

FIRE ALARM SEQUENCE OF OPERATION MATRIX

| | Base Building Fire Alarm Control Panel (FACP) Actions | | | | | | Fire Alarm Releasing Panel (FARP) Actions | | | | | | | | | | | | |
|---|---|--|--|--|--|--|---|---|---|---|---|--|--|---------------------------------------|------------------------------------|--|--|--|--|
| | Actuate Alarm Signal on Base Building FACP | Actuate Supervisory Signal on Base Building FACP | Actuate Trouble Signal on Base Building FACP | Send Alarm Signal to UL Central Monitoring Station | Send Supervisory Signal to UL Central Monitoring Station | Send Trouble Signal to UL Central Monitoring Station | Actuate Alarm signal on Fire Alarm Releasing Panel (FARP) | Actuate Supervisory signal on Fire Alarm Releasing Panel (FARP) | Actuate Trouble signal on Fire Alarm Releasing Panel (FARP) | Actuate Clean Agent Discharge signal on Fire Alarm Releasing Panel (FARP) | Actuate Timer Countdown (30 sec) Clean Agent Release in Detection Area to Discharge | Close Dampers in Clean Agent Discharge Area Boundary | Shutdown HVAC Systems Serving Clean Agent Discharge Zone | Actuate Clean Agent Release Discharge | Actuate Clean Agent Abort Sequence | Actuate Clean Agent First Alarm Horn / Amber Strobe (Stow Pulse) | Actuate Clean Agent Pre-Discharge Alarm Horn / Amber Strobe (Fast Pulse) | Actuate Clean Agent Discharge Alarm Horn / Amber Strobe (Continuous) | Actuate Amber Strobe Outside of Protected Zone (Clean Agent) |
| Clean Agent Manual Pull (15 Sec Delay) "By Zone" | x | | | | | | | | | | | | | | | | | | |
| Clean Agent Release (Countdown Ends) "By Zone" | x | | | x | | | x | x | | | | | | | | | | | |
| 1st Smoke Detector | x | | x | | | | x | x | | | | | | | | | | | |
| 2nd Smoke Detector | x | | x | | | | x | x | | | | | | | | | | | |
| Clean Agent Abort Button "By Zone" | | x | | x | | | | | x | | | | | | | | | | |
| Clean Agent Low Press Switch on Tanks / Maint. Switch "By Zone" | | x | | x | | | | | x | | | | | | | | | | |
| FIKE Control Panel Trouble | | | x | | | x | | | | | | | | | | | | | |

- NOTES:
- Gray cells indicate sequence of operations associated with base Building Panel
 - Blue cells indicate sequence of operations associated with FIKE fire alarm releasing panels
 - Sequence of operations is conceptual in nature. Contractor shall provide detailed sequence of operations clearly indicating specific design criteria (10/24/25)

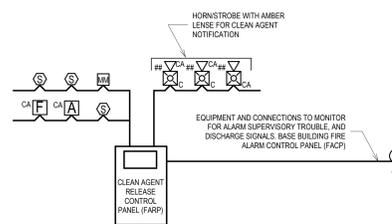
| FIRE ALARM LEGEND | |
|-----------------------|--|
| (S) | SMOKE DETECTOR |
| (S)(H) | SMOKE + HEAT DETECTOR |
| (H) | HEAT DETECTOR |
| (F) | FIRE ALARM PULL STATION |
| CA(F) | MANUAL CLEAN AGENT RELEASE STATION |
| CA(A) | CLEAN AGENT ABORT STATION |
| XX XX CA XX X C | COMBINATION HORN - AMBER STROBE APPLIANCE - CEILING MOUNT (XX = CANDELA RATING, C = CEILING MOUNT, CA = CLEAN AGENT) |
| XX X X | COMBINATION HORN - STROBE APPLIANCE - WALL MOUNT (XX = CANDELA RATING) |
| (V) | FIRE ALARM BELL - WALL MOUNTED (V = VIBRATING) |
| XX X X | STROBE APPLIANCE - WALL MOUNTED (XX = CANDELA RATING) |
| (CM) | CONTROL MODULE |
| (MM) | MONITOR MODULE |
| (FARP) | FIRE ALARM RELEASING PANEL (CLEAN AGENT) |
| (MS) | KEYED MAINTENANCE SWITCH |
| (PS) | DISCHARGE PRESSURE SWITCH |
| (L) | LOW PRESSURE SWITCH |
| ABBREVIATIONS | |
| CA | CLEAN AGENT |
| CD | CANDELA |
| CF | CUBIC FEET |
| ETR | EXISTING TO REMAIN |
| FARP | FIRE ALARM RELEASING PANEL |
| FACP | FIRE ALARM CONTROL PANEL |
| NFPA | NATIONAL FIRE PROTECTION ASSOCIATION |
| SF | SQUARE FEET |

