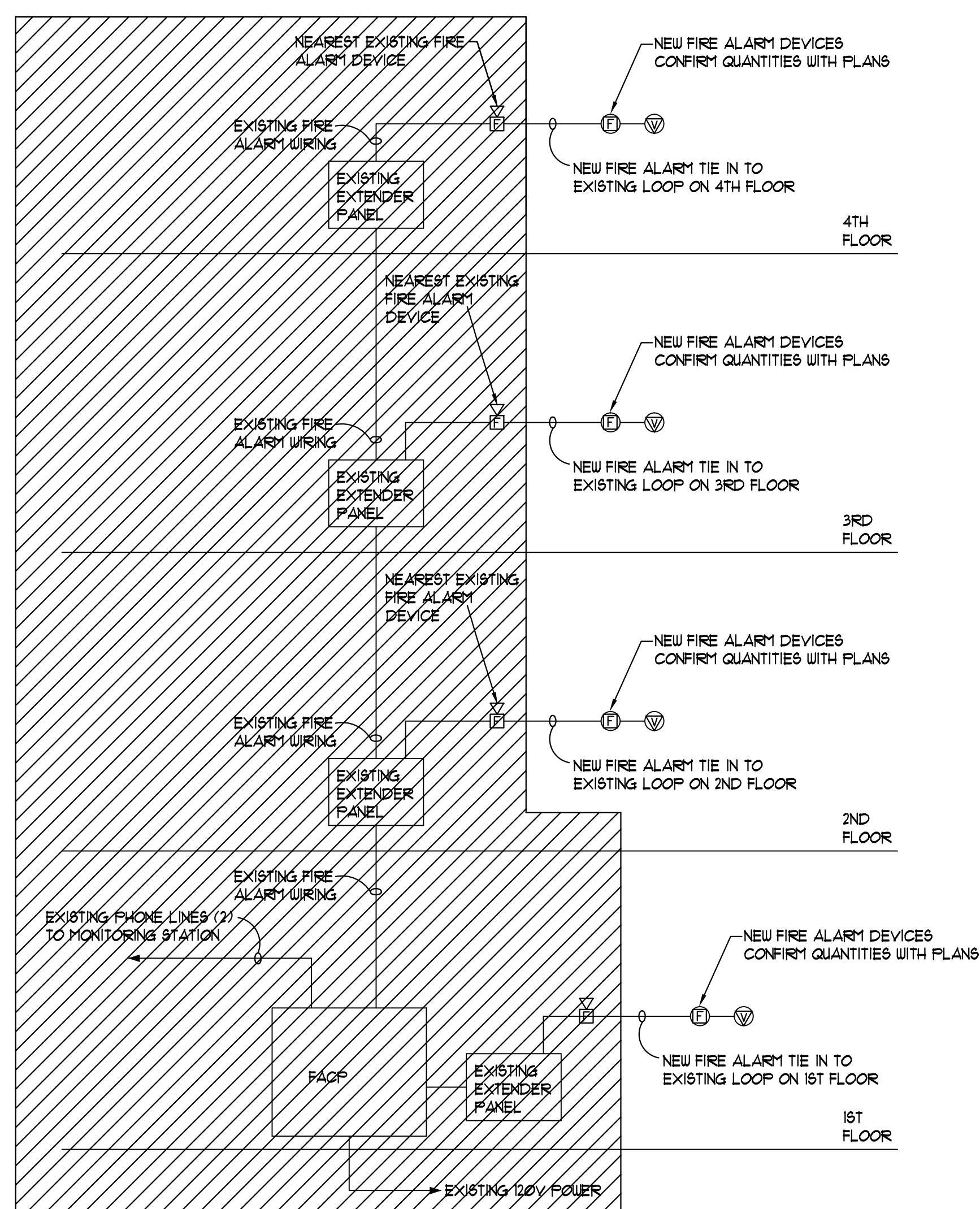


1 PARTIAL FIRE ALARM RISER (H02)
E0.001 NOT TO SCALE



2 PARTIAL FIRE ALARM RISER (H03)
E0.001 NOT TO SCALE

FIRE ALARM GENERAL NOTES

- ALL NEW FIRE ALARM DEVICES SHALL BE ADA APPROVED. COORDINATE COLOR WITH ARCHITECT AND BASE BUILDING DEVICES TO MATCH BASE BUILDING SYSTEM MANUFACTURER. PROVIDE ANY ADDITIONAL POWER AMPLIFIERS REQUIRED FOR INSTALLATION OF NEW ADA APPROVED DEVICES.
- ALL FIRE ALARM DEVICES, INCLUDING SPEAKERS, VISUALS, SMOKE DETECTORS, ETC., SHALL BE CONNECTED TO THE BASE BUILDING FIRE ALARM SYSTEM BY A LICENSED FIRE ALARM CONTRACTOR. COORDINATE CONNECTIONS WITH SYSTEM MANUFACTURER.
- ALL DEVICES SHALL BE 110 CANDELA, UNLESS OTHERWISE NOTED.
- THE ENTIRE LENS OF WALL MOUNTED VISUAL FIRE ALARM DEVICES SHALL BE MOUNTED AT LEAST 80" AFF.
- COORDINATE FIRE ALARM SYSTEM SHUTDOWNS AND REPROGRAMMING WITH LANDLORD.
- ALL FIRE ALARM DEVICES SHALL BE WHITE UNLESS OTHERWISE NOTED OR REQUIRED.
- EVAUATION SIGNAL SHALL BE 3 PULSE TEMPORAL.
- THE FIRE ALARM SYSTEM APPLIANCE LAYOUT INDICATED ON SHEETS E3.100E/W, E2.301W/C/N/C1, E2.302W/C/N, E3.303W/C/N, & E2.304W/C/N INDICATES NEW DEVICE PLACEMENT REQUIREMENTS FOR THIS TENANT UNIT. NEW DEVICES SHALL BE INSTALLED INTO THE BASE BUILDING FIRE ALARM SYSTEM. PROVIDE ALL PROGRAMMING REQUIRED TO MAKE THE NEW DEVICES FUNCTIONAL AND ANY PROGRAMMING OR NEW EQUIPMENT REQUIRED TO MAKE ALL OF THE VISIBLE NOTIFICATION APPLIANCES ON THE ENTIRE FLOOR FLASH IN SYNCHRONIZATION.
- ALL FIRE ALARM WORK SHALL BE COMPLETE BY THE BUILDING STANDARD CONTRACTOR, SIMPLEX GRINNELL.

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance Prescriptive X Performance _____ Energy Cost Budget _____

