

ELECTRICAL LEGEND:

- ⊖ DUPLEX RECEPTACLE, WALL-MOUNTED. MOUNT 18" AFF, UON.
- ⊖⊖ DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED. MOUNT 18" AFF, UON.
- ⊖⊖⊖ GFCI DUPLEX RECEPTACLE, WALL-MOUNTED. MOUNT 18" AFF, UON.
- WP⊖⊖ GFCI DUPLEX RECEPTACLE, WALL-MOUNTED, WITH WEATHERPROOF-IN-USE COVER. MOUNT 18" AFF, UON.
- ⊖⊖⊖ JUNCTION BOX, WALL-MOUNTED. MOUNT 18" AFF, UON.
- ⊖⊖⊖ JUNCTION BOX, ABOVE CEILING.
- M CONNECTION TO MECHANICAL OR PLUMBING EQUIPMENT. TAG INDICATES EQUIPMENT SERVED. REFER TO EQUIPMENT CONNECTION SCHEDULE FOR ADDITIONAL INFORMATION.
- 30/3/1/3R SAFETY DISCONNECT SWITCH. NOMENCLATURE IS AMPERES/POLES/FUSED OR NONFUSED/ENCLOSURE TYPE IF OTHER THAN NEMA 1. MOUNT 48" AFF, UON.
- S TOGGLE SWITCH, SINGLE POLE, SINGLE THROW. MOUNT 48" AFF, UON.
- S3 TOGGLE SWITCH, 3-WAY, SINGLE POLE, DOUBLE THROW. MOUNT 48" AFF, UON.
- ⊖⊖⊖ CEILING-MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGY, PASSIVE INFRARED AND ULTRASONIC.
- A LUMINAIRE. TAG INDICATES TYPE. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION.
- X⊖ EXIT SIGN. TAG INDICATES TYPE. DARKENED SECTIONS INDICATES FACES. ARROWS INDICATE DIRECTIONAL INDICATORS. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION.

ELECTRICAL ABBREVIATIONS:

- AF ABOVE FINISHED FLOOR
- F* FUSED PER MANUFACTURER RECOMMENDATIONS
- GFCI GROUND FAULT CIRCUIT INTERRUPTER
- MFR EQUIPMENT MANUFACTURER
- UON UNLESS OTHERWISE NOTED
- WP WEATHERPROOF
- XTMR TRANSFORMER

ELECTRICAL SPECIFICATIONS:

GENERAL:

1. INSTALLATION SHALL COMPLY WITH NFPA 70-2017 AND ALL APPLICABLE LOCAL CODES.
2. ALL PRODUCTS PROVIDED IN THIS CONTRACT SHALL BE NEW, SHALL BE LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
3. ALL EQUIPMENT OF THE SAME TYPE SHALL BE BY THE SAME MANUFACTURER.
4. WORKING CLEARANCE AROUND EQUIPMENT SHALL NOT BE LESS THAN THE MINIMUM REQUIREMENTS SPECIFIED IN NFPA 70.
5. FIRESTOPPING SHALL BE APPLIED TO ELECTRICAL PENETRATIONS OF FIRE-RATED FLOOR AND WALL ASSEMBLIES TO RESTORE ORIGINAL FIRE-RESISTANCE RATING OF THE ASSEMBLY.
6. COORDINATE INSTALLATION WITH STRUCTURE, ARCHITECTURE, AND OTHER TRADEWORK PRIOR TO INSTALLATION TO AVOID CONFLICTS.
7. ELECTRICAL REQUIREMENTS FOR EQUIPMENT OF OTHER TRADES HAVE BEEN COORDINATED AS A BASIS OF DESIGN. CONTRACTOR SHALL COORDINATE ELECTRICAL REQUIREMENTS OF EQUIPMENT FURNISHED PRIOR TO INSTALLATION AND PROVIDE ELECTRICAL SYSTEMS REQUIRED BY THAT EQUIPMENT. ANY ELECTRICAL SYSTEM REVISIONS REQUIRED TO COORDINATE WITH EQUIPMENT FURNISHED SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
8. VERIFY CODE COMPLIANCE OF EXISTING CONDITIONS. IF ANY OF THE EXISTING ELECTRICAL INSTALLATION TO BE UTILIZED IN NEW CONSTRUCTION IS FOUND TO BE DEFECTIVE OR IN VIOLATION OF NATIONAL, STATE, OR LOCAL CODES, NOTIFY THE ARCHITECT OF ANY NON-COMPLIANT CONDITIONS IN WRITING WITHIN 5 WORKING DAYS.
9. VERIFY FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS AS SHOWN ON THE DRAWINGS.
10. VERIFY THE LOAD ON EXISTING CIRCUITS TO BE MODIFIED AND/OR REUSED TO ENSURE THAT THE RATINGS OF THE OVERCURRENT PROTECTION DEVICES ARE NOT EXCEEDED. A TRUE-RMS AMMETER WHICH GIVES WIDE BANDWIDTH READINGS OF CURRENT WITH HARMONICS SHALL BE USED. NOTIFY THE ARCHITECT OF ANY OVERLOAD CONDITIONS IN WRITING WITHIN 5 WORKING DAYS.
11. WORK SHALL BE NEAT IN APPEARANCE, PLUMB, LEVEL, AND TRUE. ANY WORK DEEMED UNSATISFACTORY BY THE ARCHITECT SHALL BE IMMEDIATELY REMOVED AND REPLACED.
12. PROVIDE ALL COMPONENTS AND PERFORM ALL WORK NECESSARY FOR A COMPLETE WORKING SYSTEM.
13. PROVIDE AN IDENTIFYING NAMEPLATE FOR EACH DISCONNECT SWITCH, OR OTHER PIECE OF EQUIPMENT. NAMEPLATE SHALL INCLUDE EQUIPMENT NAME, ELECTRICAL CHARACTERISTICS, EQUIPMENT RATINGS, AND SOURCE NAME.