- SCOPE OF WORK**
- THIS PROJECT CONSISTS OF THE DEMOLITION OF AN EXISTING FM200 CLEAN AGENT SYSTEM AND THE INSTALLATION OF A NEW 6-1/2 INCH DIAMETER CLEAN AGENT SYSTEM IN THE SAME ROOM (VAULT L04). THE NEW SYSTEM WILL ALSO BE EXPANDED TO PROTECT THREE ADDITIONAL ROOMS (GENERAL ARCHIVES L04, GENERAL STAFF ROOM L03, AND PHOTO ARCHIVES L05).
- GENERAL REQUIREMENTS**
- THESE BID DOCUMENTS ARE INTENDED FOR CONTRACTOR SOLICITATION PURPOSES ONLY AND SHALL NOT BE SUBMITTED FOR JURISDICTIONAL APPROVAL. THE SELECTED CONTRACTOR SHALL PRODUCE AND SUBMIT SHOP DRAWINGS FOR PERMIT.
 - ALL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO BE USED FOR EXACT MEASURE OR FABRICATION. CONTRACTOR SHALL INSTALL ALL FIRE ALARM COMPONENTS IN ACCORDANCE WITH ALL APPLICABLE CODES. CONTRACTOR SHALL COORDINATE INSTALLATION OF SYSTEM CONDUIT AND OTHER COMPONENTS WITH ALL OTHER TRADES.
 - ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND OTHER OWNER REQUIREMENTS.
 - IN CASE OF DISCREPANCY AS TO INTENT OF DRAWING OR SPECIFICATIONS, OBTAIN ENGINEERS WRITTEN APPROVAL BEFORE PROCEEDING WITH WORK.
 - DESIGN AND INSTALL THE CLEAN AGENT SYSTEM TO MEET THE REQUIREMENTS OF ALL CODES AND STANDARDS LISTED IN THE CONTRACT DOCUMENTS.
 - CHANGES IN THE LOCATIONS OF EQUIPMENT FROM THOSE SHOWN ON APPROVED DESIGN DRAWINGS SHALL BE IDENTIFIED AND APPROVED IN WRITING PRIOR TO INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECTIFYING UNAUTHORIZED NONCOMPLIANT CHANGES AT NO ADDITIONAL CHARGE TO THE OWNER.
 - THE CONTRACTOR IS SPECIFICALLY RESPONSIBLE FOR ALL MEANS AND METHODS OF JOB SAFETY. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
 - IF THE CONTRACTOR OPTS TO INSTALL EQUIPMENT OTHER THAN THAT SPECIFIED, HEIGHT SHALL BE RESPONSIBLE FOR PERFORMING THE NECESSARY DESIGN SERVICES TO ACCOMMODATE THE EQUIPMENT. ANY SUCH CHANGES SHALL BE PERFORMED BY A LICENSED PROFESSIONAL ENGINEER AND APPROVED BY THE OWNER.
 - ALL EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED.
 - ALL DEVICES NEEDED FOR A COMPLETE AND WORKING CLEAN AGENT SYSTEM ARE NOT NECESSARILY SHOWN ON THESE DESIGN DRAWINGS. PROVIDE ALL EQUIPMENT AND LABOR AS NECESSARY FOR A FULLY OPERATIONAL SYSTEM.
 - THE DESIGNING AND INSTALLING CONTRACTOR(S) SHALL MEET OR EXCEED THE LICENSING REQUIREMENTS OF THE COLORADO SPRINGS FIRE DEPARTMENT (CSFD).
 - QUALIFICATIONS: INSTALLERS RESPONSIBILITIES INCLUDE DESIGN, SUPPLY OF MATERIALS AND EQUIPMENT, INSTALLATION AND TESTING OF FIRE ALARM SYSTEMS. SHOP DRAWINGS SHALL BE PREPARED AND SIGNED BY A NICET LEVEL II OR IV TECHNICIAN OR QUALIFIED PROFESSIONAL ENGINEER. SUPERVISING INSTALLER SHALL BE A LEVEL NICET II OR HIGHER.
