC - R403 & TABLE R403.1)
6. WHEN FOUNDATIONS BEAR ON COMPACTED FILL MATERIAL, CONFIRM THE COMPACTED FILL COMPLIES WITH THE PROVISIONS OF AN APPROVED GEOTECHNICAL REPORT COMPLETED BY A REGISTERED DESIGN PROFESSIONAL. (FBC 1803, FBC 1803.5.8 & FBC1804.6)
7. CONFIRM PLUMBING PENETRATIONS ARE PROPERLY PROTECTED. ANY PIPES THAT PASS THROUGH A FOOTING MUST BE SLEEVED TWO PIPE SIZES LARGER THAN THE PIPE ITSELF. (FRC P2603 & P2603.4).
NOTE: CELLULOSE CONTAINING MATERIALS ARE PROHIBITED FOR SLEEVING. (FRC P2603.3.1 & R318.2)
8. **STEMWALL FILL OR INFILL FOR SLABS SHALL NOT EXCEED 24" UNLESS APPROVED AND MUST BE COMPACTED (FRC - R506.2.1)**
9. SLABS. CHECK TO CONFIRM IF PLANS CALL FOR WIRE (WWF) OR FIBERMESH. PLANS MUST STATE WHICH IS REQUIRED. IF FIBERMESH IS TO BE USED, STICKER MUST BE ON PERMIT CARD.
10. SLABS. CONFIRM PLACEMENT OF APPROVED TRAPBOXES AND PLASTIC, METAL OR OTHER STAY IN PLACE FORMS. (FRC – R404.1.3.3.6.1)
11. SLABS. CHECK FOR MINIMUM 3 ½" SLAB THICKNESS. IF DESIGNED BY AN ENGINEER SLAB THICKNESS SHALL BE ACCORDING TO ENGINEER'S DRAWING. (FRC - R506.1)

12. **SLABS SHOULD BE ELEVATED 6" ABOVE THE FINISH GRADE TO PROTECT UNTREATED WOOD AND TO HELP PREVENT MOISTURE INTRUSION AND TO DIRECT THE WATER AWAY FROM THE FOUNDATION. (FRC - R318.7, R401.3, & R403.1.7.3)**
13. **SLABS. CHECK VAPOR BARRIER FOR 6 MIL THICKNESS AND THE JOINTS BEING LAPPED 6" AND SEALED. (FRC - R506.2.3)**

EXCEPTIONS: VAPOR BARRIER MAY BE OMITTED:

1. **FROM GARAGES, UTILITY BUILDINGS AND OTHER UNHEATED ACCESSORY STRUCTURES.**
 2. **FOR UNHEATED STORAGE ROOMS HAVING AN AREA OF LESS THAN 70 SQ. FT. AND CARPORTS.**
 3. **FROM DRIVEWAYS, WALKS, PATIOS, AND OTHER FLAT WORK NOT LIKELY TO BE ENCLOSED AND HEATED AT A LATER DATE.**
 4. **WHERE APPROVED BY THE BUILDING OFFICIAL, BASED ON LOCAL SITE CONDITIONS.**
14. **FOR MONO SLABS CHECK TO SEE IF PLANS SHOW A 45-DEGREE ANGLE ON THE INTERIOR SIDE OF FOOTING. IF SO, CONFIRM EARTH IS PROPERLY CUT.**



15. **FOR MONO SLABS CHECK TO SEE IF DOWELS ARE STUCK IN GROUND ADJACENT TO FINAL LOCATION. (SECTION FRC - R404 & SEE PLANS)**
16. **TERMITE PROTECTION. CHECK FOR PROOF OF APPROVED TERMITE PROTECTION BY CHEMICAL PRE-TREAT, BAIT SYSTEMS OR WOOD TREATMENT SYSTEMS. RETURN DUPLICATE COPY OF CERTIFICATE TO OFFICE. (FRC - R318.1)**
17. **STEMWALL. CHECK FOOTER DOWEL LENGTH AND PLACEMENT. CONFIRM THEY HAVE PROPER OVERLAP AFTER SLAB IS POURED? (R404.1.2.3.7.5, TABLE R608.5.4, (1), FIGURE R608.5.4, (1) AND ACI 318)**

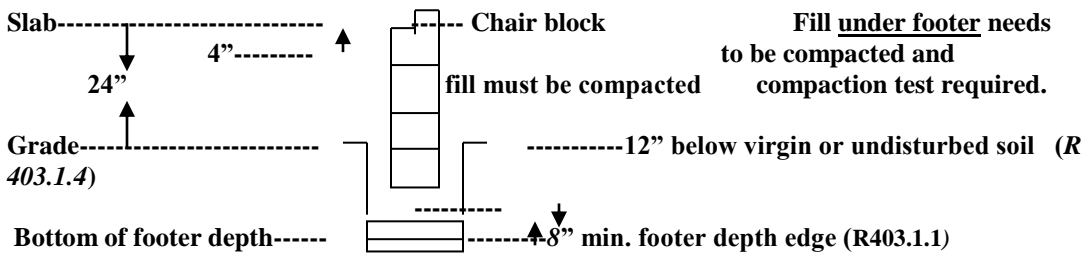
18. **STEMWALLS. CONFIRM CELLS THAT HAVE REBAR IN THEM ARE CLEAN AND FREE OF DIRT. CLEANOUTS IN REINFORCED MASONRY OR SHEARWALLS SHALL BE PROVIDED AT THE BOTTOM COURSE OF EACH POUR EXCEEDING 64". (FRC - R606.3.5.2)**
19. **STEMWALLS. MASONRY UNITS SHALL BE PLACED, SET IN MORTAR WITH HEAD AND BED JOINTS 3/8 INCH THICK, EXCEPT THAT THE BED JOINT OF THE STARTING COURSE PLACED OVER FOUNDATIONS SHALL NOT BE LESS THAN 1/4 INCH AND NOT MORE THAN 3/4 INCH. MASONRY UNITS SHALL NOT BE DISTURBED TO THE EXTENT THAT THE INITIAL BOND IS BROKEN AFTER INITIAL PLACEMENT. IF BOND IS BROKEN, UNITS SHALL BE REMOVED AND RELAID IN FRESH MORTAR. (FRC - R606.3.1-R606.3.2)**

NOTE:

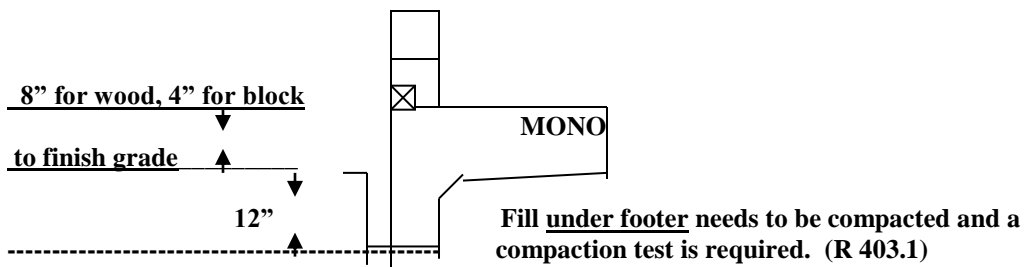
IF MARKED FPA THERE WILL NEED TO BE A FAXED FLOOD ELEVATION CERTIFICATE ON FILE BEFORE THE NEXT INSPECTION CAN BE SCHEDULED.

TABLE 404.1.1

SLAB ON FILL OR INFILL FOR STEM WALLS SHALL NOT EXCEED 24" IN DEPTH FOR CLEAN SAND OR GRAVEL AND 8 INCHES FOR EARTH UNLESS COMPACTED AND APPROVED BY ENGINEER OF RECORD OR GEOTECHNICAL COMPACTION TEST REPORT. (R506.2.1)



Slab would be 26" off of grade if footer is 8" deep, 3- 8" blocks, plus chair block = 26"



20. **CONFIRM ALL COLUMN PADS AND PORCH FOOTERS BEEN INSPECTED. WILL A PORCH SLAB INSPECTION BE REQUIRED AT A LATER TIME? SEE PLANS. GIVE PARTIAL APPROVAL AND MARK PLANS IF NOT ALL INSPECTED AT THIS TIME.**
21. **ALL VERTICAL DOWELS SHALL HAVE SAFETY CAPS INSTALLED IF NOT EXTENDED UP TO 7 FEET ABOVE THE SLAB. (AHJ, OSHA 29 CFR 1926.701 (b))**
22. **RETURN PLANS TO ORIGINAL LOCATION, SIGN AND DATE PERMIT CARD OR LEAVE CORRECTION NOTICE WITH ITEMS LISTED.**

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SECTION -7-

LINTEL / CMU CONSTRUCTION

1. CHECK PERMIT, REVIEW PLANS AND ELEVATION CERTIFICATE IF REQUIRED.
2. CHECK TO SEE IF ALL WALLS, COLUMNS, ETC. ARE IN PLACE. CONFIRM ALL PREVIOUS REQUIRED INSPECTIONS HAVE BEEN PASSED OR APPROVED.
3. CHECK ALL DOWNCELLS WITH STEEL FOR CLEANOUT HOLES AT BOTTOM OF POUR. MINIMUM #5 REBAR TO BE USED. (FRC - R606.3.5.2)
4. IF POWERSTEEL LINTELS OR POWERSTEEL BOX LINTELS ARE USED, APPROVAL AND DESIGN MUST BE SHOWN ON PLANS.
5. PRECASTS LINTELS, BEAMS AND GIRDERS SHALL HAVE A BEARING OF NOT LESS THAN 3 INCHES IN LENGTH MEASURED PARALLEL TO THE BEAM. (FRC - R606.6.3)
6. CHECK PLANS FOR LOCATION, SIZE AND AMOUNT OF STEEL TO BE PLACED IN PRECASTS LINTELS AND BOND BEAMS.
7. CHECK FOR TYING AND LAPPING OF STEEL. (ACI 318), (FRC - R608.5.4.3, TABLE R608.5.4(1))
8. CHECK FOR CONTINUOUS STEEL PLACEMENT AT ALL CORNERS AS NOTED IN 2014 FRC - R609.2.4, FIGURE R609.2.4. (NOTE: THIS SECTION AND FIGURE HAVE BEEN REMOVED FROM THE 2017 FRC.) REFER TO PLANS.
9. CHECK FOR 3" OR LARGER PLUMBING VENTS PENETRATING THE BOND BEAM. CONFIRM BLOCK HAS BEEN REMOVED AND FORMS INSTALLED AS NECESSARY. (ACI 318)
10. CONFIRM SLEEPING ROOM WINDOW SILLS ARE 44 INCHES OR LESS OFF THE FLOOR AND THE OPENINGS ARE LARGE ENOUGH FOR EMERGENCY EGRESS REQUIREMENTS. PLANS WILL SPECIFY SIZE OF EGRESS. (FRC - R310.2)
11. CONFIRM CONCRETE MASONRY UNITS ARE PLACED PROPERLY AND MORTAR JOINTS WITHIN TOLERANCE? MASONRY UNITS SHALL BE SET IN MORTAR WITH HEAD AND BED JOINTS 3/8 INCH THICK, EXCEPT THAT THE BED JOINT OF THE STARTING COURSE PLACED OVER FOUNDATIONS SHALL BE NOT LESS THAN 1/4 INCH AND NOT MORE THAN 3/4 INCH. MASONRY UNITS SHALL NOT BE DISTURBED TO THE EXTENT THAT THE INITIAL BOND IS BROKEN AFTER INITIAL PLACEMENT. IF BOND IS BROKEN, UNITS SHALL BE REMOVED AND RELAID IN FRESH MORTAR. (FRC - R606.3.1 & R606.3.2)

12. **LINTELS SHALL BE PROVIDED OVER ALL OPENINGS OF 2 FEET OR MORE. (FRC - R608.8.1)**
13. **CHECK FOR CONCENTRATED LOADS OVER LINTELS. THIS SHOULD BE CONFIRMED WITH THE APPROVED PLANS OR WITH THE ENGINEER OF RECORD.**
14. **CONFIRM DOWNCELLS UNDER GIRDERS ARE POURED SOLID OR REFER TO APPROVED PLANS.**
15. **CHECK MASONRY CHIMNEYS FOR PROPER CONSTRUCTION. (FRC - R 1001.1)**
16. **ALL VERTICAL DOWELS (REBAR) SHALL HAVE SAFETY CAPS INSTALLED IF NOT EXTENDED 7 FEET ABOVE THE SLAB. (FBC – 115 AND OSHA 29 CFR 1926.701 (b))**
17. **RETURN PLANS TO ORIGINAL LOCATION, SIGN AND DATE PERMIT CARD OR LEAVE CORRECTION NOTICE WITH ITEMS LISTED.**

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SECTION -8-

ROOFING / RE-ROOF

SHEATHING AND DRY IN INSPECTION

1. SHEATHING NAILING INSPECTIONS ARE REQUIRED FOR NEW CONSTRUCTION AND ALL HOUSES CONSTRUCTED SINCE 2001. (SUB FASCIA MUST BE INSTALLED AT THIS INSPECTION FOR NEW CONSTRUCTION) (FRC - R803.2.3.1)
2. COLLAR TIES AT FRONT ENTRY, REAR AND SOFFIT AREAS WILL BE CHECKED AT THIS INSPECTION. (NEW WORK)
3. DOWNCELLS WILL BE CHECKED AT THIS INSPECTION. (NEW WORK ONLY)
4. DETERMINE THICKNESS AND GRADE OF STRUCTURAL SHEATHING. CHECK FOR AGENCY APPROVAL STAMP. (NEW WORK) (FRC - R803.2.1)
5. CHECK FOR PROPER NAILING AND FASTENING OF STRUCTURAL SHEATHING, GABLE AND OVERHANG BLOCKING, DIAPHRAMS AND BRACING. (FRC - R 803.2.3.1)

DRY-IN INSPECTION

6. UNDERLAYMENT SHALL COMPLY WITH SECTION (FRC - R905.1.1)
 - A. SLOPES FROM 2:12 AND LESS THAN 4:12.(R 905.1.1, TABLE R905.1.1)
 - B. SLOPES 4:12 AND GREATER – ONE LAYER STARTED AT EVE WITH 36” SUCCESSIVE STRIPS LAPPED 2” AND FASTENED SUFFICIENTLY TO STAY IN PLACE (FRC - 905.1.1(2) & TABLE R905.1.1 & NOTES)

ROOF FINAL

7. FLASHINGS SHALL COMPLY WITH FRC - R905.2.8 FOR ASPHALT SHINGLES.
8. VALLEYS SHALL COMPLY WITH FRC - R905.2.8.2 FOR ASPHALT SHINGLES.
9. DRIP EDGE SHALL COMPLY WITH FRC - R905.2.8.5 AND BE FASTENED A MAXIMUM OF 12 INCHES ON CENTER WITH A MINIMUM 3” OVERLAP. (FRC – R905.2.8.5)
10. SHINGLES MUST COMPLY WITH ASTM D3161 MODIFIED TO 110 MPH; MINIMUM OF 4 FASTENERS OR PER MANUFACTURER REQUIREMENTS IF GREATER (FRC - R905.2.6 & R905.2.6.1)
11. FASTENERS, FOR SHINGLES, MUST COMPLY WITH (FRC - R905.2.5),

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SECTION -9-

ELECTRICAL UNDERGROUND CONDUIT

1. **RIGID GALVANIZED AND INTERMEDIATE METAL CONDUIT MUST BE BURIED A MINIMUM OF 6” IN GROUND. SEE BURIAL DEPTH REQUIREMENTS IN FRC TABLE E3803.1 AND NEC TABLE 300.5.**
2. **PVC CONDUIT MUST BE BURIED A MINIMUM OF 18” BELOW GRADE. SEE BURIAL DEPTH REQUIREMENTS IN FRC TABLE E3803.1 AND NEC TABLE 300.5.**
3. **CONDUIT BENDS. THERE SHALL BE NO MORE THAN FOUR QUARTER BENDS (360 DEGREES IN BENDS) ALLOWED BETWEEN PULL POINTS BETWEEN CONDUIT BODIES AND BOXES. [NEC ARTICLE 344.26]**
4. **ALL PVC CONDUIT AND FITTINGS MUST BE MINIMUM OF SCHEDULE 40 GRAY ELECTRICAL CONDUIT. [NEC ARTICLE 352.10, A THROUGH H AND AHJ]**
5. **PVC CONDUIT SUBJECT TO SEVERE DAMAGE MUST BE SCHEDULE 80 OR PROTECTED FROM DAMAGE. [FRC - E3802.3.2 AND NEC ARTICLE 300.5 D (4)]**
6. **UNDERGROUND SERVICE ENTRANCE CONDUCTORS THAT ARE NOT ENCASED IN CONCRETE AND THAT ARE BURIED 18 INCHES OR MORE BELOW GRADE SHALL HAVE THEIR LOCATION IDENTIFIED WITH A WARNING RIBBON THAT IS PLACED IN THE TRENCH AT LEAST 12 INCHES ABOVE THE UNDERGROUND CONDUCTOR INSTALLATION. [FRC E3803.2 AND NEC ARTICLE 300.5 D (3)]**
7. **A BUSHING OR FITTING WITH AN INTEGRAL BUSHING OPENING IS REQUIRED AT THE END OF A CONDUIT THAT TERMINATES UNDERGROUND WHERE THE WIRES EMERGE AS A DIRECT BURIAL WIRING METHOD. [NEC ARTICLE 300.5 (H)]**

CONDUCTORS

1. **TYPE UF & USE CONDUCTORS CAN BE USED FOR DIRECT BURIAL PER NEC TABLE 300.5. [UF ARTICLE 340.10(1), USE ARTICLE 338.2.]**
2. **WHERE RACEWAYS (CONDUITS) ARE INSTALLED IN WET LOCATIONS ABOVE GRADE, THE INTERIOR OF SUCH RACEWAYS SHALL BE CONSIDERED A WET LOCATION AND CONDUCTORS USED MUST BE LISTED FOR USE IN WET LOCATIONS. [FRC E3802.7]**