CONDUCTORS:

1. CONDUCTORS SHALL BE COPPER.
2. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG FOR POWER AND LIGHTING CIRCUITS, UNLESS OTHERWISE INDICATED.
3. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED.
4. INSULATION SHALL BE TYPE THHN/THWN-2 OR XHHW-2, RATED AT 90°C.
5. CONDUCTORS SHALL BE COLOR-CODED TO INDICATE THE PHASE AND VOLTAGE.
 - a. COLORS FOR 208/120V SYSTEMS:
 1. PHASE A - BLACK
 2. PHASE B - RED
 3. PHASE C - BLUE
 4. NEUTRAL - WHITE
 5. GROUND - GREEN
6. SPLICES AND TAPS IN SOLID BRANCH CIRCUIT CONDUCTORS SHALL BE MADE WITH TWIST-ON OR CRIMP PRESSURE CONNECTION DEVICES.
7. SPLICES, TAPS, AND BUS BAR TERMINATIONS OF STRANDED CONDUCTORS SHALL BE MADE WITH COPPER COMPRESSION CRIMP TYPE LUGS.

METAL-CLAD CABLE:

1. METAL-CLAD CABLE SHALL BE OF STEEL OR ALUMINUM CONSTRUCTION AND SHALL HAVE INSULATED BOUNDING CONDUCTOR.
2. METAL-CLAD CABLE SHALL ONLY BE USED WHERE PERMITTED BY NFPA 70.

NONMETALLIC-SHEATHED CABLE:

1. NONMETALLIC-SHEATHED CABLE SHALL ONLY BE USED WHERE PERMITTED BY NFPA 70.
2. CONTRACTOR SHALL VERIFY WITH LOCAL AHP THAT NONMETALLIC-SHEATHED CABLES ARE PERMISSIBLE PER LOCAL REGULATIONS.

GROUNDING:

1. EQUIPMENT, ENCLOSURES, AND RACEWAYS SHALL BE GROUND. INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS WITH ALL FEEDERS AND BRANCH CIRCUITS.
2. BOND GROUND CONDUCTORS AT ORIGIN OF CIRCUITS, AT TERMINALS, PULL BOXES, AND TO PANELBOARDS OR EQUIPMENT AT TERMINATIONS.
3. EQUIPMENT GROUNDING CONDUCTORS AND GROUND ELECTRODE CONDUCTORS SHALL BE CONNECTED TO THE GROUND BUS OF THE SERVICE EQUIPMENT.
4. A GREEN-COLORED GROUNDING CONDUCTOR SHALL BE PROVIDED IN RACEWAYS WITH THE PHASE CONDUCTORS.

LUMINAIRES:

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR EXACT LOCATION OF LUMINAIRES.
2. CEILING-MOUNTED LUMINAIRES SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE.

