

FIRE PROTECTION GENERAL NOTES:

1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
2. SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS. SYSTEM SHALL ALSO MEET ALL APPLICABLE BUILDING CODES, FIRE CODES AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER. VERIFY REQUIREMENTS PRIOR TO BID SUBMITTAL.
3. INFORMATION ON CONTRACT DOCUMENTS IS GENERAL INFORMATION AND FOR BID PURPOSES ONLY. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE FINAL SYSTEM DESIGN AND LAYOUT OF ALL COMPONENTS, COORDINATION WITH ALL OTHER TRADES, AND SYSTEM CALCULATIONS REQUIRED FOR APPROVAL BY THE AUTHORITY HAVING JURISDICTION, ENGINEER, AND OWNER'S INSURER.
4. THE CONTRACTOR SHALL FOLLOW THE ENGINEER OF RECORD'S SYSTEM DESIGN AND LAYOUT OF ALL COMPONENTS EXCEPT WHERE MODIFICATION TO THE DESIGN IS NECESSARY. MODIFICATIONS SHALL BE REFLECTED IN THE CONTRACTOR'S SHOP DRAWINGS AND CALCULATIONS.
5. DEVIATIONS FROM ENGINEER'S DESIGN WILL NOT BE CONSIDERED UNLESS A FORMALLY SUBMITTED RFIs RECEIVED AND APPROVED.
6. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND LABOR REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM AS INDICATED IN THE DRAWINGS AND SPECIFICATIONS.
7. WHERE EXISTING SYSTEMS ARE PRESENT, CONTRACTOR SHALL MODIFY, RELOCATE AND/OR PROVIDE ADDITIONAL EQUIPMENT AS REQUIRED FOR SCOPE OF WORK AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. COORDINATE WITH WALLS, CEILINGS, LIGHTS, DIFFUSERS, STRUCTURE, OBSTRUCTIONS, ETC. IN AREAS AFFECTED BY SCOPE OF WORK, NEW EQUIPMENT SHALL BE COMPATIBLE WITH EXISTING SYSTEMS. CONTRACTOR SHALL REMOVE ALL ABANDONED EQUIPMENT, COORDINATE SYSTEM MODIFICATIONS TO MINIMIZE SYSTEM IMPAIRMENT, AND PROVIDE FIRE WATCH AND/OR INTERIM FIRE PROTECTION MEASURES WHERE REQUIRED BY THE AUTHORITY HAVING JURISDICTION, INSURANCE CARRIER OR OWNER.
8. PROVIDE ADDITIONAL MATERIALS AND LABOR REQUIRED DUE TO LACK OF COORDINATION OR TO MEET AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
9. FORWARD COMPLETED CERTIFICATE OF COMPLETION AND CONTRACTOR MATERIAL TEST CERTIFICATES TO THE OWNER.
10. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

FIRE PROTECTION ICC 500 SHELTER GENERAL NOTES:

1. SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE ICC AND FEMA STANDARDS. SYSTEM SHALL ALSO MEET ALL APPLICABLE BUILDING CODES, FIRE CODES AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER. VERIFY REQUIREMENTS PRIOR TO BID SUBMITTAL.
2. ALL WORK SHALL BE HEAVILY COORDINATED WITH THE STRUCTURAL ENGINEER AND ARCHITECT PRIOR TO INSTALLATION.
3. FINAL SPRINKLER SYSTEM PIPE SIZES AND LAYOUT SHALL BE PROVIDED BASED ON HYDRAULIC CALCULATIONS. CONTRACTOR SHALL PROVIDE THE MINIMUM PIPE SIZE NEEDED TO MEET THE HYDRAULIC DEMAND OF THE SYSTEM.
4. WHERE REQUIRED PIPE SIZES RESULT IN PENETRATIONS EXCEEDING 2-1/16 INCHES, CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND MATERIALS REQUIRED FOR PENETRATION PROTECTION AS OUTLINED IN ICC 500.
5. CONTRACTOR SHOP DRAWINGS INDICATING PIPE SIZES, PENETRATION LOCATIONS AND HYDRAULIC CALCULATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
6. CONTRACTOR SHALL PROVIDE A SINGLE FIRE ALARM CONDUIT CONTAINING ALL NECESSARY CIRCUITS AND LIMIT THE CONDUIT SIZE, WHERE MULTIPLE FIRE ALARM CONDUITS ARE REQUIRED, CONTRACTOR SHALL PROVIDE THE MINIMUM REQUIRED NUMBER OF PENETRATIONS INTO THE SHELTER.
7. FIRE ALARM SHOP DRAWINGS INCLUDING WIRING/CONDUIT PENETRATIONS, AND BATTERY CALCULATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
8. WHERE PENETRATION PROTECTION IS REQUIRED, CONTRACTOR SHOP DRAWINGS SHALL CLEARLY INDICATE THE PENETRATIONS REQUIRING PROTECTION AND PROVIDE ALL APPLICABLE INSTALLATION DETAILS.
9. PROVIDE ADDITIONAL MATERIALS AND LABOR REQUIRED DUE TO LACK OF COORDINATION OR TO MEET MINIMUM REQUIREMENTS AS OUTLINED IN ICC 500, AS OUTLINED BY FEMA, AND TO MEET ANY ADDITIONAL REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.

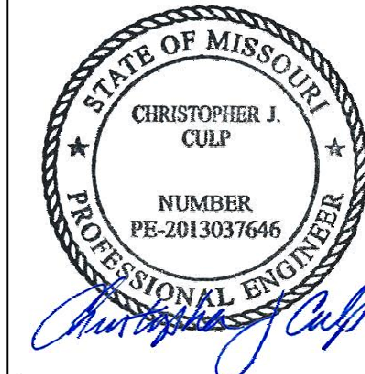
SCOPE OF WORK GENERAL NOTE:

1. BUILDING 5 IS GROUP S-2 AND HAS UNDER 12,000 S.F. MOREOVER, THE BUILDING DOES NOT REQUIRE A FIRE ALARM OR SPRINKLER SYSTEM PER CHAPTER 9 OF INTERNATIONAL BUILDING CODE.

FIRE PROTECTION SYMBOLS			
THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.			V2.01
ABBREVIATIONS		FIRE ALARM	
AFF AFG CD DI ESFR	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE CANDELA DUCTILE IRON EARLY SUPPRESSION FAST RESPONSE	NIC DC PIV PRV	NOT IN CONTRACT ON CENTER POST INDICATOR VALVE PROVIDE FURNISH AND INSTALL PRESSURE REDUCING VALVE
ETR FHC FP GC GPM JB/J-BOX MAX MIN N/A	EXISTING TO REMAIN FIRE HOSE CABINET FIRE PROTECTION CONTRACTOR TYPICAL JUNCTION BOX MAXIMUM MINIMUM NOT APPLICABLE	RD REV SD SF TYP UNO V W WP	RETURN DUCT REVISION SUPPLY DUCT SQUARE FEET TYPICAL UNLESS NOTES OTHERWISE VOLT(S) WATTS WEATHERPROOF
ANNOTATION			
① FIRE PROTECTION PLAN NOTE CALLOUT			
● CONNECTION POINT OF NEW WORK TO EXISTING			
① F1 DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER			
① F1 SECTION CUT DESIGNATION			
FIRE SPRINKLERS			
○ UPRIGHT SPRINKLER			
● PENDENT SPRINKLER			
● CONCEALED SPRINKLER			
○ DRY PENDENT SPRINKLER			
▽ DRY SIDEWALL SPRINKLER			
▼ SIDEWALL SPRINKLER			
FIRE SPRINKLER PIPING			
—FP— FIRE PROTECTION (FP)			
—HOSE CONNECTION			
—CHECK VALVE			
—BACKFLOW PREVENTER			
→ CAP			
○ ELBOW UP			
○ ELBOW DOWN			
—TEE UP			
—TEE DOWN			
—FIRE DEPARTMENT CONNECTION			
—FIRE PUMP TEST HEADER			
—INSPECTOR'S TEST CONNECTION / AUXILIARY DRAIN			
—SPRINKLER RISER			
—TOP BEAM CLAMP			
—TRAPEZE HANGER			
STANDARD MOUNTING HEIGHTS			
FIRE ALARM			
AUDIBLE APPLIANCES (CENTERLINE)			90"
FIRE ALARM ANNUNCIATOR PANEL (DISPLAY)			60"
FIRE ALARM BELL (EXTERIOR)			120"
FIRE ALARM CONTROL PANEL/UNIT (DISPLAY)			60"
PULL STATIONS (HANDLE)			48"
VISIBLE APPLIANCES (CENTERLINE)			84"
USE THE DEFAULT MOUNTING HEIGHTS SHOWN ABOVE UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS OR ELSEWHERE. MOUNTING HEIGHTS LISTED ARE ABOVE FINISHED FLOOR (AFF) OR ABOVE FINISHED GRADE (AFG). ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.			
LINETYPE LEGEND			
EXISTING —————		NEW —————	
DEMOLISH - - - - -		FUTURE - - - - -	

WATER SUPPLY INFORMATION:

OBTAINED FROM: CITY OF LEE'S SUMMIT WATER UTILITY OPERATION DIVISION
LOCATION: SE BAILEY RD, LEE'S SUMMIT, MO
DATE: 03/19/20
STATIC PRESSURE: 76 PSI
RESIDUAL PRESSURE: 70 PSI
WATER FLOW: 1650 GPM



CHRISTOPHER J. CULP
LICENSE # PE-2013037646
EXPIRES 08/31/2020

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MO. CORPORATE NO. E-5680
EXPIRES 12/31/2020

- F10 PROVIDE DUST MOUNTED SMOKE DETECTOR FOR FAN POWERED MECHANICAL AIR HANDLING EQUIPMENT
- F11 INSTALL DETECTOR IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. REFER TO MECHANICAL SHEETS FOR LOCATION AND DETECTOR TYPE
- F12 PROVIDE LOW VOLTAGE WIRING FROM DETECTOR TO REMOTE TEST STATION. MOUNT REMOTE TEST STATION ON 48" ART.
- F13 PROVIDE SMOKE DETECTOR FOR DOOR RELEASE IN ACCORDANCE WITH NFPA 72.
- F14 PROVIDE APPROPRIATE EQUIPMENT AND CONNECTIONS TO ALLOW FOR RELEASE OF DOOR HOLDERS UPON ALARM SIGNAL FROM THE FIRE ALARM CONTROL PANEL.
- F15 PROVIDE EQUIPMENT FOR REMOTE RELEASE OF DOOR. MONITOR CARBON MONOXIDE DETECTOR FOR SUPERVISORY SIGNAL.
- F16 PROVIDE ELECTRICAL SUPPLY TO POWER VISIBLE NOTIFICATION APPLIANCES.
- F17 PROVIDE MECHANICAL DOOR HOLDS TO BE UTILIZED AS INDICATED IN MECHANICAL SHEETS.
- F18 ROUTE FIRE ALARM WIRING/CONDUIT IN A CLEAN MANNER AND TO MINIMIZE VISIBILITY.
- F19 PROVIDE DETECTOR SIGNAL TO RPA ABOVE ELECTRICAL DISTRIBUTION EQUIPMENT.
- F20 INSTALL SPRINKLER PIPING TIGHT TO STRUCTURE. MINIMIZE OPEN END OF PIPING. PROVIDE PIPING WITH PROPER PAIR PIPE TO MATCH SURROUNDING FINISH. COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION.
- F21 PROVIDE STORAGE SPACE FOR PIPING TO ALLOW THE SPRINKLER DEFLECTOR'S AT ITS MAXIMUM HEIGHT.