3. **CONDUCTORS MUST BE INSTALLED AT LEAST 24" BELOW GRADE FOR DIRECT BURIAL WITHOUT CONDUIT. [NEC TABLE 300.5]
EXCEPTION – DIRECT BURIAL CABLES FOR RESIDENTIAL BRANCH CIRCUITS 20 AMP – 120 VOLT PROTECTED BY GFCI MAY BE INSTALLED 12" BELOW GRADE. [NEC TABLE 300.5]**
4. **DIRECT BURIAL CONDUCTORS MUST BE PROTECTED TO A POINT AT LEAST 8 FEET ABOVE FINISHED GRADE. [NEC ARTICLE 300.5, (D (1))]**

ENCLOSURES

1. **ALL CONDUCTORS AND EQUIPMENT SHALL BE ACCEPTED ONLY IF APPROVED FOR THE INTENDED USE AND LOCATION. [NEC ARTICLES 110.2 & 110.3]**
2. **ELECTRICAL PANELS AND BOXES USED OUTDOORS MUST BE WEATHERPROOF TYPE NEMA-3R APPROVED WITH APPROVED WEATHERPROOF COVER. [NEC ARTICLES 110.2, 110-3, 110.28, WITH TABLE 110.28 & 404.4]**
3. **“COVERED WHILE IN USE” RECEPTACLE COVERS. A TOTALLY ENCLOSED WEATHERPROOF RECEPTACLE COVER, WHICH REMAINS WEATHERPROOF WITH THE CORD ATTACHED, MUST BE USED ON ALL 15-20 AMP/ 120-250 VOLT RECEPTACLES INSTALLED IN WET LOCATIONS.
[NEC ARTICLE 406.9(B) 1]**
4. **RETURN PLANS TO ORIGINAL LOCATION, SIGN AND DATE PERMIT CARD, LEAVE REJECT IF NECESSARY OR COURTESY NOTE IF YOU NEED TO CONVEY A MESSAGE.**

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SECTION -10-

ELECTRICAL ROUGH

CONDUCTORS

1. NEUTRAL AND GROUNDING CONDUCTORS MUST BE SEPARATED IN SUBPANELS. [ARTICLE 250.24(5)]
2. EXPOSED ROMEX (NM) MUST BE PROTECTED. [NEC ARTICLES 300.4 & 334]
3. MINIMUM CONDUCTOR SIZE FOR KITCHEN, LAUNDRY AND BATHROOM BRANCH CIRCUITS IS #12 AWG. OTHER RECEPTACLE BRANCH CIRCUIT MAY BE SUPPLIED WITH #14 AWG. [NEC ARTICLES 210.11 (C) AND 210.]
4. MINIMUM RANGE WIRE SIZE IS #8 (4 WIRES) WITH GROUND. MINIMUM RANGE CIRCUIT SIZE IS 40 AMPS. [ARTICLE 210.19(3)]
5. DOUBLE OVEN OR COOKTOP CIRCUIT AND CONDUCTOR SIZE SHALL BE PER MANUFACTURER'S SPECIFICATIONS. MINIMUM 10/3 – 30 AMP (4 WIRE) [NEC ARTICLE 210.19(A)(3)]
6. WATER HEATER MINIMUM CONDUCTOR SIZE IS 10/2 WITH GROUND FOR 4KW. THE RATING OF AN INDIVIDUAL BRANCH CIRCUIT SHALL NOT BE LESS THAN THE MARKED RATING OF THE APPLIANCE [NEC ARTICLE 422.10 (A) & 422.13]
7. MINIMUM DRYER CONDUCTOR SIZE IS 10/3 WITH GROUND. (4 WIRE) [NEC ARTICLES 210.23(B) & 250.140]
8. CONDUCTOR AMPACITY TABLES [NEC TABLES 310.15. (B)]
9. AIR HANDLERS MUST BE MARKED WITH HEATER KW. [FRC M1303.1 (4), FMC-301.9]
 - 5 KW – 10/2 WITH GROUND
 - 7.5 KW – 8/2 WITH GROUND
 - 10 KW – 6/2 WITH GROUND
10. ALL GROUNDING CONNECTIONS MUST BE MADE UP WITH APPROVED SPLICE CAPS OR WIRE NUTS AND HAVE PIGTAIL FOR CONNECTION TO THE DEVICE. [ARTICLE 110.14 (B)]
11. ALL SWITCHES AND RECEPTACLES MUST BE GROUNDED. [ARTICLES 404.9(B) & 406.4 (B)]

12. WHITE INSULATED WIRES USED AS A HOT CONDUCTORS MUST BE MARKED OR RE-IDENTIFIED WITH MARKING TAPE, PAINT, OR OTHER EFFECTIVE MEANS AT ITS TERMINATION AND AT EACH LOCATION WHERE THE CONDUCTOR IS VISIBLE AND ACCESSIBLE. IDENTIFICATION SHALL ENCIRCLE THE INSULATION AND SHALL BE A COLOR OTHER THAN WHITE, GRAY OR GREEN. [NEC ARTICLE 200.7(C)]
13. NEUTRALS OR GROUNDED CONDUCTORS OF 6 AWG OR SMALLER MUST BE MARKED WITH WHITE OR GRAY OUTER FINISHES OR STRIPES ALONG THE ENTIRE LENGTH. GROUNDING CONDUCTORS SHALL BE PERMITTED TO BE BARE, COVERED OR INSULATED WITH A COVERING THAT IS GREEN OR GREEN WITH YELLOW STRIPES. MUST BE MARKED WITH GREEN IF # 4 AWG OR LARGER. [NEC ARTICLES 200.6(A) & 250.119]

CIRCUITS / OUTLETS

1. #12/2 AWG CONDUCTORS WITH GROUND WIRE (20 AMP CIRCUIT) MUST BE USED FOR THE 2 OR MORE KITCHEN SMALL APPLIANCE CIRCUITS. THESE CIRCUITS SHALL EXTEND FROM THE KITCHEN COUNTERTOP AND ISLAND AREA TO THE DINING, NOOK AND BREAKFAST AREA. [NEC ARTICLE 210.52(B), (1)&(3)]
2. A REFRIGERATOR MAY BE ON THE SMALL APPLIANCE CIRCUIT. IF A SEPARATE REFRIGERATOR CIRCUIT IS SUPPLIED IT MAY BE A 15 AMP. CIRCUIT WITH 14/2 W/GROUND WIRE. [ARTICLE 210.52, (B), (1), EXCEPTION (2)]
3. **KITCHEN AND LAUNDRY AREA RECEPTACLES SHALL HAVE GROUND FAULT AND ARC FAULT PROTECTION. [ARTICLE 210.8, (A), (6) & (10) AND 210.12 (A)]**
4. **ARC FAULT PROTECTION SHALL BE PROVIDED ON ALL 15 AND 20 AMP CIRCUITS SUPPLYING POWER TO RECEPTACLES IN KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS. [NEC ARTICLE 210.12]**
5. **GFCI PROTECTION IS REQUIRED FOR ALL RECEPTACLES INSTALLED ON A 15 OR 20 AMP CIRCUITS IN BATHROOMS, GARAGES, KITCHENS, GARAGES, OUTDOORS, CRAWLSPACES, UNFINISHED BASEMENTS BOATHOUSES AND SINKS WHERE THE RECEPTACLES ARE WITHIN 6 FEET OF THE OUTSIDE EDGE OF THE SINK. [ARTICLE 210.8, (A), (2), (3), (8).]**
6. **KITCHEN DISHWASHER BRANCH CIRCUIT SHALL BE PROVIDED WITH GFCI AND ARC FAULT PROTECTION. [ARTICLE 210.8 (D)]**
7. **ALL RECEPTACLES WITHIN 6' OF A BATHTUB OR SHOWER STALL SHALL HAVE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION. [210.8(A)(9)]**
8. **RANGE HOOD IS NOT PERMITTED TO BE ON THE REQUIRED KITCHEN SMALL APPLIANCE CIRCUITS. [NEC ARTICLE 210.52, (B), (2)]**
9. **IGNITER FOR GAS RANGE IS ALLOWED TO BE ON SMALL THE KITCHEN SMALL-APPLIANCE CIRCUITS. [ARTICLE 210.52, (B), (2), EXCEPTION (2)]**

10. AT LEAST ONE 120-VOLT, 20 AMP BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY A BATHROOM RECEPTACLE OUTLET. WHERE THE 20 AMP CIRCUIT SUPPLIES A SINGLE BATHROOM, LIGHTING AND OTHER EQUIPMENT WITHIN THE SAME BATHROOM MAY BE ON THE SAME CIRCUIT. [ARTICLE 210.11(C), (3)]
11. **GARAGES MUST HAVE AT LEAST ONE OUTLET AND ONE OUTLET PER BAY AND SHALL NOT SUPPLY OUTLETS OUTSIDE THE GARAGE [NEC ARTICLE 210.52 (G) (1) & FBCR-E3901.9]**
12. **AT LEAST ONE DEDICATED GFCI AND ARC FAULT PROTECTED 20 AMP BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY LAUNDRY RECEPTACLE OUTLET(S). [NEC ARTICLES, 210.8(10), 210.12(A) AND 210.11, (C), (2)]**
13. **RECEPTACLES IN LAUNDRY AREAS SHALL HAVE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION [ARTICLE 210.8 (A) (10)]**
14. **DISHWASHERS AND DISPOSALS MUST BE WIRED ON INDIVIDUAL CIRCUITS IF ON 15 AMP CIRCUIT [ARTICLE 210.23(A), TABLE 210.21, (B), (2)]**
15. **DISHWASHERS AND DISPOSALS MUST BE GFCI AND ARC-FAULT PROTECTED AND OUTLETS MUST BE READILY ACCESSIBLE (NOT BEHIND DISHWASHER) [ARTICLE 210.8 (D) AND 210.12 (A) & FBCR-E3902.10]**
16. **AIR HANDLERS LOCATED IN ATTICS MUST HAVE A LIGHT AND RECEPTACLE AT OR NEAR THE UNIT FOR SERVICING THE UNIT. EXPOSED BULBS SHALL BE PROTECTED FROM DAMAGE BY LOCATION OR LAMP GUARDS. [NEC ARTICLES 210.63, 210.70, (A), (3), FMC – SECTION 306.4.1, FRC 1305.1.4.3]**
17. A GFCI PROTECTED RECEPTACLE IS REQUIRED WITHIN 25' AND ON THE SAME LEVEL AS THE CONDENSER. THE RECEPTACLE OUTLET SHALL NOT BE CONNECTED TO THE LOAD SIDE OF THE EQUIPMENT DICONNECTING MEANS. [NEC ARTICLE 210.63]
18. ATTIC SPACE USED FOR STORAGE OR EQUIPMENT MUST HAVE A SWITCHED LIGHT AT THE ATTIC ACCESS. [NEC ARTICLE 210.70, (A), (3)]
19. MULTI-WIRE BRANCH CIRCUITS MUST HAVE NEUTRAL CONNECTIONS INDEPENDENT OF THE DEVICE. THEY MUST BE WIRE NUTTED TOGETHER WITH A PIGTAIL TO THE DEVICE. [NEC ARTICLES 210.4 & 300.13(B)]
20. SMOKE DETECTORS MUST BE WIRED TOGETHER WITH BATTERY BACK-UP AND LOCATED IN AND ADJACENT TO SLEEPING ROOMS. [(NFPA 72), FBC-R, SECTIONS R314, SMOKE ALARMS, SECTION R315 CARBON MONOXIDE ALARMS.]
21. SMOKE DETECTOR CIRCUITS **SHALL NOT** BE REQUIRED TO BE PROTECTED BY GFCI OR ARC FAULT DEVICES. [NEC ARTICLES 210.8 (A) (5) EXCEPTION AND 210.12 (6) EXCEPTION]
22. VOLTAGE DROP SHOULD BE CONSIDERED AT THE FARTHEST OUTLET OF POWER FOR HEATING, LIGHTING AND WELL CIRCUITS. [ARTICLE 210.19(A), INFORMATIONAL NOTE (4)]
23. RECEPTACLE OUTLETS SHALL BE INSTALLED SO THAT ONE IS SEPARATED BY NO MORE THAN 12 FEET OF WALL SPACE AND MAXIMUM OF 6 FEET FROM OPENINGS. A WALL SPACE IS DEFINED AS ANY WALL TWO FEET OR MORE IN WIDTH. [NEC ARTICLE 210.52(A) (1), (2)]

24. FLOOR RECEPTACLES IN OR ON FLOORS SHALL NOT BE COUNTED AS PART OF THE REQUIRED RECEPTACLES UNLESS LOCATED WITHIN 18 INCHES OF THE WALL. [ARTICLE 210.52 (A) (3)]
25. KITCHEN WALL COUNTERTOPS MUST HAVE RECEPTACLES SPACED NOT MORE THAN 4' APART BEGINNING WITHIN 2 FEET OF THE END OF THE COUNTERTOP. A COUNTERTOP 1-FOOT IN WIDTH OR WIDER REQUIRES A RECEPTACLE OUTLET. EXCEPTION: RECEPTACLE OUTLETS SHALL NOT BE REQUIRED ON A WALL DIRECTLY BEHIND A RANGE, COUNTER-MOUNTED COOKING UNIT OR SINK. [NEC ARTICLE 210.52 (C) (1).
26. RECEPTACLES MUST BE ABOVE COUNTERTOPS BUT NOT MORE THAN 20 INCHES ABOVE THE COUNTERTOP. [NEC ARTICLE 210.52(C), (1 THROUGH 5)]
27. ISLAND AND PENINSULAR CABINETS MUST HAVE A MINIMUM OF 1 RECEPTACLE. THESE RECEPTACLES MUST BE GFCI AND AFC FAULT PROTECTED. [NEC ARTICLE 210.52, (C), (2), (3)]
28. BATHROOM COUNTERTOP RECEPTACLES MUST BE WITHIN 3 FEET OF THE OUTSIDE EDGE OF EACH SINK BASIN. IN NO CASE SHALL THE RECEPTACLE BE LOCATED MORE THAN 12 INCHES BELOW THE TOP OF THE BASIN. [NEC ARTICLE 210.52, (D)]
29. WHIRLPOOL AND HYDROMASSAGE TUBS MUST BE ON A SEPARATE CIRCUIT AND PROTECTED BY A READILY ACCESSIBLE GFCI CIRCUIT PROTECTION. [NEC ARTICLE 680.71]
30. THE NUMBER OF CIRCUITS SUPPLYING GENERAL LIGHTING AND CONVENIENCE OUTLETS SHALL BE COMPUTED BY THE LIVING AREA X 3 WATTS PER SQ. FOOT DIVIDED BY 120 VOLTS. EXAMPLE 1800 SQ. FOOT LIVING AREA X 3 = 5400. 5400 DIVIDED BY 120 = 45 AMPS. THUS 3 – 15 AMP. CIRCUITS EVENLY PROPORTIONED MAY SUPPLY ALL LIGHTING AND RECEPTACLES EXCEPT KITCHEN, DINING, NOOK, LAUNDRY, AND BATHROOM RECEPTACLES. [NEC ARTICLE 220-10]

ENCLOSURES

1. ALL PANELS MUST BE APPROVED FOR LOCATION AND USE. [NEC ARTICLES 110-3(B) & 110.28]
2. NO PANELS WITH OVERCURRENT DEVICES ARE PERMITTED IN BATHROOMS, CLOTHES CLOSETS OR OVER STAIRWAYS. [NEC ARTICLE 240-24(D), (E) & (F)]
3. WORKING CLEARANCE FOR ELECTRICAL PANELS MUST BE A MINIMUM OF 30" WIDE BY 36" DEEP BY 72" HIGH IN FRONT OF PANELS. NO OTHER EQUIPMENT MAY BE IN THIS SPACE. [NEC ARTICLE 110.26 (A)]
4. A CLEAR PATH MUST BE PROVIDED TO THE ELECTRICAL PANEL. [NEC ARTICLE 110.26, (B), (C)]
5. CONDUCTORS ENTERING ENCLOSURES MUST BE PROTECTED FROM ABRASION AND OPENINGS SHALL BE CLOSED IN AN APPROVED MANNER. [NEC ARTICLE 312.5, (A)]

