

SYMBOLS LEGEND

Table with columns: SYMBOL, DESCRIPTION, SPECIFICATIONS. Includes sections for LIGHTING and POWER.

COMMUNICATIONS

Table with columns: SYMBOL, DESCRIPTION, SPECIFICATIONS. Includes sections for DATA OUTLET WALL & FLOOR MTD., WIRELESS ACCESS POINT (ROUTER), BUZZER CHIME, BUZZER SYSTEM PUSHBUTTON, APHONE SYSTEM DOOR STATION, APHONE SYSTEM WALL MOUNT INTERCOM.

FIRE ALARM

Table with columns: SYMBOL, DESCRIPTION, SPECIFICATIONS. Includes sections for AUDIO/VISUAL FIRE ALARM, VISUAL STROBE FIRE ALARM, MANUAL PULL STATION, FIRE ALARM SPEAKER, AREA SMOKE DETECTOR, AREA HEAT DETECTOR, DUCT MOUNTED SMOKE DETECTOR, FIRE ALARM PANEL, FIRE ALARM EXTENSION PANEL, FIRE ALARM PANEL REMOTE ANNUNCIATOR, MONITOR MODULE, CONTROL MODULE, HOOD FIRE SUPPRESSION SYSTEM RELAY, SUPERVISORY SWITCH, TAMPER SWITCH, WATER FLOW SWITCH, MOTORIZED SMOKE FIRE DAMPER, FIREMAN'S PHONE JACK, WALL MOUNTED AREA OF REFUGE BUTTON.

ABBREVIATIONS

Table of abbreviations: A. AMPERE, AC. ABOVE COUNTER, AFF. ABOVE FINISHED FLOOR, AIC. AMP INTERRUPTING CAPACITY, A/V. AUDIO VISUAL, ATS. AUTOMATIC TRANSFER SWITCH, BLDG. BUILDING, C. CONDUIT, CKT. CIRCUIT, CM. CONTROL MODULE, COA. CITY OF AUSTIN, CONN. CONNECT OR CONNECTION, CT. CURRENT TRANSFORMER, DIM. DIMENSION, EA. EACH, EC. ELECTRICAL CONTRACTOR, EF. EXHAUST FAN, ELEC. ELECTRICAL, EMER. EMERGENCY, EPO. EMERGENCY POWER OFF, EWC. ELECTRIC WATER CLOSET, FACP. FIRE ALARM CONTROL PANEL, FLA. FULL LOAD AMP, FS. FLOW SWITCH, FSD. FIRE SMOKE DAMPER, GFI. GROUND FAULT INTERRUPTER, GND. GROUND, HOA. HAND-OPERATED AUTO, HP. HORSEPOWER, HPS. HIGH PRESSURE SWITCH, HTR. HEATER, IG. ISOLATED GROUND, J-BOX. JUNCTION BOX, KCM. THOUSAND CIRCULAR MILLS, LOTO. LOCK OUT TAG OUT, LTG. LIGHT OR LIGHTING, MCB. MAIN CIRCUIT BREAKER, MCC. MOTOR CONTROL CENTER, MCP. MOTOR CIRCUIT PROTECTOR, MIP. MINIMUM, MH. METAL HALIDE, MLO. MAIN LUGS ONLY, MRS. MOTOR RATED SWITCH, MSB. MAIN SWITCH BOARD, MTD. MOUNTED, MTS. MAIN TRANSFER SWITCH, MV. MEDICAL VOLTAGE, NY. NOT IN CONTRACT, NIS. NOT TO SCALE, OL. OVERLOAD, OF. OVER HEAD ELECTRIC, P.S. PULL STRING, P.S. RECEPTACLE, RGS. RIGID GALVANIZED STEEL, SPD. SURGE PROTECTION DEVICE, TS. TAMPER SWITCH, TTB. TELEPHONE TERMINAL BOARD, TVSS. TRANSIENT V. SURGE SUPPRESSER, TYP. TYPICAL, UG. UNDERGROUND, UNO. UNLESS NOTED OTHERWISE, V. VOLTAGE, WH. WATER HEATER, WP. WEATHER PROOF, WR. WEATHER RATED, XFMR. TRANSFORMER.