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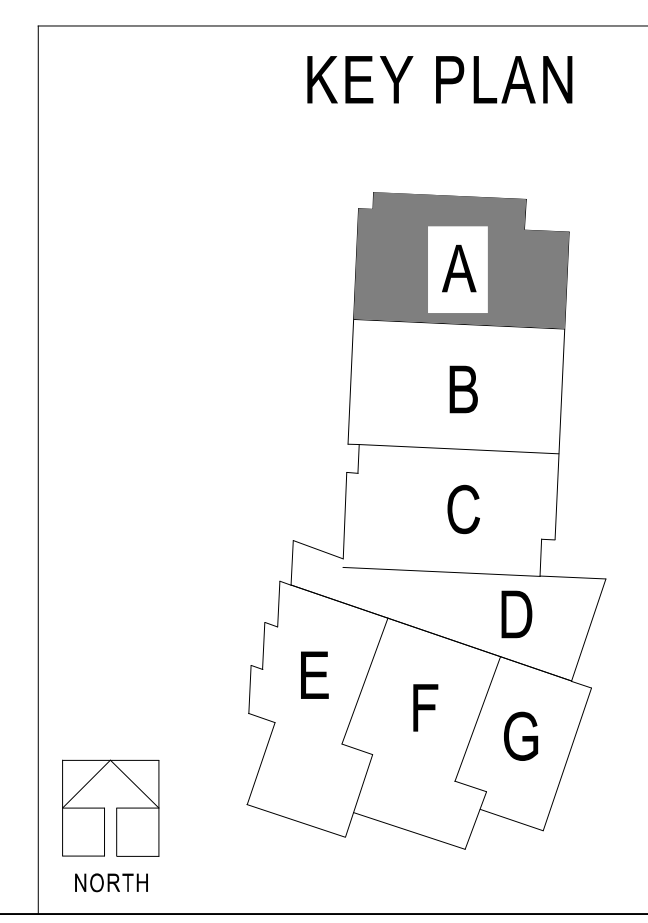
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WWW.HENDERSONENGINEERS.COM

1950005054
MO. CORPORATE NO.: E-556D
EXDIPES 12/31/2020

PACKAGE 3 - BUILDING
SITE
10/08/20
REVISIONS

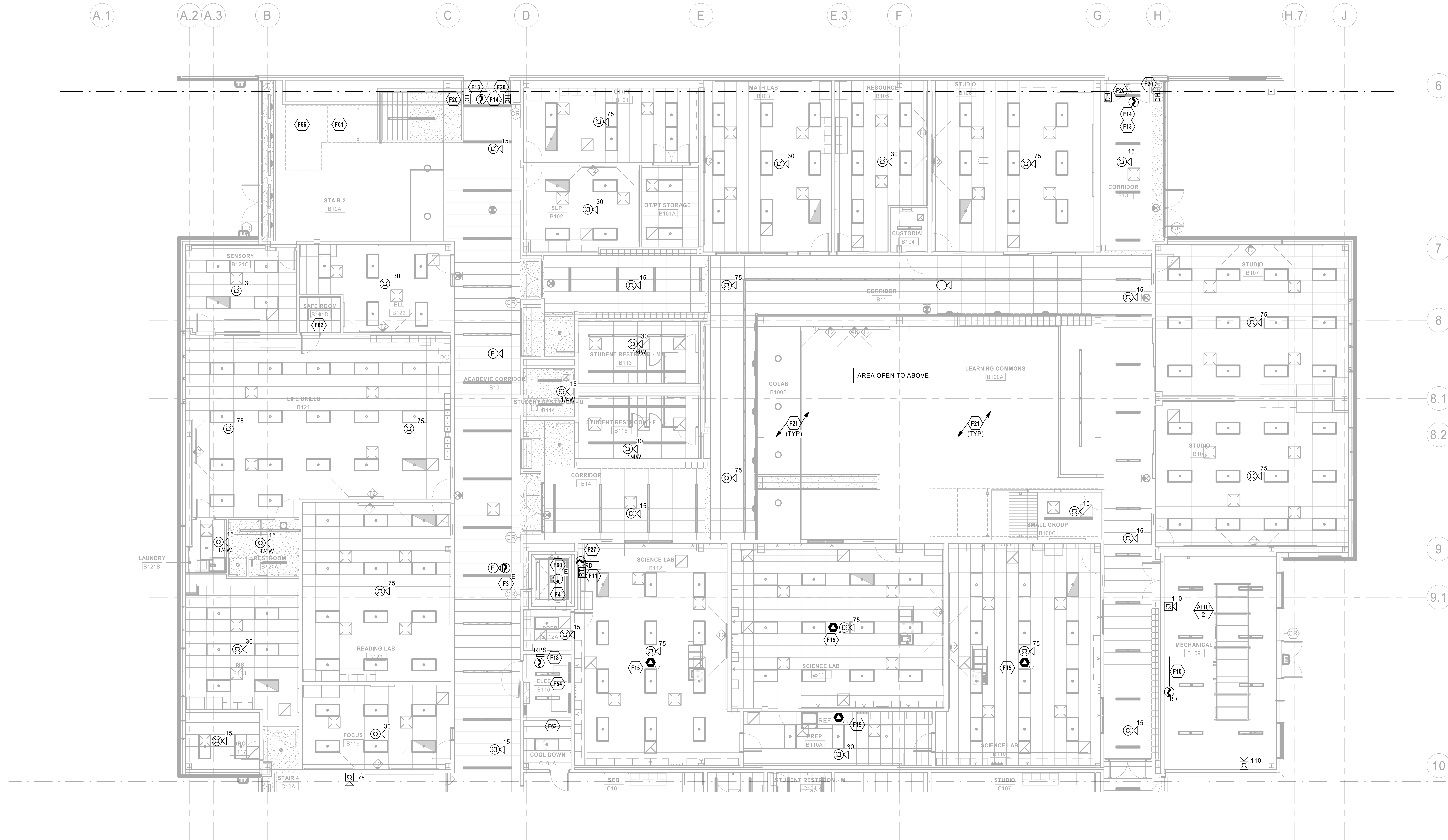
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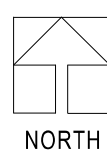
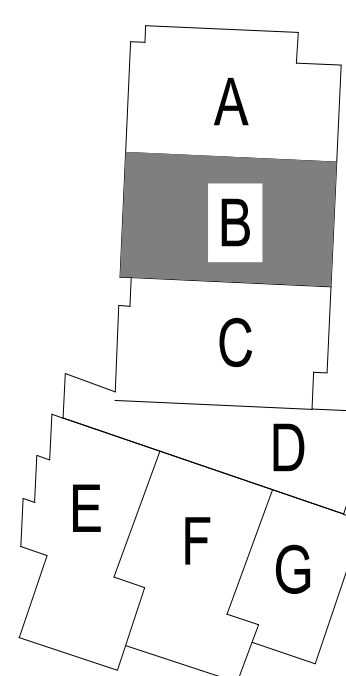
FIRE PROTECTION PLAN NOTES:

- F3 PROVIDE EQUIPMENT AND CONNECTION(S) REQUIRED FOR ELEVATOR RECALL AND/OR SHUTDOWN. REFER TO SEQUENCE OF OPERATION FOR ADDITIONAL INFORMATION.
- F4 PROVIDE HEAT DETECTOR(S) WITHIN 2 FEET OF ALL SPRINKLERS IN AREA DESIGNATED. REFER TO SEQUENCE OF OPERATION FOR ADDITIONAL INFORMATION.
- F10 PROVIDE DUCT MOUNTED SMOKE DETECTOR FOR FAN POWERED MECHANICAL AIR HANDLING EQUIPMENT SHUTDOWN. INSTALL DETECTOR PER MANUFACTURER'S RECOMMENDATIONS. REFER TO MECHANICAL SHEETS FOR EQUIPMENT AND DUCTWORK LAYOUT AND DETAILS.
- F11 PROVIDE LOW VOLTAGE WIRING FROM DUCT DETECTOR TO REMOTE TEST STATION. MOUNT REMOTE TEST STATION ON WALL AT 48" AFF.
- F13 PROVIDE SMOKE DETECTOR FOR DOOR RELEASE IN ACCORDANCE WITH NFPA 72.
- F14 PROVIDE APPROPRIATE EQUIPMENT AND CONNECTION(S) REQUIRED TO RELEASE DOOR HOLDERS UPON ALARM SIGNAL FROM THE FIRE ALARM CONTROL PANEL.
- F15 PROVIDE EQUIPMENT AND CONNECTIONS NECESSARY TO MONITOR CARBON MONOXIDE DETECTOR FOR SUPERVISORY SIGNAL.
- F18 PROVIDE REMOTE POWER SUPPLY TO POWER VISIBLE NOTIFICATION APPLIANCES.
- F20 MAGNETIC DOOR HOLDS TO BE UTILIZED AS INDICATED IN ARCHITECTURAL PLANS.
- F21 ROUTE FIRE ALARM WIRING/CONDUIT IN A CLEAN MANNER AND TO MINIMIZE VISIBILITY.
- F27 PROVIDE DUCT-MOUNTED SMOKE DETECTOR (OR AREA DETECTOR IF APPLICABLE) FOR FIRE/SMOKE DAMPER ACTIVATION. DETECTOR SHALL BE INSTALLED WITHIN 5 FEET OF DAMPER PER NFPA 72. REFER TO MECHANICAL SHEETS FOR EXACT LOCATION OF DAMPERS. THE DETECTOR SELECTED SHALL BE SUITABLE FOR THE AIRFLOW PRESENT IN THE DUCT.
- F54 DO NOT ROUTE SPRINKLER PIPING ABOVE ELECTRICAL DISTRIBUTION EQUIPMENT.
- F60 INSTALL SIDEWALL SPRINKLER WITHIN 2 FEET OF ELEVATOR HOISTWAY PIT FLOOR.
- F61 PROVIDE SPRINKLER PROTECTION AT THE TOP OF STAIRWAY AND BENEATH THE LOWEST STAIRWAY LANDING.
- F62 PROVIDE INSTITUTIONAL TYPE (TAMPER RESISTANT) SPRINKLERS IN CALM DOWN ROOMS.
- F66 PROVIDE SPRINKLER PROTECTION IN AREAS WITH OBSTRUCTION OVER 4'. ROUTE PIPE TO MINIMIZE VISIBILITY. COORDINATE WITH ARCHITECT TO PAINT PIPE TO MATCH SURROUNDING FINISH.



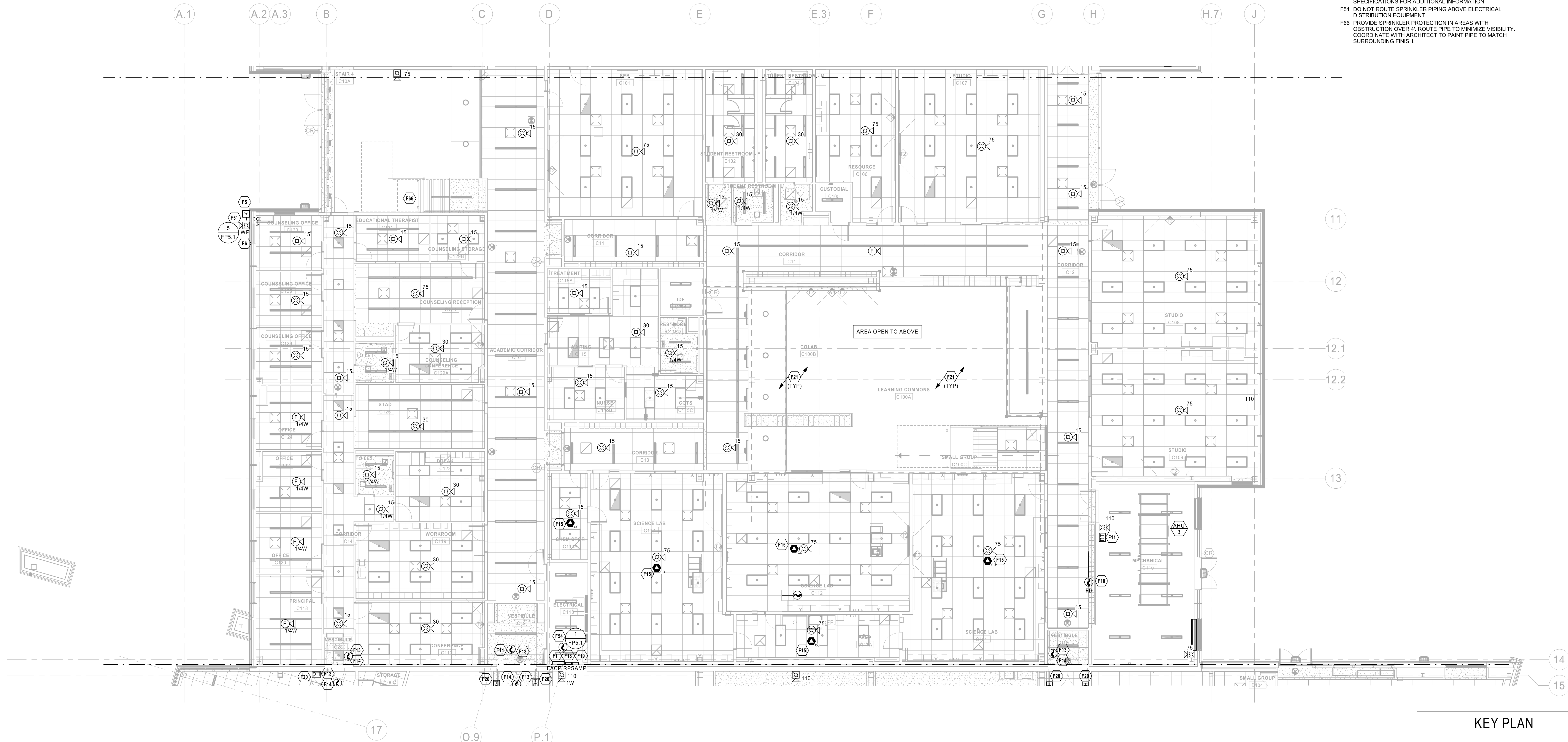
FIRE PROTECTION FIRST LEVEL RCP - AREA B
1/8" = 1'-0"

KEY PLAN



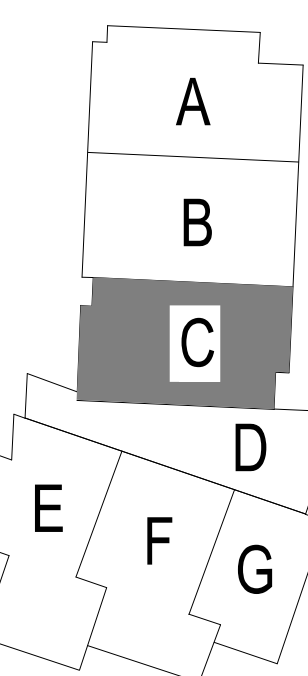
FIRE PROTECTION PLAN NOTES:

- F1 PROVIDE NEW FIRE ALARM CONTROL PANEL WITH EMERGENCY VOICE/ALARM COMMUNICATION. PROVIDE A SMOKE DETECTOR ABOVE THE PANEL IN ACCORDANCE WITH NFPA 72.
- F5 PROVIDE FIRE DEPARTMENT KEY BOX FOR FIRE DEPARTMENT ACCESS. PROVIDE EQUIPMENT AND CONNECTIONS NECESSARY TO MONITOR KEY BOX INTERNAL SUPERVISORY SWITCH(ES), AS REQUIRED. COORDINATE FINAL LOCATION WITH AUTHORITY HAVING JURISDICTION.
- F6 CONNECT EXTERIOR WATERFLOW ALARM TO FIRE ALARM SYSTEM.
- F10 PROVIDE DUCT MOUNTED SMOKE DETECTOR FOR FAN POWERED MECHANICAL AIR HANDLING EQUIPMENT SHUTDOWN. INSTALL DETECTOR PER MANUFACTURER'S RECOMMENDATIONS. REFER TO MECHANICAL SHEETS FOR EQUIPMENT AND DUCTWORK LAYOUT AND DETAILS.
- F11 PROVIDE LOW VOLTAGE WIRING FROM DUCT DETECTOR TO REMOTE TEST STATION. MOUNT REMOTE TEST STATION ON WALL AT 48" AFF.
- F13 PROVIDE SMOKE DETECTOR FOR DOOR RELEASE IN ACCORDANCE WITH NFPA 72.
- F14 PROVIDE APPROPRIATE EQUIPMENT AND CONNECTION(S) REQUIRED TO RELEASE DOOR HOLDERS UPON ALARM SIGNAL FROM THE FIRE ALARM CONTROL PANEL.
- F15 PROVIDE EQUIPMENT AND CONNECTIONS NECESSARY TO MONITOR CARBON MONOXIDE DETECTOR FOR SUPERVISORY SIGNAL.
- F18 PROVIDE REMOTE POWER SUPPLY TO POWER VISIBLE NOTIFICATION APPLIANCES.
- F19 PROVIDE REMOTE AMPLIFIER FOR AUDIBLE NOTIFICATION APPLIANCES.
- F20 MAGNETIC DOOR HOLDS TO BE UTILIZED AS INDICATED IN ARCHITECTURAL PLANS.
- F21 ROUTE FIRE ALARM WIRING/CONDUIT IN A CLEAN MANNER AND TO MINIMIZE VISIBILITY.
- F51 FIRE DEPARTMENT CONNECTION, REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- F54 DO NOT ROUTE SPRINKLER PIPING ABOVE ELECTRICAL DISTRIBUTION EQUIPMENT.
- F66 PROVIDE SPRINKLER PROTECTION IN AREAS WITH OBSTRUCTION OVER 4'; ROUTE PIPE TO MINIMIZE VISIBILITY. COORDINATE WITH ARCHITECT TO PAINT PIPE TO MATCH SURROUNDING FINISH.



1 FIRE PROTECTION FIRST LEVEL RCP - AREA C
1/8" = 1'-0"

KEY PLAN



FIRE PROTECTION PLAN NOTES:

- F2 PROVIDE NEW REMOTE FIRE ALARM ANNUCIATOR PANEL WITH MICROPHONE.
- F5 PROVIDE FIRE DEPARTMENT KEY BOX FOR FIRE DEPARTMENT ACCESS. PROVIDE EQUIPMENT AND CONNECTIONS NECESSARY TO MONITOR KEY BOX INTERNAL SUPERVISORY SWITCHES), AS REQUIRED. COORDINATE FINAL LOCATION WITH AUTHORITY-HAVING JURISDICTION.
- F7 CONNECT FIRE SPRINKLER MONITORING DEVICES TO FIRE ALARM SYSTEM. COORDINATE QUANTITY AND LOCATION OF DEVICES WITH FIRE PROTECTION SYSTEMS.
- F9 PROVIDE FIRE ALARM EQUIPMENT SUITABLE FOR ENVIRONMENTAL CONDITIONS.
- F13 PROVIDE SMOKE DETECTOR FOR DOOR RELEASE IN ACCORDANCE WITH NFPA 72.
- F14 PROVIDE APPROPRIATE EQUIPMENT AND CONNECTION(S) REQUIRED TO RELEASE DOOR HOLDERS UPON ALARM SIGNAL FROM THE FIRE ALARM CONTROL PANEL.
- F17 PROVIDE A MINIMUM 3/4" UNDERGROUND CONDUIT TO CONNECT TO TAMPER SWITCHES IN BACKFLOW PREVENTER PIT ON SITE AND CONNECT TO BUILDING'S FIRE ALARM CONTROL PANEL. REFERENCE CIVIL PLANS FOR BACKFLOW PREVENTER LOCATION.
- F20 MAGNETIC DOOR HOLDS TO BE UTILIZED AS INDICATED IN ARCHITECTURAL PLANS.
- F50 8-INCH FIRE PROTECTION SERVICE ENTRANCE. REFER TO CIVIL FOR CONTINUATION.
- F53 COORDINATE TEMPERATURE RATING OF SPRINKLERS NEAR HEAT PRODUCING SOURCES IN ACCORDANCE WITH NFPA 13 FOR ANTICIPATED AMBIENT CEILING TEMPERATURES.
- F56 PROVIDE SPRINKLER ABOVE AND BELOW CLOUD CEILING.

FIRE PROTECTION PLAN NOTES:

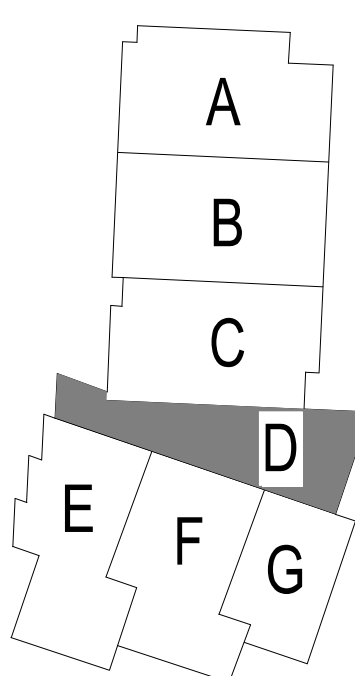
- F57 SPRINKLERS IN CLOUD CEILING SHALL BE CONCEALED PENDENT. CAPS SHALL BE FACTORY PAINTED AND COORDINATED WITH ARCHITECT TO MATCH THE CEILING.
- F58 INSTALL SPRINKLER PIPING TIGHT TO STRUCTURE. MINIMIZE VISIBILITY IN OPEN CEILING AS MUCH AS POSSIBLE. PAINT PIPE TO MATCH SURROUNDING FINISH. COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION.



1 FIRE PROTECTION FIRST LEVEL RCP - AREA D
1/8" = 1'-0"



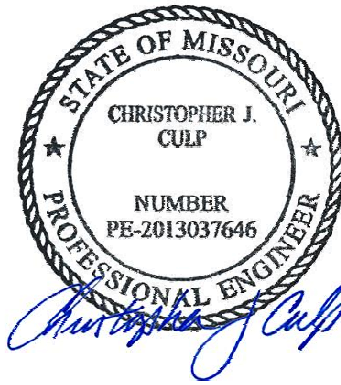
KEY PLAN



CHRISTOPHER J. CULP



- FIRE PROTECTION PLAN NOTES:**
- F9 PROVIDE FIRE ALARM EQUIPMENT SUITABLE FOR ENVIRONMENTAL CONDITIONS.
 - F13 PROVIDE SMOKE DETECTOR FOR DOOR RELEASE IN ACCORDANCE WITH NFPA 72.
 - F14 PROVIDE APPROPRIATE EQUIPMENT AND CONNECTION(S) REQUIRED TO RELEASE DOOR HOLDERS UPON ALARM SIGNAL FROM THE FIRE ALARM CONTROL PANEL.
 - F18 PROVIDE REMOTE POWER SUPPLY TO POWER VISIBLE NOTIFICATION APPLIANCES.
 - F20 MAGNETIC DOOR HOLDS TO BE UTILIZED AS INDICATED IN ARCHITECTURAL PLANS.
 - F22 NOTIFICATION COVERAGE PROVIDED FROM ABOVE. CONTRACTOR TO VERIFY EQUIPMENT PROVIDES 0.0375 LUMENS/S.F. PER NFPA 72.
 - F54 DO NOT ROUTE SPRINKLER PIPING ABOVE ELECTRICAL DISTRIBUTION EQUIPMENT.
 - F70 PROVIDE CORROSION RESISTANT SPRINKLER SYSTEM IN AREA THIS PLAN.



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EXPIRES 12/31/2020

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LEE'S SUMMIT R-7 SCHOOL DISTRICT
1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64081

PACKAGE 3 - BUILDING & SITE
10/08/20
REVISIONS

13-20102-00
FIRE PROTECTION
FIRST LEVEL RCP
- AREA E

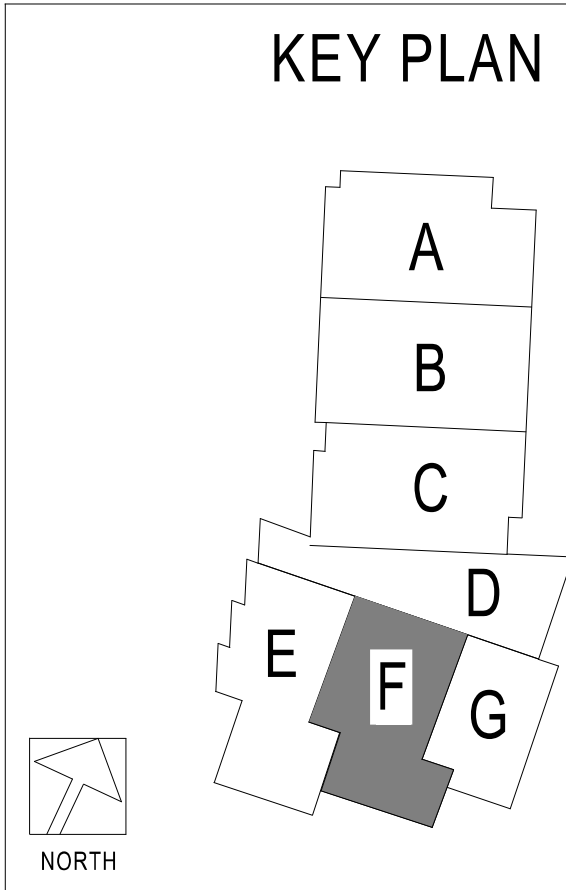
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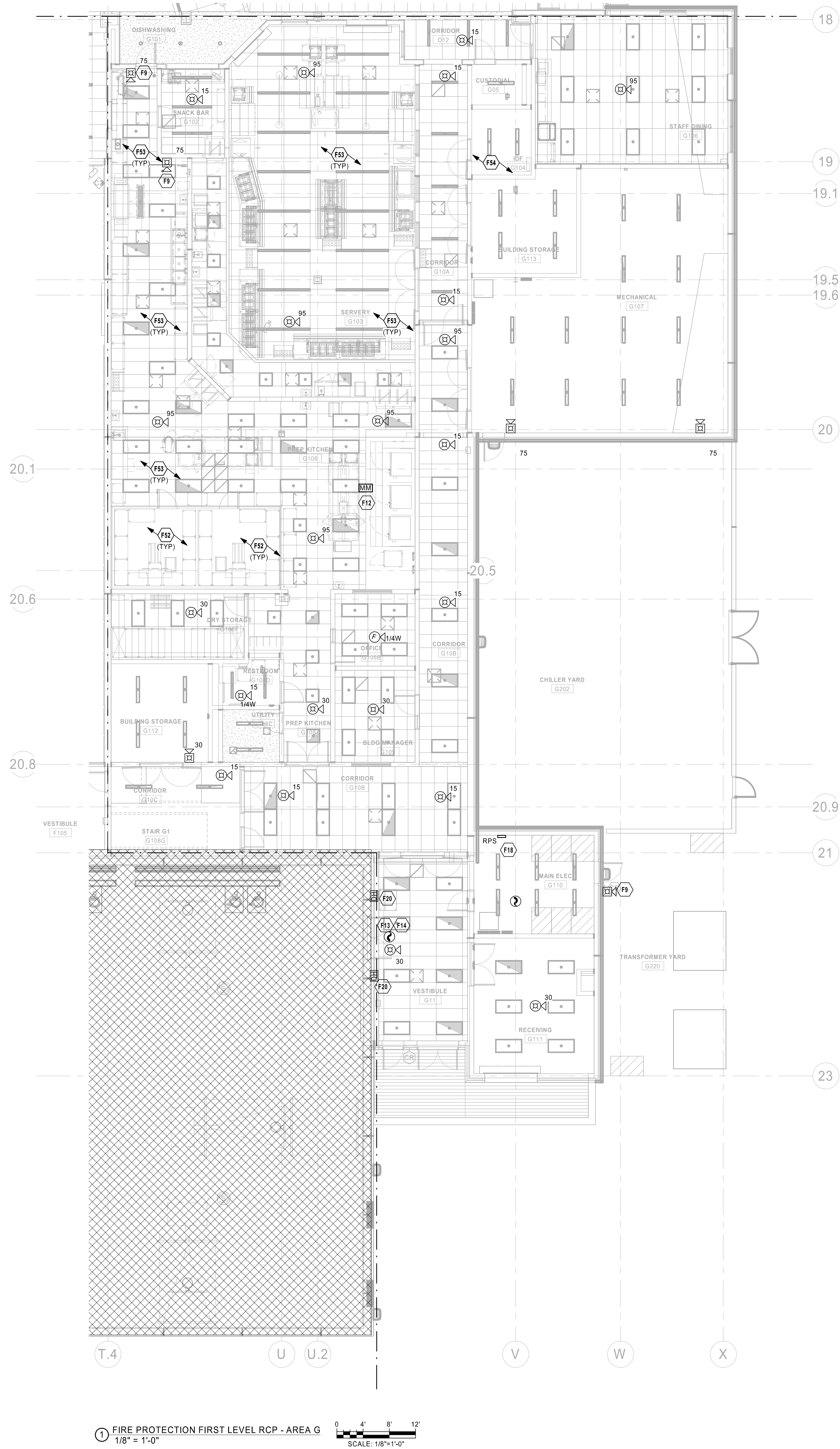


