

ELECTRICAL GENERAL NOTES

1. ALL WORK IN THIS DIVISION SHALL COMPLY WITH ALL LOCAL BUILDING CODES, LAWS, REGULATIONS, ORDINANCES AND THE REQUIREMENTS OF THE 2015 IECC WITH AMENDMENTS AND THE NEC LATEST EDITION WITH AMENDMENTS.
2. THE CONTRACTOR SHALL KEEP A RECORD OF ANY CHANGES WHICH ARE IN CONFLICT WITH THESE DRAWINGS AND SPECIFICATIONS. AT THE COMPLETION OF HIS WORK HE SHALL SUBMIT "AS BUILT" DOCUMENTS TO THE OWNER.
3. THESE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND DO NOT NECESSARILY SHOW EVERY COMPONENT, FITTING AND DETAIL FOR A COMPLETE AND FUNCTIONING PROJECT.
4. ALL WORK SHALL BE INSTALLED SO THAT JUNCTION BOXES AND COMPONENTS WILL BE ACCESSIBLE FOR SERVICE.
5. ALL SYSTEMS, EQUIPMENT, COMPONENTS, WORK, ETC. PROVIDED UNDER THIS DIVISION SHALL BE COVERED BY A ONE-YEAR GUARANTEE STARTING AT THE TIME OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER. ANY DEFECTS IN THE WORK, SYSTEMS, EQUIPMENT OR COMPONENTS FOUND DURING THIS YEAR SHALL BE CORRECTED AT NO CHARGE. THE GUARANTEE SHALL INCLUDE PROVIDING ALL NECESSARY CUTTING, PATCHWORK, REPAINTING, ETC. TO MAKE THE WORK COMPLETE AND NEW.
6. ALL CONDUIT SHALL BE CONCEALED IN THE WALLS, UNDERFLOOR OR ABOVE THE CEILING AS MUCH AS POSSIBLE UNLESS OTHERWISE NOTED OR SHOWN. MINIMUM CONDUIT SIZE IS 3/4" UNLESS NOTED OTHERWISE.
7. ALL CONDUCTORS SHALL BE COPPER WITH TYPE "THW" OR "THHN" INSULATION. THE MINIMUM WIRE SIZE SHALL BE #12AWG WITH A 75° C TEMPERATURE RATING.
8. ALL WORK MUST BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER ACCORDING TO GENERALLY ACCEPTED PRINCIPALS OF FIRST CLASS WORKMANSHIP.
9. ALL ROOF PENETRATIONS SHALL BE PERFORMED BY GENERAL CONTRACTOR. MAINTAIN ROOF WATERTIGHT INTEGRITY. COORDINATE WITH OWNER.
10. FASTEN ALL RECESSED LIGHTING FIXTURES TO STRUCTURE OR GRID PER N.E.C. 410.10 & 410.36.
11. DUPLEX RECEPTACLES SHALL BE PLASTIC, TWO-POLE, THREE WIRE, SELF-GROUNDING, SIDE-WIRED, 125 VOLTS AND 20A RATED, UNLESS NOTED OTHERWISE. COLOR TO BE SPECIFIED BY ARCHITECT UNLESS OTHERWISE NOTED.
12. ALL PENETRATIONS THRU FIRE RATED WALLS, FLOORS AND CEILINGS SHALL BE FIRE STOPPED PER N.E.C. 300-21.
13. PROVIDE ALL GROUNDING AS REQUIRED BY N.E.C.
14. ALL WALL MOUNTED SWITCHES FOR FANS, LIGHTS, ETC. WHICH ARE SHOWN TO BE MOUNTED IN THE SAME GENERAL AREA SHALL SHARE A MULTI-GANG COVER PLATE AS REQUIRED.
15. PROVIDE A TYPE-WRITTEN PANEL DIRECTORY CARD FOR ALL PANELS MODIFIED DURING CONSTRUCTION. HAND LETTERED DIRECTORY CARDS WILL NOT BE ACCEPTED. DIRECTORY INFORMATION SHALL INDICATE 'AS-INSTALLED' BRANCH CIRCUIT ASSIGNMENTS AND ALL SPARES AND SPACES.
16. PROVIDE #12AWG GROUND FOR ALL MECHANICAL EQUIPMENT UNLESS SHOWN OTHERWISE. ALL EQUIPMENT SHALL BE GROUNDED AT THE PANEL WHICH FEEDS THE EQUIPMENT.