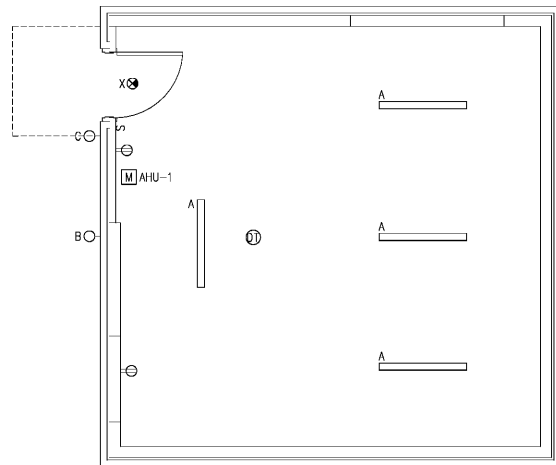
BOXES AND ENCLOSURES:

1. BOXES SHALL BE CODE-GAUGE GALVANIZED STEEL.
2. BOXES SHALL BE 4" SQUARE AND 2.125" DEEP, OR 4" OCTAGONAL AND 2.125" DEEP WHERE INSTALLED RECESSED IN CEILING. PROVIDE PLASTER RING WHERE RECESSED IN PLASTER OR GYPSUM BOARD WALLS.
3. BOXES FOR FUTURE USE SHALL BE PROVIDED WITH BLANK COVERPLATES.
4. LOCATE BOXES SO THAT COVER OR PLATE WILL NOT SPAN DIFFERENT BUILDING FINISHES.

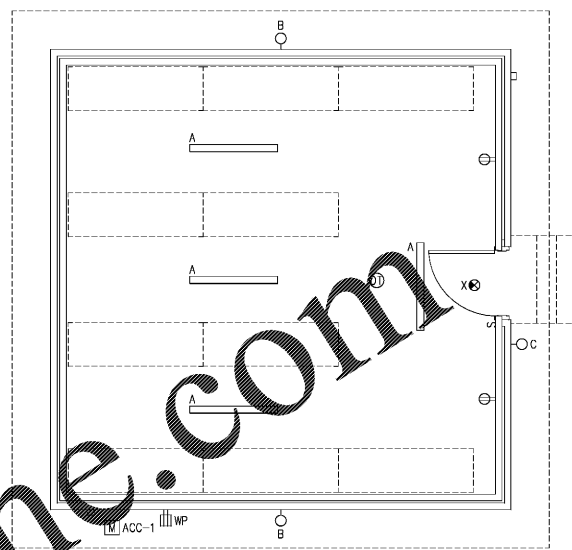
EQUIPMENT CONNECTION SCHEDULE

EQUIPMENT	LOCATION	SIZE	VOLTAGE	DISCONNECT
AHU-1	BASEMENT	31.5 MCA	208V/1ϕ	BY MFR
ACC-1	EXTERIOR	11.8 MCA	208V/1ϕ	30/2/F+/3R

NOTES:
 1. DISCONNECT NOMENCLATURE IS AMPERES/POLES/FUSED OR NONFUSED/ENCLOSURE TYPE IF OTHER THAN NEMA 1.
 2. SEE ELECTRICAL EQUIPMENT SCHEDULES FOR ADDITIONAL INFORMATION REGARDING ASSOCIATED CIRCUIT BREAKER, CONDUCTORS, RACEWAY, ETC.



2 ELECTRICAL LOWER FLOOR PLAN
 E-1 1/4" = 1'-0"



1 ELECTRICAL UPPER FLOOR PLAN
 E-1 1/4" = 1'-0"

LUMINAIRE SCHEDULE

TYPE	MANUFACTURER	CATALOG	CCT	LUMEN	VOLTAGE	WATTAGE	DIMMING	MOUNTING	DESCRIPTION
A	H.E. WILLIAMS	75R	3500K	5000L	120V	32W	NONE	SURFACE	4' LED STRIP LUMINAIRE.
B	H.E. WILLIAMS	WPAL	5000K	4900L	120V	69W	0-10V	WALL	EXTERIOR WALL PACK. WET LOCATION LISTED.
C	---	---	---	---	120V	20W	---	WALL	EXTERIOR DECORATIVE WET SPONGE TO BE SELECTED BY OWNER. WET LOCATION LISTED.
X	BEGHELLI	PACO PCH	---	---	120V	8W	---	SURFACE	LED EXIT SIGN/EMERGENCY COMBINATION LIGHT WITH TWO MR16 LED 1.5W LAMPS, NICKEL-CADMIUM BATTERY, AND AUTO-TESTING CAPABILITY. EXIT SIGN SHALL COMPLY WITH NFPA 101 AND SHALL NOT HAVE VISIBLE LEDS. PROVIDE NUMBER OF FACES AND ARROWS AS INDICATED ON THE DRAWINGS.