① FIRE PROTECTION FIRST LEVEL RCP - AREA F
1/8" = 1'-0"

- FIRE PROTECTION PLAN NOTES:**
- F9 PROVIDE FIRE ALARM EQUIPMENT SUITABLE FOR ENVIRONMENTAL CONDITIONS.
 - F13 PROVIDE SMOKE DETECTOR FOR DOOR RELEASE IN ACCORDANCE WITH NFPA 72.
 - F14 PROVIDE APPROPRIATE EQUIPMENT AND CONNECTION(S) REQUIRED TO RELEASE DOOR HOLDERS UPON ALARM SIGNAL FROM THE FIRE ALARM CONTROL PANEL.
 - F20 MAGNETIC DOOR HOLDS TO BE UTILIZED AS INDICATED IN ARCHITECTURAL PLANS.
 - F22 NOTIFICATION COVERAGE PROVIDED FROM ABOVE. CONTRACTOR TO VERIFY EQUIPMENT PROVIDES 0.0375 LUMENS/S.F. PER NFPA 72.
 - F24 PROVIDE EQUIPMENT AND CONNECTIONS REQUIRED FOR AUDIO INTERRUPTION TO ENSURE THE SOUND SYSTEM IS MUTED IN THE EVENT OF A FIRE ALARM. COORDINATE EXACT LOCATION OF EQUIPMENT AND CONNECTIONS.
 - F53 COORDINATE TEMPERATURE RATING OF SPRINKLERS NEAR HEAT PRODUCING SOURCES IN ACCORDANCE WITH NFPA 13 FOR ANTICIPATED AMBIENT CEILING TEMPERATURES.

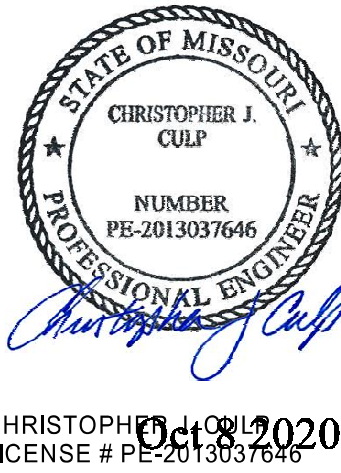


CHRISTOPHER J. CULP



1 FIRE PROTECTION FIRST LEVEL RCP - AREA G
1/8" = 1'-0"

- FIRE PROTECTION PLAN NOTES:**
- F9 PROVIDE FIRE ALARM EQUIPMENT SUITABLE FOR ENVIRONMENTAL CONDITIONS.
 - F12 PROVIDE EQUIPMENT AND CONNECTION(S) REQUIRED TO MONITOR KITCHEN HOOD SUPPRESSION SYSTEM(S).
 - F13 PROVIDE SMOKE DETECTOR FOR DOOR RELEASE IN ACCORDANCE WITH NFPA 72.
 - F14 PROVIDE APPROPRIATE EQUIPMENT AND CONNECTION(S) REQUIRED TO RELEASE DOOR HOLDERS UPON ALARM SIGNAL FROM THE FIRE ALARM CONTROL PANEL.
 - F18 PROVIDE REMOTE POWER SUPPLY TO POWER VISIBLE NOTIFICATION APPLIANCES.
 - F20 MAGNETIC DOOR HOLDS TO BE UTILIZED AS INDICATED IN ARCHITECTURAL PLANS.
 - F52 PROVIDE DRY PENDENT TYPE SPRINKLERS WITHIN COOLER/FREEZERS. REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION OF SPRINKLER AT COOLERS/FREEZERS WITH LIGHTS, EVAPORATORS AND OTHER OBSTRUCTIONS. NOTE THAT FINAL LIGHT AND EVAPORATOR LOCATIONS MAY DIFFER FROM THOSE SHOWN ON PLANS.
 - F53 COORDINATE TEMPERATURE RATING OF SPRINKLERS NEAR HEAT PRODUCING SOURCES IN ACCORDANCE WITH NFPA 13 FOR ANTICIPATED AMBIENT CEILING TEMPERATURES.
 - F54 DO NOT ROUTE SPRINKLER PIPING ABOVE ELECTRICAL DISTRIBUTION EQUIPMENT.

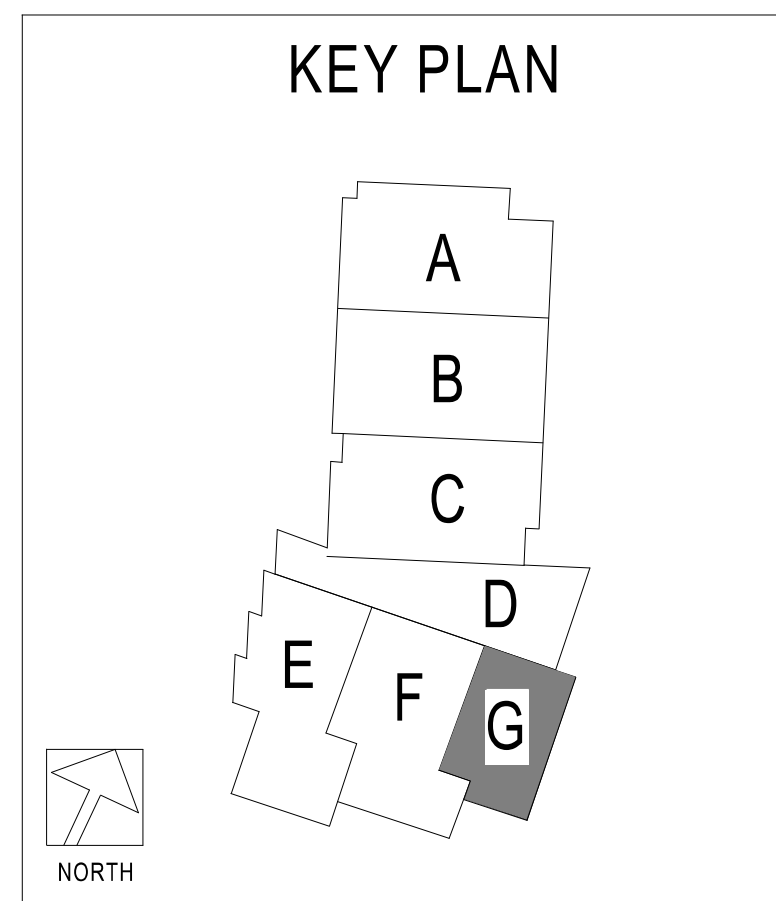


LEE'S SUMMIT MIDDLE SCHOOL #4
LEE'S SUMMIT R-7 SCHOOL DISTRICT
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LEE'S SUMMIT, MO 64081

PACKAGE 3 - BUILDING & SITE
10/08/20
REVISIONS

13-20102-00
FIRE PROTECTION
FIRST LEVEL RCP
- AREA G

FP1.1G



FIRE PROTECTION PLAN NOTES:

F10 PROVIDE DUCT MOUNTED SMOKE DETECTOR FOR FAN POWERED MECHANICAL AIR HANDLING EQUIPMENT SHUTDOWN. INSTALL DETECTOR PER MANUFACTURER'S RECOMMENDATIONS. REFER TO MECHANICAL SHEETS FOR EQUIPMENT AND DUCTWORK LAYOUT AND DETAILS.

F11 PROVIDE LOW VOLTAGE WIRING FROM DUCT DETECTOR TO REMOTE TEST STATION. MOUNT REMOTE TEST STATION ON WALL AT 48" AFF.

F13 PROVIDE SMOKE DETECTOR FOR DOOR RELEASE IN ACCORDANCE WITH NFPA 72.

F14 PROVIDE APPROPRIATE EQUIPMENT AND CONNECTION(S) REQUIRED TO RELEASE DOOR HOLDERS UPON ALARM SIGNAL FROM THE FIRE ALARM CONTROL PANEL.

F18 PROVIDE REMOTE POWER SUPPLY TO POWER VISIBLE NOTIFICATION APPLIANCES.

F20 MAGNETIC DOOR HOLDS TO BE UTILIZED AS INDICATED IN ARCHITECTURAL PLANS.

F21 ROUTE FIRE ALARM WIRING/CONDUIT IN A CLEAN MANNER AND TO MINIMIZE VISIBILITY.

F27 PROVIDE DUCT-MOUNTED SMOKE DETECTOR (OR AREA DETECTOR IF APPLICABLE) FOR FIRE/SMOKE DAMPER ACTIVATION. DETECTOR SHALL BE INSTALLED WITHIN 5 FEET OF DAMPER PER NFPA 72. REFER TO MECHANICAL SHEETS FOR EXACT LOCATION OF DAMPERS. THE DETECTOR SELECTED SHALL BE SUITABLE FOR THE AIRFLOW PRESENT IN THE DUCT.

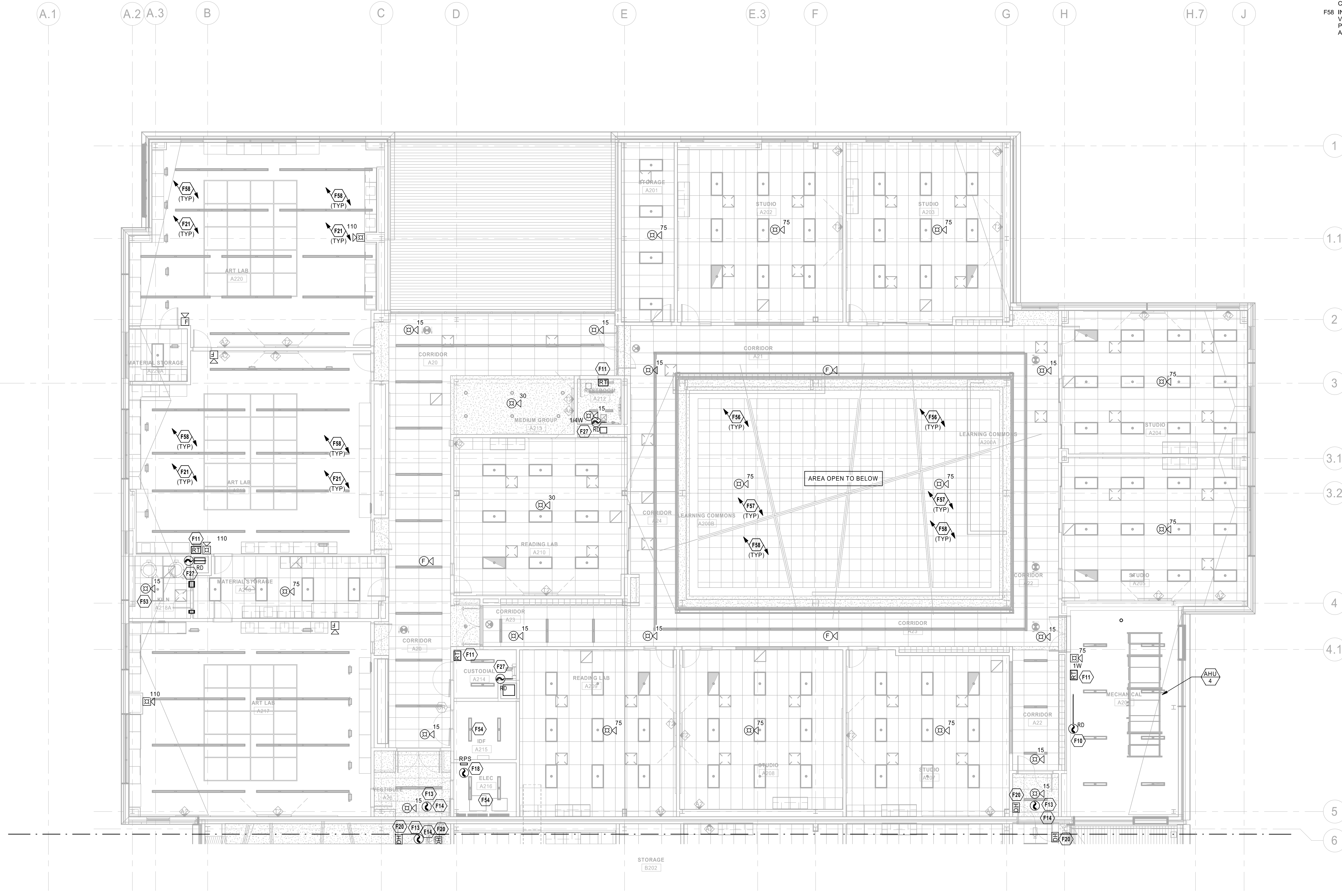
F53 COORDINATE TEMPERATURE RATING OF SPRINKLERS NEAR HEAT PRODUCING SOURCES IN ACCORDANCE WITH NFPA 13 FOR ANTICIPATED AMBIENT CEILING TEMPERATURES.