Provide a standard riser diagram which indicates designated points for check metering. Provide a standard panel schedule description which identifies different enduse loads.

Standard riser diagram is on Sheet - E2.500 & E2.501
Standard panel schedules are on - E2.610-E2.641 & E3.600-E3.631

Lighting Schedule
lamp type required in fixture SEE LIGHTING FIXTURE SCHEDULE
number of lamps in fixture SEE LIGHTING FIXTURE SCHEDULE
ballast type used in the fixture SEE LIGHTING FIXTURE SCHEDULE
number of ballasts in fixture SEE LIGHTING FIXTURE SCHEDULE
total wattage per fixture SEE LIGHTING FIXTURE SCHEDULE
total interior wattage specified vs. allowed

Office Occupancy: gross area of 223,835 sq. ft.
Per 2009 International Energy Conservation Code:

Allowable Specified

BUILDING H02:
LOWER LEVEL (1.00 X 23,535 SQFT) = 23,535 WATTS 18,161 WATTS

BUILDING H03:
1ST FLOOR (1.00 X 41,750 SQFT) = 41,750 WATTS 28,265 WATTS
2ND FLOOR (1.00 X 52,447 SQFT) = 52,447 WATTS 42,310 WATTS
3RD FLOOR (1.00 X 52,447 SQFT) = 52,447 WATTS 42,043 WATTS
4TH FLOOR (1.00 X 53,656 SQFT) = 53,656 WATTS 42,086 WATTS
TOTAL ALLOWABLE LOAD = 223,835 WATTS 172,685 WATTS

total exterior wattage specified vs. allowed
NOT APPLICABLE (TENANT FIT-UP)

Equipment schedules with motors (not used for mechanical systems)
motor horsepower NONE
number of phases N/A
minimum efficiency N/A
motor type N/A
of poles N/A

ELECTRICAL DESIGNER STATEMENT

I hereby certify that the design of this building complies with the mechanical systems, service systems and equipment requirements of the 2009 International Energy Conservation Code.