BOXES / FITTINGS

- 1. BOXES MUST BE PROPERLY SUPPORTED. [NEC ARTICLE 314.23, (A) THROUGH (H)]**
- 2. JUNCTION BOXES MUST BE ACCESSIBLE. [NEC ARTICLE 314.29]**
- 3. NAIL PLATES MUST BE INSTALLED TO PROTECT CONDUCTORS WHEN BORED HOLES ARE WITHIN 1 ¼ INCHES FROM THE NEAREST EDGE OF THE WOODEN MEMBER. EXCEPTION: NAIL PLATES ARE NOT REQUIRED WHEN METAL CONDUIT, METALLIC TUBING AND RIGID NONMETALLIC CONDUIT IS USED. [NEC ARTICLE 300.4, (A) (1)]**
- 4. CABLES, RACEWAYS OR BOXES INSTALLED UNDER METAL-CORRUGATED SHEET ROOF DECKING SHALL BE INSTALLED AND SUPPORTED SO THERE IS NOT LESS THAN 1 ½ INCH MEASURED FROM THE LOWEST SURFACE OF THE ROOF DECKING TO THE CABLE, RACEWAY OR BOX. [NEC ARTICLE 300.4).**
- 5. BOX FILL CALCULATIONS SHALL BE PERFORMED ACCORDING TO ARTICLE 314 AND TABLES 314.16. COUNT FOR #14 WIRE IS 2.0 AND FOR #12 WIRE IS 2.25 PER CONDUCTOR WITH GROUNDING WIRES COLLECTIVELY COUNTING AS 1. THE DEVICE COUNTS AS 2. [NEC ARTICLE 314.16 (A)&(B) & TABLE 314.16, (A), (B)]**
- 6. ALL METAL BOXES MUST BE GROUNDED WITH A GREEN SCREW OR GROUNDING CLIP AND BE IDENTIFIABLE. [NEC ARTICLES 250.126 & 250.148(C)]**
- 7. ALL CEILING FAN BOXES MUST BE U.L. APPROVED FOR CEILING FANS. [NEC ARTICLE 314.27,(C) & (D)]**
- 8. NONMETALLIC SHEATHED CABLES SHALL BE SUPPORTED BY STAPLES, CABLE TIES, STRAPS OR SIMILAR FITTINGS DESIGNED NOT TO DAMAGE THE CABLE AT INTERVALS NOT EXCEEDING 4 ½ FEET AND WITHIN 12 INCHES OF TERMINATION. [NEC ARTICLE 334.30]**
- 9. APPROVED STANDOFF BRACKETS THAT SECURE CABLES OR RACEWAYS AT LEAST 1 ¼ INCHES FROM EDGE OF FURRING STRIPS MUST BE USED IN BOTH CONCEALED AND EXPOSED LOCATIONS. [NEC ARTICLE 300.4, (D)]**
- 10. GROUND CLAMPS USED OUTDOORS OR BURIED IN CONCRETE OR EARTH MUST BE DIRECT BURIAL TYPE OR FOR CONCRETE ENCASEMENT WITH BRASS SCREWS. [NEC ARTICLES 110.3, (B) & 250.70]**
- 11. ALL RECESSED CANS MUST BE THERMALLY PROTECTED. ONLY TYPE IC MAY BE IN DIRECT CONTACT WITH INSULATION. [ARTICLES 410.115, (C) & 410.116]**

HVAC DISCONNECTS

- 1. REFRIGERATION EQUIPMENT MUST BE PROVIDED WITH DISCONNECTING MEANS IN ACCORDANCE WITH ARTICLE 440.11.**
- 2. DISCONNECTING MEANS SHALL BE LOCATED WITHIN SIGHT AND READILY ACCESSIBLE FROM THE AIR CONDITIONING OR REFRIGERATION EQUIPMENT. [ARTICLE 430.101 & 440.14]**

3. **CONDUCTORS MUST BE SIZED ACCORDING TO BREAKER SIZE.**
[NEC ARTICLE 210.3]

SERVICES

1. **ALL SINGLE FAMILY DWELLINGS AND MANUFACTURED HOMES SHALL HAVE A MINIMUM 100 AMP SERVICE.** [NEC ARTICLES 230.79(C) & 550.32, (C)]
2. **SERVICE CONDUCTOR VERTICAL CLEARANCE REQUIREMENTS:**
10 FEET AT LOWEST POINT ABOVE AREAS OF PEDESTRIAN TRAFFIC WHERE VOLTAGE DOES NOT EXCEED 150 VOLTS TO GROUND.
12 FEET OVER RESIDENTIAL PROPERTY, DRIVEWAYS AND COMMERCIAL AREAS NOT SUBJECT TO TRUCK TRAFFIC WHERE VOLTAGE DOES NOT EXCEED 300 VOLTS TO GROUND.
15 FEET FOR AREAS LISTED IN THE 12 FOOT CLASSIFICATION WHERE VOLTAGE EXCEEDS 300 VOLTS TO GROUND.
18 FEET OVER PUBLIC STREETS, ALLEYS, ETC., SUBJECT TO TRUCK TRAFFIC.
[NEC ARTICLE 230.24(B)]
3. **RISER MORE THAN 5' ABOVE ROOF MUST BE GUYED.** [NEC ARTICLE 230.28 & TECO REQUIREMENT]
4. **GALVANIZED CONDUIT MUST BE USED THRU ROOF.** [NEC ARTICLES 230.28 & (344.10)(1)]
5. **SERVICE RISER SHALL BE OF ADEQUATE STRENGTH OR BE SUPPORTED BY BRACES OR GUYS TO SAFELY WITHSTAND THE STRAIN IMPOSED.**
[NEC ARTICLE 230.28]
6. **BONDING BUSHING MUST BE USED ON METAL NIPPLES AND CONDUITS IF THE LARGEST CONCENTRIC OR ECCENTRIC KNOCKOUT HAS NOT BEEN USED.**
[NEC ARTICLES 250.90, 250.92, 250.94 & 250.96]
7. **CONDUIT TERMINATION MUST PROTECT WIRES.** [NEC ARTICLES 300-4, (G) & 300.5(H)]
8. **PROTECTION FROM DAMAGE MUST BE PROVIDED WHEN PVC, SEALTIGHT, ENT, OR SEU CABLES ARE USED FOR SERVICE ENTRANCE CONDUCTORS.**
[ARTICLES 230.50 (A), (B) & 300.5(D)]
9. **FITTINGS INSTALLED IN WET LOCATIONS SUCH AS OUTSIDE PANELS AND METERS MUST BE LISTED FOR USE IN WET LOCATIONS** [NEC ARTICLE 314.15]
10. **SERVICE DISCONNECTING MEANS SHALL BE IN A READILY ACCESSIBLE LOCATION EITHER OUTSIDE OR INSIDE THE BUILDING OR NEAREST THE POINT OF ENTRANCE OF THE SERVICE CONDUCTORS.** [ARTICLE 230.70, (A)]
11. **METER AND MAIN DISCONNECTS MUST BE GROUPED IN ONE LOCATION.**
[NEC ARTICLES 225.34, 230.71 & 230.72] EXCEPTION: TOWNHOUSES AND WHERE USED FOR FIRE PROTECTION WATER PUMP.

12. SERVICE PANELS MAY NOT BE LOCATED IN BATHROOMS, CLOSETS OR OVER STAIRWAYS. [NEC ARTICLES 240.24, (E) & (F)]
13. OUTBUILDINGS OR GARAGES FED FROM THE HOUSE PANEL MUST HAVE A GROUNDING ELECTRODE SYSTEM IF SUPPLIED BY MORE THAN ONE BRANCH CIRCUIT. THIS PANEL MAY HAVE NO MORE THAN SIX BREAKERS WITHOUT HAVING A SINGLE MAIN DISCONNECT. [NEC ARTICLES 250.32, (A) & 225.33,]
14. **ELECTRICAL SERVICE FEEDER SIZE. NOTE: TABLE 310.15(B)(7) HAS BEEN REMOVED FROM THE 2014 NEC AND REPLACED WITH ARTICLE 310.15(B)(1) WHICH SETS CONDITIONS FOR USING TABLES 310.15(B)(16) AND (17) TO PROPERLY SIZE SERVICE FEEDERS. THE CONDITIONS, IN PART, REQUIRE THAT SERVICE CONDUCTORS SHALL HAVE AN AMPACITY NOT LESS THE 83 PERCENT OF THE SERVICE RATING. THE BOTTOM LINE IS THE OLD CONDUCTOR TYPES AND SIZING TABLE FOUND IN 2011 NEC TABLE 310.15(B)(7) STILL APPLIES. THESE INCLUDE:**
 - 200 AMP - 2/0 COPPER OR 4/0 ALUMINUM
 - 150 AMP - #1 COPPER OR 2/0 ALUMINUM
 - 100 AMP - #4 COPPER OR #2 ALUMINUM

NOTE: NEUTRALS (GROUNDED CONDUCTORS) ARE PERMITTED TO BE SIZED SMALLER THAN UNGROUNDED SERVICE CONDUCTORS PER 220.61 AND 230.42. FOR FEEDER CONDUCTORS SEE 215.2 AND 220.61. GENERALLY THEY MAY BE REDUCED BY 2 WIRE SIZES.
15. GROUNDING CONDUCTOR SHALL BE SIZED BE PER NEC TABLE 250.66.
 - 200 AMP - #4 COPPER
 - 150 AMP OR LESS - #6 COPPER
16. GROUNDING ELECTRODE SYSTEM. ALL GROUNDING ELECTRODES DESCRIBED IN 250.52 (A)(1) THROUGH (A)(7) THAT ARE PRESENT MUST BE BONDED TOGETHER. REQUIRED ELECTRODES TYPICALLY WILL INCLUDE CONCRETE ENCASED ELECTRODES (UFER GROUND) AND GROUND RODS OR PIPE ELECTRODES AS DESCRIBED IN 250.52 (3) AND (5). [NEC ARTICLE 250.52]
17. GROUNDING ELECTRODES SHALL BE SPACED NO LESS THAN 6 FEET APART WHEN A UFER GROUND IS USED ONLY ONE GROUND ROD IS REQUIRED. [NEC ARTICLE 250.53(B)]
18. BONDING TERMINATION FOR COMMUNICATIONS, RADIO, TV AND NPBCS SHALL BE IN PROPER TERMINAL BLOCK AT SERVICE. [NEC ARTICLES 800.100(B) & 250.94]
19. ANTI-OXIDE MUST BE USED ON ALL ALUMINUM CONNECTIONS. (MANUFACTURER'S RECOMMENDATION)
20. CONDUCTORS EXPOSED TO SUNLIGHT SHALL BE LISTED SUNLIGHT RESISTANT. [NEC ARTICLE 310.10, (D)]
21. FOR RACEWAYS OR CONDUITS SEE NEC ARTICLE 300 AND TABLE 300.5.
22. RETURN PLANS TO ORIGINAL LOCATION. SIGN AND DATE PERMIT CARD. LEAVE REJECT IF NECESSARY OR COURTESY NOTE IF YOU NEED TO CONVEY A MESSAGE.

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SECTION -11-

ELECTRICAL FINAL

GENERAL

1. ALL FIXTURES MUST BE LISTED AND SUITABLE FOR LOCATION USED.
[NEC ARTICLES 410.6 & 410.10]
2. INCANDESCENT CLOSET FIXTURES MUST BE GLOBE TYPE AND INSTALLED 12” HORIZONTALLY FROM THE EDGE OF SHELF. [NEC ARTICLE 410-16) (A), (B), (C)].
3. CONDUCTIVE PARTS MUST BE GROUNDED. [ARTICLES 410.40, 410.42 & 410.44]
4. EACH HABITABLE ROOM MUST HAVE A SWITCHED LIGHT OR RECEPTACLE CONTROLLED BY A SWITCH. [NEC ARTICLE 210.70), (A), (1)]
5. OUTDOOR ENTRANCES MUST HAVE AT LEAST ONE WALL CONTROLLED SWITCH. A VEHICLES DOOR IN A GARAGE SHALL NOT BE CONSIDERED AN OUTDOOR ENTRANCE. [ARTICLE 210-70 , (2), (B)]
6. BELL TRANSFORMERS MUST BE READILY ACCESSIBLE AND NOT INSTALLED INSIDE ELECTRICAL PANELS OR IN ATTICS. [NEC ARTICLE 450.13, (B)]
7. ALL 120 V, 15-20 AMP RECEPTACLES SHALL BE LISTED TAMPER RESISTANT EXCEPT RECEPTACLES LOCATED MORE THAN 5 ½ FEET ABOVE THE FLOOR AND THOSE FOR DEDICATED APPLIANCES THAT ARE NOT EASILY MOVED. [NEC ARTICLE 406.12]
8. ALL 120 VOLT 15-20 AMP BRANCH CIRCUITS IN KITCHENS, BEDROOMS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, RECREATION ROOMS, LIBRARIES, DENS, PARLORS, SUNROOMS, HALLWAYS, CLOSETS, LAUNDRY AREAS AND SIMILAR ROOMS OR AREAS SHALL BE AFCI (ARC FAULT) PROTECTED. [NEC ARTICLE 210.12, (A), (B)]
9. IN WET LOCATIONS A TOTALLY ENCLOSED WEATHERPROOF OUTLET COVER, WHICH REMAINS WEATHERPROOF WITH THE CORD ATTACHED, MUST BE USED ON ALL 15-20 AMP / 120-250 VOLT RECEPTACLES. [NEC ARTICLE 406.9, (B)]
10. IN DAMP LOCATIONS ALL 15-20 AMP / 120 250 VOLT RECEPTACLES LOCATIONS MUST BE PROTECTED FROM THE WEATHER AND HAVE AN ENCLOSURE THAT IS WEATHERPROOF WHEN THE RECEPTACLE IS COVERED OR CLOSED. AN INSTALLATION THAT IS SUITABLE FOR A WET LOCATION IS ALSO SUITABLE FOR DAMO LOCATIONS. DAMP LOCATIONS ARE NOT SUBJECT TO BEATING RAIN OR WATER RUNOFF. [NEC ARTICLE 406.9]

11. ALL 15 AND 20 AMP 125 AND 250 VOLT NON LOCKING RECEPTACLES INSTALLED IN WET OR DAMP LOCATIONS SHALL BE LISTED “WEATHER-RESISTANT TYPE”. [NEC ARTICLE 406.9 (A), (1)]
12. SMOKE ALARMS (“DETECTORS”), LISTED IN ACCORDANCE WITH UL 217, SHALL BE INSTALLED IN EACH SLEEPING ROOM, IN THE IMMEDIATE VICINITY OUTSIDE EACH SLEEPING ROOM AND AT LEAST 3 FEET HORIZONTALLY FROM THE BATHROOM DOOR OR OPENING UNLESS THIS WOULD PREVENT THE PLACEMENT OF THE ALARM. [FRC- R314.3]
13. SMOKE DETECTORS SHALL ONLY BE INSTALLED NEAR PERMANENTLY INSTALLED COOKING APPLIANCES UNDER THE FOLLOWING CONDITIONS UNLESS THIS WOULD PREVENT PLACEMENT OF A SMOKE ALARM AS REQUIRED BY FRC R314.3:
 1. IONIZATION SMOKE ALARMS SHALL NOT BE INSTALLED LESS THAN 20 FEET HORIZONTALLY FROM COOKING APPLIANCES.
 2. IONIZATION SMOKE ALARMS WITH AN ALARM SILENCING SWITCH SHALL NOT BE INSTALLED LESS THAN 10 FEET FROM COOKING APPLIANCES.
 3. PHOTOELECTRIC SMOKE ALARMS SHALL NOT BE INSTALLED LESS THAN 6 FEET FROM COOKING APPLIANCES. [FRC - R314.3.1].
14. WHERE MORE THAN ONE SMOKE ALARM IS REQUIRED THE ALARM DEVICES SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL ALARMS. *EXCEPTION:* INTERCONNECTION OF ALARMS SHALL NOT BE REQUIRED WHERE ALTERATIONS OR REPAIRS DO NOT RESULT IN THE REMOVAL OF INTERIOR WALL OF CEILING FINISHES. [FRC- R314.4]
15. CARBON MONOXIDE ALARMS (“DETECTORS”) ARE REQUIRED IN EVERY BUILDING OR ADDITION TO AN EXISTING BUILDING HAVING A FOSSIL-FUEL-BURNING DEVICE, FIREPLACE ATTACHED GARAGE OR OTHER DEVICE THAT EMITS CARBON DIOXIDE. THESE ALARMS SHALL BE INSTALLED WITHIN 10 FEET OF EACH ROOM USED FOR SLEEPING. *EXCEPTION:* THIS SECTION DOES NOT APPLY TO EXISTING BUILDINGS UNDERGOING ALTERATIONS OR REPAIRS UNLESS THIS WORK INCLUDES AN ADDITION OR INCREASE IN FLOOR AREA. [FRC- R315]
16. COMBINATION SMOKE AND CARBON MONOXIDE ALARMS SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY. [FRC R315.2]

ENCLOSURES

1. PANELS MUST BE LABELED WITH ELECTRICIAN’S NAME AND ADDRESS. ALL CIRCUITS SHALL BE LEGIBLY IDENTIFIED TO INDICATE ITS PURPOSE. SPARE POSITIONS THAT CONTAIN UNUSED OVERCURRENT DEVICES SHALL BE IDENTIFIED ACCORDINGLY. THE IDENTIFICATION MARKING SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND ENVIRONMENTAL CONDITIONS. [NEC ARTICLES 110.22 (A) & 408.4 (A) & AHJ]
2. OPEN KNOCKOUTS MUST BE SEALED. [NEC ARTICLES 312.5 (A) & 110.12 (A)]

3. **ALL COVERS AND PLATES MUST BE INSTALLED. [NEC ARTICLE 404.9]**
4. **ALL SWITCHES AND RECEPTACLES MUST BE GROUNDED. [NEC ARTICLE 406.4 (A) THROUGH (F)]**
5. **IF METAL CONDUIT IS USED TO PROTECT SERVICE ENTRANCE CONDUCTORS, A BONDING BUSHING MUST BE USED IF THE LARGEST CONCENTRIC OR ECCENTRIC KNOCKOUT HAS NOT BEEN PUNCHED OUT. [ARTICLE 250.92 (B)]**
6. **RETURN PLANS TO ORIGINAL LOCATION, SIGN AND DATE PERMIT CARD, OR LEAVE CORRECTION NOTICE WITH ITEMS LISTED**

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SECTION -12-

TEMPORARY POLES

1. TEMPORARY POLES ARE ONLY REQUIRED TO HAVE ONE GROUND ROD PROVIDED GROUND FAULT PROTECTION IS PROVIDED FOR PERSONNEL PROTECTION. [NEC – ARTICLE 590.6]
2. WEATHER TIGHT FITTINGS MUST BE USED ON METER, PANEL AND IN ALL WET LOCATIONS. [NEC (312.2) & (314.15)]
3. SERVICE RISER SHALL BE OF ADEQUATE STRENGTH OR BE SUPPORTED BY BRACES OR GUYS TO WITHSTAND SAFELY THE STRAIN IMPOSED. (MINIMUM OF 2 SECURE STRAPS ON RISER. AHJ) [NEC ARTICLE 230.28, ARTICLE 300.11, 300.19].
4. A BUSHING OR FITTING WITH AN INTEGRAL BUSHING IS REQUIRED AT END OF THE CONDUIT THAT TERMINATES UNDERGROUND TO PROTECT THE WIRES. [NEC ARTICLE (300.5) (H)]

ENCLOSURES

1. EQUIPMENT MUST BE U.L. APPROVED FOR USE AND LOCATION. [NEC (110.3) (B)]
2. ALL OPENINGS MUST BE SEALED. [NEC (110.12)(A), (312.5)(A), (314.17)(A), (408.38)]
3. ENCLOSURERS MUST HAVE EXTERIOR WEATHERPROOF COVERS AND INTERIOR DEADFRONT COVERS. [NEC ARTICLES 312.2 & 408.38]

CONDUCTORS

1. SERVICE DRIP LOOPS SHALL BE FORMED ON INDIVIDUAL CONDUCTORS BELOW THE LEVEL OF THE MAST HEAD OR BELOW THE LEVEL OF THE TERMINATION OF THE LEVEL OF THE SERVICE-ENTRANCE CABLE TO PREVENT THE ENTRANCE OF MOISTURE. [NEC ARTICLE (230.54) (F) & POWER COMPANY REQUIREMENT]
2. NEUTRALS MUST BE MARKED WITH WHITE IN METER CAN, PANEL AND AT WEATHERHEAD. [NEC ARTICLE 200.6]
3. CUTTING STRANDS AT TERMINATION IS PROHIBITED AS IT WILL HAVE THE EFFECT OF REDUCING THE REQUIRED DIAMETER OF THE CONDUCTOR. [NEC ARTICLES 110.14 AND NEC 310.15]
4. TYPE USE CONDUCTORS MUST BE USED ON UNDERGROUND POLES FOR DIRECT BURIAL TO TRANSFORMER OR HANDHOLE ENCLOSURES. [NEC ARTICLE 110.3 (B) & (310.10) (F) AND NEC 338.]