- INSTALLATION REQUIREMENTS**
- EACH COMPONENT OF THE FIRE ALARM SYSTEM SHALL BE LISTED FOR THE INTENDED USE BY UNDERWRITERS LABORATORIES, INC. (UL) AND SHALL BEAR THE "UL" LABEL.
 - ALL ELECTRICAL CIRCUITS SHALL BE NUMERICALLY IDENTIFIED AT BOTH ENDS WITH WIRE TAPED NUMBERS OR DISCREPANCIES.
 - WIRING SHALL BE INSTALLED WITH PLENUM RATED CABLE ABOVE CEILING AND CONCEALED WITHIN BUILDING CONSTRUCTION. WIRING SHALL BE INSTALLED WITHIN EMT TYPE CONDUIT IN AREAS WITH HARD-UD CEILING CONSTRUCTION AND VERTICAL RUNS IN ANY ELECTRICAL / MECHANICAL SPACE. SLEEVES SHALL BE USED AT ALL WALL PENETRATIONS.
 - ALL WIRING, CABLES, BOXES, TROUPHS AND OTHER RELATED EQUIPMENT SHALL BE INSTALLED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NEC).
 - FIRE ALARM DEVICE LOCATIONS SHALL BE COORDINATED WITH ARCHITECT AND OWNER TO MEET REQUIREMENTS OF NFPA 72 AND NFPA 2001. FIRE ALARM DEVICES SHALL BE SUPPORTED INDEPENDENTLY.
 - ALL PENETRATIONS OF FIRE RESISTANCE RATED BARRIERS, WALLS, AND SHAFT ASSEMBLIES SHALL BE DRILLED AND SEALED WITH AN APPROVED FIRE RATED THROUGH PENETRATION ASSEMBLY (UL CLASSIFICATION AND MATERIAL PRODUCT DATA SHEETS FOR ALL FIRE STOPPING SYSTEMS SHALL BE SUBMITTED AND APPROVED BEFORE ANY FIRE STOPPING IS INSTALLED. FIRE RESISTANCE RATED BARRIERS MAY BE PROVIDED BUT MAY NOT BE LIMITED TO CORRIDOR WALLS. CONTRACTOR TO FIELD VERIFY.
 - ADDRESSABLE CONTROL/RELAY MODULES UTILIZED FOR ANY SHUTDOWN OR ACTIVATION FUNCTIONS SHALL BE MOUNTED WITHIN THREE (3) FEET OF THE CONTROLLED CIRCUIT OR DEVICE.
 - INSTALLATION AND TERMINATIONS OF ALL WIRE SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS.
 - SIGNALING LINE CIRCUITS SHALL BE CLASS B.
 - NOTIFICATION APPLIANCE CIRCUITS SHALL BE CLASS B.
 - INITIATING DEVICE CIRCUITS SHALL BE CLASS B.
 - ALL PATHWAYS SHALL COMPLY WITH NFPA 70 AND HAVE A PATHWAY SURVIVABILITY OF LEVEL 0 PER NFPA 72.
 - ALL NEW CABLE RUNS SHALL BE CONTINUOUS BETWEEN DEVICES, WITHOUT SPLICES, WHERE FEASIBLE. WIRE CONNECTED TOGETHER SHALL HAVE THE SAME COLOR INSULATION. ALL CONNECTIONS SHALL BE ACCESSIBLE FOR INSPECTION AND SERVICE AND SHALL BE CLEARLY IDENTIFIED ON THE CONTRACTOR'S AS-BUILT DRAWINGS. ALL DEVICE BACK BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE ACCESSIBLE FOR INSPECTION AND MAINTENANCE.
 - CONTRACTOR SHALL PATCH AND PAINT ALL LOCATIONS WHERE WALLS, CEILING, OR OTHER SURFACES ARE DISTURBED.

