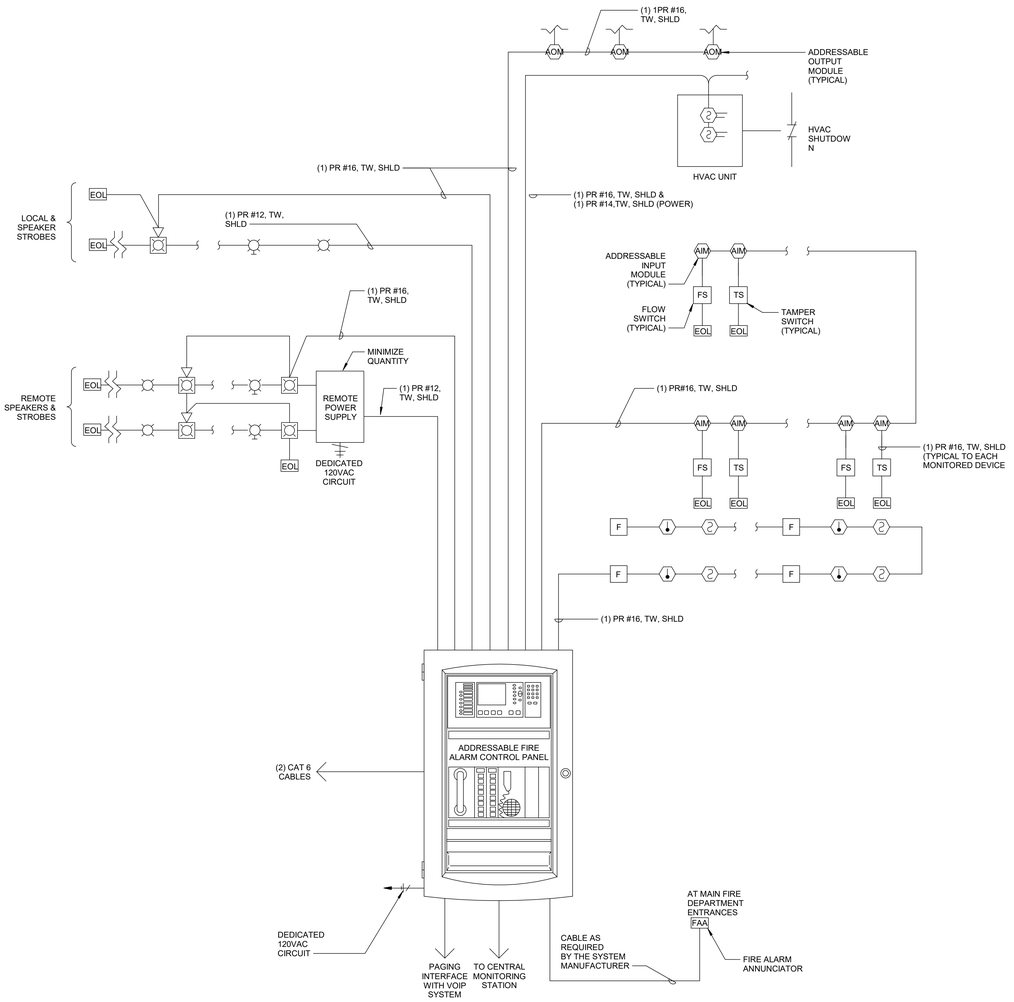

1 / TF-801 FIRE ALARM "VOICE" RISER DIAGRAM

SCALE: 3/4" = 1'-0"

FIRE ALARM VOICE RISER DIAGRAM GENERAL NOTES:

1. SEE SHEET TA-001 FOR SYMBOL SCHEDULE AND GENERAL NOTES.
2. INSTALLATION SHALL BE DONE IN STRICT ACCORDANCE WITH ALL PERTINENT CODES, REGULATIONS, RULES, AND LAWS OF THE AUTHORITY, AND LOCAL JURISDICTION, AS WELL AS PER PLANS AND SPECIFICATIONS.
3. THE CONTRACTOR SHALL FURNISH ALL LABOR, SERVICES AND MATERIALS NECESSARY TO INSTALL A COMPLETE, AND FUNCTIONAL FIRE ALARM SYSTEM.
4. THE CONTRACTOR SHALL HAVE SUCCESSFULLY INSTALLED A SIMILAR FIRE DETECTION SYSTEM AND SIGNALING CONTROL COMPONENTS ON A PREVIOUS PROJECT OF COMPARABLE SIZE AND COMPLEXITY.
5. ALL EQUIPMENT AND COMPONENTS SHALL BE THE MANUFACTURER'S CURRENT MODEL. ALL SYSTEM COMPONENTS SHALL BE CATALOGED PRODUCTS OF A SINGLE SUPPLIER. ALL PRODUCTS SHALL BE LISTED BY THE MANUFACTURER FOR THEIR INTENDED PURPOSE.
6. EACH FIRE ALARM AUTOMATIC OR MANUAL INITIATING DEVICE SHALL BE A SINGLE ADDRESSABLE POINT.
7. MONITORING OF ALL FIRE PUMP CONTROLLERS, POST INDICATOR VALVES, SECTIONAL CONTROL VALVES, SPRINKLER FLOW SWITCHES, AND SPRINKLER VALVE TAMPER SWITCHES SHALL BE PROVIDED. PROVIDE EXTERIOR NOTIFICATION APPLIANCES AT THE LOCATION OF ALL SUPPRESSION SYSTEM RISERS.
8. THE FIRE ALARM VENDOR SHALL PROVIDE MONITORING OF ALL CODE REQUIRED SYSTEMS INCLUDING ALARM, TROUBLE, AND SUPERVISORY SIGNALS.
9. ADDRESSABLE DUCT SMOKE DETECTORS SHALL BE INSTALLED IN ALL AIR HANDLER UNITS AS REQUIRED BY CODE, IN A LOCATION ACCESSIBLE FOR CLEANING AND TESTING, IN A LOCATION APPROVED BY THE HVAC UNIT MANUFACTURERS AND IN A LOCATION APPROVED BY THE AHJ. DUCT SMOKE DETECTORS SHALL BE WIRED TO SHUT OFF POWER TO LOCAL AIR HANDLING EQUIPMENT. BOTH ENDS OF THE SAMPLING TUBE SHALL BE SECURED, AND THE SUPPLY TUBE END CAPPED.
10. INCOMING 120VAC 60HZ POWER SHALL BE DEDICATED AND EQUIPPED WITH ADDITIONAL SURGE SUPPRESSION SEPARATE FROM THE FIRE ALARM PANEL. PROVIDE A RED LOCKING BREAKER FOR ALL 120VAC POWER FEEDS TO FIRE ALARM EQUIPMENT.
11. WHERE MORE THAN TWO STROBES ARE IN THE SAME LINE OF SIGHT, OR IN THE SAME ROOM, THE STROBES SHALL FLASH IN SYNCHRONIZATION. ALL STROBES SHALL BE PLACED 80" TO 96" AFF FROM THE BOTTOM OF THE LENS
12. LOCATE SMOKE DETECTORS AND HEAT DETECTORS SO AS TO BE ACCESSIBLE FOR TESTING AND MAINTENANCE. VERIFY LOCATION WITH OWNER PRIOR TO INSTALLATION.
13. CONTRACTOR SHALL INSTALL THE NUMBER OF TRANSPONDER PANELS REQUIRED FOR THE ENTIRE FACILITY BASED ON THE MOST ECONOMICAL DESIGN.
14. PROVIDE AND INSTALL HARDWARE INTERFACE BETWEEN FIRE ALARM PANEL AND ACCESS CONTROL DOORS TO PROVIDE FOR UNLOCKING AND DOOR RELEASE IN THE EVENT OF A FIRE ALARM.
15. PROVIDE FOR 20% EXPANSION ON ALL ADDRESSABLE LOOPS, VISUAL CIRCUITS, AUDIBLE CIRCUITS, POWER SUPPLIES, AMPLIFIERS, BATTERIES, AND INTERNAL PANEL EXPANSION.
16. PROVIDE AND INSTALL THE REQUIRED INPUT AND OUTPUT CONNECTIONS TO ANCILLARY SYSTEMS. THIS INCLUDES BUT IS NOT LIMITED TO SHUTTING OFF ANY/ALL SOUND MAKING SYSTEMS, PAGING SYSTEMS AND BACKGROUND MUSIC SYSTEMS IN THE EVENT OF AN ALARM CONDITION.