signed JAROD HALL date 12/15/17

Name JAROD HALL

Title Project Engineer

ELECTRICAL GENERAL NOTES

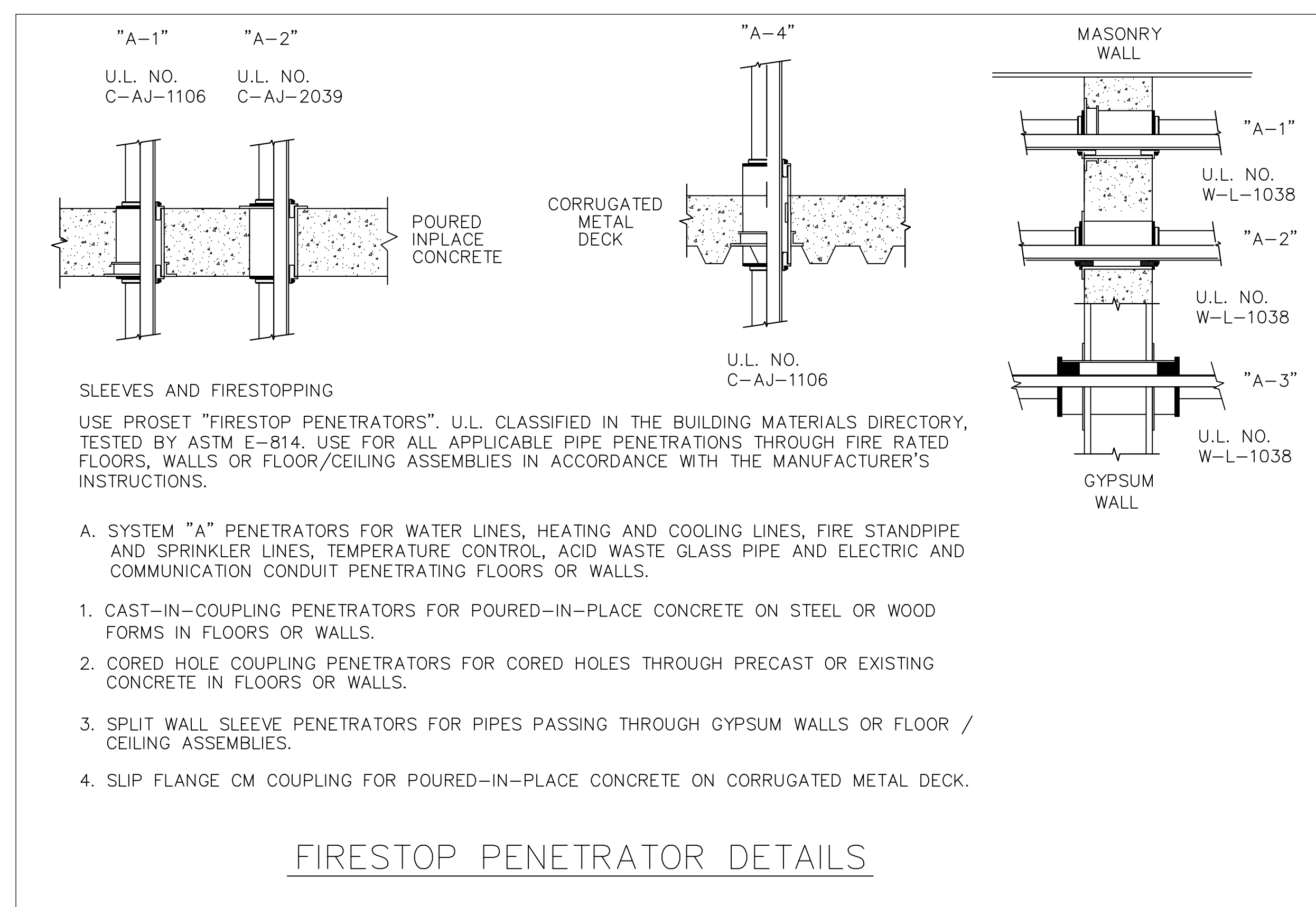
- ALL WORK THIS DIVISION SHALL COMPLY WITH ALL LOCAL BUILDING CODES, LAWS, REGULATIONS, ORDINANCES, AND THE REQUIREMENTS OF THE 2014 NATIONAL ELECTRICAL CODE. ALL WORK SHALL COMPLY WITH BASE BUILDING SPECIFICATIONS. OBTAIN A COPY OF SPECIFICATIONS FROM BUILDING MANAGER IF NECESSARY.
- THE CONTRACTOR SHALL KEEP A RECORD OF THE CHANGES WHICH ARE IN CONFLICT WITH THESE DRAWINGS AND SPECIFICATIONS. AT THE COMPLETION OF HIS WORK HE SHALL SUBMIT "AS BUILT" PRINTS TO THE OWNER.
- DRAWINGS ARE GENERALLY DIAGRAMMATIC AND DO NOT NECESSARILY SHOW EVERY FITTING AND DETAIL. ALL WORK SHALL BE INSTALLED SO THAT JUNCTION BOXES AND COMPONENTS WILL BE ACCESSIBLE FOR SERVICE.
- 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, REPAIRING, ETC. TO MAKE THE WORK COMPLETE AND NEW.
- ALL CONDUIT MUST BE CONCEALED IN THE WALLS OR ABOVE THE CEILING UNLESS OTHERWISE NOTED. MINIMUM CONDUIT SIZE IS 1/2".
- ALL CONDUCTORS SHALL BE COPPER WITH TYPE "THW" OR "THHN" INSULATION AND THE MINIMUM WIRE SIZE SHALL BE #12 A.W.G. WITH A 167 DEGREE TEMPERATURE RATING.
- ALL WORK MUST BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER ACCORDING TO GENERALLY ACCEPTED PRINCIPALS OF FIRST CLASS WORKMANSHIP.
- FASTEN ALL RECESSED LIGHTING FIXTURES TO STRUCTURE OR GRID PER N.E.C. 410.
- RECESSED INCANDESCENT FIXTURES SHALL BE SUPPORTED IN COMPLIANCE WITH N.E.C. 410.
- ALL PENETRATIONS THRU RATED WALLS, FLOORS AND CEILINGS SHALL BE FIRE STOPPED PER N.E.C. 300-21.
- PROVIDE ALL GROUNDING AS REQUIRED BY N.E.C.
- DEVICE MOUNTING HEIGHTS ARE TO BE MEASURED TO THE DEVICE CENTERLINE.
- ALL 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.
- ALL CONDUIT SHALL BE 1/2" EMT WITH #12, #10 OR #8 CONDUCTORS UNLESS OTHERWISE NOTED.
