ELECTRICAL SYMBOLS LEGEND HOME RUN TO PANEL. CIRCUIT NUMBERS, PHASE, NEUTRAL, AND GROUND CONDUCTORS INDICATED ALONG WITH ISOLATED GROUND CONDUCTOR IF APPLICABLE. PARTIAL CIRCUIT. CONDUIT INSTALLED CONCEALED ABOVE CEILING OR IN WALL. CONDUIT INSTALLED CONCEALED BELOW FLOOR SLAB OR UNDERGROUND. GROUND CONNECTION. SINGLE POLE SWITCH, +3'-10" OR AS NOTED. THREE-WAY SWITCH, +3'-10" OR AS NOTED. KEY OPERATED SWITCH, +3'-10" OR AS NOTED. WEATHERPROOF TOGGLE SWITCH, +3'-10" OR AS NOTED. SINGLE POLE SWITCH WITH PILOT LIGHT, +3'-10" OR AS NOTED. Hos WALL MOUNTED OCCUPANCEY SENSOR, +3'-10" OR AS NOTED. CEILING MOUNTED OCCUPANCY SENSOR. CEILING MOUNTED INTERIOR DAYLIGHT HARVESTING PHOTOCELL SENSOR. POWER PACK, INSTALLED ABOVE ACCESSIBLE CEILING. \ominus SIMPLEX RECEPTACLE, +18" OR AS NOTED. ISOLATED GROUND SIMPLEX RECEPTACLE, +18" OR AS NOTED. \Rightarrow DUPLEX RECEPTACLE, +18" OR AS NOTED. ISOLATED GROUND DUPLEX RECEPTACLE, +18" OR AS NOTED. QUADRUPLEX RECEPTACLE +18" OR AS NOTED. ISOLATED GROUND QUADRUPLEX RECEPTACLE, +18" OR AS NOTED. GROUND FAULT INTERRUPTING RECEPTACLE, +18" OR AS NOTED. WP WP WP WEATHERPROOF GROUND FAULT INTERRUPTING RECEPTACLE, +18" OR AS NOTED. $\stackrel{s}{\rightarrow}\stackrel{s}{\Rightarrow}\stackrel{s}{=}$ SURGE PROTECTED RECEPTACLE, +18" OR AS NOTED. RECEPTACLE INSTALLED HORIZONTALLY AT +18" OR AS NOTED. $\oplus \oplus \equiv$ RECEPTACLE INSTALLED HORIZONTALLY, BOTTOM AT +6" ABOVE COUNTER TOP. RECEPTACLE INSTALLED FLUSH IN CEILING. ISOLATED GROUND RECEPTACLE INSTALLED FLUSH IN CEILING. \Rightarrow SPECIAL RECEPTACLE, NEMA STYLE AS NOTED, +18" OR AS NOTED. FLUSH FLOOR MOUNTED RECEPTACLE, LETTER INDICATES TYPE. \bigcirc JUNCTION BOX. DISCONNECT SWITCH, TOP AT +6'-0" OR AS NOTED. DISCONNECT SWITCH PROVIDED WITH EQUIPMENT. EXTERIOR PHOTOCELL, INSTALLED ON ROOF FACING NORTH. CONTROL OR POWER RELAY, INSTALLED AS NOTED. PUSHBUTTON, TOP AT +4'-6" OR AS NOTED. ⟨CH⟩ DOOR BELL CHIMEM, +8'-0" OR AS NOTED. TR CONTROL TRANSFORMER, INSTALLED AS NOTED. THERMOSTAT, TEMPERATURE SENSOR, CARBON DIOXIDE SENSOR AND HUMIDISTAT MECHANICAL CONTRACTOR, +3'-10" OR AS NOTED. ELECTRICALLY OPERATED DAMPER, PROVIDED BY MECHANICAL CONTRACTOR. 120 VOLT DUCT TYPE SMOKE DETECTOR, PROVIDED BY MECHANICAL CONTRACTOR. SCP SECURITY SYSTEM CONTROL PANEL, TOP AT 6'-0". KEPYAD, +46" OR AS NOTED. SECURITY CAMERA. MOTION DETECTOR, CEILING MOUNTED. DOOR CONTACTS. TRANSFORMER, FLOOR MOUNTED OR SUSPENDED FROM STRUCTURE AS NOTED. BRANCH CIRCUIT PANELBOARD, TOP AT +6'-0" OR AS NOTED. DISTRIBUTION PANEL, TOP AT +6'-0" OR AS NOTED. PLYWOOD PHONEBOARD, INSTALLED AS NOTED. TELEPHONE/DATA OUTLET, +18" WITH 1" CONDUIT TO ABOVE CEILING. TELEPHONE/DATA OUTLET, +6" WITH ABOVE COUNTER WITH 1" CONDUIT TO ABOVE CEILING. GENERAL REFERENCES/NOTATIONS: MOUNT DEVICE +6" ABOVE TOP OF COUNTER TO BOTTOM OF DEVICE. +48" MOUNTING HEIGHT ABOVE FINISHED FLOOR TO CENTERLINE OF DEVICE. 03/E5 DETAIL OR SECTION REFERENCE. FOODSERVICE EQUIPMENT DESIGNATION. REVISION DESIGNATION. EQUIPMENT DESIGNATION. **ABBREVIATIONS:** ABOVE FINISHED FLOOR/GRADE. NATIONAL ELECTRICAL CODE. AFF/AFG NATIONAL FIRE PROTECTION ASSOCIATION. AUTHORITY HAVING JURISDICTION. NFPA BUILDING AUTOMATION SYSTEM. NIGHT LIGHT. DNR DEPARTMENT OF NATURAL RESOURCES. NF NON-FUSED. ELECTRICAL CONTRACTOR. PUBLIC ADDRESS. EM **EMERGENCY** PLUMBING CONTRACTOR. ETR EXISTING TO REMAIN. SURGE PROTECTION DEVICE. FA FIRE ALARM. FIRE PROTECTION CONTRACTOR. UNDERWRITERS LABORATORIES. **FSEC** FOOD SERVICE EQUIPMENT CONTRACTOR. UNO UNLESS NOTED OTHERWISE. UNINTERRUPTIBLE POWER SUPPLY. GENERAL CONTRACTOR. MECHANICAL CONTRACTOR. WEATHERPROOF. <u>SYMBOLS LEGEND NOTES:</u> 1. REFER TO LIGHT FIXTURE SCHEDULE FOR SPECIFICATION AND INFORMATION ON ALL LUMINAIRES.