F54 DO NOT ROUTE SPRINKLER PIPING ABOVE ELECTRICAL DISTRIBUTION EQUIPMENT.

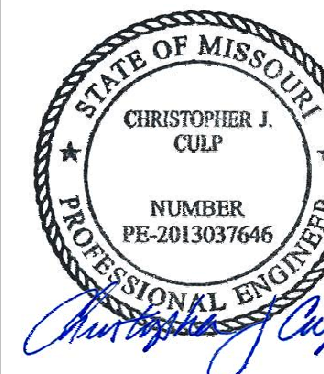
F56 PROVIDE SPRINKLER ABOVE AND BELOW CLOUD CEILING.

F57 SPRINKLERS IN CLOUD CEILING SHALL BE CONCEALED PENDENT. CAPS SHALL BE FACTORY PAINTED AND COORDINATED WITH ARCHITECT TO MATCH THE CEILING.

F58 INSTALL SPRINKLER PIPING TIGHT TO STRUCTURE. MINIMIZE VISIBILITY IN OPEN CEILING AS MUCH AS POSSIBLE. PAINT PIPE TO MATCH SURROUNDING FINISH. COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION.



- FIRE PROTECTION PLAN NOTES:**
- F3 PROVIDE EQUIPMENT AND CONNECTION(S) REQUIRED FOR ELEVATOR RECALL AND/OR SHUTDOWN. REFER TO SEQUENCE OF OPERATION FOR ADDITIONAL INFORMATION.
 - F10 PROVIDE DUCT MOUNTED SMOKE DETECTOR FOR FAN POWERED MECHANICAL AIR HANDLING EQUIPMENT SHUTDOWN. INSTALL DETECTOR PER MANUFACTURER'S RECOMMENDATIONS. REFER TO MECHANICAL SHEETS FOR EQUIPMENT AND DUCTWORK LAYOUT AND DETAILS.
 - F11 PROVIDE LOW VOLTAGE WIRING FROM DUCT DETECTOR TO REMOTE TEST STATION. MOUNT REMOTE TEST STATION ON WALL AT 48" AFF.
 - F13 PROVIDE SMOKE DETECTOR FOR DOOR RELEASE IN ACCORDANCE WITH NFPA 72.
 - F14 PROVIDE APPROPRIATE EQUIPMENT AND CONNECTION(S) REQUIRED TO RELEASE DOOR HOLDERS UPON ALARM SIGNAL FROM THE FIRE ALARM CONTROL PANEL.
 - F20 MAGNETIC DOOR HOLDS TO BE UTILIZED AS INDICATED IN ARCHITECTURAL PLANS.
 - F27 PROVIDE DUCT-MOUNTED SMOKE DETECTOR (OR AREA DETECTOR IF APPLICABLE) FOR FIRE/SMOKE DAMPER ACTIVATION. DETECTOR SHALL BE INSTALLED WITHIN 5 FEET OF DAMPER PER NFPA 72. REFER TO MECHANICAL SHEETS FOR EXACT LOCATION OF DAMPERS. THE DETECTOR SELECTED SHALL BE SUITABLE FOR THE AIRFLOW PRESENT IN THE DUCT.
 - F53 COORDINATE TEMPERATURE RATING OF SPRINKLERS NEAR HEAT PRODUCING SOURCES IN ACCORDANCE WITH NFPA 13 FOR ANTICIPATED AMBIENT CEILING TEMPERATURES.
 - F54 DO NOT ROUTE SPRINKLER PIPING ABOVE ELECTRICAL DISTRIBUTION EQUIPMENT.
 - F56 PROVIDE SPRINKLER ABOVE AND BELOW CLOUD CEILING.
 - F57 SPRINKLERS IN CLOUD CEILING SHALL BE CONCEALED PENDENT. CAPS SHALL BE FACTORY PAINTED AND COORDINATED WITH ARCHITECT TO MATCH THE CEILING.



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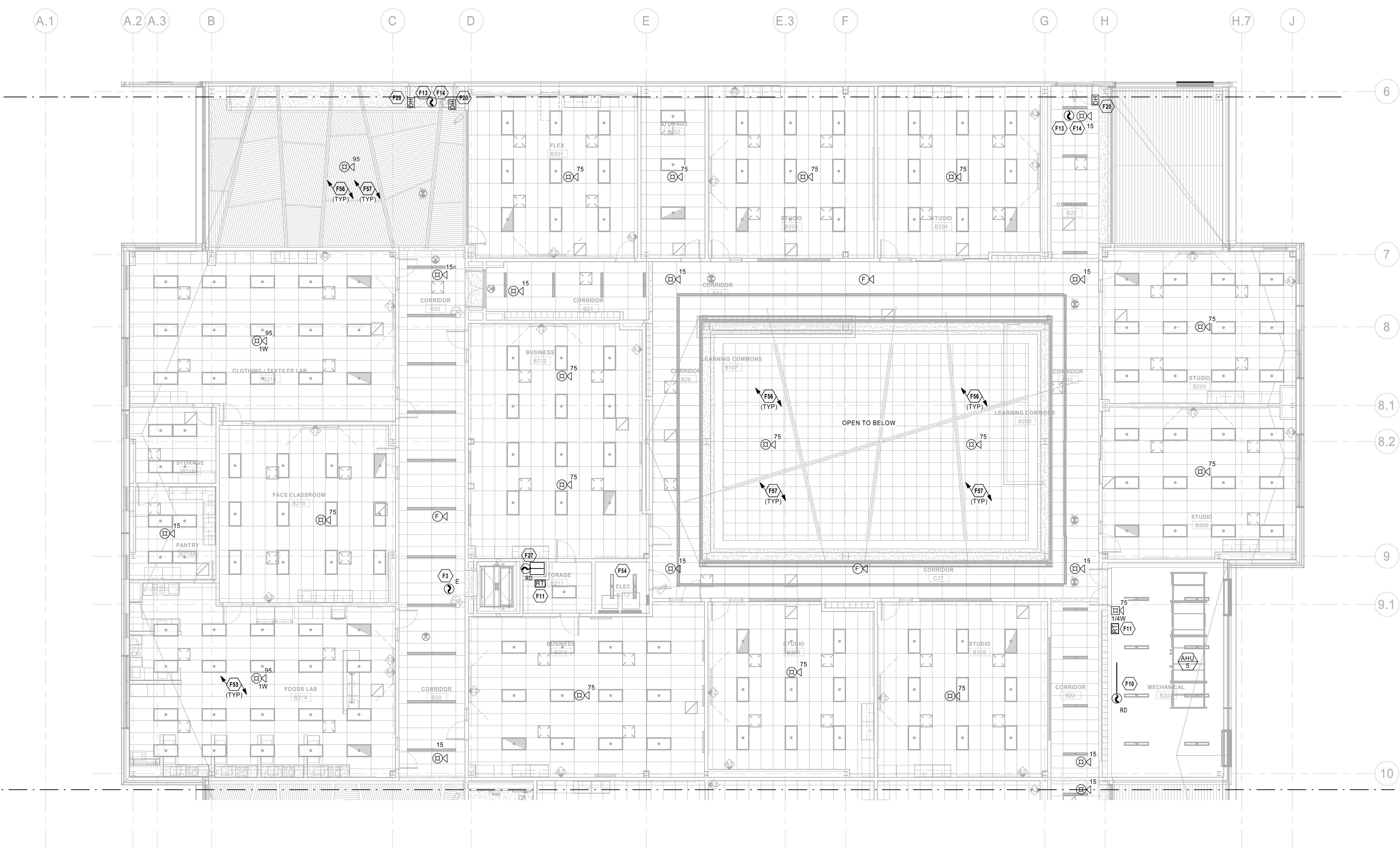
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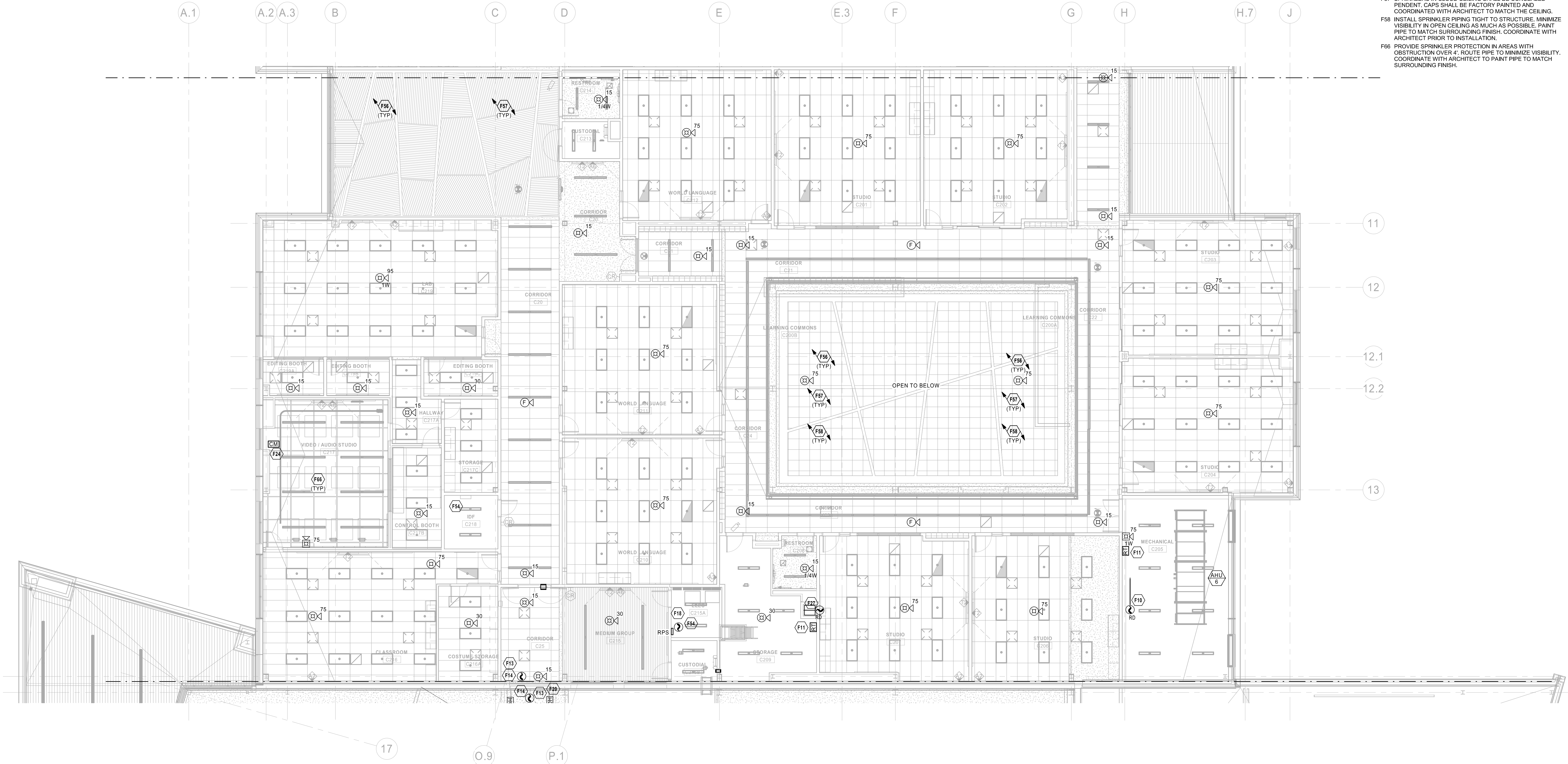
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LEE'S SUMMIT, MO 64081

