



**SYMBOLS LEGEND**

- ⊕ 110 V DUPLEX OUTLET AT +16' - U.D.N. LAYOUT TO COMPLY WITH THE NEC.
- ⊕ 110 V HALF-SWITCHED OUTLET - U.D.N.
- ⊕ 220 V OUTLET
- ⊕ SINGLE POLE SWITCH (TDP AT 44' - U.D.N.)
- ⊕ 3-WAY SWITCH (TDP AT 44' - U.D.N.)
- ⊕ 4-WAY SWITCH (TDP AT 44' - U.D.N.)
- ⊕ CEILING FAN
- ⊕ CEILING FAN WITH LIGHT KIT
- 2-TUBE, 4' FLUORESCENT LIGHT STRIP
- 2-TUBE, 4' FLUORESCENT LIGHT STRIP W/ PLASTIC WRAP DIFFUSER
- WALL LIGHT FIXTURE
- CEILING LIGHT FIXTURE
- RECESSED CEILING FIXTURE WITH BLACK METAL TRIM
- ⊕ EXHAUST FAN
- ⊕ SMOKE DETECTOR - 3' MIN. FROM RETURN AIR, SUPPLY AIR DUCTS, AND BATH DOORS
- ⊕ CARBON MONOXIDE DETECTOR - 3' MIN. FROM RETURN AIR, SUPPLY AIR DUCTS, AND BATH DOORS
- ⊕ TELEVISION JACK AT +16' - U.D.N.
- ⊕ TELEPHONE JACK AT +16' - U.D.N.

**WHIRLPOOL & JACUZZI TUBS  
IRC P2720.0 ACCESS TO PUMP.**  
ACCESS SHALL BE PROVIDED TO CIRCULATION PUMPS IN ACCORDANCE WITH THE FIXTURE MANUFACTURERS INSTALLATION INSTRUCTIONS. WHERE THE MFG INSTRUCTIONS DO NOT SPECIFY THE LOCATION & MIN. SIZE OF A FIELD FABRICATED ACCESS DPNG, A 12"x12" MIN SIZE DPNG SHALL BE INSTALLED TO PROVIDE ACCESS TO THE CIRCULATION PUMP. WHERE PUMPS ARE LOCATED MORE THAN 2FT FROM THE ACCESS DPNG, 18"x18" MIN SIZE SHALL BE INSTALLED. INSTALLED TO PROVIDE ACCESS TO THE CIRCULATION PUMP.

**IRC E4109 HYDROMASSAGE BATHTUBS.**  
ALL ELECTRICAL INSTALLATIONS ASSOCIATED WITH HYDROMASSAGE, WHIRLPOOL OR JACUZZI TYPE BATHTUBS SUCH AS GROUND-FAULT CIRCUIT-INTERRUPTERS, LUMINAIRE, SWITCH AND RECEPTACLE LOCATION, EQUIPMENT ACCESS AND BONDING SHALL COMPLY. FABRICATED ACCESS DPNG, A 12"x12" MIN SIZE DPNG SHALL BE WITH THE PROVISIONS NOTED IN SECTION E4109.