- APPLICABLE CODES AND STANDARDS**
- 2021 INTERNATIONAL BUILDING CODE (IBC)
 - 2023 IBCS TEAM REGIONAL BUILDING CODE AMENDMENTS AS ADOPTED BY THE CITY OF COLORADO SPRINGS
 - 2021 INTERNATIONAL FIRE CODE (IFC)
 - 2023 NFPA 70, NATIONAL ELECTRICAL CODE (NEC)
 - 2025 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE
 - 2025 NFPA 2001, STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS

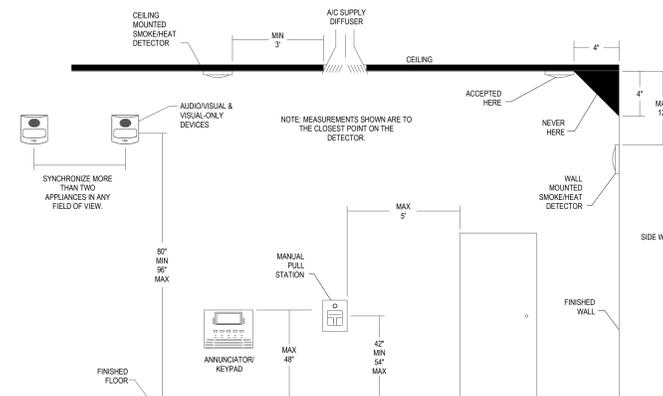
FIRE PROTECTION SHEET LIST

| SHEET NUMBER | SHEET NAME |
|--------------|--------------------------------------|
| F000 | GENERAL NOTES AND LEGENDS |
| FD101 | LEVEL 1 - FIRE SUPPRESSION DEMO PLAN |
| F100 | LEVEL 1 - CLEAN AGENT ZONES |
| F101 | LEVEL 1 - FIRE SUPPRESSION PLAN |



RISE R DIAGRAM IS SCHEMATIC IN NATURE. ALL APPLIANCES ARE NOT INDICATED. CONTRACTOR TO VERIFY ALL QUANTITIES PRIOR TO BID.