ELECTRICAL GENERAL NOTES

- INCLDUE ALLOWANCE FOR UNFORSEEN CONDITIONS THAT MAY EFFECT THE SCOPE OF WORK. MINOR DEVIATIONS REQUIRED FOR ACCOMPLISHING THE INTENT OF THIS DESIGN ARE TO BE INCLUDED IN THIS ALLOWANCE.
- ELECTRICAL DESIGN HAS BEEN BASED ON THE INSTALLATION OF 75°C CONDUCTORS CONNECTED TO TERMINAL LUGS AND EQUIPMENT U.L. LISTED FOR A MINIMUM 75°C CONDUCTORS TERMINATED ON EQUIPMENT WITH A LOWER RATING 60°C) OR NO RATING SHOWN TO HAVE CONDUCTOR SIZE INCREASED TO CONFORM TO ADOPTED ELECTRICAL CODE AND UL/CUL NO. 489 REQUIREMENTS
- CONDUIT INSTALLED INDOORS SHALL BE ELECTRICAL METALLIC TUBING (EMT), MINIMUM 1/2" OR AS NOTED.
- CONDUIT INSTALLED BELOW SLAB SHALL BE RIGID STEEL, IMC, PVC OR HDPE, MINIMUM 3/4". IF PVC OR HDPE IS USED. TRANSITION TO RIGID STEEL BEFORE TURNING UP AND PENETRATING FLOOR SLAB.
- CONDUCTORS SHALL BE A MINIMUM OF #12 THHN/THWN COPPER UNLESS NOTED OTHERWISE ON PLANS OR IN SPECIFICATIONS, BRANCH CIRCUITS SHALL BE PROVIDED WITH (2) #12 CONDUCTORS AND (1) #12 EQUIPMENT GROUND CONDUCTOR UNLESS NOTED OTHERWISE.
- BRANCH CIRCUITS SHOWN WITH TWO GROUNDING CONDUCTORS SHALL HAVE ONE EQUIPMENT GROUND CONDUCTOR (GREEN) AND ONE ISOLATED GROUND CONDUCTOR (GREEN W/ YELLOW STRIP) INSTALLED IN RACEWAY.
- DIRECT CURRENT WIRING SHALL BE (2) #10 IN 1/2" CONDUIT UNLESS NOTED
- CONTROL VOLTAGE WIRING SHALL BE PLENUM RATED OR INSTALLED IN CONDUIT.
- PROVIDE FLEXIBLE CONNECTIONS ONLY FOR FINAL CONNECTION TO EQUIPMENT, 6'-0" MAXIMUM LENGTH. PROVIDE LIQUID TIGHT FLEXIBLE EQUIPMENT, 6'-0" MAXIMUM LENGTH. PROVIDE LIQUID TIGHT FLEXIBLE CONNECTION AT EXTERIOR LOCATIONS AND WHERE EXPOSURE TO MOISTURE IS POSSIBLE.
- 10 ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A PULL WIRE.
- 1 ALL RACEWAYS HALL CONTAIN A GROUNDING ELECTRODE SIZED PER THE ADOPTED
- COORDINATE WORK ABOVE THE CEILING WITH OTHER TRADES TO PROVIDE THE GREATEST POSSIBLE CLEARANCE. CONDUIT RUNS SHALL BE RUN THROUGH
- VERIFY EXACT PLACEMENT OF ALL DEVICES SHOWN ON THE CONSTRUCTION DOCUMENTS PRIOR TO FINAL PLACEMENT.
- ALL PANELBOARDS SWITCHBOARDS AND LINE VOLTAGE CONTROL EQUIPMENT SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL FLECTRIC ARC FLASH HAZARDS, MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTING, SERVICING OR MAINTENANCE OF EQUIPMENT. MARKING SHALL BE SLEF ADHESIVE, COMMERCIAL LABEL CONFORMING TO ADOPTED CODES.
- LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS LOCATED NO HIGHER THAN 48" AND NO LOWER THAN 15" ABOVE THE FLOOR. IF THE REACH IS OVER AN OBSTRUCTION BETWEEN 20" AND 25" IN DEPTH. THE MAXIMUM HEIGHT IS TO BE REDUCED TO 44" FOR FORWARD APPROACH OR 46" FOR SIDE APPROACH, PROVIDED THE OBSTRUCTION IS NO MORE THAN 24" IN DEPTH. OBSTRUCTIONS SHALL NOT EXTEND MORE THAN 25" FROM THE WALL BENEATH A CONTROL.
- TERMS: SHALL ACTION THAT IS REQUIRED WITHOUT OPTION OR QUALIFICATION. FURNISH - CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING. INSTALL -CONTRACTOR SHALL BE RESPONSIBLE FOR LABOR AND CONSTRUCTION EQUIPMENT NECESSARY TO SET IN PLACE, CONNECT, CALIBRATE AND/OR TEST EQUIPMENT FURNISHED BY HIM OR OTHERS. PROVIDE - CONTRACTOR SHALL FURNISH AND