- PROVIDE #12AWG GND. FOR ALL MECHANICAL EQUIPMENT UNLESS SHOWN OTHERWISE. ALL EQUIPMENT SHALL BE GROUNDED AT THE PANEL WHICH FEEDS THE EQUIPMENT.
- COORDINATE RECEPTACLE NEMA TYPE AND VOLTAGE WITH COPIERS AND EQUIPMENT.
- PROVIDE A NEW DIRECTORY FOR ALL PANELS. CORRECTLY LABEL ALL CIRCUITS, SPARES AND SPACES IN ACCORDANCE WITH NEC 408.4.
- PROVIDE A SEPARATE GREEN, INSULATED, #12AWG EQUIPMENT GROUNDING CONDUCTOR ROUTED WITH THE BRANCH CIRCUIT HOMERUN CONDUCTORS.
- WHERE WORK BY THE GENERAL CONTRACTOR (WALL REMOVAL, NEW OR RELOCATED WALL OPENING, ETC.) RESULTS IN THE REMOVAL, RELOCATION OF REFEEDING OF ELECTRICAL DEVICES OR LIGHTING FIXTURES, THE ELEC. CONTRACTOR SHALL DISCONNECT OR RECONNECT AS REQUIRED ALL ACTIVE DEVICES REMAINING ON THAT CIRCUIT SYSTEM.
- DEVICE BOXES IN RATED WALLS SHALL MEET STANDARD BUILDING CODE SECTION 706.4.
- ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE LABEL LISTED BY A MAINE APPROVED THIRD PARTY TESTING AGENCY.
- DEDICATED RECEPTACLES TO RECEIVE VISUAL DESIGNATION.
- OUTLET BOX SHALL NOT BE MOUNTED BACK TO BACK.
- BLANK FACEPLATES ARE NOT ALLOWED, UNLESS ANY EXISTING OUTLET OR TELE/DATA LOCATION NOT USED OR SHOWN WITHIN THE SCOPE OF WORK IN THESE PLANS SHOULD BE REMOVED, PATCHED, AND REPAIRED.
- MULTIWIRE BRANCH CIRCUITS SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS PER N.E.C. 210.4(B).
- MULTIWIRE BRANCH CIRCUITS SUPPLYING POWER TO PERMANENTLY CONNECTED FREESTANDING PARTITIONS SHALL BE PROVIDED WITH A MEANS TO DISCONNECT SIMULTANEOUSLY ALL UNGROUNDED CONDUCTORS AT THE PANEL BOARD WHERE THE BRANCH CIRCUIT ORIGINATES PER NEC 605.6.
- ARC-FLASH HAZARD WARNING SHALL BE PROVIDED ON ALL EQUIPMENT IN AFFECTED ELECTRICAL ROOMS PER NEC 110.16.
- PROVIDE PLASTIC NAMEPLATE ON ALL PANELS (NEW AND EXISTING) INDICATING PANEL NAME AND SOURCE PER NEC 408.4(B).
- ALL WIRING TERMINATIONS ARE ASSUMED TO BE 7500C RATED, UNLESS NOTED OTHERWISE. ALL WIRING UNDER 100A IS BASED ON A 6000C C TERMINATION.