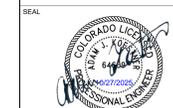
2 FIRE ALARM RISER DIAGRAM
Not to scale



1 FIRE ALARM DEVICE TYPICAL MOUNTING HEIGHTS
12" = 1'-0"

1905 CARNEGIE BUILDING CLEAN AGENT REPLACEMENT

| NO. | REVISION DESCRIPTION | DATE |
|-----|----------------------|------|
| | | |



PROJECT
1905 CARNEGIE BUILDING

ADDRESS
21 West Kiowa Street, Colorado Springs, CO 80903

PROJECT NO.
1C3C250011.000

DATE
10/24/2025

DESIGN ADR
CMD

SCALE
As indicated

TITLE
GENERAL NOTES AND LEGENDS

NUMBER
F000

SHEET
1 of 4

1

2

3

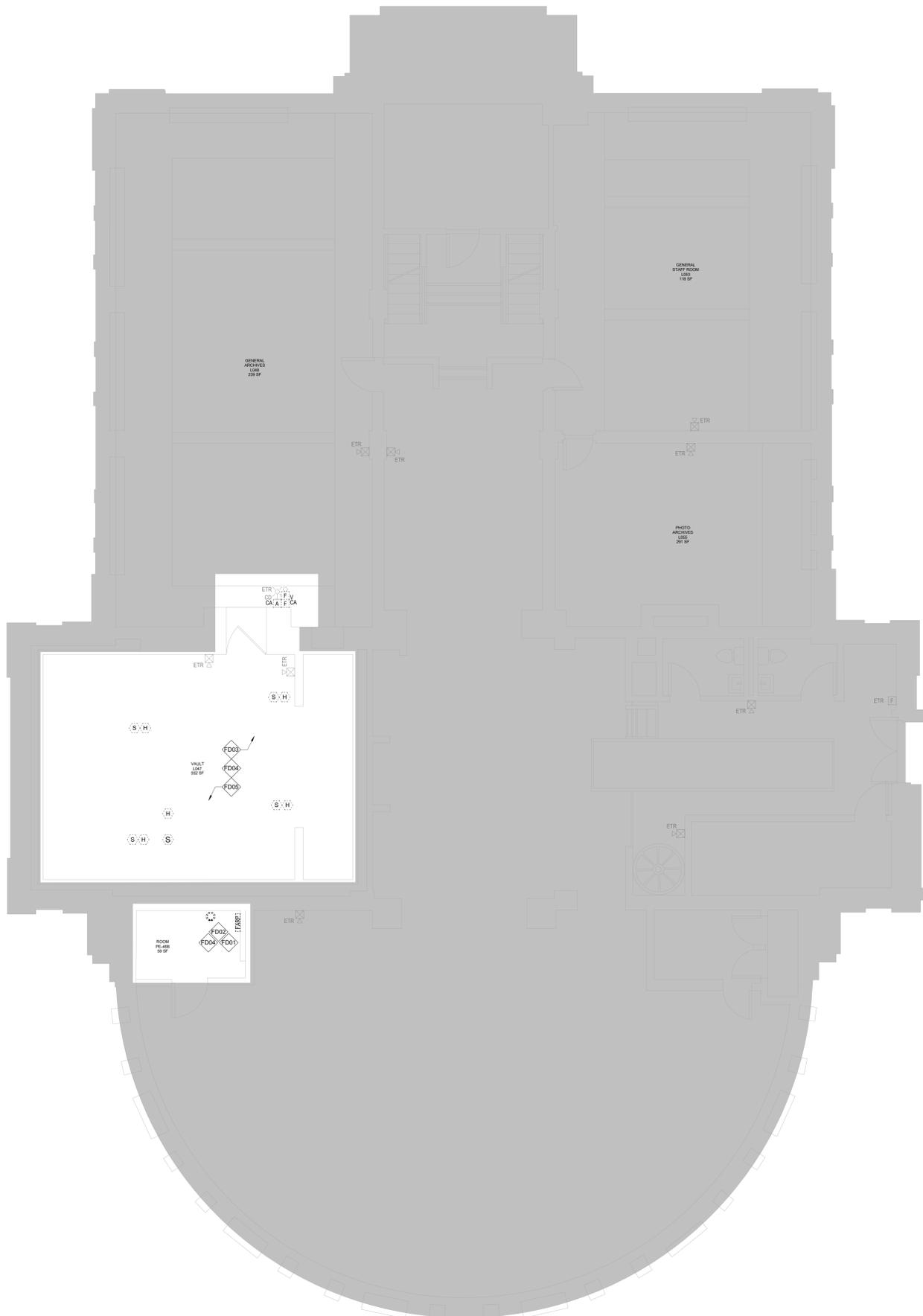
4

D

C

B

A



SHEET NOTES

1. EXISTING CLEAN AGENT SYSTEM INFORMATION IS SHOWN FOR REFERENCE AND BIDDING PURPOSES ONLY. NOT ALL DEVICES, APPLIANCES, OR PANELS MAY BE SHOWN AND LOCATIONS MAY NOT BE REPRESENTATIVE OF EXACT FIELD CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND PERFORM ANY ADDITIONAL MODIFICATIONS AS NECESSARY.

2. ALL EXISTING BASE BUILDING FIRE ALARM DEVICES AND NOTIFICATION APPLIANCES ARE TO REMAIN.

3. THIS SHEET DEPICTS THE GENERAL EXTENT OF THE ANTICIPATED CLEAN AGENT SYSTEM DEMOLITION SCOPE OF WORK FOR THE PROJECT. ADDITIONAL DEMOLITION OUTSIDE OF AREAS INDICATED MAY BE REQUIRED BASED ON FIELD CONDITIONS. CONTRACTOR IS REQUIRED TO CONFIRM / VERIFY EXTENT OF REQUIRED DEMOLITION IN THE FIELD.

SHEET LEGEND

- NOT IN SCOPE
- NOTIFICATION ZONE BOUNDARY
- NEW CONSTRUCTION (COLORED / BLACK)
- EXISTING (HALFTONE)
- DEMOLISH (DASHED)
- CEILING HEIGHT (XX'-XX")

FIRE PROTECTION KEYNOTE LEGEND

- FD01 EXISTING FIRE ALARM RELEASING CONTROL PANEL TO BE DEMOLISHED
- FD02 EXISTING FM200 TANK, EQUIPMENT, AND CONNECTIONS TO BE DEMOLISHED
- FD03 EXISTING FM200 SYSTEM INITIATING DEVICES AND NOTIFICATION APPLIANCES TO BE DEMOLISHED
- FD04 EXISTING FM200 PIPING TO BE REUSED WHERE POSSIBLE AND IN GOOD CONDITION
- FD06 EXISTING BASE BUILDING FIRE ALARM SYSTEM DEVICES AND NOTIFICATIONS TO REMAIN IN PLACE



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PROJECT
1905 CARNEGIE BUILDING