GROUNDING

1. **GROUNDING ELECTRODE CONDUCTOR SHALL BE SIZED PER TABLE 250.66. MINIMUM #8 COPPER TO GROUND ROD (UP TO 125 AMPS). [NEC ARTICLES 250-66 & TABLE 250.66]**
2. **GROUNDING CONDUCTOR MUST BE CONTINUOUS TO GROUND ROD. THERE ARE FOUR EXCEPTIONS. IRREVERSIBLE COMPRESSION CONNECTORS, USE OF A BUSS BAR, ATTACHMENT TO METAL BUILDING FRAMES AND FLANGE CONNECTIONS TO METAL WATER PIPING. [NEC ARTICLE 250.64(C)]**
3. **AN APPROVED GROUND CLAMP MUST BE USED. [NEC ARTICLE 250-70 (2)]**
4. **GROUNDING ELECTRODES, ROD OR PIPE, SHALL BE NOT LESS THAN 8 FEET IN LENGTH. WHEN MADE OF PIPE OR CONDUIT THEY SHALL NOT BE SMALLER THAN 3/4 INCH IN DIAMETER AND. WHEN MADE OF STEEL THEY SHALL HAVE THE OUTER SURFACE GALVANIZED OR METAL COATED FOR CORROSION PROTECTION. ROD-TYPE GROUNDING ELECTRODES (GROUND RODS) OF STAINLESS STEEL, COPPER OR ZINC COATED STEEL SHALL BE AT LEAST 5/8 INCH IN DIAMETER. [NEC ARTICLE 250.52 AND 250-52)(A)(5)]**

CONNECTIONS

1. **ALL EQUIPMENT MUST BE LISTED AND LABELED AND INSTALLED ACCORDING TO ITS INTENDED USE. [NEC ARTICLE 110.3 (B)]**
2. **MAXIMUM OF 1 WIRE UNDER EACH LUG IN PANEL OR METER UNLESS LUG IS IDENTIFIED FOR MORE THAN ONE CONDUCTOR. [NEC ARTICLE 110.14 (A)]**

RECEPTACLES

1. **ALL 125 VOLT SINGLE PHASE 15, 20 AND 30 AMP RECEPTACLE OUTLETS THAT ARE IN USE BY PERSONNEL SHALL HAVE GROUND FAULT PROTECTION. [NEC ARTICLE 590.6 A & B]**
2. **A TOTALLY ENCLOSED WEATHERPROOF OUTLET COVER WHICH REMAINS WEATHERPROOF WITH THE CORD ATTACHED MUST BE USED ON ALL 15-20 AMP / 120-250 VOLT RECEPTACLES INSTALLED IN WET LOCATIONS. [NEC ARTICLE 406.9 (B)]**
3. **ALL 15-20 AMP / 120-250 VOLT NON-LOCKING RECEPTACLES INSTALLED IN DAMP OR WET LOCATIONS MUST BE LISTED WEATHER RESISTANT TYPE. [NEC (406.9) (A) & (B)]**
4. **RETURN PLANS TO ORIGINAL LOCATION, SIGN AND DATE PERMIT CARD, OR LEAVE CORRECTION NOTICE WITH ITEMS LISTED.**

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SECTION -13-

FRAMING

1. **CHECK PERMIT CARD AND REVIEW PLANS FOR NOTES, DETAILS, NAILING AND STRAPPING SCHEDULES.**
2. **CHECK FOR IMPROPER CUTTING, BORING OR NOTCHING OF FLOOR JOISTS. (FRC - R502.8, R502.8.1, FIGURE R502.8.)**

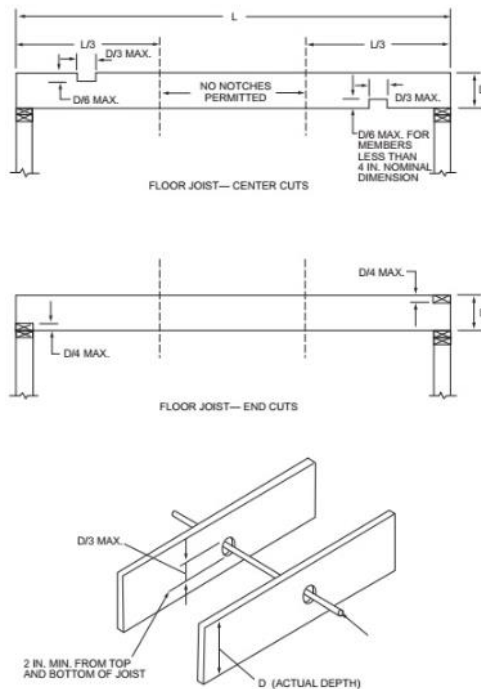


FIGURE R502.8
CUTTING, NOTCHING AND DRILLING

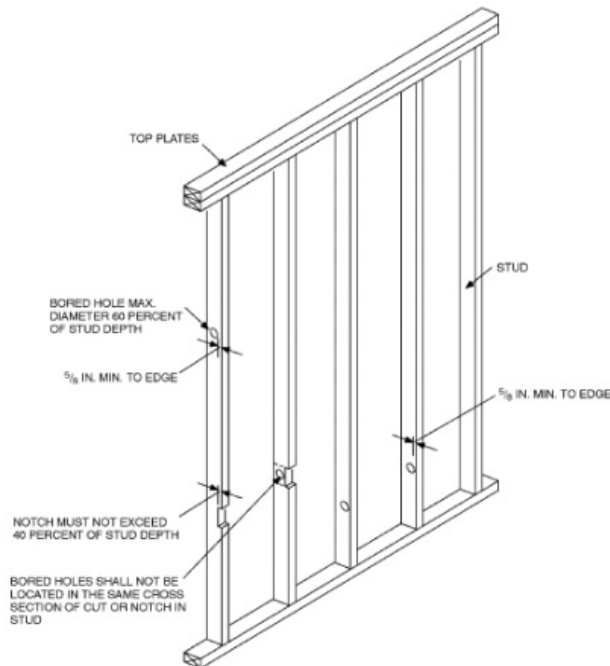
NOTE:

NEVER NOTCH IN THE MIDDLE 1/3RD OF SPAN. NOTCHES CANNOT EXCEED 1/6TH THE DEPTH. BORED HOLES CANNOT BE WITHIN 2" OF TOP OR BOTTOM OF JOIST NOR LARGER THAN 1/3RD THE DEPTH.

3. **CHECK TRUSS INSTALLATION FOR CONFORMANCE WITH APPROVED ENGINEERING INCLUDING: ENGINEERING OR BRACING, STRAPPING OR TIE DOWNS, GIRDER TRUSS NAILING, SUPPORT AT DESIGNED BEARING POINTS, NAIL PLATES OR IMPERVIOUS BARRIER BETWEEN WOOD AND MASONRY, DAMAGED OR ALTERED TRUSSES, VALLEY SET AND SPACING. (FRC - R317.1(6), R802.10)**

4. CONFIRM GABLE ENDS ARE INSTALLED PER PLAN. CHECK FOR “X” BRACING, GABLE END BRACING (STRONG BACKS), STRAPPING OR TIE DOWNS AND NAILING PER SCHEDULE. (FRC - R802.10.1 & R802.10.3)
5. CHECK ATTIC ACCESS FOR PROPER SIZE AND LOCATION. THE ROUGH FRAMED OPENING SHALL NOT BE LESS THAN 22” X 30 INCHES AND SHALL BE LOCATED IN A HALLWAY OR READILY ACCESSIBLE LOCATION WITH A MINIMUM HEADROOM OF 30 INCHES. (FRC- R807.1)
6. CHECK FOR IMPROPER CUTTING, NOTCHING AND BORING OF WALL STUDS. **NOTCHING.** STUDS IN EXTERIOR WALLS OR BEARING PARTITIONS SHALL BE PERMITTED TO BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25% OF ITS WIDTH. STUDS IN NONBEARING PARTITIONS SHALL BE PERMITTED TO BE NOTCHED TO A DEPTH NOT TO EXCEED 40% OF THE STUD. **BORING.** STUDS SHALL BE PERMITTED TO BE BORED OR DRILLED NOT MORE THAN 60% OF THE STUD WIDTH. THE EDGE OF THE CANNOT BE CLOSER THAN 5/8 OF AN INCH FROM THE EDGE OF THE STUD. STUDS DRILLED IN EXTERIOR OR BEARING WALLS OVER 40% SHALL BE DOUBLED WITH NOT MORE THAN TWO ADJACENT STUDS BORED.

FIGURE R602.6(1)
NOTCHING AND BORED HOLE LIMITATIONS FOR EXTERIOR WALLS AND BEARING WALLS



7. STRUCTURAL SHEATHING. CONFIRM CORRECT THICKNESS, TYPE, GRADE AND ATTACHMENTS. CHECK FOR AGENCY APPROVAL STAMP. (FLOORS, FRC - R503.2.1, WALL SHEATHING FRC - R703)
8. FIRE RATED SHEATHING. CHECK PLANS TO SEE IF AND WHERE IT IS REQUIRED. FIRE RATED, FIRE RETARDANT-TREATED LUMBER AND WOOD STRUCTURAL PANELS SHALL BE LABELED. (FRC - R803.2.1 & R803.2.1.2)

9. **WOOD FRAMED CHIMNEYS. CHECK PLANS AND CONSTRUCTION FOR HEIGHT, FASTENINGS, FIRE STOPPING, CRICKETS (> 30" WIDE), AND BRACING. CHECK FOR FIREPLACE CLEARANCES FROM COMBUSTIBLES. (R302.11, R903.2.2, R1001.11, R1003.19, R1003.20 OR PROFESSIONAL SEALED PLANS.)**
10. **CHECK WOODEN HEADERS FOR PROPER SUPPORT, SIZE AND ANCHORAGE. (FRC - R301.1 & R301.1.1)**
11. **CHECK FOR UNTREATED WOOD ON CONCRETE OR MASONRY. (FRC - R317.1(6))**
12. **TOP PLATES. A DOUBLE TOP PLATE IS REQUIRED IN INTERIOR AND EXTERIOR BEARING WALLS. END JOINTS IN TOP PLATES MUST BE OFFSET 24 INCHES MINIMUM. (FRC - R602.3, R602.3.2 & R602.4)**
13. **CHECK EXTERIOR BEARING WALLS FOR BOLTING, SHEARWALL LOCATION, STUD SPACING, PROPER DOOR AND WINDOW FRAMING. (FRC - R602.3 OR PER SEALED DESIGN PLANS. (R301.1.3))**
NOTE: METAL STUDS IN BEARING WALLS REQUIRE ENGINEERING. FRC - R603.
14. **CHECK FRAMING FOR BLOCKING AND MAXIMUM STUD LENGTH ACCORDING TO SIZE. CHECK FOR PROPER FIREBLOCKING AND DRAFTSTOPPING. (FRC - R302.11, R302.12 & R602.3.1) OR PER SEALED DESIGN PLANS. (R301.1.3))**
15. **CHECK FOR CONTINUOUS LOAD PATH FASTENING FROM THE SILL PLATE THROUGH AND INCLUDING THE ROOF FRAMING. (R602.3.5 & R602.4) OR PER SEALED DESIGN PLANS. (R301.1.3)**
16. **CHECK FOR PROPER HURRICANE STRAPS, HANGERS, CLIPS AND BOLTS AS SHOWN OR SPECIFIED ON APPROVED PLANS. (FRC - R301.1)**
17. **CONVENTIONAL ROOF FRAMING SHALL MEET THE REQUIREMENTS FOR WOOD CONSTRUCTION. ENGINEERING REQUIRED (REFER TO PLANS)**
18. **CHECK FOR PROPER ATTIC VENTILATION. (FRC - R806.1)**
19. **CHECK THE ACCESSIBLE BATHROOM DOOR FOR MINIMUM CLEAR OPENING WIDTH OF 29 INCHES. (FRC - R320.1.1)**
20. **EMERGENCY ESCAPE AND RESCUE OPENINGS ARE REQUIRED FOR SLEEPING ROOMS, HABITABLE ATTICS AND BASEMENTS. CHECK ALL DIMENSIONS. WINDOW SILL HEIGHT MAXIMUM IS 44 INCHES. MINIMUM OPENING AREA IS 5 SQUARE FEET AT GRADE AND 5.7 ABOVE GRADE. THE NET CLEAR HEIGHT MUST BE AT LEAST 24 INCHES AND THE NET CLEAR WIDTH 20 INCHES. (FRC - R310.1, R310.2.1 & R310.2.2)**
21. **CHECK OPERABLE WINDOWS LOCATED MORE THAN 72" ABOVE FINISHED GRADE OR SURFACE BELOW. LOWEST PART OF CLEAR OPENING SHALL BE A MINIMUM OF 24" ABOVE THE FLOOR OR GUARDS SHALL BE INSTALLED. GUARDS SHALL NOT HAVE OPENINGS THAT ALLOW PASSAGE OF A 4 INCH DIAMETER SPHERE. (FRC - R312.2)**
22. **DOORS AND WINDOWS SHALL BE INSTALLED AND PROPERLY FASTENED WITH FULL WIDTH FURRING STRIPS AND FASTENED AS REQUIRED BY MANUFACTURER OR PRODUCT APPROVAL DOCUMENTATION. (FRC - R609)**

23. CHECK WINDOWS FOR LABELS IDENTIFYING PERFORMANCE CHARACTERISTICS AND INDEPENDENT LABORATORY APPROVAL. (FRC - R609.3)
24. CHECK SKYLIGHTS FOR COMPLIANCE LABEL. (FRC - R308.6.9)
25. CHECK FOR GARAGE DOOR BUCK BOLTING OR FASTENING OF JAMBS AS SPECIFIED ON PLANS OR PRODUCT APPROVAL DOCUMENTATION. (R609.4)
26. CHECK CRAWL SPACE FOR CLEARANCES ABOVE GRADE. GIRDERS MUST BE 12" AND JOISTS MUST BE 18" ABOVE GRADE. IF LESS, THEY SHALL BE NATURALLY DURABLE OR PRESERVATIVE TREATED. (FRC - R317.1)
27. CHECK FOR ADEQUATE VENTING OF CRAWL SPACE. ACCESS OPENING MINIMUM SIZE NOT LESS THAN 18" X 24". (FRC - R408.1, R408.4)
28. IF FLOOR TRUSSES ARE USED, REVIEW ENGINEERING PROVIDED FOR BRACING, BORING, BLOCKING, LAPPING, NOTCHING AND SPACING. (FRC - R502.11 & R502.6.1)
29. CHECK FLOOR TRUSSES FOR PROPER FIREBLOCKING AND DRAFTSTOPPING IN COMBUSTIBLE CONSTRUCTION. (FRC - R302.11, R302.11.1 - R302.11.2, R302.12 - R302.12.1)
30. CHECK MINIMUM BEARING OF JOIST, BEAM OR GIRDER. ON MASONRY ENDS SHALL HAVE NOT LESS THAN 3" OF BEARING. ON WOOD OR METAL THE MINIMUM BEAR SHALL BE NOT LESS THAN 1 ½ INCHES. (FRC - R502.6 & R301.2.1.1)
31. OPENINGS IN FLOOR FRAMING SHALL BE FRAMED WITH HEADER AND TRIMMER JOISTS. WHERE HEADER SPAN DOES NOT EXCEED 4 FEET THE HEADER JOIST SHALL BE A SINGLE MEMBER THE SAME SIZE AS THE FLOOR JOIST. WHERE THE HEADER JOIST EXCEEDS 4 FEET THE TRIMMER AND HEADER JOIST SHALL BE DOUBLED. (FRC - R502.10)
32. CHECK STAIR FRAMING DIMENSIONS FOR CODE COMPLIANCE. **(REMEMBER THE 24 TO 25 INCH RULE LIMITING THE SUM OF TWO RISER AND ONE TREAD HAS BEEN REMOVED SINCE THE 2010 CODE CYCLE.)** (R311 & R311.7)
33. CHECK BOLT SPACING OF LEDGERS (RIBBON STRIPS) AS SPECIFIED ON PLANS.
34. RETURN PLANS TO ORIGINAL LOCATION. SIGN AND DATE PERMIT CARD OR LEAVE CORRECTION NOTICE WITH ITEMS LISTED.