FIRE ALARM GENERAL NOTES:

- 1. TENANT FIRE ALARM SYSTEM SHALL BE PROVIDED BY BIDDER DESIGN SUB-CONTRACTOR AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR. SEE SPECIFICATIONS FOR GENERAL REQUIREMENTS.
2. FIRE ALARM CABLING SHALL BE RUN IN CONDUIT, NO EXCEPTIONS.

POWER GENERAL NOTES:

- 1. SECURITY ALARM, DATA AND TELEPHONE SYSTEMS SHALL BE INSTALLED BY THE TENANT AFTER CASEWORK INSTALLATION. CONDUIT, BOXES AND PULL WIRES TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR. COORDINATE WITH SECURITY AND TELEPHONE SYSTEMS INSTALLER AT JOBSITE.
2. REFER TO MECHANICAL DRAWINGS FOR EXACT HVAC EQUIPMENT LOCATIONS AND SPECIFICATIONS. VERIFY EQUIPMENT WIRE SIZE, CONDUIT SIZES, CIRCUIT BREAKER AND DISCONNECT SIZES WITH EQUIPMENT NAMEPLATE PRIOR TO ROUGH-IN.
3. ALL CONNECTIONS TO HVAC EQUIPMENT SHALL BE MADE WITH COPPER CONDUCTORS ONLY.
4. PROVIDE FUSIBLE DISCONNECT SWITCHES OR HACR CIRCUIT BREAKERS FOR ALL HVAC EQUIPMENT. FUSE SIZES SHALL BE AS INDICATED ON EQUIPMENT NAMEPLATES. THE ELECTRICAL CONTRACTOR SHALL COORDINATE DISCONNECT SWITCH AND FUSE SIZES WITH MECHANICAL CONTRACTOR PRIOR TO ORDERING MATERIAL.
5. ALL FUSES FOR THIS PROJECT SHALL BE BUSSMAN CLASS RK5 DUAL ELEMENT CURRENT LIMITING WITH AMPERAGES AS INDICATED OR REQUIRED.
6. FIRE SEAL ALL FIRE WALL PENETRATIONS FOR CONDUITS WITH AN APPROVED FIRE SEALANT AFTER CONDUIT INSTALLATION. FIRE SEAL SHALL PROVIDE EQUAL FIRE RATING AS WALL.
7. ALL RECEPTACLE CIRCUITS UP TO 100'-0" IN LENGTH SHALL UTILIZE #12 CONDUCTORS MINIMUM. ALL RECEPTACLE CIRCUITS FROM 101'-0" TO 150'-0" IN LENGTH SHALL UTILIZE #10 CONDUCTORS MINIMUM. ALL RECEPTACLE CIRCUITS FROM 151'-0" TO 250'-0" IN LENGTH SHALL UTILIZE #8 CONDUCTORS MINIMUM. CIRCUITS ABOVE 251'-0" SHALL UTILIZE #6 CONDUCTORS MINIMUM.
8. DECORA OUTLETS THROUGHOUT WHITE OR WHITE.

