



1 PARTIAL FIRE ALARM RISER DIAGRAM
SCALE: NOT TO SCALE

- FIRE ALARM RISER DIAGRAM GENERAL NOTES:**
- REFER TO SHEET E-001 FOR ELECTRICAL LEGEND, GENERAL NOTES, AND ABBREVIATIONS.
 - THE FIRE ALARM CONTRACTOR SHALL PAINT NEW AND EXISTING FIRE ALARM CONDUIT RED IN COLOR.
 - ALL NEW CONDUITS INSTALLED INSIDE SHALL BE EMT (ELECTRICAL METALLIC TUBING).
 - THE FIRE ALARM CONTRACTOR SHALL PROVIDE CUTTING AND PATCHING ON ALL WALL OR CEILING OPENINGS.
 - THE ROUTING PATH OF FIRE ALARM CIRCUITS AND GROUPING OF FIRE ALARM DEVICES ON EACH FIRE ALARM CIRCUIT ARE DIAGRAMMATIC ONLY. THE CONTRACTOR SHALL ROUTE AND GROUP FIRE ALARM DEVICES IN THE MOST EFFICIENT MANNER. THE CONTRACTOR SHALL SUBMIT FIRE ALARM SHOP DRAWING OF THE FIRE ALARM SYSTEM PRIOR TO BEGINNING CONSTRUCTION.
 - THE FIRE ALARM INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING BUT NOT LIMITED TO: NEW FIRE ALARM DEVICES, JUNCTION BOX, CONDUIT, FIRE ALARM CABLING ETC. THE PROGRAMMING OF THE FIRE ALARM SYSTEM SHALL BE BY: NORTHEAST INTEGRATED SYSTEMS.

- FIRE ALARM RISER KEYED NOTES:**
- NEW FACP (FIRE ALARM CONTROL PANEL) . LOCATED IN BREAK ROOM NO. 101, THE CONTRACTOR SHALL ROUTE NEW FIRE ALARM CABLING FROM FIRE ALARM DEVICE TO NEW FACP AND NAC PANEL AS INDICATED. THE CONTRACTOR SHALL INCLUDE IN BID NUMBER ALL ASSOCIATED COST OF PROGRAMMING NEW FIRE ALARM DEVICES ONTO THE EXISTING SYSTEM.
 - THE CONTRACTOR SHALL PROVIDE FIRE ALARM CIRCUITING PER MANUFACTURER RECOMMENDATIONS (TYPICAL).
 - THE CONTRACTOR SHALL ROUTE NEW COPPER FIRE ALARM CONDUCTORS UNDERGROUND FROM EXISTING BOILER PLANT TO NEW FACP LOCATED IN NEW BOILER PLANT.
 - THE FIRE ALARM CONTRACTOR SHALL CONNECT COPPER FIRE ALARM CABLING TO EXISTING FACP LOCATED IN EXISTING BOILER PLANT.
 - PROVIDE FIRE ALARM ANNUNCIATOR AS INDICATED.

INPUT DEVICE \ OUTPUT	1. SOUND GENERAL BUILDING ALARM FOR OTHER AND NON HIGH RISE (NON HEALTH CARE). SEE SECTION 7.2.1	2. NOTIFY NECESSARY STAFF FOR RESPONSE FOR HEALTH CARE, HEALTH CARE** AND HIGH RISE BUILDINGS ONLY (ALARM SIGNAL MAY BE DIFFERENT ON DIFFERENT FLOORS).	3. NOTIFY FIRE DEPARTMENT	4. INITIATE SUPERVISORY SIGNAL TO A 24-HOUR MANNED POINT FOR IMMEDIATE RESPONSE	5. CLOSE ASSOCIATED SMOKE BARRIER DOORS ON THE FLOOR.	6. CLOSE DAMPERS ON FAN	7. SHUT DOWN AIR HANDLER	8. RECALL ELEVATOR	9. INITIATE ELEVATOR SHUT DOWN AND DISCONNECT ELEVATOR POWER.	10. OPEN**LOCKED EGRESS DOORS ON FLOOR OF FIRE ORIGIN.	11. DISCONNECT FUEL SOURCE FROM COOKING EQUIPMENT.	12. NOT APPLICABLE
DUCT SMOKE DETECTOR				X ^b			X ^g					
AREA SMOKE DETECTOR	X	X	X							X		
DOOR RELEASE SMOKE DETECTOR												X
ELEVATOR SMOKE DETECTOR												X
MANUAL PULL STATION	X	X	X							X		
ELEVATOR MACHINE ROOM HEAT DETECTOR												X
GENERATOR ROOM HEAT DETECTOR	X	X	X									
SPRINKLER WATER FLOW / PRESSURE SWITCH	X	X	X		X					X		
WATER CONTROL VALVE TAMPER				X								
FIRE PUMP (ANY CONDITION REQUIRED BY NFPA)												X
HIGH / LOW PRESSURE DRY-PIPE SPRINKLER SYSTEM				X								
KITCHEN HOOD SUPPRESSION SYSTEM												X
GAS EXTINGUISHING SYSTEMS												X
DRY PIPE VALVE ROOM TEMPERATURE ALARM												X
DEDICATED FIRE WATER STORAGE TANK LOW LEVEL												X
DEDICATED FIRE WATER STORAGE TANK LOW TEMPERATURE												X

A-DO NOT PROVIDE DUCT DETECTORS IN DEDICATED (100%) EXHAUST FANS, THEY SHOULD CONTINUE TO RUN.
 B-THE FACILITY IS PERMITTED TO SOUND THE GENERAL ALARM OR NOTIFY NECESSARY STAFF IN LIEU OF INITIATING A SUPERVISORY SIGNAL TO BE CONSISTENT WITH THE OPERATION OF EXISTING SYSTEMS.
 NOTE: FACP FOR BUILDING NO. 12 MUST ANNUNCIATE TO MONITORING COMPANY AUTO-DIALER IS LOCATED IN BUILDING NO. 5 ROOM NO. E23.

2 INPUT/OUTPUT MATRIX DETAIL
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ADDENDUM 3	01-16-2025	CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management	Drawing Title FIRE ALARM DETAILS	Phase 100% CONSTRUCTION DOCUMENTS	Project Title SIOUX FALLS BOILER PLANT	Project Number 438-22-900
Revisions:	Date:		paradigm Architecture Engineering Design-Build 9000 Weesevex Place, Louisville, KY 40222 www.paradigmusa.com	TYLER M. MONTGOMERY LICENSE NO. 007114 1/24/2025	VA U.S. Department of Veterans Affairs	Approved: Project Director	FULLY SPRINKLERED	Location VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105	Building Number 12
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								Drawn KMB	Drawing Number FA501