NOTES:
 1. LISTED LUMINAIRES REPRESENT A BASIS OF DESIGN.
 2. LUMINAIRE FINISHES SHALL BE PER ARCHITECT, UNLESS OTHERWISE NOTED.
 3. INTERIOR LUMINAIRES SHALL HAVE A MINIMUM CRI OF 80 AND EXTERIOR LUMINAIRES SHALL HAVE A MINIMUM CRI OF 70, UNLESS OTHERWISE NOTED.
 4. COORDINATE MOUNTING ACCESSORIES AND FLANGE WITH CEILING CONSTRUCTION.

GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF OUTLETS AND DEVICES.
2. COORDINATE LOCATIONS OF ELECTRICAL DEVICES WITH FURNITURE SUCH THAT DEVICES ARE NOT BLOCKED BY THE FURNITURE.
3. REFER TO EQUIPMENT CONNECTION SCHEDULE FOR INFORMATION REGARDING MECHANICAL AND PLUMBING EQUIPMENT.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR ADDITIONAL INFORMATION.

CIRCUITING NOTES

1. ALL LIGHTING SHALL BE SUPPLIED BY A SINGLE BRANCH CIRCUIT. BRANCH CIRCUIT SHALL BE HOMERUN TO 20A/1P CIRCUIT BREAKER IN NEARBY PANELBOARD. EXTERIOR LIGHTING SHALL BE HOMERUN THROUGH PHOTOCELL MOUNTED ON ROOF. EXISTING SPARE CIRCUIT BREAKER SHALL BE USED IF AVAILABLE; ELSE, PROVIDE NEW CIRCUIT BREAKER WHICH MATCHES EXISTING IN TYPE AND RATING. FEEDER SIZE SHALL BE 2#12, #12G ~ 0.75°C.
2. ALL RECEPTACLES SHALL BE SUPPLIED BY A SINGLE BRANCH CIRCUIT. BRANCH CIRCUIT SHALL BE HOMERUN TO 20A/1P CIRCUIT BREAKER IN NEARBY PANELBOARD. EXISTING SPARE CIRCUIT BREAKER SHALL BE USED IF AVAILABLE; ELSE, PROVIDE NEW CIRCUIT BREAKER WHICH MATCHES EXISTING IN TYPE AND RATING. FEEDER SIZE SHALL BE 3#8, #10G ~ 1°C.
3. AHU-1 BRANCH CIRCUIT SHALL BE HOMERUN TO 35A/2P CIRCUIT BREAKER IN NEARBY PANELBOARD. EXISTING SPARE CIRCUIT BREAKER SHALL BE USED IF AVAILABLE; ELSE, PROVIDE NEW CIRCUIT BREAKER WHICH MATCHES EXISTING IN TYPE AND RATING. FEEDER SIZE SHALL BE 3#12, #12G ~ 0.75°C.
4. ACC-1 BRANCH CIRCUIT SHALL BE HOMERUN TO 20A/2P CIRCUIT BREAKER IN NEARBY PANELBOARD. EXISTING SPARE CIRCUIT BREAKER SHALL BE USED IF AVAILABLE; ELSE, PROVIDE NEW CIRCUIT BREAKER WHICH MATCHES EXISTING IN TYPE AND RATING. FEEDER SIZE SHALL BE 3#12, #12G ~ 0.75°C.
5. CONTRACTOR SHALL VERIFY THE LOAD ON EXISTING CIRCUITS TO BE MODIFIED AND/OR REUSED TO ENSURE THAT THE RATINGS OF THE OVERCURRENT PROTECTION DEVICES ARE NOT EXCEEDED. A TRUE-RMS AMMETER WHICH GIVES WIDE BANDWIDTH READINGS OF CURRENT WITH HARMONICS SHALL BE USED. NOTIFY THE ARCHITECT OF ANY OVERLOAD CONDITIONS IN WRITING WITHIN 5 WORKING DAYS.

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