PACKAGE 3 - BUILDING & SITE
10/08/20
REVISIONS

13-20102-00
FIRE PROTECTION
SECOND LEVEL
RCP - AREA B

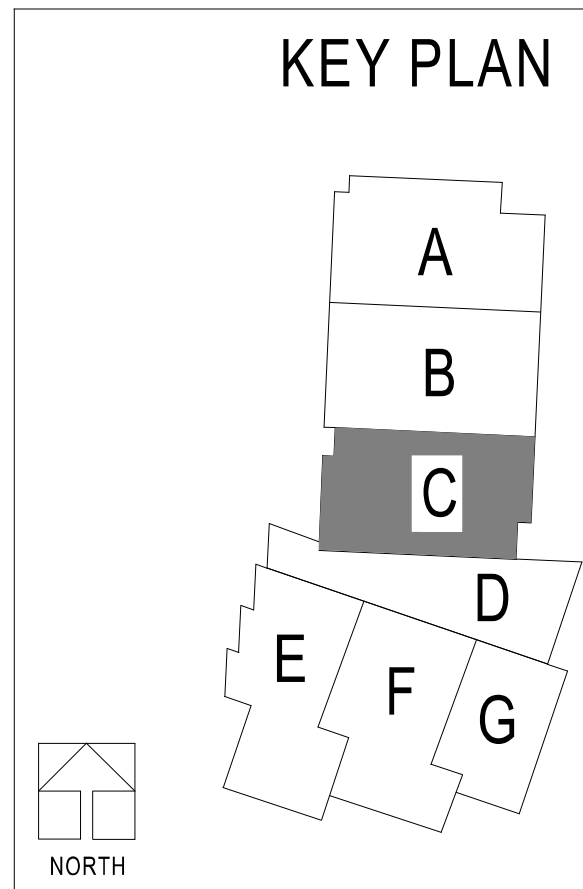
FP1.2B





- FIRE PROTECTION PLAN NOTES:**
- F10 PROVIDE DUCT MOUNTED SMOKE DETECTOR FOR FAN POWERED MECHANICAL AIR HANDLING EQUIPMENT SHUTDOWN. INSTALL DETECTOR PER MANUFACTURER'S RECOMMENDATIONS. REFER TO MECHANICAL SHEETS FOR EQUIPMENT AND DUCTWORK LAYOUT AND DETAILS.
 - F11 PROVIDE LOW VOLTAGE WIRING FROM DUCT DETECTOR TO REMOTE TEST STATION. MOUNT REMOTE TEST STATION ON WALL AT 48" AFF.
 - F13 PROVIDE SMOKE DETECTOR FOR DOOR RELEASE IN ACCORDANCE WITH NFPA 72.
 - F14 PROVIDE APPROPRIATE EQUIPMENT AND CONNECTION(S) REQUIRED TO RELEASE DOOR HOLDERS UPON ALARM SIGNAL FROM THE FIRE ALARM CONTROL PANEL.
 - F18 PROVIDE REMOTE POWER SUPPLY TO POWER VISIBLE NOTIFICATION APPLIANCES.
 - F20 MAGNETIC DOOR HOLDS TO BE UTILIZED AS INDICATED IN ARCHITECTURAL PLANS.
 - F24 PROVIDE EQUIPMENT AND CONNECTIONS REQUIRED FOR AUDIO INTERRUPTION TO ENSURE THE SOUND SYSTEM IS MUTED IN THE EVENT OF A FIRE ALARM. COORDINATE EXACT LOCATION OF EQUIPMENT AND CONNECTIONS.
 - F27 PROVIDE DUCT-MOUNTED SMOKE DETECTOR (OR AREA DETECTOR IF APPLICABLE) FOR FIRE/SMOKE DAMPER ACTIVATION. DETECTOR SHALL BE INSTALLED WITHIN 5 FEET OF DAMPER PER NFPA 72. REFER TO MECHANICAL SHEETS FOR EXACT LOCATION OF DAMPERS. THE DETECTOR SELECTED SHALL BE SUITABLE FOR THE AIRFLOW PRESENT IN THE DUCT.
 - F54 DO NOT ROUTE SPRINKLER PIPING ABOVE ELECTRICAL DISTRIBUTION EQUIPMENT.
 - F56 PROVIDE SPRINKLER ABOVE AND BELOW CLOUD CEILING.
 - F57 SPRINKLERS IN CLOUD CEILING SHALL BE CONCEALED PENDENT. CAPS SHALL BE FACTORY PAINTED AND COORDINATED WITH ARCHITECT TO MATCH THE CEILING.
 - F58 INSTALL SPRINKLER PIPING TIGHT TO STRUCTURE. MINIMIZE VISIBILITY IN OPEN CEILING AS MUCH AS POSSIBLE. PAINT PIPE TO MATCH SURROUNDING FINISH. COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION.
 - F66 PROVIDE SPRINKLER PROTECTION IN AREAS WITH OBSTRUCTION OVER 4'. ROUTE PIPE TO MINIMIZE VISIBILITY. COORDINATE WITH ARCHITECT TO PAINT PIPE TO MATCH SURROUNDING FINISH.

① FIRE PROTECTION SECOND LEVEL RCP - AREA C
1/8" = 1'-0"
SCALE: 1/8"=1'-0"



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STATE OF MISSOURI
CHRISTOPHER J. CULP
NUMBER: PE-2013037646
Professional Engineer

CHRISTOPHER J. CULP
10/08/2020
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PACKAGE 3 - BUILDING & SITE
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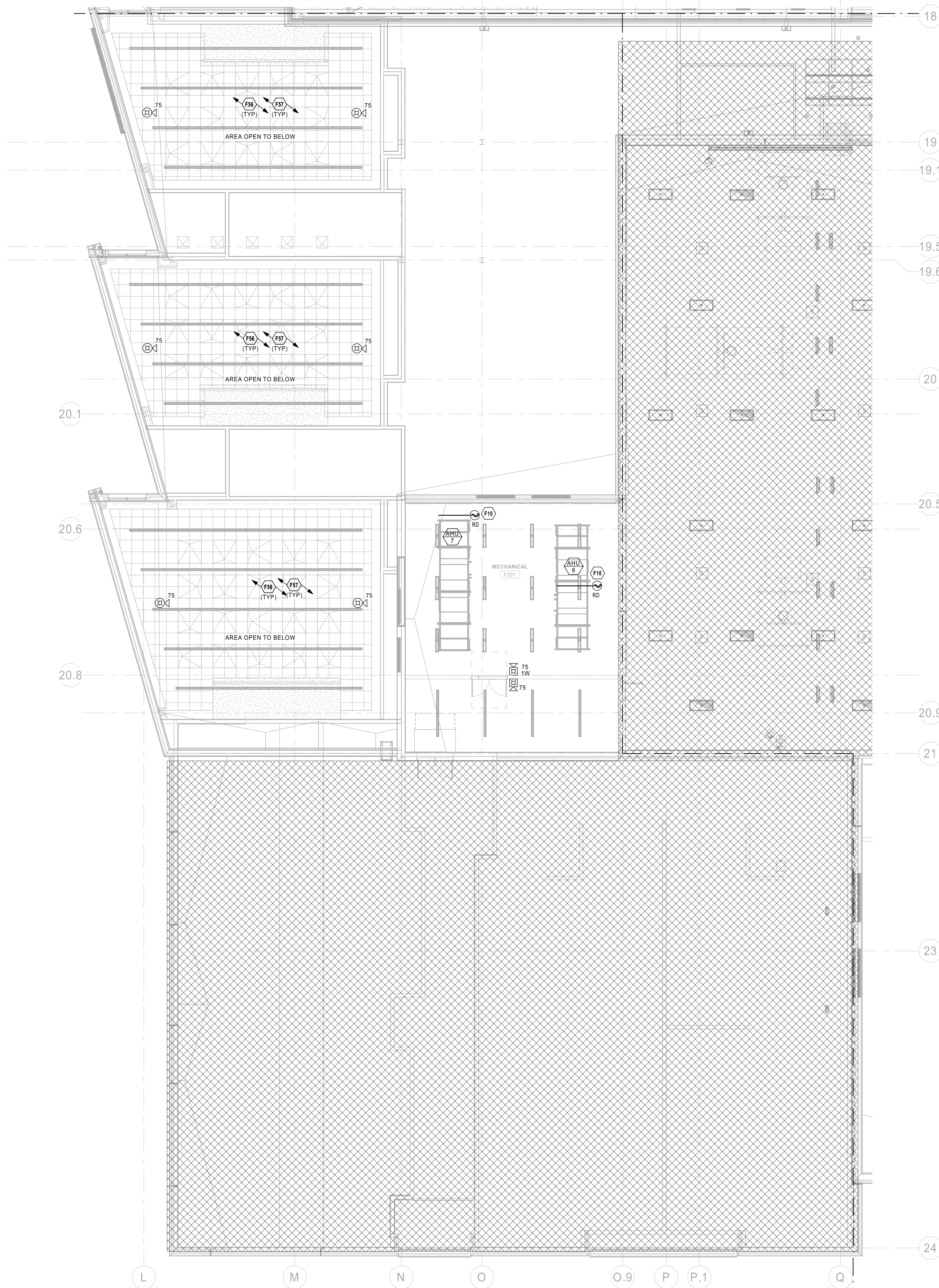
13-20102-00
FIRE PROTECTION
SECOND LEVEL
RCP - AREA C
FP1.2C

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KEY PLAN

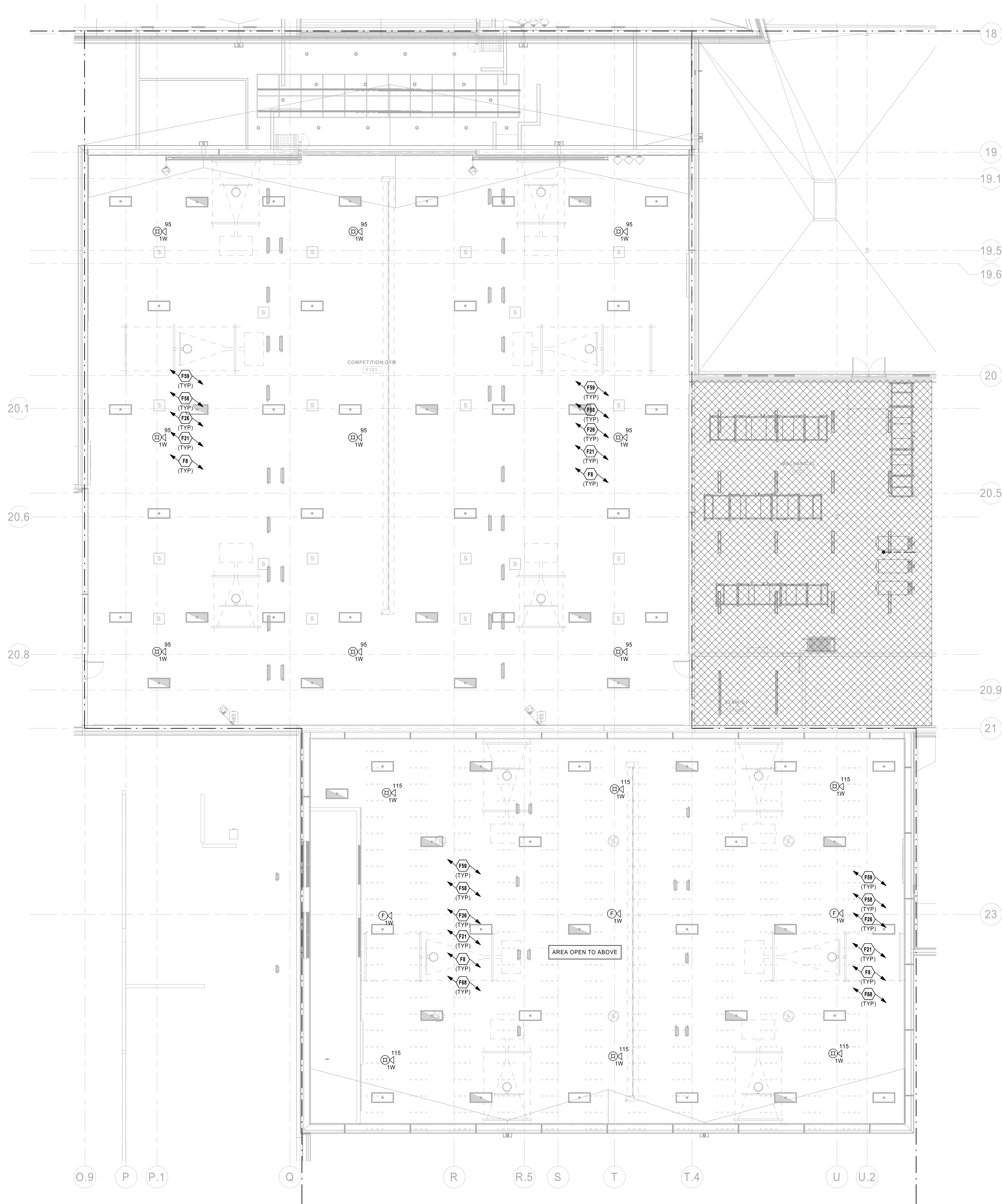
A
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C
D
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F
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NORTH

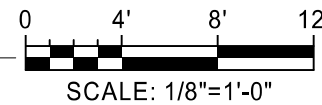


① FIRE PROTECTION SECOND LEVEL RCP - AREA E
1/8" = 1'-0"

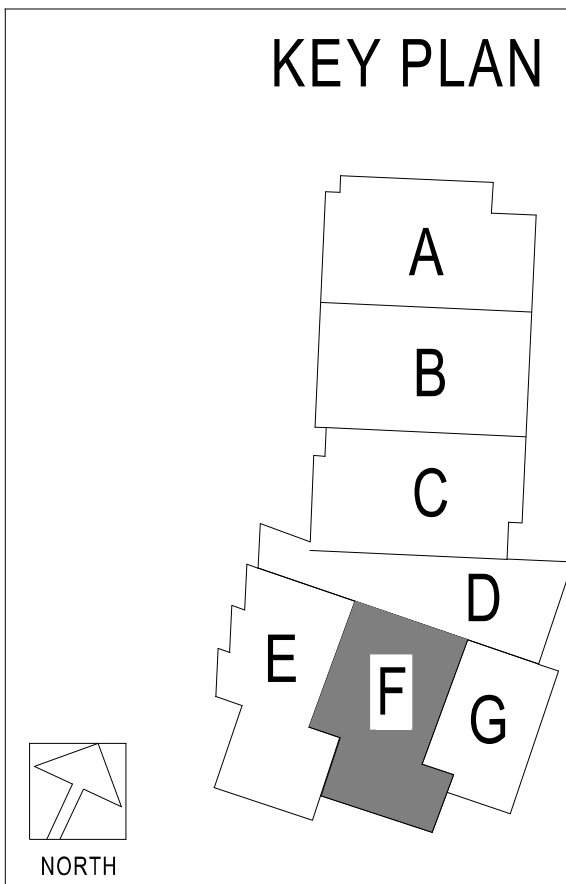
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1 FIRE PROTECTION SECOND LEVEL RCP - AREA F
1/8" = 1'-0"



- FIRE PROTECTION PLAN NOTES:**
- F8 PROVIDE LISTED FIRE ALARM GUARD OR WIRE COVER TO PROTECT DEVICE FROM PHYSICAL DAMAGE.
 - F21 ROUTE FIRE ALARM WIRING/CONDUIT IN A CLEAN MANNER AND TO MINIMIZE VISIBILITY.
 - F26 MINIMIZE FIRE ALARM AND SPRINKLER PENETRATIONS WITHIN THE ICC 500 SHELTER.
 - F58 INSTALL SPRINKLER PIPING TIGHT TO STRUCTURE. MINIMIZE VISIBILITY IN OPEN CEILING AS MUCH AS POSSIBLE. PAINT PIPE TO MATCH SURROUNDING FINISH. COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION.
 - F59 PROVIDE PROTECTIVE GUARDS FOR SPRINKLERS.
 - F68 LIMIT FIRE ALARM CONDUIT SIZE AND SPRINKLER PIPE SIZE SUCH THAT THE PENETRATION DOES NOT EXCEED 2-1/16 INCHES.