NOTE:

EXTERIOR SURFACES MUST NOT BE COVERED WITH STUCCO, LATH, FELT, SIDING, ETC. UNTIL A STRUCTURAL INSPECTION HAS BEEN APPROVED. ALL CELL POURS, STRAPS, ANCHORS, AND FASTENERS MUST BE APPROVED PRIOR TO THE APPLICATION OF THE FINISH SURFACES.

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POLK COUNTY BUILDING DIVISION RESIDENTIAL INSPECTION CHECKLIST

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SECTION -14-

INSULATION

GENERAL INFORMATION

- 1. REFER TO FBC ENERGY CONSERVATION CODE (FEC), 6TH EDITION, CHAPTER 4, RESIDENTIAL ENERGY EFFICIENCY.**
- 2. CHECK ENERGY CALCULATION DOCUMENTS FOR R-VALUES OF WALLS AND CEILINGS, LOCATION OF AIR HANDLER AND TYPES OF WINDOWS.**
- 3. LOOK FOR GAPS AND MISSED AREAS AROUND DOORS AND WINDOWS.
(FEC - RES-R402.4 & TABLE R402.4.1.1)**
- 4. CHECK STUD WALLS AT TOP AND BOTTOM PLATES TO CONFIRM AIR GAPS HAVE BEEN SEALED. (FEC - RE-R402.4 & TABLE RE-R402.4.1.1)**
- 5. CONFIRM HOLES AND AIR GAPS IN EXTERIOR WALLS HAVE BEEN SEALED.
(FEC - RES-R402.4 & TABLE R402.4.1.1)**
- 6. CHECK EAVE OR SOFFIT AREAS FOR BAFFLES PRIOR TO INSTALLATION OF BLOWN IN INSULATION. NOTE: BAFFLES SHALL BE PERMITTED TO BE OF ANY SOLID MATERIAL. (FEC- R402.2.3)**
- 7. THE THICKNESS OF BLOWN OR SPRAYED ROOF / CEILING INSULATION (FIBERGLASS OR CELLULOSE) SHALL BE WRITTEN IN INCHES ON MARKERS THAT ARE INSTALLED AT LEAST ONE EVERY 300 SQUARE FEET.
(FEC - R303.1.1.2.1)**
- 8. THE INSULATION INSTALLER SHALL PROVIDE A CERTIFICATE LISTING THE TYPE, MANUFACTURER AND R-VALUE FOR BLOWN OR SPRAYED INSULATION. THE INSULATION INSTALLER SHALL SIGN, DATE AND POST THE CERTIFICATE IN A CONSPICUOUS LOCATION ON THE JOB SITE. (FEC - RES-R303.1.1.2)**
- 9. RETURN PLANS TO ORIGINAL LOCATION, SIGN AND DATE PERMIT CARD, OR LEAVE CORRECTION NOTICE WITH ITEMS LISTED**

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SECTION -15-

BUILDING FINAL

1. CHECK PERMIT CARD, REVIEW PLANS, ENERGY FORMS AND APPROVAL OF CONSTRUCTION DOCUMENTS. (FLORIDA BUILDING CODE, BUILDING SECTION 107 & FBC-ENERGY CONSERVATION, 6TH EDITION, 2017)
2. CONFIRM ALL PREVIOUS REQUIRED INSPECTIONS HAVE BEEN PASSED OR APPROVED. CHAPTER 1, FLORIDA, (FRC - R101.2.1, FBC - SECTION 110, INSPECTIONS [A] 110.3)
3. **HOUSE NUMBERS MUST BE AT LEAST 4 INCHES IN HEIGHT AND LETTERS MUST BE AT LEAST ½ INCH IN WIDTH. NUMBERS MUST BE VISIBLE FROM THE STREET, ROAD FRONTING THE PROPERTY, DRIVEWAY ENTRANCE OR MAILBOX. (LDC 830-G & FRC - R319.1)**
4. **A NOTICE MUST BE POSTED ON THE ELECTRIC PANEL INDICATING THAT AIR HANDLER IS IN ATTIC (IF APPLICABLE). (FBC – ENERGY CONSERVATION, 6TH EDITION (2017), R403.3.6[4])**
5. **INSULATION CERTIFICATE MUST BE SIGNED AND POSTED IN A CONSPICUOUS LOCATION ON THE JOB SITE. (FEC - RES-R303.1.1.2)**
6. CHECK SEER RATING ON AIR CONDITIONING UNIT. (ENERGY CALCS.)
7. UNTREATED WOOD SIDING IS NOT PERMITTED TO BE WITH-IN 6” OF GRADE OR LESS THAN 2 INCHES MEASURED VERTICALLY FROM CONCRETE. (FRC - R317.1 (5))
8. DRAINAGE. LOTS SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM THE FOUNDATION. GRADE MUST SLOPE AWAY FROM THE FOUNDATION 6 INCHES WITHIN THE FIRST 10 FEET. EXCEPTION: WHERE PHYSICAL BARRIERS OR LOT LINES PREVENT THIS SLPPE DRAINS OR SWALES SHALL BE CONSTRUCTED. (FRC - R401.3)
9. TERMITE PROTECTION IF SOIL TREATMENT IS USED. UPON COMPLETION OF THE APPLICATION OF THE TERMITE PROTECTIVE TREATMENT, A CERTIFICATE OF COMPLIANCE SHALL BE ISSUED TO THE BUILDING DEPARTMENT BY THE LICENSED PEST CONTROL COMPANY THAT CONTAINS THE FOLLOWING STATEMENT: **“THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS ESTABLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.”** (FRC – R318.1)
10. BAIT SYSTEM TREATMENT MUST COMPLY WITH FRC - R318.1.7.
11. REGISTERED WOOD TREATMENT SUCH AS BORA-CARE MUST COMPLY WITH FRC - R318.1.8.

12. **CONCRETE AND MASONRY FOUNDATION WALLS SHALL EXTEND ABOVE THE FINISHED GRADE A MINIMUM OF 4 INCHES WHERE MASONRY VENEER IS USED AND 6 INCHES ELSEWHERE. (FRC - R404.1.6)**
13. **GRADING, IRRIGATION AND LANDSCAPING MUST BE COMPLETE PRIOR TO FINAL TERMITE TREATMENT. ANY SOIL DISTURBED AFTER TREATMENT MUST BE RETREATED. (FRC -R318.1.6)**
14. **CONDENSATE LINES AND GUTTER DOWNSPOUTS SHALL DISCHARGE AT LEAST 1 FOOT AWAY FROM THE STRUCTURE SIDEWALLS. GUTTERS WITH DOWNSPOUTS ARE REQUIRED ON EAVES OF LESS THAN 6" PROJECTION. (FRC - R318.6)**
15. **STAIRS, LANDINGS, HANDRAILS, GUARDS, ETC. MUST COMPLY WITH MINIMUM CODE REQUIREMENTS FOUND IN FRC - R311.7 THROUGH R311.7.10.2.**
16. **SMOKE ALARMS (DETECTORS), LISTED IN ACCORDANCE WITH UL 217, SHALL BE INSTALLED IN EACH SLEEPING ROOM, OUTSIDE EACH SLEEPING ROOM IN THE IMMEDIATE VICINITY AND AT LEAST 3 FEET HORIZONTALLY FROM THE BATHROOM DOOR OR OPENING UNLESS THIS WOULD PREVENT THE PLACEMENT OF THE ALARM. [FRC- R314.3, NFPA 72]**
17. **SMOKE DETECTORS SHALL ONLY BE INSTALLED NEAR PERMANENTLY INSTALLED COOKING APPLIANCES UNDER THE FOLLOWING CONDITIONS UNLESS THIS WOULD PREVENT PLACEMENT OF A SMOKE ALARM AS REQUIRED BY FRC R314.3:**
 1. **IONIZATION SMOKE ALARMS SHALL NOT BE INSTALLED LESS THAN 20 FEET HORIZONTALLY FROM COOKING APPLIANCES.**
 2. **IONIZATION SMOKE ALARMS WITH AN ALARM SILENCING SWITCH SHALL NOT BE INSTALLED LESS THAN 10 FEET FROM COOKING APPLIANCES.**
 3. **PHOTOELECTRIC SMOKE ALARMS SHALL NOT BE INSTALLED LESS THAN 6 FEET FROM COOKING APPLIANCES. [FRC R314.3.1 NFPA 72]**
18. **CONFIRM CRAWL SPACE VENTS AND ACCESS PROPERLY SIZED AND SCREENED. (FRC - R408.1, R408.2, R408.3 & R408.4)**
19. **CONFIRM ADEQUATE ATTIC VENTILATION. (FRC - R806.2 & R806.3)**
20. **CONFIRM ACCESSIBLE BATHROOM DOOR WIDTH IS 29 CLEAR INCHES. (FRC - R320.1.1)**
21. **EMERGENCY ESCAPE AND RESCUE OPENINGS ARE REQUIRED FOR SLEEPING ROOMS, HABITABLE ATTICS AND BASEMENTS. CONFIRM ALL DIMENSIONS. WINDOW SILL HEIGHT MAXIMUM IS 44 INCHES. MINIMUM OPENING AREA IS 5 SQUARE FEET AT GRADE AND 5.7 ABOVE GRADE. THE NET CLEAR HEIGHT IS 24 INCHES AND THE NET CLEAR WIDTH IS 20 INCHES. (FRC - R310.1, R310.2.1 & R310.2.2)**
22. **TEMPERED GLASS OR SAFETY GLAZING IS REQUIRED IN HAZARDOUS LOCATIONS AS LISTED IN SECTION R308.4. (FRC - R3084)**

23. DWELLING – GARAGE OPENING PROTECTION THROUGH THE WALLS OR CEILINGS SEPARATING THE DWELLING FROM THE GARAGE SHALL BE IN ACCORDANCE WITH FRC - R302.5.1 THROUGH R305.5.3.
24. DWELLING – GARAGE FIRE SEPARATION. THE GARAGE SHALL BE SEPARATED AS REQUIRED BY FRC TABLE R302.6. BETWEEN GARAGE AND RESIDENCE AND ATTIC – NOT LESS THAN ½ INCH GYPSUM BOARD OR EQUIVALENT APPLIED TO GARAGE SIDE. BETWEEN GARAGE AND HABITABLE ROOMS ABOVE THE GARAGE – NOT LESS THAN 5/8 INCH TYPE X GYPSUM OR EQUIVALENT. GARAGES LOCATED LESS THAN 3 FEET FROM DWELLING UNIT – NOT LESS THAN ½ INCH GYPSUM BOARD OR EQUIVALENT APPLIED TO THE INTERIOR OF THE EXTERIOR WALLS. (FRC - TABLE R302.6)
25. OPENINGS FROM A PRIVATE GARAGE DIRECTLY INTO A SLEEPING ROOM ARE PROHIBITED. DOORS BETWEEN AND GARAGES AND RESIDENCES SHALL BE EQUIPPED W/SOLID WOOD DOORS NOT LESS THAN 1 3/8 INCH IN THICKNESS, SOLID OR HONEYCOMB-CORE STEEL DOORS NOT LESS THAN 1 3/8 INCH THICK OR 20 – MINUTE FIRE-RATED DOORS. (FRC - R302.5.1)
26. CARPORT DEFINITION IS FOUND IN R309.2. IT IS DEFINED AS BEING OPEN ON AT LEAST TWO SIDES. IF NOT A CARPORT IT IS DEFINED TO BE A GARAGE AND MUST COMPLY WITH GARAGE CODE REQUIREMENTS FOUND IN FRC - R309.2.
27. GARAGE DOOR AND ATTACHMENTS MUST MEET THE REQUIREMENTS FOUND IN THE PLANS, PRODUCT APPROVAL AND MANUFACTURE’S SPECIFICATION. (FRC - R609.4.1 & FBC-BUILDING 1609.7)
28. CHECK ALL TRADE FINALS FOR CODE COMPLIANCE INCLUDING: ELECTRICAL, MECHANICAL, PLUMBING AND IRRIGATION.
29. NOTE IF DRIVEWAY AND CULVERT INSPECTIONS ARE REQUIRED AND APPROVED.
30. RETURN PLANS AND DOCUMENTS TO ORIGINAL LOCATION, SIGN PERMIT CARD.

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SECTION -16-

MECHANICAL ROUGH

1. CHECK PLANS AND PERMIT CARD.
2. MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR PRODUCTS AND APPLIANCES SHALL BE AVAILABLE ON THE JOB SITE AT THE TIME OF INSPECTION. (FRC- M1307.1)
3. REQUIREMENTS FOR RESIDENTIAL MECHANICAL INSTALLATION CAN BE FOUND IN CHAPTERS 12 THROUGH 24 OF THE RESIDENTIAL CODE AND CHAPTERS 1[RE] THROUGH 6 OF THE ENERGY CONSERVATION CODE. CHAPTER 4 [RE] ESTABLISHES TWO DIFFERENT METHODS TO ACHIEVE COMPLIANCE WITH ENERGY EFFICIENCY REQUIREMENTS.
4. THE "PRESCRIPTIVE" APPROACH, R402, IS MORE RESTRICTIVE AND ACTUALLY PRESCRIBES WHAT MUST BE DONE TO ACHIEVE COMPLIANCE. THE "PERFORMANCE" APPROACH, R405, USES A SIMULATED COMPLIANCE REPORT KNOWN AS "ENERGY CALCULATIONS" TO DEMONSTRATE HOW COMPLIANCE CAN BE ACHIEVED. IN MOST CASES THE PERFORMANCE APPROACH, "ENERGY CALCULATIONS", ARE USED.
5. CHECK AIR HANDLER LOCATION. BE AWARE THAT AIR HANDLERS ARE NOT ALLOWED THE ATTIC IF THE PRESCRIPTIVE METHOD IS USED. USING THE PERFORMANCE METHOD, R405, AIR HANDLERS ARE ALLOWED IN ATTICS IF LOCATED WITHIN 6' OF ACCESS OPENING. (FEC- R403.3.16)
6. IN ADDITION, PASSAGEWAY SHALL NOT BE LESS THAN 30 INCHES HIGH AND 22 INCHES WIDE. A LEVEL SERVICE SPACE NOT LESS THAN 30 INCHES BY 30 INCHES SHALL BE REQUIRED ON ALL SIDES OF THE APPLIANCE WHERE ACCESS IS REQUIRED. (FRC- M1305.1.3 & M1305.1.3.1 & FEC- R403.3.16)
7. **A LUMINAIRE SWITCHED AT THE ATTIC ACCESS OPENING IS REQUIRED TO PROVIDE LIGHTING ALONG THE WALKWAY AND A RECEPTACLE OUTLET AT OR NEAR THE SERVICE AREA SHALL BE PROVIDED. EXPOSED BULBS SHALL BE PROTECTED FROM DAMAGE BY LOCATION OR LAMP GUARDS. THE LIGHTING OUTLET SHALL BE AT OR NEAR THE EQUIPMENT REQUIRING SERVICE [FRC - M1305.1.3.1, M1305.1.4.3 & 2014 NEC 210.70. (A)(3)]**
8. AIR HANDLER MUST HAVE A LABEL INDICATING THE SIZE OF THE HEAT STRIP. (FRC- M1303.1)
9. FURNACES AND AIR HANDLERS WITHIN COMPARTMENTS SHALL HAVE A MINIMUM WORKING SPACE CLEARANCE OF 3 INCHES ALONG THE SIDES, BACK AND TOP WITH A TOTAL WIDTH OF THE ENCLOSING SPACE BEING AT LEAST 12 INCHES WIDER THAN THE FURNACE OR AIR HANDLER. (FRC-M1305.1.1)

10. PROTECTION FROM DAMAGE. APPLIANCES SHALL NOT BE INSTALLED IN A LOCATION SUBJECT TO MECHANICAL DAMAGE UNLESS PROTECTED BY APPROVED BARRIERS. (FMC-303.4) PIPING TO BE PROTECTED WITH PROTECTIVE SHIELD PLATES. (FRC- M1308.2)
11. **SUPPLY DUCTS IN ATTICS SHALL BE INSULATED TO A MINIMUM OF R-8 IF INSTALLED USING THE PRESCRIPTIVE METHOD. (FEC - R403.1.1) AND A MINIMUM OF R-6 IF USING THE PERFORMAMANCE METHOD ALSO KNOWN AS THE ENERGY CALCULATIONS. (FEC - R405)**
12. DUCT WORK PASSING THROUGH GARAGE WALLS OR CEILINGS SHALL BE RIGID (METAL OR DUCT BOARD) WITH NO OPENINGS INTO GARAGE. (FRC- R302.5.2)
13. ALL DISTRIBUTION SYSTEMS MUST BE SEALED. (FEC- R403.3.2 & FRCR403.3.2.1)
14. DUCT INSTALLATION. PROPER ATTACHMENTS OF INNER LINER AND OUTER JACKET OF FLEX DUCTS SHALL BE PROVIDED. (FRC – M1601.4.1)
15. TAPES SHALL BE UL 181 APPROVED AND EXTEND A MINIMUM OF 1 INCH ONTO EACH OF THE MATED SURFACES. (FRC – M1601.4.1)
16. ALL DUCTS SHALL BE CONSTRUCTED, BRACED, REINFORCED AND INSTALLED TO PROVIDE STRUCTURAL STRENGTH AND DURABILITY. (FEC- C403.2.9.2)
17. FLEXIBLE DUCTS SHALL BE FULLY EXTENDED AND PROPERLY SUPPORTED.
 - A. HORIZONTAL DUCT SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING 5’.
 - B. VERTICAL DUCT SHALL BE STABILIZED AT INTERVALS NOT EXCEEDING 6’. (FBC-M304.1), (FBC-M 603.10) AND SMACNA DUCT CONSTRUCTION STANDARDS
18. HANGERS, SADDLES, AND OTHER SUPPORTS SHALL NOT RESTRICT INTERNAL DUCT DIAMETER AND SHALL NOT BE LESS THAN 1-1/2” WIDE INSTALLED AT INTERVALS NOT TO EXCEED 12’. INSTALLATION SHALL BE PER FRC - M1601.1.1 & FMC- 603.1, FMC- 603.10 AND SMACNA DUCT CONSTRUCTION STANDARDS.
19. BENDS IN FLEX DUCT SHALL MAINTAIN A CENTER LINE RADIUS OF NOT LESS THAN ONE DUCT DIAMETER. INSTALLATION SHALL BE PER FRC- M1601.1.1 & FMC-603.1, 603.10 AND SMACNA DUCT CONSTRUCTION STANDARDS.
20. PROVIDE FOR BALANCED RETURN AIR FOR HABITABLE ROOMS. TRANSFER DUCTS OR GRILLES AND DOOR UNDER CUTS OF MINIMUM 1” MAY BE USED AS WELL AS DUCTED RETURNS FROM EACH HABITABLE ROOM. (FRC- M1602.2)
21. THERMOSTAT WIRE MUST BE PROVIDED IN ACCORDANCE WITH THE LISTING, MANUFACTURER’S INSTALLATION INSTRUCTIONS AND CODE. (FMC-304.1 & FRC- M1307.1)
22. COMBUSTION AIR MUST BE PROVIDED PER (FRC- M1701.1 & G2407.1)