ADDRESS
21 West Kiowa Street, Colorado Springs, CO 80903

PROJECT NO.
103250011.000

DATE
10/24/2025

DESIGN AOK **DESIGN CMD** **CHECKED BY AME**

SCALE
As indicated

TITLE
LEVEL 1 - FIRE SUPPRESSION DEMO PLAN

NUMBER
FD101

SHEET
2 of 4

1 LEVEL 1 - CLEAN AGENT DEMO PLAN
1/4" = 1'-0"



1

2

3

4

D

C

B

A

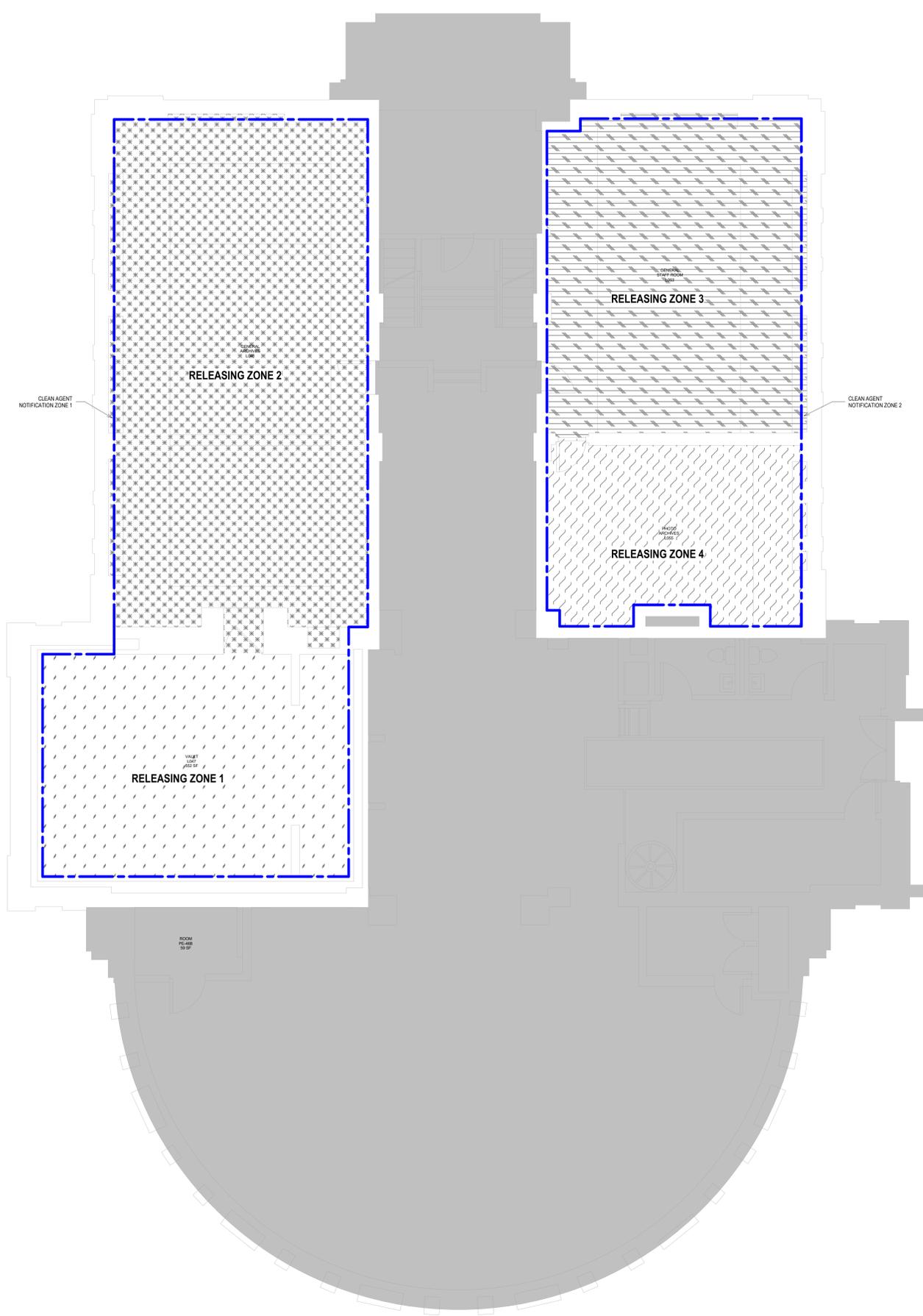
| CLEAN AGENT RELEASING ZONES TABLE | | |
|-----------------------------------|----------------|-------------------------|
| IDENTIFIER | SYSTEM ZONE NO | ZONE NAME |
| | 1 | VAULT L047 |
| | 2 | GENERAL ARCHIVES L048 |
| | 3 | GENERAL STAFF ROOM L053 |
| | 4 | PHOTO ARCHIVES L055 |

SHEET NOTES
 1. CONTRACTOR SHALL PROVIDE EQUIPMENT AND CONNECTIONS SUCH THAT THE SYSTEM IS PROVIDED WITH FOUR (4) SEPARATE RELEASING ZONES FOR EACH ROOM. ZONES 1 & 2 SHALL BE IN THE SAME NOTIFICATION ZONE AND ZONES 3 & 4 SHALL BE IN THE SAME NOTIFICATION ZONE.