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PACKAGE 3 - BUILDING & SITE
10/08/20
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13-20102-00
FIRE PROTECTION
SECOND LEVEL
RCP - AREA F

FP1.2F

FIRE PROTECTION PLAN NOTES:
F10 PROVIDE DUCT MOUNTED SMOKE DETECTOR FOR FAN POWERED MECHANICAL AIR HANDLING EQUIPMENT SHUTDOWN. INSTALL DETECTOR PER MANUFACTURER'S RECOMMENDATIONS. REFER TO MECHANICAL SHEETS FOR EQUIPMENT AND DUCTWORK LAYOUT AND DETAILS.



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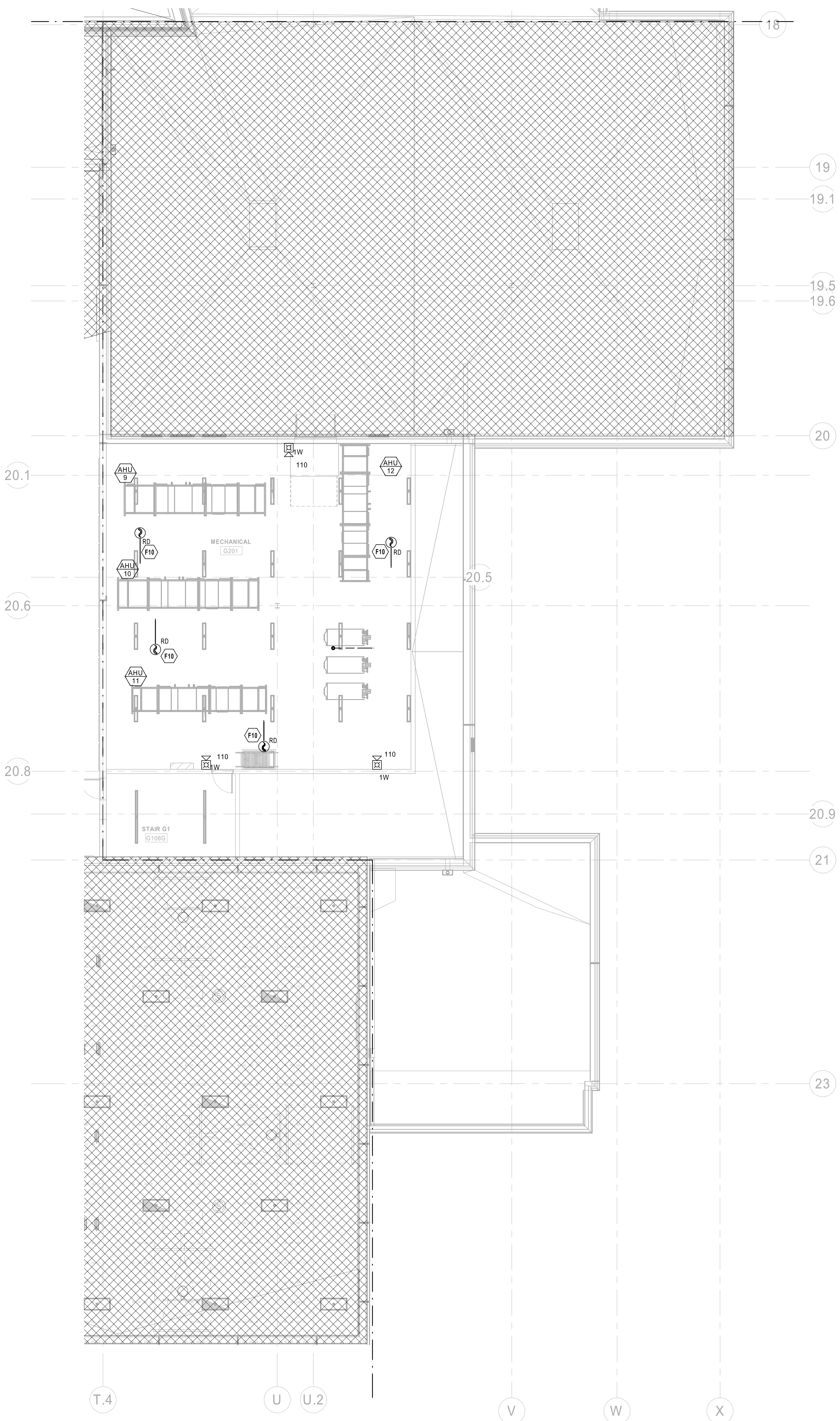
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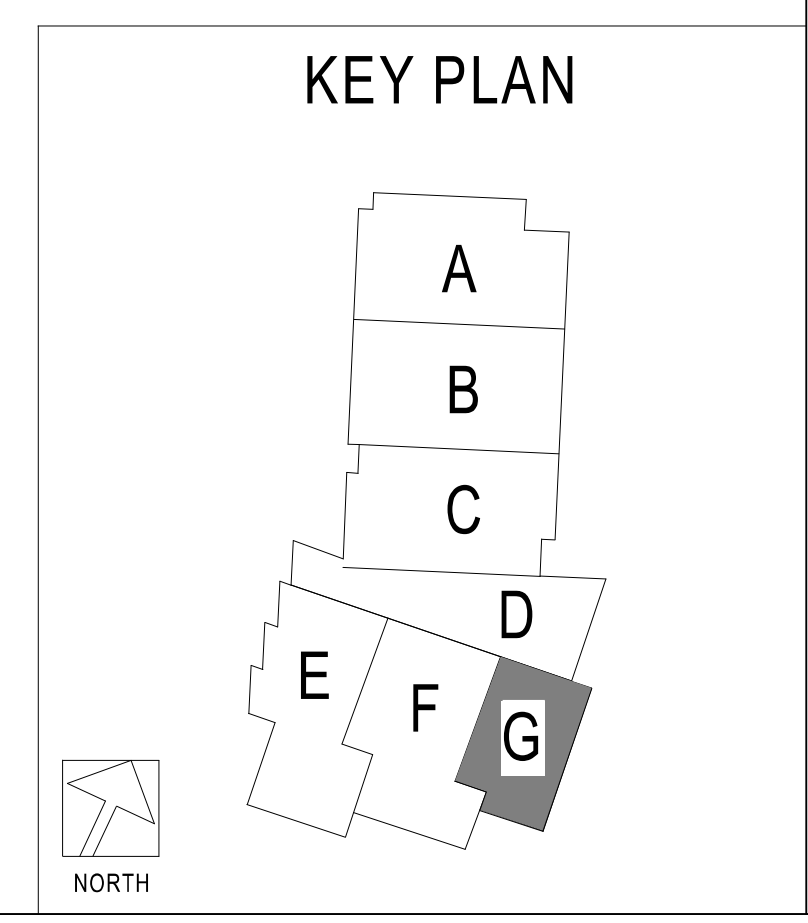
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FIRE PROTECTION
SECOND LEVEL
RCP - AREA G

FP1.2G

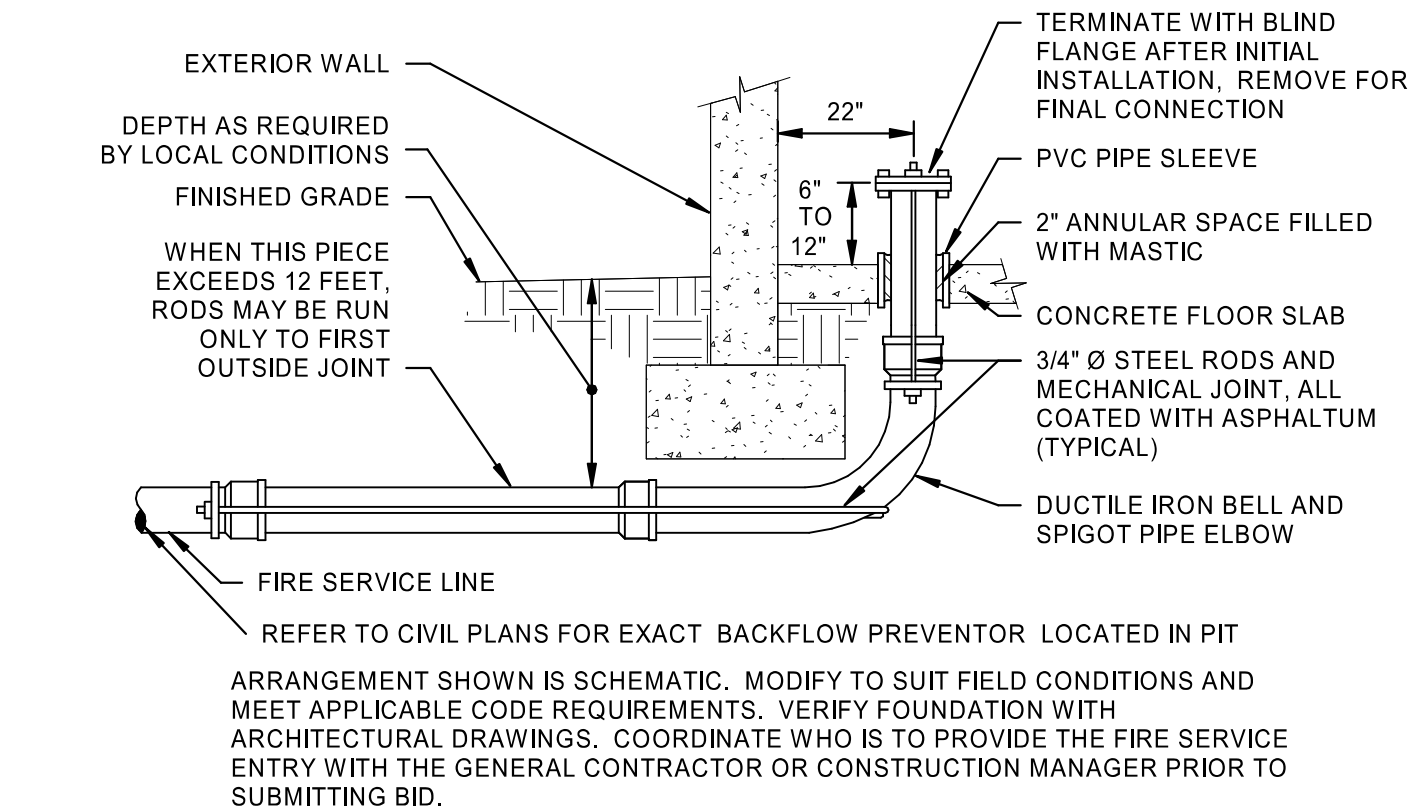


1 FIRE PROTECTION SECOND LEVEL RCP - AREA G
1/8" = 1'-0"
SCALE: 1/8"=1'-0"



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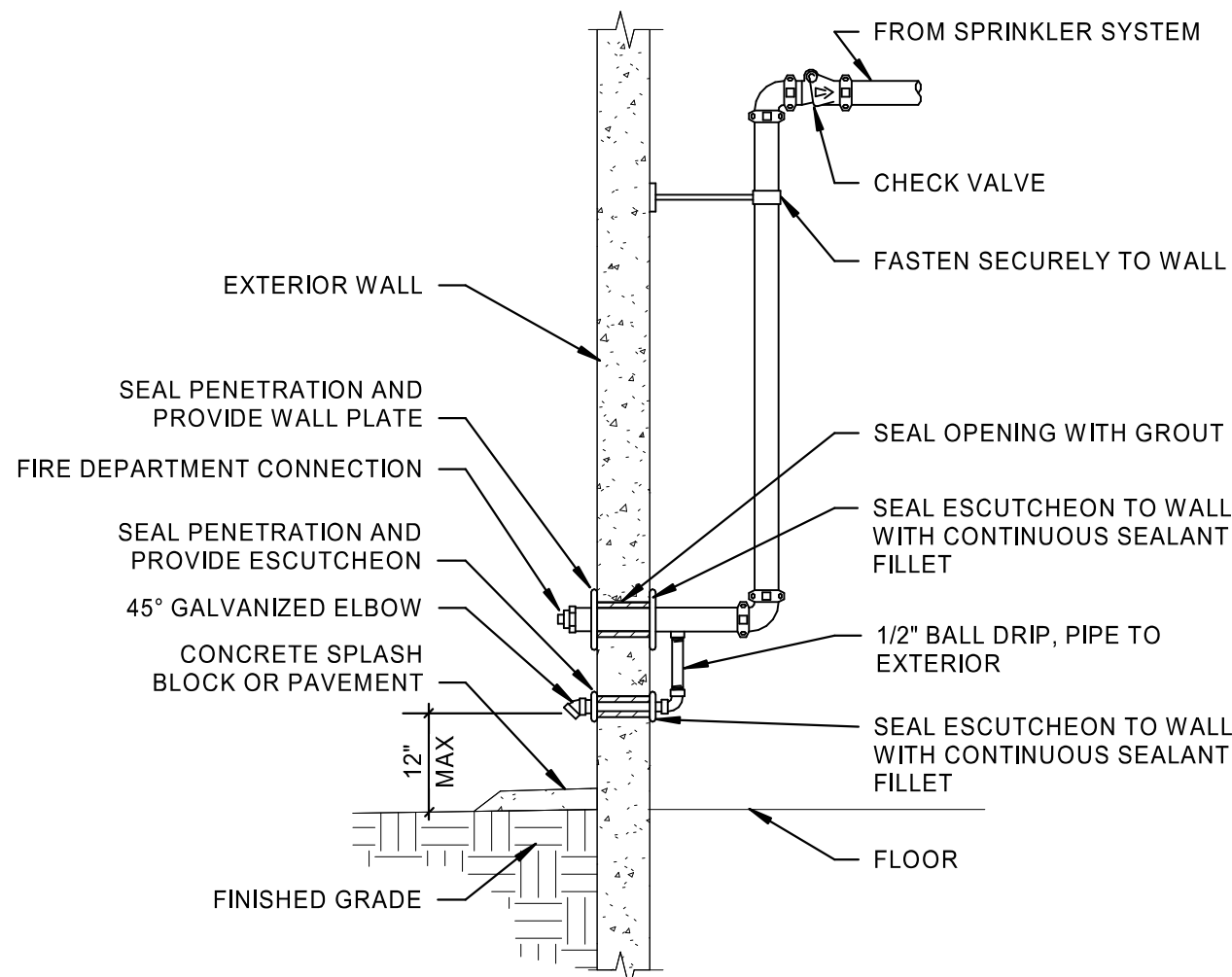
3 FIRE SERVICE ENTRY NTS