23. **CONDENSATE DRAINS MUST BE MINIMUM OF ¾" DIAMETER AND BE INSTALLED SO THAT HORIZONTAL SECTIONS HAVE A UNIFORM SLOPE. (FRC- M1411.3 & FMC - 307.2)**
24. **CONDENSATE DRAIN PIPING MUST HAVE PROPER SUPPORT (FMC- TABLE 305.4)**
25. **CONDENSATE DRAINS SHALL BE TRAPPED AS REQUIRED BY THE EQUIPMENT OR APPLIANCE MANUFACTURER. DUCTLESS MINI-SPLIT SYSTEMS REQUIRE AN INLINE CHECK VALVE OR A TRAP. (FMC- 307.2.4.1)**
26. **CONDENSATE DRAINS SHALL BE CONFIGURED TO PERMIT THE CLEARING OF BLOCKAGES AND PERFORMING MAINTENANCE WITHOUT CUTTING THE DRAIN LINE (FRC-M1411.3.3)**
27. **AUXILIARY AND SECONDARY DRAIN PANS SHALL BE PROVIDED AS REQUIRED. (FRC- M1411.3.1)**
28. **ON DOWN FLOW UNITS THAT DO NOT HAVE A SECONDARY DRAIN OR PROVISIONS TO INSTALL A SECONDARY DRAIN PAN, A WATER LEVEL MONITORING DEVICE SHALL BE INSTALLED INSIDE THE PRIMARY DRAIN PAN. DEVICES SHALL NOT BE INSTALLED IN THE DRAIN LINE. (FRC- M1411.3.1.1)**
29. **INSULATION OF REFRIGERANT PIPING FOR VAPOR (SUCTION) LINES SHALL BE WITH INSULATION NOT LESS THAN R-4. (FRC-M1411.6) FOR REFRIGERANT PIPING INSULATION REQUIREMENTS BASED ON PIPE SIZE SEE FEC-TABLE C403.2.10.**
30. **REFRIGERANT PIPING PENETRATING SLABS, FOUNDATIONS OR OTHER CORROSIVE MATERIALS SHALL BE PROTECTED AGAINST EXTERNAL CORROSION BY A PROTECTIVE SHEATHING. (FRC-M1301.3 & M1411.6, FMC- 1101.3)**
31. **REFRIGERANT ACCESS PORT CAPS SHALL BE FITTED WITH LOCKING TYPE TAMPER RESISTANT CAPS EXCEPT WHERE EQUIPMENT IS IN A CONTROLLED AREA OR ROOFTOP. (FMC- 1101.10)**
32. **REFRIGERANT PIPING SHALL BE PROPERLY SUPPORTED. (FMC- 305)**
33. **PIPING INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED. ADHESIVE TAPE SHALL NOT BE PERMITTED. (FEC-R403.4.1)**
34. **THE AIR REMOVED BY EVERY MECHANICAL EXHAUST SYSTEM SHALL BE DISCHARGED TO THE OUTDOORS 3 FEET FROM PROPERTY LINES, 3 FEET FROM OPENINGS TO THE BUILDING AND 10 FEET FROM MECHANICAL AIR INTAKES EXCEPT WHEN OPENING IS LOCATED 3 FEET ABOVE AIR INTAKES. AIR SHALL NOT BE EXHAUSTED INTO AN ATTIC, SOFFIT, RIDGE VENT OR CRAWL SPACE. EXCEPTION: WHOLE-HOUSE VENTILATION TYPE ATTIC FANS THAT DISCHARGE INTO THE ATTIC SPACE OF DWELLING UNITS HAVING PRIVATE ATTICS SHALL BE PERMITTED. (FRC - M1506.3)**

DOMESTIC CLOTHES DRYER EXHAUST

35. **MINIMUM DRYER DUCT DIAMETER IS 4". DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH WITH NO FASTENERS EXTENDING INTO DUCT MORE THAN 1/8 OF AN INCH. (FRC - M1502.4.1 & M1502.4.2)**
36. **MAXIMUM DEVELOPED LENGTH OF DRYER EXHAUST DUCT SHALL NOT EXCEED 35 FEET AND SHALL BE REDUCED 2-1/2 FEET FOR EACH 45-DEGREE BEND AND 5 FEET FOR EACH 90 DEGREE BEND WHEN USING 4 INCH DUCTS. SEE FRC- TABLE M1502.4.5.1 WHEN USING LARGER DIAMETER DUCTS. (FRC - M1502.4.5.1 & TABLE M1502.4.5.1)**
37. **DRYER EXHAUST DUCTS SHALL TERMINATE ON THE OUTSIDE OF BUILDING. THE EXHAUST DUCT SHALL TERMINATE NOT LESS THAN 3 FEET IN ANY DIRECTION FROM OPENINGS INTO BUILDINGS. EXHAUST DUCTS SHALL HAVE A BACKDRAFT DAMPER. TERMINATION SHALL NOT BE SCREENED. (FRC-M1502.3)**
38. **TRANSITION DUCTS SHALL BE LIMITED TO SINGLE LENGTHS NOT TO EXCEED 8 FEET. TRANSITION DUCTS SHALL NOT BE CONCEALED WITHIN CONSTRUCTION. (FRC - M1502.4.3)**
39. **WHERE THE EXHAUST DUCT EQUIVALENT LENGTH EXCEEDS 35 FEET THE LENGTH OF THE DUCT SHALL BE IDENTIFIED ON A PERMANENT TAG OR LABEL. (FRC- M1502.4.6)**
40. **DOMESTIC DRYER EXHAUST DUCT POWER VENTILATORS SHALL BE LISTED AND LABELED TO UL 705 FOR USE AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. (FMC – 504.5)**
41. **MAKE-UP AIR SHALL BE PROVIDED FOR INSTALLATIONS EXHAUSTING MORE THAN 200 CFM. WHERE A CLOSET IS PROVIDED FOR DRYER INSTALLATION, AN OPENING OF NOT LESS THAN 100 SQUARE INCHES SHALL BE PROVIDED FOR MAKEUP AIR. (FRC - G2439.5)**

DOMESTIC KITCHEN EXHAUST EQUIPMENT

42. **WHEN PROVIDED, RANGE HOOD DUCTS SHALL DISCHARGE TO THE OUTDOORS, HAVE SMOOTH INNER WALLS, BE AIRTIGHT AND EQUIPPED WITH A BACKDRAFT DAMPER. (FRC-M1503.1)**
EXCEPTION: LISTED AND LABELED DUCTLESS HOODS
43. **DOMESTIC OPEN-TOP BROILER UNITS SHALL BE PROVIDED WITH A METAL EXHAUST HOOD. (FRC- M1505.1)**
EXCEPTION: BROILER UNITS WITH AN INTEGRAL EXHAUST SYSTEM AND LISTED AND LABELED FOR USE WITHOUT AN EXHAUST HOOD.

BATHROOM VENTILATION

- 44. BATHROOMS, WATER CLOSET COMPARTMENTS AND OTHER SIMILAR ROOMS SHALL BE PROVIDED WITH AGGREGATE GLAZING AREA IN WINDOWS OF NOT LESS THAN 3 SQUARE FEET, ONE-HALF OF WHICH MUST BE OPERABLE. EXCEPTION: THE GLAZED AREA SHALL NOT BE REQUIRED WHERE ARTIFICIAL LIGHT AND A LOCAL EXHAUST SYSTEM ARE PROVIDED. THE MINIMUM LOCAL EXHAUST RATES SHALL BE DETERMINED IN ACCORDANCE WITH SECTION (M1507). EXHAUST AIR FROM THE SPACE SHALL BE EXHAUSTED DIRECTLY TO THE OUTDOORS AND NOT RECIRCULATED. (FRC – R303.3 & M1507.2)**

- 45. RETURN PLANS TO ORIGINAL LOCATION, SIGN AND DATE PERMIT CARD, OR LEAVE CORRECTION NOTICE WITH ITEMS LISTED.**

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ANY ITEM NOT ADDRESSED BY THE RESIDENTIAL CODE SHALL COMPLY WITH THE
APPLICABLE PROVISION OF THE FLORIDA BUILDING CODE, MECHANICAL AND FUEL
GAS.

SECTION -17-

MECHANICAL FINAL

1. CHECK PERMIT CARD, PLANS AND ENERGY CALCULATIONS
2. MANUFACTURERS INSTALLATION INSTRUCTIONS FOR PRODUCTS AND APPLIANCES SHALL BE AVAILABLE ON JOBSITE AT THE TIME OF INSPECTION (FRC-M1307.1)
3. AIR HANDLING UNITS SHALL NOT BE INSTALLED IN THE ATTIC WHEN A HOME IS BROUGHT INTO CODE COMPLIANCE UNDER THE GENERAL PRESCRIPTIVE REQUIREMENTS OF R402. AIR-HANDLING UNITS SHALL BE ALLOWED IN ATTICS BY SECTION R405 UNDER THE PERFORMANCE COMPLIANCE (ENERGY CALCULATIONS) METHOD. (FEC- R402, R403.3.6)
4. IF AN AIR HANDLER IS LOCATED IN THE ATTIC A NOTICE SHALL BE POSTED ON THE ELECTRIC PANEL INDICATING ITS LOCATION. SAID NOTICE SHALL BE IN ALL CAPITALS, 16 POINT FONT TYPE WITH THE TITLE IN BOLD AND SHALL READS AS FOLLOWS: **NOTICE TO HOMEOWNER – A PART OF YOUR AIR CONDITIONING SYSTEMS, THE AIR HANDLER, IS LOCATED IN THE ATTIC. FOR PROPER, EFFICIENT AND ECONOMIC OPERATION OF THE AIR-CONDITIONING SYSTEM, YOU MUST ENSURE THAT REGULAR MAINTENANCE IS PERFORMED. YOUR AIR-CONDITIONING SYSTEM IS EQUIPPED WITH ONE OR BOTH OF THE FOLLOWING: (1) A DEVICE THAT WILL ALERT YOU WHEN THE CONDENSATION DRAIN IS NOT WORKING PROPERLY OR (2) A DEVICE THAT WILL SHUT DOWN THE SYSTEM WHEN THE CONDENSATION DRAIN IS NOT WORKING. TO LIMIT POTENTIAL DAMAGE TO YOUR HOME, AND TO AVOID DISRUPTION OF SERVICE, IT IS RECOMMENDED THAT YOU ENSURE PROPER WORKING ORDER OF THESE DEVICES BEFORE EACH SEASON OF PEAK OPERATION.** (FEC – R403.3.6)
5. CHECK AIR HANDLER LOCATION. AIR HANDLERS ARE NOT ALLOWED THE ATTIC IF THE PRESCRIPTIVE METHOD IS USED. USING THE PERFORMANCE METHOD, R405, AIR HANDLERS ARE ALLOWED IN ATTICS IF LOCATED WITHIN 6' OF ACCESS OPENING. (FEC – 402, 405)
6. A LUMINAIRE SWITCHED AT THE ATTIC ACCESS OPENING IS REQUIRED TO PROVIDE LIGHTING ALONG THE WALKWAY AND A RECEPTACLE OUTLET AT OR NEAR THE SERVICE AREA SHALL BE PROVIDED. EXPOSED BULBS SHALL BE PROTECTED FROM DAMAGE BY LOCATION OR LAMP GUARDS. THE LIGHTING OUTLET SHALL BE AT OR NEAR THE EQUIPMENT REQUIRING SERVICE [FBC-R- M1305.1.3.1, M1305.1.3.1 & 2014 NEC 210.70. (A)(3)]

7. **AIR HANDLER MUST HAVE A LABEL INDICATING THE SIZE OF THE HEAT STRIP. (FRC- M1303.1)**
8. **MECHANICAL SYSTEMS MUST BE 1' ABOVE BASE FLOOD ELEVATION IF IN FLOOD ZONE OR OTHERWISE PROTECTED FROM WATER. (AHJ)**
9. **FILTER MUST BE ACCESSIBLE FOR MAINTENANCE AND NOT BLOCKED BY ANY ELEMENTS OF CONSTRUCTION. (FRC- M1401.2)**
10. **VERIFY UNIT MATCHES ENERGY FORMS FOR TONNAGE, EFFICIENCY, TYPE OF HEAT, LOCATION, ETC. (FBC-EC- R403.7.1.1, & R403.7.1.2)**
11. **INSTALLATION. HEATING AND COOL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AND THE REQUIREMENTS OF THE CODE. (FRC - M1401.1)**
12. **VERIFY CORRECT EQUIPMENT OVERCURRENT PROTECTION, CONDUCTOR SIZE AND DISCONNECT LOCATION. ELECTRICAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE 2014 NEC & CHAPTERS 14, 15, 19, 20 AND 34 THROUGH 43 OF THE FRC- M1307.5)**
13. **CONDENSATE DRAINS MUST BE TRAPPED PER MANUFACTURE'S REQUIREMENT AND DISCHARGE NOT LESS THAN 1' AWAY FROM BUILDING. (FMC- 307.2.1, & 307.2.4)**
14. **CONDENSATE DRAIN MUST BE A MINIMUM OF 3/4 INCH AND BE INSTALLED SO THAT HORIZONTAL SECTIONS HAVE A UNIFORM SLOPE OF PERCENT. (FRC -M1411.3.)**
15. **AIR HANDLER COOLING UNITS MUST HAVE A SECONDARY DRAIN OR AN AUXILIARY DRAIN PAN WILL BE REQUIRED WHERE DAMAGE TO THE BUILDING FROM OVERFLOW WILL OCCUR. (FRC - M1411.3.1)**
16. **AUXILARY DRAIN PAN WITH A SEPARATE DRAIN SHALL BE INSTALLED UNDER THE COILS AND DISCHARGE TO A CONSPICUOUS POINT TO ALERT OCCUPANTS IN THE EVENT OF THE STOPPAGE OF THE MAIN DRAIN. (FRC - M1411.3.1 (1))**
17. **CONDENSATE DRAINS SHALL BE TRAPPED AS REQUIRED BY THE EQUIPMENT OR APPLIANCE MANUFACTURER. (FMC 307.2.4)**
18. **CONDENSERS OR EQUIPMENT SUPPORTED FROM THE GROUND SHALL BE LEVEL AND FIRMLY SUPPORTED ON A CONCRETE SLAB OR OTHER APPROVED MATERIAL EXTENDING NOT LESS THAN 3 INCHES ABOVE ADJOINING GRADE. (FRC- M1305.1.4.1)**
19. **CONDENSORS OR APPLIANCES MUST BE ANCHORED IN AN APPROVED MANNER. (FRC- M1307.2)**
20. **PROPER COMBUSTION AIR MUST BE PROVIDED FOR FUEL BURNING UNITS. (FRC - M1701.1)**
21. **PIPING INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED FROM DAMAGE INCLUDING THAT CAUSED BY SUNLIGHT, MOISTURE AND WIND. ADHESIVE TAPE SHALL NOT BE PERMITTED. (FEC - R403.3.1)**

DOMESTIC CLOTHES DRYERS

- 22. **DRYER EXHAUST DUCTS SHALL TERMINATE ON THE OUTSIDE OF BUILDING. THE EXHAUST DUCT SHALL TERMINATE NOT LESS THAN 3 FEET IN ANY DIRECTION FROM OPENINGS INTO BUILDINGS. EXHAUST DUCTS SHALL HAVE A BACKDRAFT DAMPER. TERMINATION SHALL NOT BE SCREENED. (FRC- M1502.3)**
- 23. **COMBUSTION AIR IS REQUIRMENTS FOR GAS DRYERS. (FRC- G2407)**
- 24. **MAKE-UP AIR SHALL BE PROVIDE IF DRYER IS IN CLOSET. MAKE-UP AIR SHALL BE PROVIDED FOR INSTALLATIONS EXHAUSTING MORE THAN 200 CFM. WHERE A CLOSET IS PROVIDED FOR DRYER INSTALLATION, AN OPENING OF NOT LESS THAN 100 SQUARE INCHES SHALL BE PROVIDED FOR MAKEUP AIR. (FRC- G2439.5, FMC – 614.6)**

DOMESTIC KITCHEN EXHAUST EQUIPMENT

- 25. **WHEN PROVIDED, RANGE HOOD DUCTS SHALL DISCHARGE TO THE OUTDOORS, HAVE SMOOTH INNER WALLS, BE AIRTIGHT AND EQUIPPED WITH A BACKDRAFT DAMPER. EXCEPTION: LISTED AND LABELED DUCTLESS HOODS. (FRC- M1503.1)**
- 26. **INSTALLATION OF MICROWAVE OVENS OVER A COOKING APPLIANCE SHALL CONFORM TO THE TERMS OF THE MICROWAVE'S LISTING AND LABEL AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE MICROWAVE MUST ALSO COMPLY WITH UL 923. (FRC- M1504)**
- 27. **RETURN PLANS TO ORIGINAL LOCATION; SIGN AND DATE PERMIT CARD OR LEAVE CORRECCTION NOTICE WITH ITEMS LISTED.**