ELECTRICAL SYMBOL LEGEND

| SYMBOL | DESCRIPTION | ON CENTER MTG. HT. |
|--------|---|--------------------|
| | CONCEALED CONDUIT IN CEILING OR WALL | |
| | CONCEALED CONDUIT IN FLOOR OR UNDERGROUND | |
| | CIRCUIT HOMERUN TO PANEL; EACH ARROWHEAD = 1 CIRCUIT | |
| | FLEXIBLE CONDUIT OR S.O. CORD | |
| | EXPOSED CONDUIT | |
| | CONDUIT STUBBED UP OR TURNED DOWN | |
| | PLYWOOD BACKBOARD | |
| | SURFACE MOUNTED RACEWAY | |
| | MULTI OUTLET SURFACE MOUNTED RACEWAY | |
| | WALL MOUNTED SINGLE RECEPTACLE OUTLET | 18" |
| | WALL MOUNTED DUPLEX RECEPTACLE OUTLET | 18" |
| | WALL MOUNTED DUPLEX RECEPTACLE OUTLET - ABOVE COUNTER | AS REQUIRED |
| | WALL MOUNTED G.F.C.I. DUPLEX RECEPTACLE OUTLET | 18" |
| | WALL MOUNTED G.F.C.I. DUPLEX RECEPTACLE OUTLET - ABOVE COUNTER | AS REQUIRED |
| | WALL MOUNTED ISOLATED GROUND DUPLEX RECEPTACLE OUTLET | 18" |
| | WALL MOUNTED DOUBLE DUPLEX RECEPTACLE OUTLET | 18" |
| | WALL MOUNTED SPECIAL RECEPTACLE OUTLET | 18" |
| | WALL MOUNTED USB DUPLEX RECEPTACLE OUTLET | |
| | JUNCTION BOX | |
| | POKE-THRU DEVICES WITH POWER AND TELE/DATA PER PLANS (SEE DRAWINGS FOR MODEL#) | |
| | POKE-THRU DEVICES WITH QUAD RECEPT & TELE/DATA OUTLETS (SEE DRAWINGS FOR MODEL#) | |
| | POKE-THRU DEVICES WITH DUPLEX RECEPT & TELE/DATA/AV OUTLETS (SEE DRAWINGS FOR MODEL#) | |
| | POKE-THRU DEVICE TO MODULAR FURNITURE | 18" |
| | JUNCTION BOX FOR POWER CONNECTION TO MODULAR FURNITURE. COORD. EXACT LOCATION WITH ARCH. PROVIDE 1-1/4" EMPTY CONDUIT WITH PULLSTRING TO ABOVE ACCESSIBLE CEILING. | 18" |
| | JUNCTION BOX FOR TELE/DATA CONNECTION TO MODULAR FURN. COORD. EXACT LOCATION WITH ARCH. PROVIDE 1-1/4" EMPTY CONDUIT WITH PULLSTRING TO ABOVE ACCESSIBLE CEILING. | 18" |
| | PROVIDE AND INSTALL JUNCTION BOX ABOVE CEILING TO SUPPLY POWER WHICH SHALL SUPPLY EACH WORKSTATION WITH TWO (2) DUPLEX AND ONE (1) VOICE DATA. POWER POLE TO BE SUPPLIED BY TENANT AND INSTALLED BY E.C. (THE # OF WORKSTATIONS TO BE POWERED ARE DENOTED BY A NUMBER NEXT TO THE POWER POLE) | |
| | RAISED FLOOR FEED TO MODULAR FURNITURE | |
| | 277/480 VOLT PANELBOARD | |
| | 120/208 VOLT PANELBOARD | |
| | RECESSED MOUNTED 120/208 VOLT PANELBOARD | |
| | TRANSFORMER | |
| | JUNCTION BOX FOR TV. PROVIDE JUNCTION BOX WITH 3/4" CONDUIT TO ABOVE CEILING. | |