REMODEL GENERAL NOTES

- ALL EXISTING EQUIPMENT, WIRING DEVICES, LIGHTS, CONDUIT, WIRING, CIRCUITING, ETC. NOT DISTURBED BY NEW CONSTRUCTION WORK SHALL BE MANTAINED AND UNDAMAGED. THESE DEVICES, IF SHOWN, ARE SHOWN FOR INFORMATION PURPOSES ONLY. VISIT THE JOB SITE TO VERIFY ALL EXISTING CONDITIONS AND FAMILIARIZE THEMSELVES WITH ALL WORK TO BE DONE AT THE JOB SITE. FAILURE TO DO SO SHALL NOT RELIEVE CONTRACTOR OF THE RESPONSIBILITY FOR PERFORMING ALL WORK NECESSARY TO PROVIDE A WORKMANLIKE INSTALLATION.
- EXISTING SERVICES (ELECTRICAL, FIRE ALARM, ETC.) SHALL NOT BE INTERRUPTED WITHOUT PRIOR SCHEDULING OF SUCH OUTAGES WITH THE OWNER, ARCHITECT, AND ALL OTHER PARTIES INVOLVED.
- MAINTAIN ACCURATE RECORDS OF ALL MODIFICATIONS TO EXISTING SYSTEMS WHICH ARE TO REMAIN. DELIVER ALL "RECORD" DRAWINGS TO THE OWNER INDICATING SUCH CHANGES.
- DISCONNECT AND LABEL ABANDONED FEEDERS AND CIRCUITS.
- REMOVE ALL EXPOSED CONDUITS, CONDUITS ABOVE LAY-IN CEILINGS, OR EQUIPMENT WHICH IS ABANDONED.
- WHERE NEW WORK INTERFERES WITH CIRCUITS IN ROOMS OTHERWISE UNDISTURBED, EXISTING CIRCUITS SHALL BE REWORKED AS REQUIRED TO MAINTAIN
- ALL EQUIPMENT, FIXTURES, PANELBOARDS, CONDUIT AND WIRING THAT ARE REMOVED SHALL BE REMOVED FROM THE JOB SITE, UNLESS DIRECTED OTHERWISE BY THE ARCHITECT OR OWNER'S REPRESENTATIVE.
- EXISTING ROUGH-IN BOXES AND CONDUIT MAY BE UTILIZED IF THEY ARE OF PROPER SIZE AND IN SUITABLE LOCATION(S) FOR NEW CONSTRUCTION. DEVICES AND WIRING
- CIRCUIT ROUTINGS SHOWN IN REMODELED AREAS MAY BE MODIFIED TO SUIT FIELD CONDITIONS, KEEP DEVICES AND/OR FIXTURE CIRCUITS APPROXIMATELY AS INDICATED TO LIMIT VOLTAGE DROP OF FEEDER AND BRANCH CIRCUITS.
- VERIFY THE LOCATION AND CONDITION OF ALL EXISTING UTILITIES AND PROTECT DURING THE COURSE OF THEIR WORK EXISTING UTILITIES. BUILDING MATERIALS AND ANY ASSOCIATED ITEMS WHICH ARE DAMAGED BY CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE (IN A TIMELY MANNER) AND TO THE OWNER'S APPROVAL