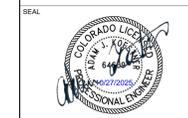
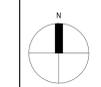
SHEET LEGEND
 NOT IN SCOPE
 NOTIFICATION ZONE BOUNDARY
 NEW CONSTRUCTION (COLORED / BLACK)
 EXISTING (HALFTONE)
 DEMOLISH (DASHED)
 CEILING HEIGHT

JENSEN HUGHES
 10170 Church Ranch Way, Suite 200
 Westminster, CO 80021
 O: +1-303-439-0485

1905 CARNEGIE BUILDING CLEAN AGENT REPLACEMENT



| NO. | REVISION DESCRIPTION | DATE |
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PROJECT
 1905 CARNEGIE BUILDING

ADDRESS
 21 West Kiowa Street, Colorado Springs, CO 80903

PROJECT NO
 1C3C250011.000

DATE
 10/24/2025

| | | |
|-------------------|-------------------|-----------------------|
| DESIGN AOK | DESIGN CMD | CHECKED BY AME |
| | | |

SCALE
 As indicated

TITLE
 LEVEL 1 - CLEAN AGENT ZONES

NUMBER
 F100

SHEET
 3 of 4

1 LEVEL 1 - CLEAN AGENT ZONES
 1/4" = 1'-0"

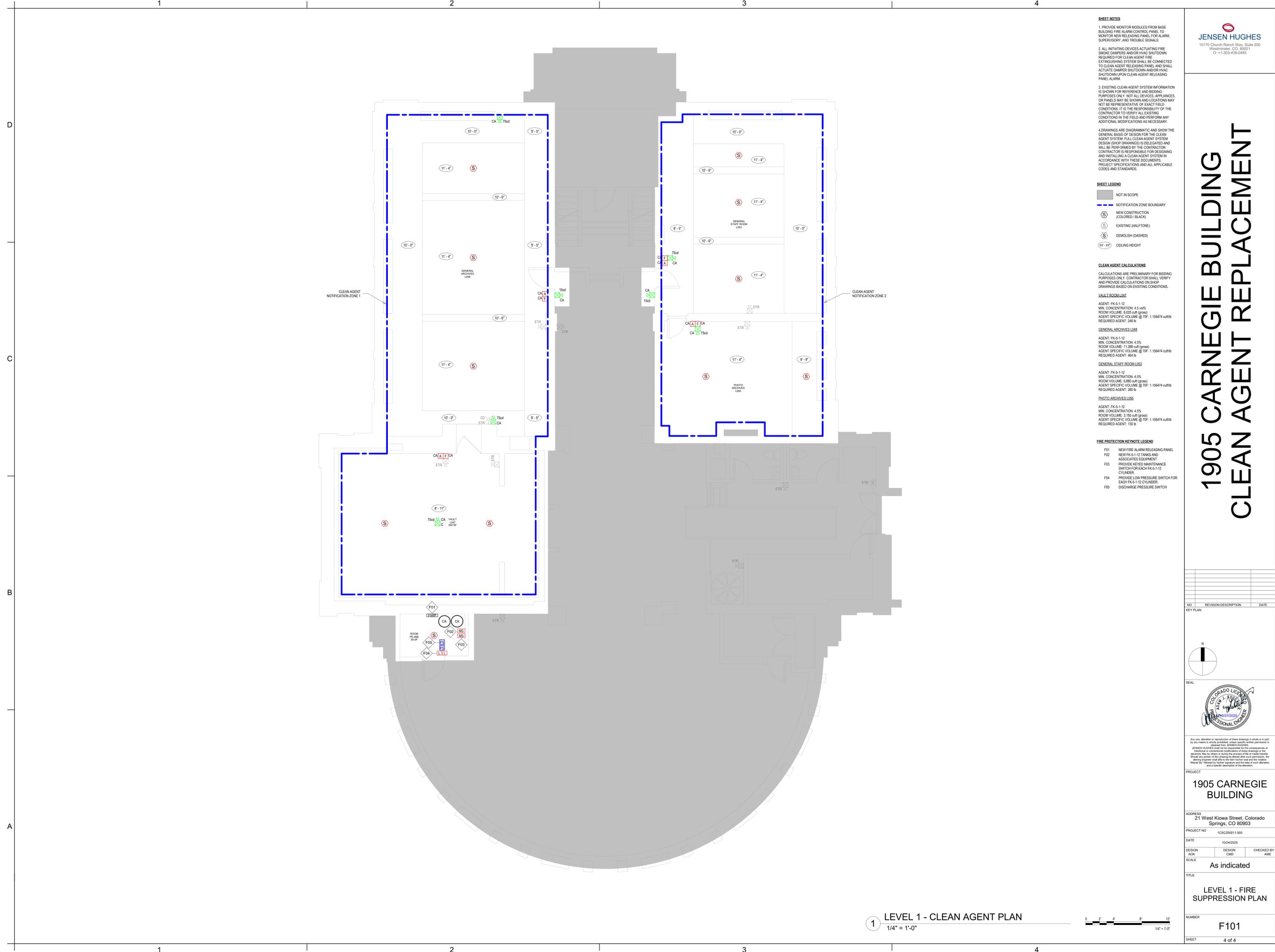


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4



SHEET NOTES

1. PROVIDE MONITOR MODULES FROM BASE BUILDING FIRE ALARM CONTROL PANEL TO MONITOR NEW RELEASING PANEL FOR ALARM, SUPERVISORY, AND TROUBLE SIGNALS.
2. ALL INITIATING DEVICES ACTUATING FIRE SMOKE DAMPERS AND/OR HVAC SHUTDOWN REQUIRED FOR CLEAN AGENT FIRE EXTINGUISHING SYSTEM SHALL BE CONNECTED TO CLEAN AGENT RELEASING PANEL AND SHALL ACTUATE DAMPER SHUTDOWN AND/OR HVAC SHUTDOWN UPON CLEAN AGENT RELEASING PANEL ALARM.
3. EXISTING CLEAN AGENT SYSTEM INFORMATION IS SHOWN FOR REFERENCE AND BIDDING PURPOSES ONLY. NOT ALL DEVICES, APPLIANCES, OR PANELS MAY BE SHOWN AND LOCATIONS MAY NOT BE REPRESENTATIVE OF EXACT FIELD CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND PROVIDE ANY ADDITIONAL MODIFICATIONS AS NECESSARY.
4. DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL BASIS OF DESIGN FOR THE CLEAN AGENT SYSTEM. FULL CLEAN AGENT SYSTEM DESIGN (SHOP DRAWINGS) IS DELEGATED AND WILL BE PERFORMED BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR DESIGNING AND INSTALLING A CLEAN AGENT SYSTEM IN ACCORDANCE WITH THESE DOCUMENTS, PROJECT SPECIFICATIONS AND ALL APPLICABLE CODES AND STANDARDS.