17. COORDINATE RECEPTACLE NEMA TYPE AND VOLTAGE OF EQUIPMENT WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH IN.
18. PROVIDE A SEPARATE GREEN, INSULATED, #12AWG EQUIPMENT GROUNDING CONDUCTOR ROUTED WITH THE BRANCH CIRCUIT HOMERUN CONDUCTORS.
19. PROVIDE SEPARATE, DEDICATED GROUND AND NEUTRAL CONDUCTORS FOR ALL POS EQUIPMENT. DO NOT SHARE THESE CONDUCTORS WITH OTHER NON-POS BRANCH CIRCUITS.
20. PROVIDE A JUNCTION BOX WITH A 3/4" CONDUIT STUBBED UP TO ABOVE ACCESSIBLE CEILING IN KITCHEN FOR ALL DATA AND TELEPHONE OUTLETS. PROVIDE PULL STRING WITH LINEN I.D. TAG INDICATING POINT OF ORIGIN AND BUSHING ON CONDUIT AT THE TERMINATION ABOVE ACCESSIBLE CEILING.
21. ARMORED CABLE MAY BE USED IN WALLS AND MILLWORK AND MUST BE "MC" TYPE (WITH GROUND). VERIFY INSTALLATION WITH AHJ PRIOR TO ROUGH-IN.
22. CONTRACTOR SHALL CLEAN SITE AT END OF PROJECT. ALL DUST, DEBRIS, OILS, SPRAYS, FINGERPRINTS, AND LABELS SHALL BE REMOVED FROM ALL EXPOSED FINISHED SURFACES. ELECTRICAL AND TELEPHONE ROOM FLOORS ARE TO BE SWEEPED, MOPPED, AND REPAINTED AS REQUIRED.
23. ALL LAY IN TYPE LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING SYSTEM.
24. 20 AMP BRANCH CIRCUIT HOME RUNS EXCEEDING 75 LINEAR FEET FROM THE PANEL BOARD SHALL UTILIZE #10 CONDUCTORS IN 3/4"CONDUIT, MINIMUM.
25. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES, AND RECEPTACLES UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS AND FINAL CONNECTIONS TO ALL EQUIPMENT PROVIDED BY SUPPLIERS.
26. ELECTRICAL EQUIPMENT SHALL BE INSTALLED SUCH THAT REQUIRED NEC SERVICE CLEARANCES ARE MET.
27. TELEPHONE EQUIPMENT SHALL BE GROUNDED PER NEC.
28. PROVIDE A 200# PULLSTRING WITH LINEN I.D. TAG INDICATING POINT OF ORIGIN IN ALL EMPTY CONDUIT.
29. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND VERIFY THE ELECTRICAL SERVICE ARRANGEMENTS WITH THE LOCAL POWER COMPANY AND PROVIDE THE NECESSARY EQUIPMENT FOR A COMPLETE INSTALLATION.
30. CIRCUIT BREAKERS AND PANELBOARDS SHALL BE RATED TO WITHSTAND THE MAXIMUM AVAILABLE FAULT CURRENT AT THE SITE AS DETERMINED BY FAULT CURRENT ANALYSIS STUDY AND COORDINATION WITH THE LOCAL UTILITY COMPANY.
31. ALL BUILDING SYSTEM GROUND RODS SHALL BE BONDED TOGETHER TO FORM A SINGLE GROUNDING SYSTEM PER NEC 250.
32. MC CABLE OR FLEX CONDUIT IS PERMITTED FOR FINAL CONNECTIONS TO EQUIPMENT AND IS LIMITED TO MAXIMUM LENGTH OF 72". REFER TO NOTE #19 ABOVE.
33. COORDINATE HOOD ELECTRICAL CONNECTIONS WITH HOOD MANUFACTURER.
34. BATTERY BACK-UP LIGHTING FIXTURES SHALL PROVIDE LUMEN OUTPUT TO MEET NFPA 101 ILLUMINATION REQUIREMENTS.
35. SEE ARCHITECTURAL DETAILS AND ELEVATIONS FOR DEVICES TO BE MOUNTED HORIZONTALLY.
36. REFERENCE ARCHITECTURAL PLANS FOR COLOR/FINISH OF ALL FIXTURES, DEVICES, ETC.