17. ALL EXTERIOR UNDERGROUND WIRING WILL BE RATED AND LISTED FOR OUTDOOR USE AND BE CAPABLE OF BEING SUBMERGED UNDER WATER, SURGE PROTECTION SHALL BE INSTALLED AT EACH END OF ALL EXTERIOR MONITORED DEVICES.
18. ALL FIRE ALARM CABLE WILL BE LISTED FOR INTENDED USE AND SHALL HAVE ITS LISTING ON THE OUTER JACKET. ALL FIRE ALARM CABLE SHALL HAVE AN OUTER JACKET THAT IS RED IN COLOR. THIS INCLUDES ALL CABLING USED FOR ANY FIRE ALARM DEVICE(S) INCLUDING PIVS, SCVS, FLOW SWITCHES, OR ANY OTHER MONITORED POINT CONNECTED TO THE FIRE ALARM SYSTEM. ALL FIRE ALARM CABLE SHALL HAVE A SURVIVABILITY LEVEL OF 2, AS DEFINED BY NFPA 72.
19. FIRE ALARM SYSTEM RISER DIAGRAM IS REPRESENTATIVE AND CONCEPTUAL ONLY. CABLES ARE SHOWN AS EXAMPLE ONLY. RISER DIAGRAM IS PROVIDED FOR A BASIC SYSTEM OUTLINE AND ZONING AID. FURNISH AND INSTALL ALL EQUIPMENT, CABLE AND DEVICES REQUIRED TO MEET THE INTENT OF THE SPECIFICATIONS. PROVIDE CABLE PER MANUFACTURER AND CIRCUIT REQUIREMENTS. ALL DEVICES NOT SHOWN.
20. PROVIDE CONDUCTORS POWER SUPPLIES AND WIRE GAUGE NECESSARY TO SUPPLY EACH STROBE WITH 110cd PER DEVICE.
21. ALL CABLES SHALL BE SHIELDED UNLESS MANUFACTURER CAN PROVE THAT SIGNALING, POWER, AND AUDIO WILL NOT BE AFFECTED BY EMI AND OTHER INTERFERENCE. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO MAINTAIN PROPER SEPARATION FROM OTHER CABLES AT ALL TIMES. ALL CABLES AND FIBER WILL BE IN CONDUIT OR CABLE TRAY.
22. PROVIDE MINIMUM 15db ABOVE AMBIENT FIRE ALARM AUDIBLE NOTIFICATION SIGNAL FOR ALL AREAS.
23. INCLUDE AUDIBLE ALARM NOTIFICATION EXTERIOR TO THE BUILDING AS SHOWN ON DRAWINGS.
24. FIELD LOCATE NOTIFICATION APPLIANCE POWER SUPPLIES AS REQUIRED TO SERVE STROBES. PROVIDE DEDICATED 120V POWER TO ALL STROBE POWER SUPPLIES. NOTIFICATION APPLIANCE CIRCUITS SHALL NOT BE T-TAPPED.
25. COORDINATE ALL WORK WITH THE FIRE PROTECTION CONTRACTOR. MONITOR ALL TAMPER AND FLOW SWITCHES. AS WELL AS SUPPRESSION SYSTEMS. COORDINATE EXACT QUANTITY AND LOCATIONS WITH FIRE PROTECTION CONTRACTOR.
26. LOCATE THE ALARM ANNUNCIATOR PANELS AT THE LOCATIONS TO BE DETERMINED BY OWNER.
27. PROVIDE AND INSTALL A FIRE ALARM MANUAL PULL STATION WITH 5'-0" OF EVERY EGRESS DOOR AND SO THAT THE MAXIMUM TRAVEL DISTANCE TO A MANUAL PULLSTATION DOES NOT EXCEED 200'-0".
28. PROVIDED SUFFICIENT EMERGENCY BATTERY BACKUP TO PROVIDE ALL FIRE ALARM EQUIPMENT 24 HOURS OF STAND BY POWER FOLLOWED BY 15 MINUTES OF ALARM.
29. THE FIRE ALARM SYSTEM SHALL MONITOR ANY/ALL EMERGENCY BACKUP GENERATORS.
30. SMOKE AND HEAT DETECTORS SHALL BE NO CLOSER THAN 3'-0" FROM ANY HVAC DIFFUSER OR RETURN AIR GRILL.
31. PROVIDE AND INSTALL AN EMERGENCY RESPONDER RADIO COVERAGE SYSTEM IN ALL BUILDINGS AS REQUIRED BY THE INTERNATIONAL FIRE CODE SECTION 510. COORDINATE RADIO FREQUENCIES WITH THE LOCAL AHJ.

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CONSULTANTS:

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DRAWING TITLE:
FIRE ALARM "VOICE" RISER DIAGRAM

DRAWING NO:
TF-801

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