SHEET LEGEND

- NOT IN SCOPE
- NOTIFICATION ZONE BOUNDARY
- NEW CONSTRUCTION (COLORED) (BLACK)
- EXISTING (HALFTONE)
- DEMOLISH (DASHED)
- CEILING HEIGHT

CLEAN AGENT CALCULATIONS

CALCULATIONS ARE PRELIMINARY FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL VERIFY AND PROVIDE CALCULATIONS ON SHOP DRAWINGS BASED ON EXISTING CONDITIONS.

VAULT ROOM LOBBY

AGENT: FK-5-112
 MIN. CONCENTRATION: 4.5 vol%
 ROOM VOLUME: 6,025 cuft (gross)
 AGENT SPECIFIC VOLUME @ 70F: 1.156474 cuft/lb
 REQUIRED AGENT: 246 lb

GENERAL ARCHIVES LOBBY

AGENT: FK-5-112
 MIN. CONCENTRATION: 4.5%
 ROOM VOLUME: 11,388 cuft (gross)
 AGENT SPECIFIC VOLUME @ 70F: 1.156474 cuft/lb
 REQUIRED AGENT: 464 lb

GENERAL STAFF ROOM LOBBY

AGENT: FK-5-112
 MIN. CONCENTRATION: 4.5%
 ROOM VOLUME: 6,890 cuft (gross)
 AGENT SPECIFIC VOLUME @ 70F: 1.156474 cuft/lb
 REQUIRED AGENT: 280 lb

PHOTO ARCHIVES LOBBY

AGENT: FK-5-112
 MIN. CONCENTRATION: 4.5%
 ROOM VOLUME: 3,103 cuft (gross)
 AGENT SPECIFIC VOLUME @ 70F: 1.156474 cuft/lb
 REQUIRED AGENT: 130 lb

FIRE PROTECTION KEYNOTE LEGEND

- F01 NEW FIRE ALARM RELEASING PANEL
- F02 NEW FK-5-112 TANKS AND ASSOCIATED EQUIPMENT
- F03 PROVIDE KEVED MAINTENANCE SWITCH FOR EACH FK-5-112 CYLINDER
- F04 PROVIDE LOW PRESSURE SWITCH FOR EACH FK-5-112 CYLINDER
- F05 DISCHARGE PRESSURE SWITCH

1905 CARNEGIE BUILDING CLEAN AGENT REPLACEMENT

| NO. | REVISION DESCRIPTION | DATE |
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PROJECT
 1905 CARNEGIE BUILDING

ADDRESS
 21 West Kiowa Street, Colorado Springs, CO 80903

PROJECT NO.
 1030250011.000

DATE
 10/24/2025

DESIGN AOK **DESIGN CMD** **CHECKED BY AME**

SCALE
 As indicated

TITLE
 LEVEL 1 - FIRE SUPPRESSION PLAN

NUMBER
 F101

SHEET
 4 of 4

1 LEVEL 1 - CLEAN AGENT PLAN
 1/4" = 1'-0"