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SECTION -18-

FUEL GAS ROUGH

1. CHECK PERMIT CARD AND PLANS.
2. GAS PIPING SHALL NOT BE INSTALLED IN OR THROUGH A CIRCULATING AIR DUCT, CLOTHES CHUTE, VENTILATING DUCT, CHIMNEY, GAS VENT, DUMB WAITER OR ELEVATOR SHAFT. (FRC - G2415.3)
3. UNDERGROUND GAS PIPING SYSTEMS MUST BE BURIED A MINIMUM OF 12 INCHES BELOW GRADE. EXCEPTION: EXCEPTION: GAS LINES FOR INDIVIDUAL OUTSIDE APPLIANCES SUCH AS GRILLS AND LIGHTS SHALL BE BURIED NO LESS THAN 8 INCHES BELOW FINISHED GRADE. (FRC - 2415.121)
4. GAS PIPING BURIED UNDER A SLAB OR BUILDING MUST BE ENCASED IN CONDUIT. (FRC - G2415.14)
5. A YELLOW INSULATED COPPER TRACER WIRE NOT LESS THAN 18 GAUGE SHALL BE INSTALLED ADJACENT TO UNDERGROUND NON-METALLIC PIPING. THE TRACER WIRE SHALL TERMINATE ABOVE GROUND AT EACH END. (FRC - G2415.17.3)
6. TEST PRESSURE SHALL BE NO LESS THAN 1 ½ TIMES THE PROPOSED MAXIMUM WORKING PRESSURE BUT NOT LESS THAN 3 PSI. TEST DURATION FOR A SINGLE FAMILY DWELLING IS 10 MINUTES. (FRC - G2417.4.1 & G2417.4.2)
7. ALL ABOVE GROUND PIPING SHALL BE SUPPORTED AT INTERVALS OF SUPPORT PER TABLE (FRC – TABLE G2424.1).
8. PIPING IN CONCEALED LOCATIONS SHALL BE LIMITED TO THREADED ELBOWS, TEES & COUPLINGS, BRAZED FITTINGS, WELDED FITTINGS & FITTINGS LISTED TO ANSI LC-1/CSA 6.26 OR ANSI LC-4. (FRC - G2415.5)
9. PROTECTION TO BE PROVIDED FOR OTHER THAN GALVANIZED OR BLACK PIPING WHEN INSTALLED IN A CONCEALED SPACE THROUGH HOLES LESS THAN 1.5” FROM THE FACE OF FRAMING MEMBERS. PLATES SHALL COVER THE AREA OF THE PIPE; EXTEND A MINIMUM OF 4” ABOVE SOLE PLATES, BELOW TOP PLATES AND TO EACH SIDE OF A STUD, JOIST OR RAFTER. (FRC - G2415.7)
10. CATEGORY I VENTS SHALL BE SIZED IN ACCORDANCE WITH FRC - G2428. DESIGN, SIZING AND INSTALLATION OF CAT II, III & IV VENTS SHALL BE IN ACCORDANCE WITH APPLIANCE MANUFACTURER’S INSTRUCTIONS. (FRC - G2425.14)

11. **MASONRY, METAL AND FACTORY BUILT CHIMNEYS SHALL COMPLY WITH FRC SECTIONS G2427.5.1 THROUGH G2427.5.9.**
12. **PROPER CLEARANCE OF GAS VENTS FROM COMBUSTIBLES IS REQUIRED PER FRC CHAPTER 10 AND 24 OF THE RESIDENTIAL CODE AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. (FRC – CHAPTER 10 & G2425.15.4)**
13. **INSULATION SHIELD OF NOT LESS THAN 26 GAUGE METAL REQUIRED TO MAINTAIN CLEARANCE BETWEEN INSULATION AND VENT. (FRC - G2426.4)**
14. **TERMINATION OF VENTS SHALL COMPLY WITH FRC - G2427.6.3.**
15. **LISTED VENTED DECORATIVE APPLIANCES SUCH AS GAS FIREPLACES SHALL BE INSTALLED IN ACCORDANCE WITH THEIR LISTING AND MANUFACTURER'S INSTRUCTIONS. (FRC - G2432.1)**
16. **MANUFACTURERS INSTALLATION INSTRUCTIONS FOR PRODUCTS AND APPLIANCES SHALL BE AVAILABLE ONSITE AT THE TIME OF INSPECTION. (FRC - G2408.1)**
17. **COMBUSTION AIR MUST BE PROVIDED IN ACCORDANCE WITH SECTION (FRC - G2407).**
18. **RETURN PLANS TO ORIGINAL LOCATION, SIGN AND DATE PERMIT CARD *OR LEAVE CORRECTION NOTICE WITH ITEMS LISTED.***

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SECTION -19-

FUEL GAS FINAL

1. CHECK PLANS AND PERMIT CARD. VERIFY ALL PREVIOUS REQUIRED INSPECTIONS HAVE BEEN APPROVED.
2. OUTLETS WITHOUT APPLIANCES INSTALLED SHALL BE CAPPED GAS TIGHT. (FRC - G2415.15)
3. OUTLETS SHALL BE LOCATED IN THE ROOM OR SPACE WHERE THE APPLIANCE IS INSTALLED. (FRC - G2415.16)
4. SHUT-OFF VALVES WITH CAPS SHALL BE INSTALLED NOT MORE THAT 6' FROM THE APPLIANCE AND IN THE SAME ROOM OR OUTSIDE AT THE APPLIANCE. (FRC - G2420.5.1)
5. ALL GAS VENTS SHALL BE CONNECTED, PROPERLY INSTALLED AND CAPPED. (FRC - G2426-G2427)
6. APPLIANCES INSTALLED IN GARAGES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURES INSTRUCTIONS WHICH SHALL BE AVAILABLE ON THE JOB AT THE TIME OF THE INSPECTION. (FRC - G2408.1, G2408.2.1 & G2408.3)
7. COMBUSTION AIR PROVIDED MUST COMPLY WITH SECTION FRC - G2407.
8. SEDIMENT TRAPS REQUIRED PER FRC - G2419.4.
9. APPLIANCE FUEL CONNECTORS SHALL NOT EXCEED 6' IN LENGTH. EXCEPTION: RIGID METAL PIPING SHALL BE PERMITTED TO HAVE A TOTAL LENGTH GREATER THAN 6 FEET. (FRC - G2422.1.2.1)
10. CHECK FOR PROPER PLACEMENT OF LP GAS TANKS (NFPA 58)
11. ALL APPLIANCES MUST BE INSTALLED ACCORDING TO THE MANUFACTURERS INSTALLATION INSTRUCTIONS, WHICH SHALL BE AVAILABLE AT TIME OF INSPECTION, AND THIS CODE (FRC - G2408.1)
12. ALL APPLIANCES AND MATERIALS MUST BE LISTED AND MEET APPROPRIATE STANDARDS OR HAVE BEEN TESTED IN A SPECIFIED MANNER. (FRC - G2408.1)
13. EACH ABOVE GROUND PORTION OF A GAS PIPING SYSTEM UPSTREAM FROM THE EQUIPMENT SHUT-OFF VALVE SHALL BE ELECTRICALLY CONTINUOUS AND BE BONDED TO ANY GROUNDING ELECTRODE AS DEFINED BY G2410, G2411, CH. 34 & NEC 2014.

RETURN PLANS TO ORIGINAL LOCATION, SIGN AND DATE PERMIT CARD.
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SECTION -20-

POTABLE WATER IRRIGATION SYSTEMS

1. **CONFIRM THE IRRIGATION SYSTEM IS PERMITTED. (FBC-B, SECTION, [A], 105.1)**
2. **A SHUT OFF VALVE MUST BE INSTALLED IN THE SUPPLY LINE TO THE SYSTEM. (FRC- SECTIONS P2903.9.3, P2903.9.4 & P2903.9.5)**
3. **CHECK FOR RAIN SENSOR AND TIMER OR MANUAL ZONE VALVES. (F.S. 373.62)**
4. **PROPER BACKFLOW PREVENTION MUST BE PROVIDED. (FRC - P2902.5.3)**
 - a. **ATMOSPHERIC TYPE VACUUM BREAKER: IF THIS TYPE IS USED IT MUST BE INSTALLED DOWNSTREAM OF THE ZONE VALVES AND ABOVE THE HIGHEST SPRINKLER HEAD ACCORDING THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.**
 - b. **PRESSURE TYPE VACUUM BREAKER: THIS TYPE VALVE MAY BE INSTALLED UPSTREAM OF THE ZONE VALVES AND ABOVE THE HIGHEST HEAD ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.**
 - c. **REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER: REQUIRED WHEN CHEMICALS ARE INTRODUCED INTO THE SYSTEM.**
5. **ALL IRRIGATION HEADS SHALL DISCHARGE AT LEAST 1 FOOT FROM THE BUILDING EXTERIOR WALL. (FRC - R318.5)**

RECLAIMED WATER IRRIGATION SYSTEMS

1. **NON-POTABLE DISTRIBUTION SYSTEMS, PIPING, SPRINKLER HEADS AND DISTRIBUTION BOXES SHALL BE PURPLE IN COLOR. PIPING SHALL BE EMBOSSED OR INTEGRALLY STAMPED OR MARKED WITH THE WORDS "CAUTION: NONPOTABLE WATER – DO NOT DRINK". PIPE IDENTIFICATION SHALL BE REPEATED AT INTERVALS NOT EXCEEDING 25 FEET WHERE PIPING PASSES THROUGH A WALL, FLOOR OR ROOF. (FRC- P2901.2 & P2913.3.1.3 AND POLK COUNTY RECLAIMED WATER POLICY MANUAL 5.4)**

2. **SIGNAGE REQUIRED. NONPOTABLE WATER OUTLETS SUCH AS HOSE BIBS, OPEN ENDED PIPES AND FAUCETS SHALL BE IDENTIFIED WITH SIGNAGE THAT READS AS FOLLOWS: “NONPOTABLE WATER SUPPLY IS UTILIZED FOR [APPLICANTS NAME]. CAUTION: NONPOTABLE WATER. DO NOT DRINK.” THE WORDS SHALL BE LEGIBLY AND INDELIBLY PRINTED ON A TAG OR SIGN. THE LETTERS SHALL NOT BE LESS THAN 0.5 INCHES IN HEIGHT AND IN COLORS THAT CONTRAST WITH THE BACKGROUND. IN ADDITION, THE PICTOGRAPH SHOWN BELOW SHALL APPEAR ON THE REQUIRED SIGNAGE. (FRC – 2901.2.2)**



DO NOT DRINK

RETRO-FIT SYTEM

1. **NEW SERVICE LINE FROM REUSE METER TO POINT OF CONNECTION WITH THE EXISTING IRRIGATION PIPING OR ANY OTHER NEW IRRIGATION PIPING SHALL BE THE INDUSTRY STANDARD COLOR PURPLE FROM THE MANUFACTURER.**
2. **PIPING, CONNECTIONS SHALL BE LEFT UNCOVERED FOR INSPECTION.**
3. **NON-POTABLE DISTRUBUTION SYSTEMS, PIPING, SPRINKLER HEADS AND DISTRUBUTION BOXES SHALL BE PURPLE IN COLOR. PIPING SHALL BE EMBOSSSED OR INTEGRALLY STAMPED OR MARKED WITH THE WORDS “CAUTION: NONPOTABLE WATER – DO NOT DRINK”. PIPE IDENTIFICATION SHALL BE REPEATED AT INTERVALS NOT EXCEEDING 25 FEET WHERE PIPING PASSES THROUGH A WALL, FLOOR OR ROOF. (FRC- P2901.2 & P2913.3.1.3 AND POLK COUNTY RECLAIMED WATER POLICY MANUAL 5.4)**
4. **A POTABLE WATER SUPPLY SYSTEM SHALL BE DESIGNED AND INSTALLED AS TO PREVENT CONTAMINATION FROM NON-POTABLE LIQUIDS. CONNECTIONS SHALL NOT BE MADE TO A POTABLE WATER SUPPLY THAT COULD PROVIDE A CROSS-CONNECTION EXCEPT WHERE APPROVED BACKFLOW PREVENTION DEVICES ARE INSTALLED. (FRC – P2902)**

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SECTION -21-

POOL ROUGH INSPECTION

STRUCTURAL, BONDING & GROUNDING

1. SHELL STEEL MUST BE TIED AND ELEVATED SO IT WILL BE ENCASED IN CONCRETE. (FRC - R404.1.3.3.7)
2. TEMPORARY SAFETY BARRIER MUST BE IN PLACE. (LDC, FRC - R4501.17.1.1 & R4501.17.1.15)
3. CONFIRM ANGLE OF REPOSE REQUIREMENT HAS BEEN MET. EXCAVATIONS FOR ANY PURPOSE SHALL NOT EXTEND WITHIN THE ANGLE OF REPOSE (45 DEGREES) OR NATURAL SLOPE OF THE SOIL UNDER ANY FOOTING OR FOUNDATION. (FRC – R403.1.7.2, R403.1.7.4)

ELECTRICAL

4. SHELL STEEL MUST BE BONDED WITH # 8 COPPER WIRE. [NEC 2014, ARTICLE 680.26]
5. APPROVED GROUND CLAMP(S) – BRASS SCREWS OR PROTECTED FROM CONCRETE. OR GROUND CLAMP SHALL BE LISTED [NEC 2014, ARTICLE 250.70]
6. LIGHT NICHE BONDED AND CONDUIT INSTALLED. [NEC 2014, ARTICLE 680.23, (B)]
7. LIGHT NICHE MUST BE 18” BELOW WATER LINE PER [NEC 2014, ARTICLE 680.23, (A), (5)], OR PER MANUFACTURES SPECIFICATIONS]

PLUMBING

8. ENTRAPMENT PROTECTION. WHEN REQUIRED 2 SUCTION INLETS SHALL BE INSTALLED WITH A MINIMUM OF 3 FOOT SEPARATION OR ON 2 DIFFERENT PLANES. (FRC - R4501.6.6 & ANSI/APSP/ICC 7)
9. VENT PIPE INSTALLED PER ENGINEERED DRAWING IF APPLICABLE.
10. CONFIRM TOTAL DYNAMIC HEAD (TDH) BEING USED IS ONE OF THE FOLLOWING:
 - a. SIMPLIFIED TOTAL DYNAMIC HEAD
 - b. TOTAL DYNAMIC HEAD
 - c. MAXIMUM FLOW CAPACITY (FRC – R4501.6.3)
11. RETURN PLANS TO ORIGINAL LOCATION, SIGN AND DATE PERMIT CARD OR LEAVE CORRECTION NOTICE WITH ITEMS LISTED.

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SECTION -22-

POOL SLAB & DECK

1. CONFIRM REINFORCING WIRE MESH HAS BEEN TIED TOGETHER PER PLANS.
2. CONFIRM STEPS, LADDERS OR SWIMOUTS HAVE BEEN INSTALLED AT EACH END OF POOL. (FRC - R4501.18)
3. CONFIRM THERE IS AN 8" X 8" BELL FOOTER WITH 1 - #5 OR 2 - #3 REBARS AROUND EDGE OF POOL DECK OR AS SHOWN ON APPROVED PLANS.
4. TERMITE SOIL TREATMENT IS REQUIRED WITHIN 1' OF STRUCTURE FOR NEW CONSTRUCTION OR SLAB POUR. (FRC – R318.1.6)
5. SAFEGUARDS DURING CONSTRUCTION. TEMPORARY SAFETY BARRIERS MUST BE IN PLACE. (FBC- 3306, LDC)
6. ALL BARRIERS AND ALARMS MUST BE IN PLACE AND WORKING PRIOR TO FILLING POOL PER FRC – R4501.17.

