GENERAL NOTES, LUMINAIRE SCHEDULE

- 1. MODEL IS GIVEN FOR QUALITY ONLY, SUBSTITUTE LIGHT FIXTURES SHALL BE OF EQUAL OR GREATER QUALITY AND MATCH THE DESIGN INTENT OF THE ENGINEER/LIGHTING SYSTEM DESIGNER.
- 2. ALL FIXTURES TO BE PROVIDED WITH LAMPS INSTALLED. CONFIRM LAMP BASE TYPES TO AVOID CONFLICTS. 3. ALL FIXTURES TO BE PROVIDED WITH REQUIRED MOUNTING HARDWARE FOR INSTALLATION TYPE SHOWN.
- 4. ANY SITE LIGHTING SUBSTITUTIONS SHALL BE ACCOMPANIED BY COMPLETE POINT-BY-POINT SITE PHOTOMETRICS AND SHALL MEET DESIGNED LIGHT LEVELS AND CUT-OFFS. ANY SUBSTITUTIONS SUBMITTED WITHOUT CALCULATIONS WILL BE REJECTED. 5. ALL FINISHES AND COLORS SHALL BE VERIFIED WITH THE OWNER/ARCHITECT PRIOR TO ORDERING.
- 6. ALL 0-10 VOLT DIMMABLE LUMINIARES REQUIRE THE CONTRACTOR TO PROVIDE AND INSTALL ADDITIONAL LOW-VOLTAGE WIRING FROM THE LUMINIARE TO THE CONTROL LOCATION, INCLUDING, BUT NOT LIMITED TO: EMERGENCY BATTERY
- BACK-UP, POWER FROM INVERTERS CONTAINING DIMMING FOR LUMINIARES TO OPERATE LESS THAN 100%, AND ALL LIGHTING CONTROL SYSTEM REQUIREMENTS. 7. PROVIDE ALL REQUIRED CONTROL WIRING, FIXTURE MODULES, DEVICES, ETC. TO ACCOMMODATE CONTROLS AS INDICATED ON FLOOR PLANS, INCLUDING, BUT NOT LIMITED TO: DIMMING, AUTOMATIC ON/OFF, DAYLIGHT HARVESTING, ETC.
- 8. FINAL LUMINAIRE SELECTIONS SHALL BE COORDINATED WITH ARCHITECTURAL CEILING DESIGN AND CEILING SYSTEM INSTALLER PRIOR TO PURCHASE OF FINAL LUMINAIRE SELECTION.
- 9. EACH LUMINIARE SHALL HAVE BEEN TESTED AND CERTIFIED FOR PROPER OPERATION BY THE MANUFACTURER FOR THE TYPE OF SURFACE AND MOUNTING ARRANGEMENT ON WHICH IT IS INSTALLED.
- 11. CONTRACTOR SHALL VERIFY ALL CEILING TYPES AND RATINGS PRIOR TO ORDERING LUMINAIRES DRYWALL, CEILING TILE, FIRE RATING, INSULATION RATING (IC RATING), ETC. AND PROVIDE REQUIRED RATING OF LUMINAIRES. 12. LUMINAIRES SHALL BE SET LEVEL, SQUARE, AND PLUMB WITH CEILING AND WALLS.
- 13. LUMINAIRES SHALL BE SUPPORTED IN EACH CORNER TO THE BUILDING STRUCTURE ABOVE DROPPED CEILING. PROVIDE GRID CLIPS AS REQUIRED.
- REMARKS, LUMINAIRE SCHEDULE
- 1. PROVIDE FIXTURE WITH MINIMUM 90-MINUTE BATTERY BACKUP FOR EMERGENCY OPERATION.
- 2. PROVIDE FIXTURE WITH INTEGRAL PHOTOCELL CONTROLS AND ANY ASSOCIATED ADAPTER AND TWIST LOCK RECEPTACLES AS REQUIRED.
- 3. PROVIDE 20' ALUMINUM POLE AND BASE FOR MOUNTING OF LIGHT FIXTURE.