- COORDINATE THE REMOVAL OR RELOCATION OF ALL MECHANICAL AND PLUMBING EQUIPMENT. DISCONNECT AND REMOVE ALL ELECTRICAL POWER AND CONTROL CIRCUITS FOR EQUIPMENT BEING REMOVED OR RELOCATED. EXISTING CONDUIT AND ROUGH-IN MAYBE USED FOR RELOCATED OR NEW EQUIPMENT. ALL CONDUCTORS SHALL BE NEW.
- REMOVE ALL EXISTING DATA, TELEPHONE, FIRE ALARM CABLING AND ANY OTHER LOW VOLTAGE WIRING THAT ARE NOT TO BE USED.
- DESIGN IS BASED ON FIELD INFORMATION. AS-BUILT DRAWINGS AND OWNER FURNISHED INFORMATION. VERIFY ACCURACY OF ALL EXISTING CONDITIONS. IN CASE OF DISCREPANCY, PROVIDE ALL NECESSARY CONDUIT, WIRE, BOXES, FITTINGS ETC. FOR A COMPLETE OPERATING ELECTRICAL SYSTEM. ENTIRE INSTALLATION TO COMPLY WITH SPECIFICATIONS AND ADOPTED ELECTRICAL CODE.

THIS SHEET IS PART OF THE CONSTRUCTION DOCUMENTS. DRAWINGS, SPECIFICATIONS AND OTHER SHEETS APPLY AND NEED TO BE REVIEWED IN TOTAL. ITEMS SHOWN ARE FOR DIAGRAMMATIC REPRESENTATION AND MAY NOT BE RELIED ON OR USED AS SHOP DRAWINGS. PROVIDE ALL MODIFICATIONS REQUIRED TO CONFORM TO SITE CONDITIONS, EQUIPMENT AND MATERIAL USED. VERIFY LOCATIONS AND DIMENSIONS OF ALL ARCHITECTURAL AND STRUCTURAL ELEMENTS PER THEIR RESPECTIVE DOCUMENTS, AS THESE ELEMENTS ARE SHOWN ONLY FOR REFERENCE, AND REQUIRE VERIFICATION PRIOR TO FABRICATION OR CONSTRUCTION. ENGINEER HAS NO LIABILITY



FOR THE ACCURACY OF THESE ASSOCIATED ELEMENTS, OR FOR

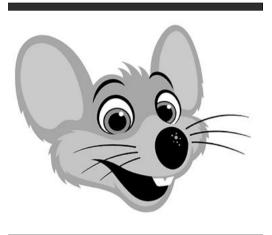
ANY WORK THE ENGINEER HAS NOT SIGNED AND SEALED.

310 W 20th Street, Suite 200 Kansas City, MO 64108 Tennessee Certificate of

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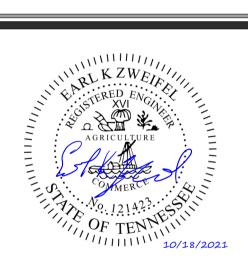
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No.	Description	Date

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LEGEND & KEYNOTES



REFER TO SPECIFICATIONS AND PLAN NOTES FOR DETAILED DESCRIPTION OF ALL DEVICES SHOWN IN THIS SCHEDULE, PROVIDED BY THIS 3. MOUNTING HEIGHTS INDICATED ARE MEASURED FROM FINISHED FLOOR TO THE CENTERLINE OF THE DEVICE UNLESS NOTED OTHERWISE.