ELECTRICAL

7. SHELL STEEL MUST BE BONDED WITH # 8 COPPER AND PROPER UL CLAMPS [NEC 2014, ARTICLE 680.26(B)(1)], (FRC – E4204)
8. HANDRAIL, LADDER, DIVING BOARD, ETC. MUST BE BONDED WITH # 8 COPPER MIN. [NEC 2014, ARTICLE 680.26(B) (5)], (FBC – R, SECTION E4204)
9. ALL METAL PARTS OF POOLS, SPAS, HOT TUBS INCLUDING STRUCTURAL REINFORCING STEEL SHALL BE BONDED TOGETHER USING INSULATED, COVERED OR BARE SOLID CONDUCTORS NOT SMALLER THAN #8 AWG. [NEC 680.26 & FRC E4204.2]
10. PERIMETER SURFACES WITH LESS THAN A 3' SEPARATION BY A PERMANENT WALL OR BUILDING 5' IN HEIGHT OR MORE SHALL REQUIRE EQUIPOTENTIAL BONDING. [NEC 680.26 (2)]
11. # 8 COPPER TO INTERNAL GROUND OF LIGHT NICHE (IF REQUIRED). [NEC 2014, ARTICLE 680.26(B) (4)], (FRC– R, SECTION E4204)
12. **ALL METAL WITHIN 5' OF WATER'S EDGE HORIZONTALLY AND 12' OR LESS VERTICALLY MUST BE BONDED WITH # 8 COPPER CONDUCTOR. THIS INCLUDES POOL CAGES, FENCES AND WINDOWS. [NEC 2014, ARTICLE 680.26(B)(7)], (FRC, SECTION E4204)**

13. **POOL WATER MUST BE CONNECTED TO AN APPROVED CORROSION-RESISTANT BONDED CONDUCTIVE SURFACE AT LEAST 9 SQUARE INCHES IN SIZE. USUALLY A BONDED METAL HANDRAIL WILL SATISFY THIS REQUIREMENT. (NEC – ARTICLE 680.26(C))**

PLUMBING

14. **VENT PIPING INSTALLED PER ENGINEERED PLANS IF APPLICABLE. (FRC -R4501.6)**
15. **ALL POOL PIPING SHALL BE PRESSURE TESTED TO NOT LESS THAN 35 POUNDS PER SQUARE INCH (PSI). (FRC – R4501.12.1)**
16. **WHEN REQUIRED ENTRAPMENT PROTECTION FOR SUCTION OUTLETS SHALL BE INSTALLED PER ANSI/APSP/ICC 7. ANSI/APSP-7 REQUIRES EITHER MULTIPLE OUTLETS SEPARATED BY AT LEAST 3 FEET OR ON 2 DIFFERENT PLANS OR AN UNBLOCKABLE OUTLET. UNBLOCKABLE OUTLETS MUST EXCEED 18” X 23” IN SIZE OR BE IN THE FORM OF A CHANNEL DRAIN AS REQUIRED BY THE VIRGINIA GRAEME BAKER POOL AND SPA SAFETY ACT. (FRC – R4501.6.6)**
17. **RETURN PLANS TO ORIGINAL LOCATION, SIGN AND DATE PERMIT CARD OR LEAVE CORRECTION NOTICE WITH ITEMS LISTED.**

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SECTION -23-

POOL FINAL

NOTE: PRIOR TO FILLING POOL WITH WATER AND POOL FINAL INSPECTION THE POOL SAFETY INSPECTION, WHICH INCLUDES THE FINAL ELECTRICAL INSPECTION AND BARRIER CODE INSPECTION, SHALL BE APPROVED. EXCEPTION: VINYL LINERS AND FIBERGLASS POOLS ARE REQUIRED TO BE FILLED WITH WATER UPON INSTALLATION. (FRC – R4501.19)

1. IF A CHILD SAFETY BARRIER IS INSTALLED IT MUST BE AT LEAST 20” FROM WATERS EDGE. (FRC - R4501.17.1.13)
2. THE TOP OF BARRIER SHALL BE AT LEAST 48 INCHES ABOVE GRADE. THE MAXIMUM VERTICAL CLEARANCE BETWEEN GRADE AND THE BOTTOM OF THE BARRIER SHALL BE 2 INCHES. (FRC - R4501.17.1.1)
3. CHILD SAFETY BARRIER MUST HAVE ONE END NON-REMOVABLE WITHOUT USE OF TOOLS. (R4501.17.1.11)
4. SPACING OF POLES FOR CHILD BARRIER NOT TO EXCEED 36”. SLEEVES FOR POLES MUST BE NONCONDUCTIVE. (FRC - R4501.17.1.15)
5. GATES, IF INSTALLED, MUST SWING AWAY FROM THE POOL AND HAVE SELF-CLOSING AND LATCHING HARDWARE. WHERE HARDWARE IS LOCATED 54” ABOVE BOTTOM OF GATE, IT MAY BE INSTALLED ON EITHER SIDE OF GATE. (FRC - R4501.17.1.8)
6. ALARMS, IF USED, MUST BE HAVE A DECIBEL RATING OF 85 AT 10 FEET. SEPARATE ALARMS ARE NOT REQUIRED FOR EACH DOOR OR WINDOW IF SENSORS ARE WIRED TO A CENTRAL ALARM AND SOUND WHEN CONTACTS ARE BROKEN AT ANY OPENING. (FRC - R4501.17.1.9, (1))
7. ANY DEACTIVATION SWITCH, IF USED, SHALL BE LEAST 54 INCHES ABOVE THE THRESHOLD OF THE ACCESS. (FRC - R4501.17.1.9)
8. FLOATING SWIMMING POOL ALARM, IF USED, MUST BE PLACED IN THE WATER AND SOUND AN ALARM UPON DETECTION OF AN ACCIDENTAL OR UNAUTHORIZED ENTRANCE IN TO THE WATER. THESE ALARMS MUST BE ANSI F2208 CERTIFIED. (FRC – R4501.17.9)
9. WHERE AN ABOVE GROUND POOL STRUCTURE IS USED AS A BARRIER, OR WHERE THE BARRIER IS MOUNTED ON TOP OF THE POOL STRUCTURE AND THE MEANS OF ACCESS IS A LADDER OR STEPS, THEY SHALL BE CAPABLE OF BEING SECURED, LOCKED OR REMOVED TO PREVENT ACCESS. (FBC – R4501.17.1.10.)

ELECTRICAL

10. POOL LIGHT J-BOX MUST BE APPROVED BOX WITH GROUND LUG/TERMINAL STRIP INSIDE. [NEC 2014, ARTICLE 680.24, (D)] & (FRC – R, E4205.2)
11. PUMP MUST HAVE DISCONNECT AND GFCI PROTECTION [NEC 2014, ARTICLE 680.21 (A), (B), (C), 680.22 (A) (1) THROUGH (5), (FRC – E4203.1.3, DISCONNECTING MEANS, E4203.1.3, GFCI PROTECTION)]
12. TIMER CANNOT BE USED AS DISCONNECT. [NEC 2014, ARTICLE 430.101 & 430.102, (A) &(B)]
13. FEEDERS TO POOL SUB-PANEL MUST BE IN CONDUIT. (NEC 2014, ARTICLE 680.25, FEEDER)
14. **RECEPTACLES OTHER THAN THOSE FOR POOL EQUIPMENT SHALL BE NOT LESS THAN 6 FEET FROM THE INSIDE WALLS OF A POOL. [NEC 2014, ARTICLE 680.22(A), (2)]. SEE ENTIRE NEC ARTICLE 680.22 FOR LIGHTING, RECEPTACLES, AND EQUIPMENT AND FRC E4203.**
15. CONFIRM PUMP MOTOR SIZE IS PER PLANS AND TDH CALCULATIONS. MOTOR TYPE, HORSEPOWER AND MANUFACTURES INFORMATION MUST MATCH PLANS.
16. 120V GFCI PROTECTED RECEPTACLE IS REQUIRED NOT LESS THAN 6 FEET OR MORE THAN 20 FEET FROM THE INSIDE WALL OF THE POOL. THE RECEPTACLE SHALL BE LOCATED NOT MORE THAN 6' 6" ABOVE THE FLOOR, GRADE OR DECK. [NEC 2014, ARTICLE 680.22, (A), (1)(4)]
17. SWITCHING DEVICES MAY BE NOT LESS THAN 5' FROM THE INSIDE WALL OF THE POOL UNLESS SEPARATED BY A SOLID FENCE OR WALL. EXCEPTION: A SWITCH THAT IS LISTED FOR USE WITHIN 5 FEET SHALL BE PERMITTED. [2014 NEC ARTICLE 680.22,(C) & FRC – E4203.2]
18. # 8 COPPER BOND WIRE FROM POOL AND ACCESSORIES MAY TERMINATE AT THE POOL PUMP OR PANELBOARD. [2014 NEC ARTICLE 680.26 (B)]
19. **ALL FIXED METAL PARTS INCLUDING POOL CAGE, PIPING, AWNINGS, FENCES, DOOR AND WINDOW FRAMES 5 FEET OR LESS FROM THE INSIDE WALL OF THE POOL SHALL BE BONDED. [NEC 2014, ARTICLE 680.26, (7), (FRC – R, E4204.2, (7)]**
20. REFER TO 2014 NEC ARTICLE 680 AND FRC – CHAPTER 42 FOR ADDITIONAL POOL REQUIREMENTS.

PLUMBING

- 21. WHEN REQUIRED ENTRAPMENT PROTECTION FOR SUCTION OUTLETS SHALL BE INSTALLED PER ANSI/APSP/ICC 7. ANSI/APSP-7 REQUIRES EITHER MULTIPLE OUTLETS SEPARATED BY AT LEAST 3 FEET OR ON 2 DIFFERENT PLANS OR AN UNBLOCKABLE OUTLET. UNBLOCKABLE OUTLETS MUST EXCEED 18" X 23" IN SIZE OR BE IN THE FORM OF A CHANNEL DRAIN AS REQUIRED BY THE VIRGINIA GRAEME BAKER POOL AND SPA SAFETY ACT. (FRC – R4501.6.6)**
- 22. CHECK VALVES, WHERE INSTALLED, SHALL BE SWING, SPRING OR VERTICAL CHECK PATTERNS. (FRC - R4501.8.3)**
- 23. WATER HEATING EQUIPMENT MUST BE INSTALLED WITH FLANGES OR UNIONS. (FRC - R4501.14.4)**
- 24. RETURN PLANS TO ORIGINAL LOCATION, SIGN AND DATE PERMIT CARD, LEAVE REJECT IF NECESSARY OR COURTESY NOTE IF YOU NEED TO CONVEY A MESSAGE.**

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**POLK COUNTY BUILDING DIVISION
RESIDENTIAL INSPECTION CHECKLIST**

SECTION -24-

MANUFACTURED / MOBILE HOMES

ALL CODE REFERENCES ARE PER FLORIDA BUILDING CODE, 6TH EDITION (2017), 2014 NEC, THE FLORIDA DEPARTMENT OF HIGHWAY SAFETY (15C) AND THE POLK COUNTY LAND DEVELOPMENT CODE (LDC) UNLESS OTHERWISE NOTED.

- 1. CONFIRM PERMIT INFORMATION INCLUDING ADDRESS, LOT NUMBER AND TYPE OF HOME MATCH INSPECTION REQUEST INFORMATION. ADDRESS NUMBERS MUST BE 4 INCHES IN HEIGHT AND ½ INCHES IN WIDTH. (POLK COUNTY LAND DEVELOPMENT CODE)**
- 2. ALL INSTALLATIONS OF MANUFACTURED / MOBILE HOMES SHALL BE PERFORMED BY EITHER A LICENSED INSTALLER OR MANUFACTURER INSTALLER. (15C-1.0102)**
- 3. ALL MANUFACTURED / MOBILE HOMES INSTALLED IN FLORIDA MUST BEAR AN INSTALLATION DECAL ISSUED BY THE DIVISION OF MOTOR VEHICLES AND AFFIXED ADJACENT TO THE HUD LABEL OR THE LOWER LEFT CORNER AT THE TAILLIGHT END OF THE HOME. (15C-2.0073(7))**
- 4. CHECK FOR FLOOD ZONE DOCUMENTATION AND ELEVATION REQUIREMENTS IF APPLICABLE.**
- 5. CHECK DATA SHEET AND CONFIRM WIND ZONE IS II OR III. REFER TO MAP PRINTED ON DATA INFORMATION SHEET WHICH IS USUALLY GLUED INSIDE A KITCHEN CABINET DOOR OR NEAR THE ELECTRIC PANEL.**
- 6. SITE SHALL BE CLEAN OF DEBRIS, GRADED AND SLOPED TO DRAIN SO THAT WATER WILL NOT ACCUMULATE UNDER UNIT. (15-C-1-0102(3)).**
- 7. BLOCKING, ANCHORS AND STABILIZER PLATES TO MATCH SET UP MANUAL. (NEW OR USED). USE DMV STATE CODE 15-C-1 IF USED MH AND NO SET UP MANUAL IS AVAILABLE. BLOCKING OVER 52" TO BE ENGINEERED. HOMES OLDER THAN 3 YEARS MUST HAVE PRE-INSPECTION (DMV 15C-1.0102, 15C-1.0103(E) & L.D.C.)**
- 8. PIERS SHALL BE CENTERED UNDER THE I-BEAMS AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURES INSTALLTION INSTRUCTION OR THE BLOCKING PLAN. THE MAXIMUM SPACING OF PIERS SHALL BE 8 FEET ON USED UNITS AND THE FIRST PIER SHALL BE PLACED WITHIN 2 FEET OF THE END OF THE HOME. (15C-1.0103)**
- 9. THE MINIMUM DISTANCE BETWEEN THE FINISHED GRADE UNDER ALL NEW AND USED MANUFACTURED / MOBILE HOMES AND THE BOTTOM OF THE I-BEAM SHALL BE 18 INCHES. (15C-1.0103)**

10. VAPOR BARRIERS MUST BE INSTALLED UNDER ALL NEW HOMES AND IT IS RECOMMENDED UNDER ALL USED HOMES IF THE CRAWLSPACE IS TO BE ENCLOSED WITH SKIRTING OR OTHER MATERIAL. (MANUFACTURERS AND HUD)
11. STRAPS AND ANCHORS. STRAPS SHALL HAVE A MINIMUM 3 WRAPS AROUND SLOTTED ANCHOR BOLTS. (FLORIDA HIGHWAY SAFETY AND MOTOR VEHICLES MANUFACTURED HOUSING INSTALLATION MANUAL)
12. TIE DOWN STRAPS SPLICING OR LENGTHENING. A 12 INCH OVERLAY BETWEEN STRAPS IS REQUIRED WITH 2 CRIMPED SEALS. (FLORIDA HIGHWAY SAFETY AND MOTOR VEHICLES MANUFACTURED HOUSING INSTALLATION MANUAL)
13. FRAME TIE-DOWNS FOR NEW AND USED MANUFACTURED / MOBILE HOMES IN ALL WIND ZONES SHALL BE SPACED NO FARTHER APART THAN FIVE FEET FOUR INCHES (5'4") ON CENTER WITH ANCHORS PLACED WITHIN TWO FEET (2') OF EACH END. (15C-1.0104 (B))
14. ALL MOBILE HOMES SHALL HAVE ENTRY STAIRS AT EACH ENTRANCE IN COMPLIANCE WITH THE ADOPTED BUILDING CODE. HOWEVER THERE SHALL BE NO LANDING REQUIREMENT FOR ENTRY STAIRS AT LEAST 42" WIDE AND WITH A MINIMUM 12" TREAD DEPTH, THAT ARE ALIGNED WITH THE HINGE SIDE OF THE DOORWAY TO PROVIDE AN OFFSET TO THE OPENING SIDE OF THE DOORWAY. (FRC – R311, LDC 71).
 - a. ADDITIONS TO UNITS MUST COMPLY WITH THE FLORIDA BUILDING CODE RESIDENTIAL. SITE CONSTRUCTED RAMPS, DECKS, LANDINGS, STAIRS, HANDRAILS AND GUARDRAILS TO COMPLY WITH FRC, SECTION R311 AND OTHER PERMITTING REQUIREMENTS.
15. WATER SUPPLY TO HAVE SHUT OFF VALVE AND CHECK VALVE. (MANUFACTURED HOME MANUAL OR 15-C).
16. SEWER CLEANOUT MUST BE LOCATED OUTSIDE OF SKIRTING. SEPTIC/SEWER CONNECTION MUST FIT TIGHTLY AT CONNECTION. (FBC – R, SECTION P3005.2.10)
17. CHECK ALL PIPING FOR PROPER SUPPORT. (MANUAL OR 15-C)
18. MECHANICAL. CHECK LABELS FOR MINIMUM AND MAXIMUM BREAKER SIZE AND CHECK FEEDER SIZE.
 - a. KW OR KVA TO BE LISTED ON HVAC UNIT.
 - b. UNIT TO BE SECURE TO A 4" CONCRETE SLAB OR GROUND ANCHOR SECURED TO EACH END
 - c. DUCTS TO BE SUPPORTED OFF THE GROUND. DUCTS CANNOT BE IN GROUND CONTACT.
 - d. 3-FOOT THRESHOLD RULE. A REQUIREMENT FOR THE THRESHOLD TO BE 3 FEET ABOVE GRADE WILL BE NOTED ON PERMIT AND BLOCKING PLAN. IF IN FLOOD ZONE YOU WILL NEED TO VERIFY HEIGHT OF FLOOR AND ANY ASSOCIATED EQUIPMENT IS ABOVE BASE FLOOD ELEVATION. (LDC)

- e. ELEVATION ISSUES SHOULD HAVE BEEN ADDRESSED BY ELEVATION CERTIFICATES AND BY OFFICE PERSONNEL OR THE INSPECTION WOULD NOT HAVE BEEN SCHEDULED.

19. ELECTRICAL POLE DIAMETER MINIMUM 6" MEASURED AT TOP OF POLE.

PROPER SERVICE REQUIRED WITHIN 30' OF EXTERIOR WALL OF HOME.

- a. CONFIRM TWO GROUND RODS OR 25 OHMS OR LESS RESISTANCE TO GROUND.
- b. BREAKERS AND FEEDERS MUST BE FOR CORRECTLY SIZED.
- c. 4 WIRES ARE REQUIRED FROM PANEL ON EXTERIOR POWER POLE TO SUB-PANEL INSIDE HOME. THIS ALLOWS GROUNDING AND NEUTRALS CONDUCTORS TO BE ISOLATED PER NEC 250.24 (5) AND 250.142(B).
- d. BOND WIRE CONNECTING FRAMES OF ALL MULTI-SECTIONAL UNITS IS REQUIRED.
- e. WELL PUMP MUST HAVE DISCONNECT IN SIGHT, WITHIN 50'. PRESSURE SWITCH CANNOT BE USED AS DISCONNECT.
- f. SUBMERSIBLE PUMP METAL WELL CASING SHALL BE CONNECTED TO THE PUMP CIRCUIT EQUIPMENT GROUNDING CONDUCTOR. (NEC 2014, ARTICLE 250.112, (M)
- g. MULTI-SECTIONAL UNITS CHECK ELECTRIC CROSS OVERS FOR PROPER INSTALLATION PER MANUFACTURES SET UP MANUAL OR 15 C.

20. RETURN PLANS TO ORIGINAL LOCATION, SIGN AND DATE PERMIT CARD OR LEAVE CORRECTION NOTICE WITH ITEMS LISTED.

MOBILE HOME SKIRTING

CHECK FOR CRAWLSPACE ACCESS, VENTILATION AND ADEQUATE ATTACHMENT OF SKIRTING. ALL APPLICABLE CRAWLSPACE VENTILATION REQUIREMENTS APPLY TO SKIRTING.

CHECK FOR SITE DRAINAGE

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