GENERAL NOTES:

- 1. CIRCUIT BREAKER AND PANELBOARDS WITH BOLT-ON TYPE CIRCUIT BREAKERS WITH ADEQUATE INTERRUPTING CAPACITY SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
2. THE GROUNDING SYSTEM WITHIN THE PREMISE SHALL BE CONTINUOUS FROM THE SYSTEM GROUND IN THE METER ROOM. THE SECONDARY OF ALL TRANSFORMERS SHALL BE GROUNDED IN ACCORDANCE WITH N.E.C.
3. ALL WIRING METHODS SHALL BE IN ACCORDANCE WITH LOCAL AND NATIONAL CODES. ALL POWER WIRE ON THE PREMISE SHALL BE INSTALLED IN CONDUIT. CONDUCTOR INSULATION SHALL BE THW, THHN OR THWN. NO ROMEX CABLES ARE ALLOWED.
4. ALL ELECTRICAL MATERIALS SHALL BE NEW AND UNUSED AND SHALL INCLUDE ALL OPTIONAL ITEMS REQUIRED FOR A COMPLETE INSTALLATION. ALL EQUIPMENT SHALL BEAR THE UNDERWRITER'S LABORATORIES LABEL.
5. BX, ROMEX, ARMORED CABLING, ETC. SHALL NOT BE ALLOWED.
6. WHEN SPACE ABOVE CEILING IS INDICATED TO BE A RETURN AIR PLENUM, PLENUM NONCOMBUSTIBLE CONSTRUCTION MATERIALS TO BE USED ABOVE CEILING, INCLUDING EXISTING AND NEW WIRING EXCEPT INSULATION OF 25 FLAME SPREAD AND 50 SMOKE DEVELOPMENT FINISH RATING. LOW VOLTAGE OR LIMITED POWER WIRING MAY BE LABELED PLENUM RATED TYPE.
7. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SEISMIC SUPPORT (LATERAL AND HORIZONTAL) FOR ALL TRACK LIGHTING AND LIGHT FIXTURES PER THE JURISDICTIONAL REQUIREMENTS.
8. SEE DETAILS #1 AND #2 ON SHEET E-203 FOR DATA/VOICE CONDUIT REQUIREMENTS.
9. UNO ALL OUTLET HEIGHT DIMENSIONS SHALL BE TO CENTER OF DEVICE, MEASURED FROM FINISHED FLOOR.
10. ELECTRICAL CONTRACTOR SHALL PROVIDE PULL STRING IN ALL CONDUITS.
11. ELECTRICAL CONTRACTOR SHALL PROVIDE MOTOR STARTERS FOR ALL HVAC EQUIPMENT AS REQUIRED BY MECHANICAL CONTRACTOR.
12. SALES AREA UTILIZES "OPEN TO STRUCTURE" CONCEPT WITH NO CEILING INSTALLED. MC CABLE AND FLEXIBLE CABLING SHALL NOT BE ALLOWED AT ANY AREAS THAT WILL BE WITHIN PUBLIC VIEW. ALL EXPOSED CONDUIT AND BRANCH CIRCUITING SHALL BE NEATLY INSTALLED USING EMT. CONDUIT RUNS SHALL BE GROUPED TOGETHER, RUN PARALLEL TO GRID LINES, AND RACKED ON TRAPEZE W/THREADED ROD ATTACHED TO STRUCTURE. HORIZONTAL SPACING BETWEEN CONDUITS ON RACK SHALL BE UNIFORM AND CONSISTENT THROUGHOUT.
13. FOR RECEPTACLE LOCATIONS THAT REQUIRE SURFACE MOUNTING, PROVIDE STEEL, RAISED COVER.
14. FOR DEVICE MOUNTING HEIGHT REQUIREMENTS, SEE DETAIL #2, SHEET E-205.
15. AT SALES FLOOR, VERTICAL BRANCH CIRCUIT DROPS SHALL BE NEATLY CONCEALED WHERE POSSIBLE.
16. ELECTRICAL CONTRACTOR SHALL OBTAIN MALL OF SAN JUAN CONSTRUCTION CRITERIA MANUAL AND COMPLY WITH ALL REQUIREMENTS.
17. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNERS' SECURITY VENDOR AND PROVIDE RACEWAYS AS REQUIRED.
18. ALL WHIPS FOR CASEWORK ARE TO BE FULLY ENCASED INSIDE WALLS. ENTIRE INSTALLATION SHALL MEET ALL REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE. ALL EQUIPMENT SHALL BEAR UL LABELS.
19. ALL ELECTRICAL AND FIRE ALARM SYSTEM WIRING SHALL BE IN CONDUIT.
20. ALL JUNCTION BOXES SHALL BE READILY ACCESSIBLE.