| | JUNCTION BOX FOR AV, LOW-VOLTAGE WIRING BY OTHERS. PROVIDE JUNCTION BOX WITH CONDUIT AS REQUIRED TO ABOVE CEILING. | |
| | JUNCTION BOX FOR CARD READER. PROVIDE JUNCTION BOX WITH 3/4" CONDUIT TO ABOVE CEILING. | 42" |
| | WALL MOUNTED COMBINATION DATA/VOICE OUTLET. PROVIDE JUNCTION BOX WITH 3/4" CONDUIT TO ABOVE CEILING. | 18" |
| | WALL MOUNTED VOICE OUTLET. PROVIDE JUNCTION BOX WITH 3/4" CONDUIT TO ABOVE CEILING. | 18" |
| | WALL MOUNTED DATA OUTLET. PROVIDE JUNCTION BOX WITH 3/4" CONDUIT TO ABOVE CEILING. | 18" |
| | DOME CAMERA (PROVIDED BY SECURITY CONTRACTOR) | |
| | WIRELESS ACCESS POINT, CEILING MOUNTED (BY OTHERS) | |
| | SPEAKER LOCATION (BY OTHERS) | |
| | MOTOR RATED TOGGLE SWITCH | AS REQ'D. |
| | COMBINATION MOTOR STARTER/DISCONNECT SWITCH | |
| | DISCONNECT SWITCH (FRAME/POLES/FUSE-IF REQUIRED) | |
| | MOTOR - NUMBER INDICATES HORSEPOWER (F=FRACATIONAL) | |
| | FIRE ALARM ADA APPROVED VISUAL ALARM - WALL MOUNTED | 80" A.F.F. |
| | FIRE ALARM ADA APPROVED VISUAL ALARM - CEILING MOUNTED | |
| | FIRE ALARM ADA APPROVED AUDIO/VISUAL ALARM - WALL MOUNTED | 80" A.F.F. |
| | FIRE ALARM ADA APPROVED AUDIO/VISUAL ALARM - CEILING MOUNTED | |
| | FIRE ALARM PULL STATION | 48" A.F.F. |
| | SMOKE DETECTOR - CEILING MOUNTED | |
| | DUCT MOUNTED SMOKE DETECTOR | |
| | MAGNETIC DOOR HOLD DEVICE TO INTERLOCK WITH FIRE ALARM SYSTEM | |
| | EXIT SIGN - CEILING/WALL MT. | |
| | LIGHT FIXTURE ON EMERGENCY CIRCUIT | |
| | FLOUORESCENT LIGHT FIXTURE | |
| | FURNISHED BY OTHERS | |
| | ABOVE FINISHED FLOOR/ABOVE FINISHED GRADE | |
| | BELOW CEILING | |
| | ABOVE COUNTER | |
| | WEATHER PROOF | |
| | EXISTING/RELOCATED/NEW | |
| | GFI | |
| | EMPTY CONDUIT (PROVIDE PULLSTRING IN ALL EMPTY CONDUIT) | |
| | FUSE PER MANUFACTURER'S RECOMMENDATION | |
| | ISOLATED GROUND | |

NOTES:

- COORDINATE LOCATION AND SPECIFIC MOUNTING HEIGHT WITH ARCHITECT.
- MOUNTING HEIGHTS SHALL BE AS INDICATED IN THE LEGEND UNLESS OTHERWISE NOTED ON THE PLANS.



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Date 12/15/2017 Description ISSUE FOR PERMIT AND CONSTRUCTION

Seal / Signature

Project Name 12/15/17
Unum Workplace Transformation
- Phase 2 & 3 (H02 & H03)
Project Number
59.6481.003
Description
LEGENDS, NOTES, & DETAILS - ELECTRICAL

Scale
NO SCALE

E0.001