TO FIRE ALARM CONTROL PANEL PLYWOOD BACKBOARD 8 TO SERVICE ENTRANCE GROUND BUS GRADE | MDF/SERVER ROOM

LOW VOLTAGE RISER DIAGRAM

NOT TO SCALE

CONNECTION POINT

PROVIDE ALL CONDUIT SLEEVE REQUIREMENTS FROM BACKBOARDS TO PROJECT AREAS WITH LOW-VOLTAGE CONTRACTOR(S). PROVIDE ADDITIONAL RACEWAY AS REQUIRED. * XEYED NOTES - LOW VOLTAGE RISER PROVIDE TWO (2) 4" CONDUITS FOR TO UTILITY CONNECTION POINT FOR ROUTING OF UTILITY PROVIDE 4'X8'X3/4" PLYWOOD BACKBOARD PAINTED ON ALL SIX SIDES WITH GREY FIRE-RETARDANT PAINT FOR MOUNTING OF LOW-VOLTAGE EQUIPMENT. PROVIDE TELECOMMUCATIONS MAIN GROUNDING BAR (TMGB) AT PLYWOOD BACKBOARD FOR GROUNDING OF LOW VOLTAGE EQUIPMENT AND TERMINATION OF OTHER IDF GROUND BARS. REFER TO DETAILS FOR ADDITIONAL INFORMATION. PROVIDE ONE (1) #3/0 AWG INSULATED COPPER GROUNDING CONDUCTOR TO SERVE AS TELECOMMUNICATIONS BONDING CONDUCTOR (TBC) FROM TELECOMMUNICATIONS MAIN GROUNDING BAR (TMGB) TO BUILDING SERVICE ENTRANCE GROUND BUS. BOND TO GROUND BUS IN NEAREST PANELBOARD UTILIZING ONE (1) #3/0 AWG INSULATED COPPER GROUNDING CONDUCTOR. BOND TO BUILDING STEEL UTILIZING ONE (1) #3/0 AWG INSULATED COPPER GROUNDING CONDUCTOR. PROVIDE 4" CONDUIT SLEEVE(S) FOR ROUTING OF LOW-VOLTAGE CABLING FROM TEL/DATA ROOM TO DEVICE DROP LOCATIONS. PROVIDE 1" CONDUIT STUB AND PULLSTRING FROM

EACH LOW-VOLTAGE WALLBOX TO ABOVE-CEILING

PROVIDE 3/4" CONDUIT AND PULLSTRING TO FIRE

ALARM CONTROL PANEL FOR ROUTING OF

COMMUNICATIONS CABLING.

GENERAL NOTES - LOW VOLTAGE RISER

LOCATIONS OF DEVICES.

569 AND 607.

TYPICAL RISER IS DIAGRAMMATIC ONLY. REFER TO

FLOOR PLANS FOR EQUIPMENT AND QUANTITIES AND

PROVIDE FIRE RATED CAULK AROUND ALL CONDUITS

WHERE THEY PENETRATE FLOORS AND RATED

PROVIDE ALL WORK IN ACCORDANCE WITH TIA/EIA

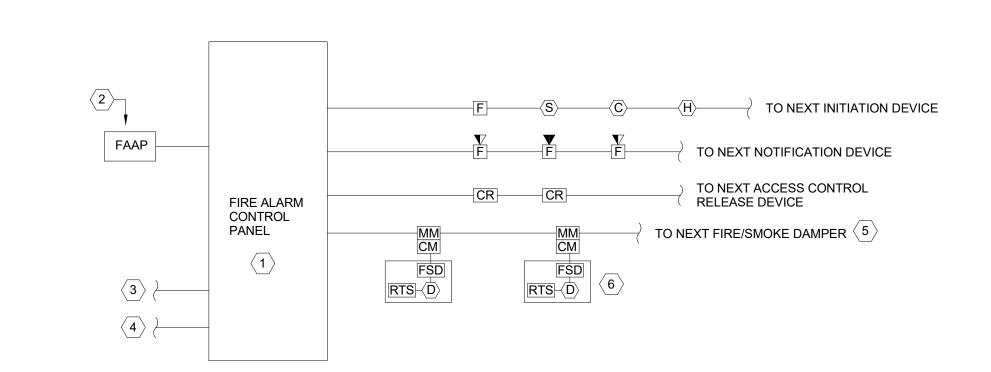
PROVIDE NYLON BUSHINGS ON BOTH ENDS OF ALL

CONDUITS. PROVIDE NYLON PULLROPE IN ALL

PROVIDE GROUNDING PER NEC AND

MANUFACTURER'S REQUIREMENTS.

FIRE ALARM MATRIX MANUAL PULL BOX SMOKE DETECTOR HEAT DETECTOR | • | • | • | DUCT DETECTOR D • • V • • SYSTEM ALARM W • SYSTEM SUPERVISORY SYSTEM TROUBLE • • • • GROUND FAULT FIRE ALARM SYSTEM LOW BATTERY • • FIRE ALARM AC POWER FAILURE AA • • AA NOTIFICATION APPLIANCE CIRCUIT SHORT BB • • BB CC • • • CC OPEN CIRCUIT DD DD FAN ON SWITCH EE FAN OFF SWITCH FF DAMPER OPEN SWITCH GG DAMPER CLOSE SWITCH LAMP TEST KK RESET SWITCH TROUBLE SILENCE DOOR UNLOCK LOCK SWITCH



1 | 2 | 3 | 4 | 5 | 8 | 10 | 11 | 16 | 24 | 25 | 26 | 27 | 28 | 29 |

FIRE ALARM RISER DIAGRAM

NOT TO SCALE

GENERAL NOTES - FIRE ALARM RISER TYPICAL RISER IS DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS FOR EQUIPMENT AND QUANTITIES AND

CONTRACTOR SHALL PROVIDE FULL SYSTEM RISER DIAGRAM FOR REVIEW WITH SHOP DRAWING SUBMITTAL.