SECURITY SYSTEM GENERAL NOTES:

- 1. THE SECURITY SYSTEM CABLING SHALL BE PROVIDED BY THE OWNER'S VENDOR. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THIS VENDOR AND PROVIDE SLEEVES AND/OR PENETRATIONS THROUGH FIRE RATED CONSTRUCTION OR FLOORS AS REQUIRED FOR THE CABLING INSTALLATION.
2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE SECURITY SYSTEM RACEWAY AS SHOWN ON THE PLANS AND AS REQUIRED BY THE JURISDICTION AND LANDLORD. THE ELECTRICAL CONTRACTOR SHALL CLEARLY LABEL WITH A SHARPIE MARKER, THE JUNCTION BOXES AND CONDUITS FOR THE SECURITY VENDOR. EACH CONDUIT SHALL BE CLEARLY MARKED AT THE STUB LOCATION WITH "SEC" AND EACH JUNCTION BOX SHALL BE MARKED ON THE INTERIOR OF THE BOX AS "SEC".
3. THE ELECTRICAL CONTRACTOR SHALL VERIFY WITH THE JURISDICTION AND LANDLORD THAT LOW VOLTAGE CABLING IS EQUIPPED TO BE INSTALLED IN CONDUIT, AND SHALL PROVIDE CONDUIT SYSTEM IF REQUIRED.

DATA/VOICE SYSTEM GENERAL NOTES:

- 1. THE DATA/VOICE SYSTEM CABLING (EXCEPT FOR SOUND SYSTEM VOLUME CONTROL AND TRAFFIC COUNTER) SHALL BE PROVIDED BY THE OWNER'S VENDOR. THE TENANT ELECTRICAL CONTRACTOR SHALL PROVIDE THE CABLING FOR THE VOLUME CONTROL AND TRAFFIC COUNTER.
2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE OUTLET BOXES AND RACEWAY SYSTEM AS SHOWN ON THE PLANS AND AS REQUIRED BY THE JURISDICTION AND LANDLORD.
3. THE DATA/VOICE SYSTEM CABLING HAS A LENGTH LIMITATION OF 290 LINEAR FEET. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A RACEWAY SYSTEM, IN ACCORDANCE WITH THE REQUIREMENTS SHOWN ON THE PLANS, SUCH THAT THE LINEAR FOOTAGE FROM EACH OUTLET TO THE ITB DOES NOT EXCEED 290 LINEAR FEET. IN THE EVENT THIS IS NOT POSSIBLE, REPORT BACK TO GENERAL CONTRACTOR AND OWNER FOR DIRECTION.
4. THE OVERHEAD RACEWAY SYSTEM SHALL BE RUN PARALLEL WITH THE BUILDING GRID LINES. IN THE EVENT THERE ARE CABLE LENGTH ISSUES, REPORT BACK TO THE GENERAL CONTRACTOR PRIOR TO RACEWAY INSTALLATION FOR DIRECTION.
5. THE ELECTRICAL CONTRACTOR SHALL CLEARLY LABEL WITH A SHARPIE MARKER THE OUTLET BOXES AND CONDUIT FOR THE DATA/VOICE VENDOR.

DRAWING SCHEDULE

Table with columns: NUMBER, TITLE. Lists drawing numbers and titles such as E-001 ELECTRICAL LEGENDS AND NOTES, E-002 LIGHTING FIXTURE SCHEDULE, E-003a POTTERY BARN LIGHTING CONTROLS, etc.

Table with columns: ISSUED / REVISED, DATE. Lists revision history for the drawing.

ELECTRICAL LEGENDS AND NOTES

E-001

Order Plans

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