**ELECTRICAL NOTES**

1. ALL HEATING AND VENTILATING EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH 2012 IRC. FURNACES AND WATER HEATERS SHALL BE SO INSTALLED THAT THEY CAN BE INDIVIDUALLY REMOVED WITHOUT REMOVING THE OTHER.
2. ELECTRICAL CONVENIENCE OUTLETS SHALL BE SO SPACED THAT NO POINT ALONG THE FLOOR LINE OF ANY WALL SPACED IS MORE THAN SIX FEET FROM AN OUTLET. SWITCH BOTTOM HALF OF ELECTRICAL OUTLETS ONLY UNLESS OTHERWISE NOTED, IN ALL ROOMS DESIGNATED ELECTRICAL OUTLETS IN BATHROOMS, GARAGES, OR OUTSIDE OF BUILDING SHALL BE PROTECTED WITH APPROVED GFCI.
3. G.F.C.I. REQUIRED ON ALL EXTERIOR, BATH GARAGE, AND COUNTER TOP RECEPTACLES WITHIN KITCHEN.
4. SMOKE DETECTOR TO BE PLACED 3' MIN. FROM RETURN AIR VENT, & PROVIDED WHERE CEILING HEIGHTS VARY BY 24" OR GREATER.
5. ELECTRICAL OUTLETS ARE TO BE PLACED @ COUNTER TOPS GREATER THAN 12". COUNTER TOPS SHALL HAVE (1) RECEPTACLE FOR EVERY 4'-0".
6. KITCHEN TO HAVE (2) 20 AMP. CIRCUITS EXCLUSIVE TO KITCHEN & DINING.
7. MICROWAVE TO HAVE A SEPARATE CIRCUIT (WHERE APPLICABLE)
8. LAUNDRY TO HAVE A SEPARATE 20 AMP. RECEPTACLE.
9. AN ELECTRICAL OUTLET IS REQUIRED @ KITCHEN/DINING ROOM COUNTER SPACES & PENINSULAS 12" OR WIDER. E3801.
10. PROVIDE RECEPTACLE IN HALLWAYS OVER 10 FEET. E3801.10.
11. OUTLET REQUIRED AT PENINSULA COUNTER SPACE 12 INCHES OR GREATER. E3801.4.3.
12. ALL HEAT PUMP & A.C. COMPRESSOR'S SHELL BE EQUIPPED WITH DISCONNECT & 120V OUTLET. E3802.
13. RECEPTACLES IN HABITABLE ROOMS SHALL BE SPACED SUCH THAT NO POINT ALONG THE FLOOR LINE IN ANY WALL SPACED IS MORE THAN 6 FEET FROM AN OUTLET. ANY WALL SPACE 2 FEET OR WIDER SHALL HAVE AN OUTLET. E3901.1.
14. GFCI REQUIRED IN ALL BATHROOMS, KITCHEN AT COUNTERTOPS, UNFINISHED BASEMENTS, GARAGES, AND OUTDOORS. E3902.
15. FIXTURES LOCATED IN DAMP OR WET LOCATIONS SHALL BE 'LISTED' TO BE SUITABLE FOR SUCH LOCATION. E4003.9.
16. BATHROOM RECEPTACLE OUTLETS SHALL BE SUPPLIED BY AT LEAST ONE 20-AMPERE BRANCH CIRCUIT. SUCH CIRCUITS SHALL BE SEPARATED FROM NON-BATHROOM RECEPTACLES. E3703.4.
17. OVEN/RANGE SHALL BE PROVIDED WITH A MINIMUM 40 AMPERE CIRCUIT. E3702.9.1.
18. PROVIDE 120 VOLT (GFCI) WITHIN 25 FEET OF OUTDOOR MECHANICAL EQUIPMENT. E3901.12.
19. SMOKE DETECTORS SHALL BE HARD WIRED WITH BATTERY BACK-UP. IRC/R313.2.
20. E3902.12 Arc-Fault circuit-interrupter protection.  
All branch circuits that supply 120-volt, single-phase, 15- and 20-ampere outlets installed in family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways and similar rooms or areas shall be protected by a combination type arc-fault circuit interrupter installed to provide protection of the branch circuit.  
Exception:  
1. Where an outlet branch-circuit type AFCI is installed at the first outlet to provide protection for the remaining portion of the branch circuit, the portion of the branch circuit between the branch-circuit overcurrent device and the first outlet shall be installed with metal outlet and junction boxes and RMC, IMC, EMT, type MC, or steel armored type AC cables meeting the requirements of Section E3908.2. Where an outlet branch-circuit type AFCI is installed at the first outlet to provide protection for the remaining portion of the branch circuit, the portion of the branch circuit between the branch-circuit overcurrent device and the first outlet shall be installed with metal or nonmetallic conduit or tubing that is encased in not less than 2 inches (51 mm) of concrete. AFCI protection is not required for an individual branch circuit supplying only a fire alarm system where the branch circuit is wired with metal outlet and junction boxes and RMC, IMC, EMT or steel-sheathed armored cable type AC, or type MC meeting the requirements of Section E3908.8.
21. E4001.11:1 FACE PLACE GROUNDING  
SNAP SWITCHES, INCLUDING DIMMER AND SIMILAR CONTROL SWITCHES, SHALL BE EFFECTIVELY GROUNDING AND SHALL PROVIDE A MEANS TO GROUND METAL FACE PLATES, WHETHER OR NOT METAL FACE PLATES ARE INSTALLED.
22. E4002.14 Tamper-resistant receptacles.  
In areas specified in Section E3901.1, 125-volt, 15- and 20-ampere receptacles shall be listed tamper-resistant.  
Exception Receptacles in the following locations shall not be required to be tamper resistant:  
1. Receptacles located more than 5.5 feet (1676 mm) above the floor.  
2. Receptacles that are part of a luminaire or appliance.  
3. A single receptacle for a single appliance or a duplex receptacle for two appliances where such receptacles are located in spaces dedicated for the appliances served and, under conditions of normal use, the appliances are not easily moved from one place to another. The appliances shall be cord-and-plug-connected to such receptacles in accordance with Section E3909.4.
23. R315.1 Carbon monoxide alarms.  
For new construction, an approved carbon monoxide alarm shall be installed outside of each separate sleeping area in the immediate vicinity of the bedrooms in dwelling units within which fuel-fired appliances are installed and in dwelling units that have attached garages.