ELECTRICAL SYMBOLS LEGEND

		NOT ALL SYMBOLS NECESSARILY USED	
SYMBOL	DESCRIPTION	ON CENTER MTG. HT.	
	WALL MOUNTED SIMPLEX RECEPTACLE	SEE PLANS	
	WALL MOUNTED DUPLEX RECEPTACLE	18" UNO	
	WALL MOUNTED ISOLATED GROUND DUPLEX RECEPTACLE	18" UNO	
	WALL MOUNTED G.F.C.I. DUPLEX RECEPTACLE	18" UNO	
	WALL MOUNTED DUPLEX RECEPTACLE WITH (2) USB PORTS	18" UNO	
	WALL MOUNTED DOUBLE DUPLEX RECEPTACLE	18" UNO	
	WALL MOUNTED SPECIAL RECEPTACLE	18" UNO	
	FLUSH MOUNTED DUPLEX RECEPTACLE – SPECIFIED ON PLANS	AS REQUIRED	
	ABOVE CEILING JUNCTION BOX – SIZE AS REQUIRED	PER PLANS	
	WALL MOUNTED JUNCTION BOX – SIZE AS REQUIRED	18" UNO	
	WALL MOUNTED TELEPHONE OUTLET–PLASTER RING AND STRING U.N.O.	18" UNO	
	WALL MOUNTED DATA OUTLET–PLASTER RING AND STRING U.N.O.	18" UNO	
	FLUSH FLOOR MOUNTED DATA/TELEPHONE COMBINATION OUTLET	FLOOR	
	TV CABLE OUTLET	PER PLANS	
	PANEL BOARD with WORKING CLEARANCES	AS REQUIRED	
	MAIN DISTRIBUTION PANEL OR MAIN SWITCH BOARD	AS REQUIRED	
	WALL MOUNTED TOGGLE SWITCH	48" AFF	
	WALL MOUNTED ON/OFF 3-WAY TOGGLE SWITCH	48" AFF	
	WALL MOUNTED VACANCY SENSOR SWITCH	48" AFF	
	WALL MOUNTED OCCUPANCY SENSOR SWITCH	48" AFF	
	WALL MOUNTED DIMMER SWITCH (600W. U.N.O.)	48" AFF	
	NON–FUSED DISCONNECT SWITCH (FRAME/POLES/NEMA RATING)	AS REQUIRED	
	FUSED DISCONNECT SWITCH (FRAME/POLES/FUSES/NEMA RATING)	AS REQUIRED	
	FIRE ALARM PULL STATION	42" AFF	
	FIRE ALARM ANNUNCIATION DEVICE–WALL MOUNTED	84" AFF	
	CEILING MOUNT HORN/STROBE	CEILING	
	FIRE ALARM CONTROL PANEL		
	FIRE ALARM ANNUNCIATION PANEL		
	DOOR/WINDOW CONTACT SWITCH	AS REQUIRED	
	PANIC BUTTON	VARIES	
	CEILING MOUNTED OCCUPANCY SENSOR	CEILING	
	SMOKE DETECTOR	CEILING	
	CEILING MOUNTED DAYLIGHT SENSOR		
	DUCT MOUNTED SMOKE DETECTOR	SEE MECH.	
	WALL MOUNTED TEMPERATURE SENSOR/THERMOSTAT	SEE MECH.	
	ANSUL PULL STATION	42" AFF	
	BELL ANNUNCIATOR	78" AFF	
	BUZZER ANNUNCIATOR	78" AFF	
	WALL MOUNTED PUSH BUTTON	48" AFF	
	CCTV SECURITY CAMERA	CEILING	
	LOW VOLTAGE TRANSFORMER – SPECIFIED ON PLANS	VARIES	
	PLYWOOD BACKBOARD		

ABBREVIATIONS		
ABV CTR	6" ABOVE COUNTERTOP	
GFCI	GROUND FAULT CIRCUIT INTERRUPTING	
GFEP	GROUND FAULT EQUIPMENT PROTECTION	
AFF	ABOVE FINISHED FLOOR	
WP	WEATHER PROOF	
IG	ISOLATED GROUND	
NL	NIGHT LIGHT	
EM	EMERGENCY	
UNO	UNLESS NOTED OTHERWISE	
AHJ	AUTHORITY HAVING JURISDICTION	

ELECTRICAL DEVICE MOUNTING HEIGHT NOTE:

1. SEE "MOUNTING HEIGHT ELEVATION DETAIL" IN ARCHITECTURAL PLANS FOR ADDITIONAL DETAILS REGARDING DEVICE MOUNTING HEIGHTS. ALL MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL PLANS TAKE PRECEDENCE OVER THOSE INDICATED ON THE ELECTRICAL PLANS.

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MEASUREMENTS SHOWN are to finish face of a material unless otherwise indicated. OBTAIN & MEASURE dimensions – DO NOT SCALE drawings unless otherwise directed.

project title