LOCATIONS OF DEVICES.

- PROVIDE ALL WORK IN ACCORDANCE TO TIA/EIA 569. FIRE ALARM SYSTEM SHALL BE CAPABLE OF PROVIDING CARBON MONOXIDE (CO) DETECTION PER PLANS, SPECIFICATIONS, AND ALL NFPA 72 AND 720 REQUIREMENTS.
- FIRE ALARM SYSTEM SHALL BE CAPABLE OF EXPANSION TO INCLUDE 25% FUTURE EXPANSION.
- REFER TO THE EQUIPMENT AND CONNECTION SCHEDULE FOR EQUIPMENT REQUIRED TO BE SHUT DOWN UPON SYSTEM ACTIVATION.
- PROVIDE GROUNDING PER NEC AND MANUFACTURER'S REQUIREMENTS.
- PROVIDE ALL ADDRESSABLE INTERFACE MODULES, RELAY EXPANSION MODULES, AND HARDWARE
- REQUIRED TO ACCOMMODATE DEVICES SHOWN. WIRING SHALL BE PROVIDED IN CONDUIT OR ROUTED IN "FREE AIR." WHERE ROUTED IN CONDUIT, CONDUIT SHALL BE 'EMT' TYPE CONDUIT PAINTED RED, 3/4" MINIMUM SIZE. WHERE ROUTED IN "FREE AIR," WIRING SHALL BE PLENUM-RATED AND SUITABLE FOR ROUTING IN FREE AIR, SUPPORTED
- PER SPECIFICATIONS AND DETAILS. PROVIDE FIRE-RATED CAULK AROUND CONDUITS
- WHERE THEY PENETRATE FLOORS AND RATED PROVIDE BREAKER HANDLE LOCK FOR ALL FIRE ALARM SYSTEM CIRCUIT BREAKERS. PROVIDE NYLON BUSHINGS ON BOTH ENDS OF ALL
- . COORDINATE EXACT FIRE ALARM SYSTEM WIRING, INCLUDING SIZES, QUANTITIES, AND ROUTING WITH FIRE ALARM MANUFACTURER AND SITE CONDITIONS. WIRING INDICATED ON THE RISER DIAGRAM IS
- DIAGRAMMATIC ONLY AND IS NOT INTENDED TO INDICATE ROUTING OR QUANTITIES OF WIRES REQUIRED. PROVIDE WIRING FOR A COMPLETE SYSTEM AS REQUIRED BY SYSTEM MANUFACTURER. ALL WIRING CIRCUITS SHALL BE 'CLASS B' TYPE.

* KEYED NOTES - FIRE ALARM RISER

- PROVIDE FIRE ALARM CONTROL PANEL AS REQUIRED BY SPECIFICATIONS AND FOR A COMPLETE AND OPERABLE FIRE ALARM SYSTEM AS INDICATED IN THE DRAWINGS AND SPECIFICATIONS.
- PROVIDE FIRE ALARM ANNUNCIATOR PANEL AS INDICATED ON DRAWINGS.
- PROVIDE 3/4" CONDUIT AND PULLSTRING TO IT ROOM BACKBOARD FOR ROUTING OF TELEPHONE CABLING. CABLING PROVIDED BY LOW-VOLTAGE CONTRACTOR. COORDINATE WITH LOW-VOLTAGE CONTRACTOR FOR TERMINATION OF CABLING AND TESTING OF SYSTEMS INTEGRATION.
- PROVIDE 3/4" CONDUIT AND PULLSTRING TO ACCESS CONTROL PANEL FOR ROUTING OF ACCESS CONTROL CABLING. CABLING PROVIDED BY LOW-VOLTAGE CONTRACTOR. COORDINATE WITH LOW-VOLTAGE CONTRACTOR FOR TERMINATION OF CABLING AND TESTING OF SYSTEMS INTEGRATION.
- PROVIDE FIRE ALARM CONNECTION TO FIRE/SMOKE DAMPER AND ASSOCIATED DUCT SMOKE DETECTOR/REMOTE TEST STATION. DAMPER, DETECTOR, AND TEST STATION PROVIDED BY MECHANICAL CONTRACTOR.
- FURNISHED BY MECHANICAL CONTRACTOR.

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