**MECHANICAL NOTES**

1. PRESSURE TEMPERATURE RELIEF VALVE REQUIRED FOR WATER HEATERS
2. CLOTHES DRYER EXHAUST LENGTH IDENTIFICATION: WHERE THE DRYER EXHAUST DUCT IS CONCEALED WITHIN THE BUILDING CONSTRUCTION, THE EQUIVALENT LENGTH OF THE EXHAUST DUCT SHALL BE IDENTIFIED ON THE PERMANENT LABEL OR TAG. THE LABEL OR TAG SHALL BE LOCATED WITHIN 6 FT. OF THE EXHAUST DUCT CONNECTION. THE LABEL OR TAG SHALL INDICATE THE TOTAL LENGTH AND TOTAL NUMBER OR 90 DEGREE AND 45 DEGREE TURNS OF THE DRYER EXHAUST SYSTEM. THE OWNER AND/OR THE SUPPLIER SHALL VERIFY THAT ANY NEW OR REPLACEMENT DRYER MEETS THE EXHAUST SPECIFICATIONS SHOWN. IRC M1502.4.5 MODIFIED.

REVISIONS	
DATE	BY

NOTE: THESE PLANS ARE STRICTLY DIAGRAMMATIC. They are merely a guide and are not to be used as a representation or reflection of that which the customer has purchased or is entitled to receive. The contractor shall be responsible for the accuracy of all dimensions and engineering requirements are the responsibility of the subcontractors, suppliers and the general contractor. These plans are for the sole use of the contractor and are not to be used for the distribution to, or use by, the customer, buyer or property owner.

**2900 AMIGO DRIVE  
22115-5-36  
LAKE HAVASU CITY, AZ**

**ADVANCED CONSTRUCTION CO., INC.**  
ADVANCED HOMES, INC.  
GENERAL CONTRACTORS  
RESIDENTIAL & COMMERCIAL • 91-1474  
928 855-6370  
www.advancedaz.com

ELECTRICAL PLAN	

DRAWN	RJB
CHECKED	
DATE	9.23.20
SCALE	1/4"=1'-0"
JOB NO.	
SHEET	
A4	