2 FIRE ALARM SEQUENCE OF OPERATIONS NTS

SYSTEM INPUTS	PRIORITY										SYSTEM OUTPUTS									
	ALARM	SUPERVISORY	TROUBLE	REPORT TO FIRE ALARM CONTROL PANEL	SIGNAL SUPERVISING STATION	ACTIVATE GENERAL FIRE ALARM (AUDIBLE/VISIBLE NOTIFICATION APPLIANCES)	SHUTDOWN ALL FAIR POWERED MECHANICAL APPLIANCES	CLOSE ASSOCIATED SMOKE DAMPER	SHUTDOWN AUDIO/VIDEO SYSTEMS IN COMMON AREAS	INITIATE ELEVATOR RECALL TO PRIMARY FLOOR	INITIATE ELEVATOR SHUNT TRIP	ACTIVATE LOCAL NOTIFICATION OF CARBON MONOXIDE DETECTION	RELEASE SECURED DOORS/MAGNETIC LOCKS							
SIGNALING LINE OR NOTIFICATION APPLIANCE CIRCUIT - OPEN																				
SIGNALING LINE OR NOTIFICATION APPLIANCE CIRCUIT - SHORT																				
SIGNALING LINE OR NOTIFICATION APPLIANCE CIRCUIT - GROUND																				
FIRE ALARM CONTROL PANEL LOSS OF POWER																				
MANUAL PULL STATION																				
SMOKE DETECTOR - SPOT TYPE																				
SMOKE DETECTOR - DUCT MOUNTED																				
HEAT DETECTOR - SPOT TYPE																				
WATERFLOW ALARM SWITCH																				
VALVE TAMPER SWITCH																				
KITCHEN HOOD SUPPRESSION SYSTEM																				
FIRE DEPARTMENT KEY BOX VALVE TAMPER SWITCH (KNOX BOX)																				
CARBON MONOXIDE (CO) DETECTOR - CO DETECTED																				
CARBON MONOXIDE (CO) DETECTOR - SUPERVISORY/FAULT																				
SMOKE DETECTOR - ELEVATOR LOBBY - PRIMARY FLOOR																				
SMOKE DETECTOR - ELEVATOR LOBBY - ALTERNATE FLOOR(S)																				
SMOKE DETECTOR - ELEVATOR EQUIPMENT ROOM / HOISTWAY																				
HEAT DETECTOR - ELEVATOR EQUIPMENT ROOM																				
HEAT DETECTOR - ELEVATOR HOISTWAY PIT																				

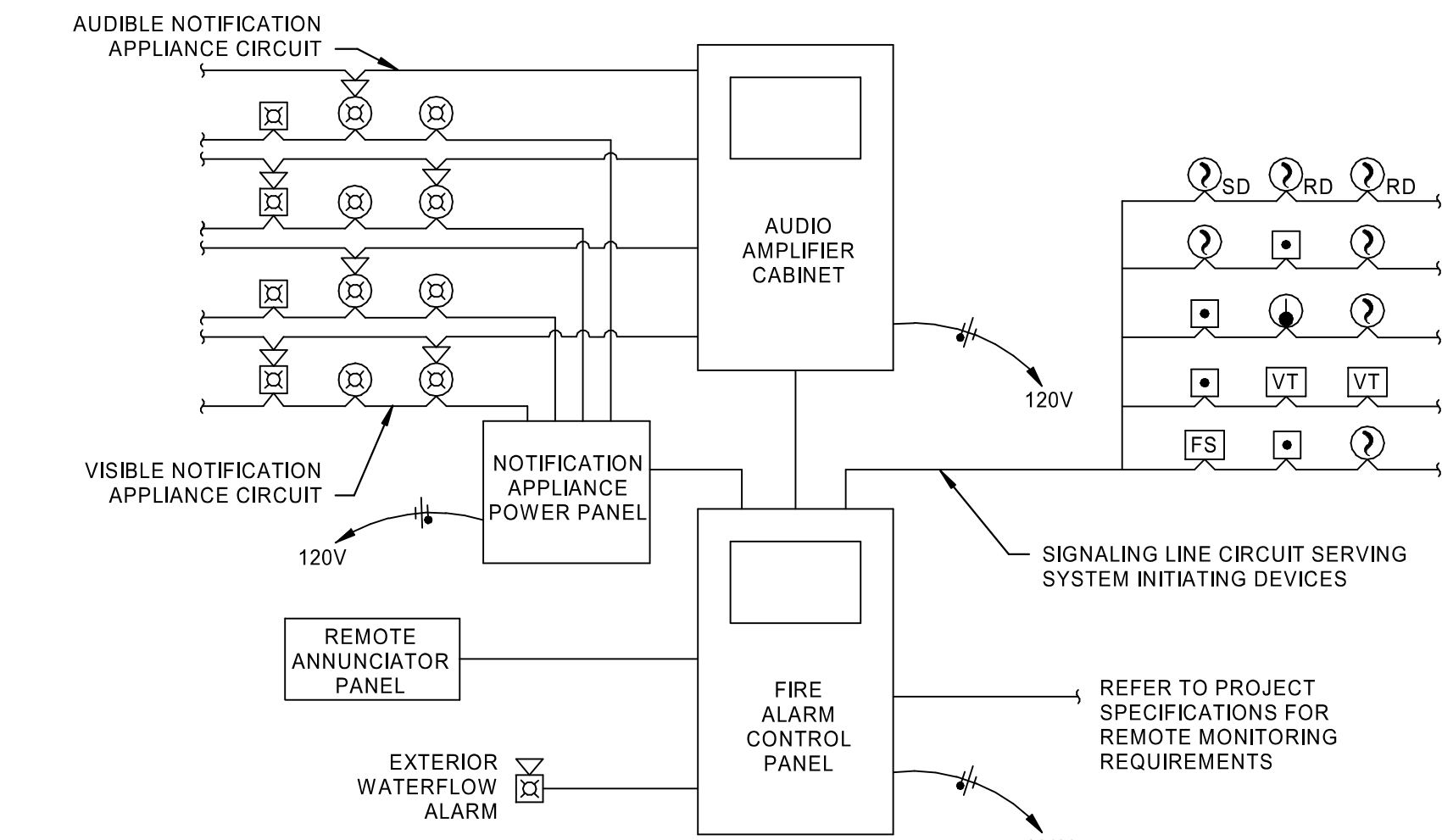
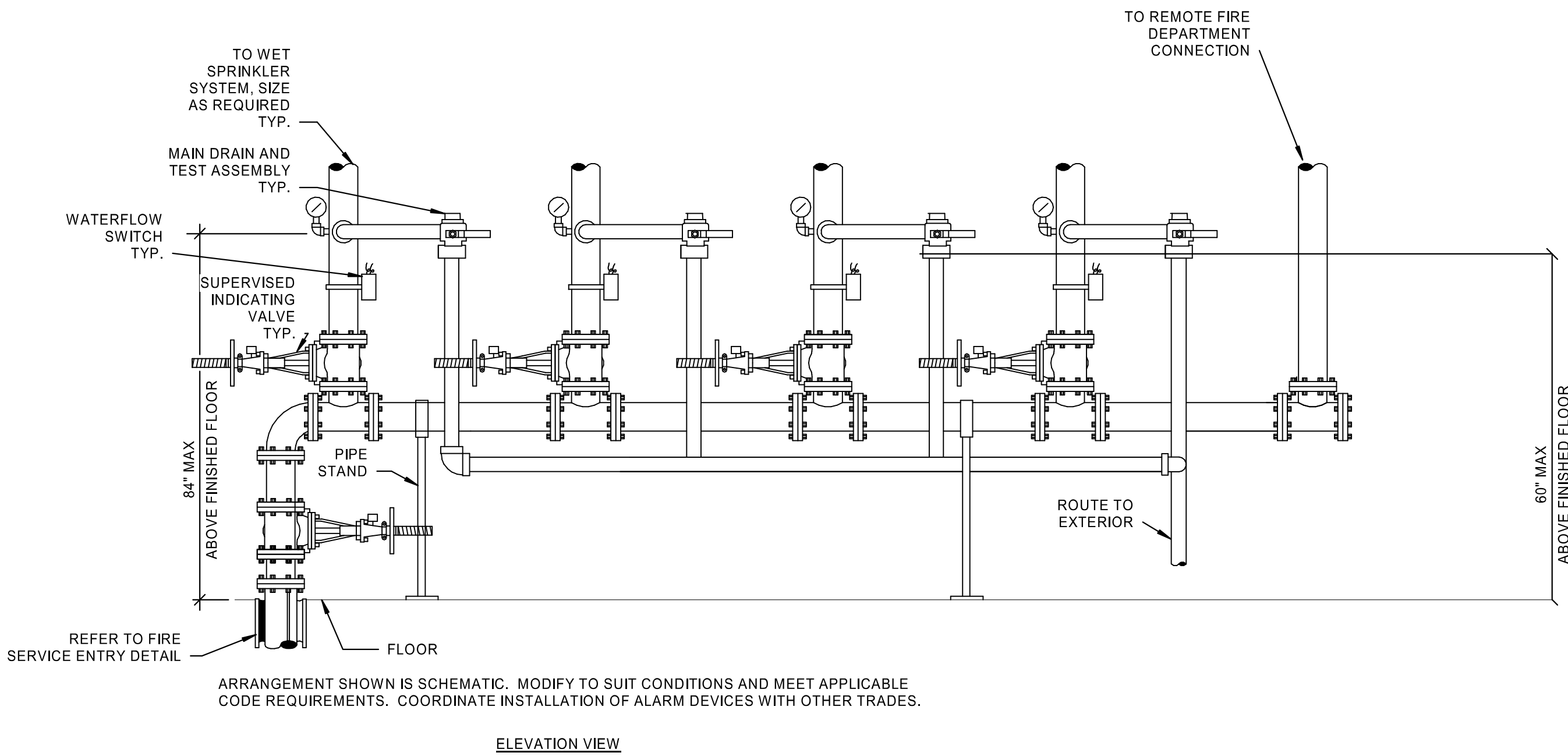
CONTRACTOR TO PROVIDE ALL NECESSARY EQUIPMENT AND CONNECTIONS REQUIRED TO ACCOMPLISH THE FUNCTIONS INDICATED, AT MINIMUM.
SEQUENCE OF OPERATIONS INDICATED IS SCHEMATIC. MODIFY TO SUIT CONDITIONS AND MEET APPLICABLE CODE REQUIREMENTS.

5 FIRE DEPARTMENT CONNECTION NTS



ARRANGEMENT SHOWN IS SCHEMATIC. MODIFY TO SUIT CONDITIONS AND MEET APPLICABLE CODE REQUIREMENTS. EXTERIOR PIPING AND FITTINGS SHALL BE GALVANIZED. REFER TO DRAWINGS FOR APPROVED LOCATIONS.

4 FIRE PROTECTION RISER - WET PIPE NTS



RISER DIAGRAM IS SCHEMATIC IN NATURE. NOT ALL DEVICES ARE SHOWN. REFER TO PLANS FOR EQUIPMENT QUANTITIES AND LOCATIONS.
DUCT DETECTORS MAY HAVE INTEGRAL RELAYS FOR AIR HANDLING UNIT SHUT-DOWN AND FIRE/SMOKE DAMPER CONTROL. WIRING FOR THIS FUNCTION HAS NOT BEEN SHOWN. COORDINATE WITH MECHANICAL SYSTEM INSTALLER.
REFER TO PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

1 FIRE ALARM RISER DIAGRAM - ADDRESSABLE SYSTEM (VOICE) NTS