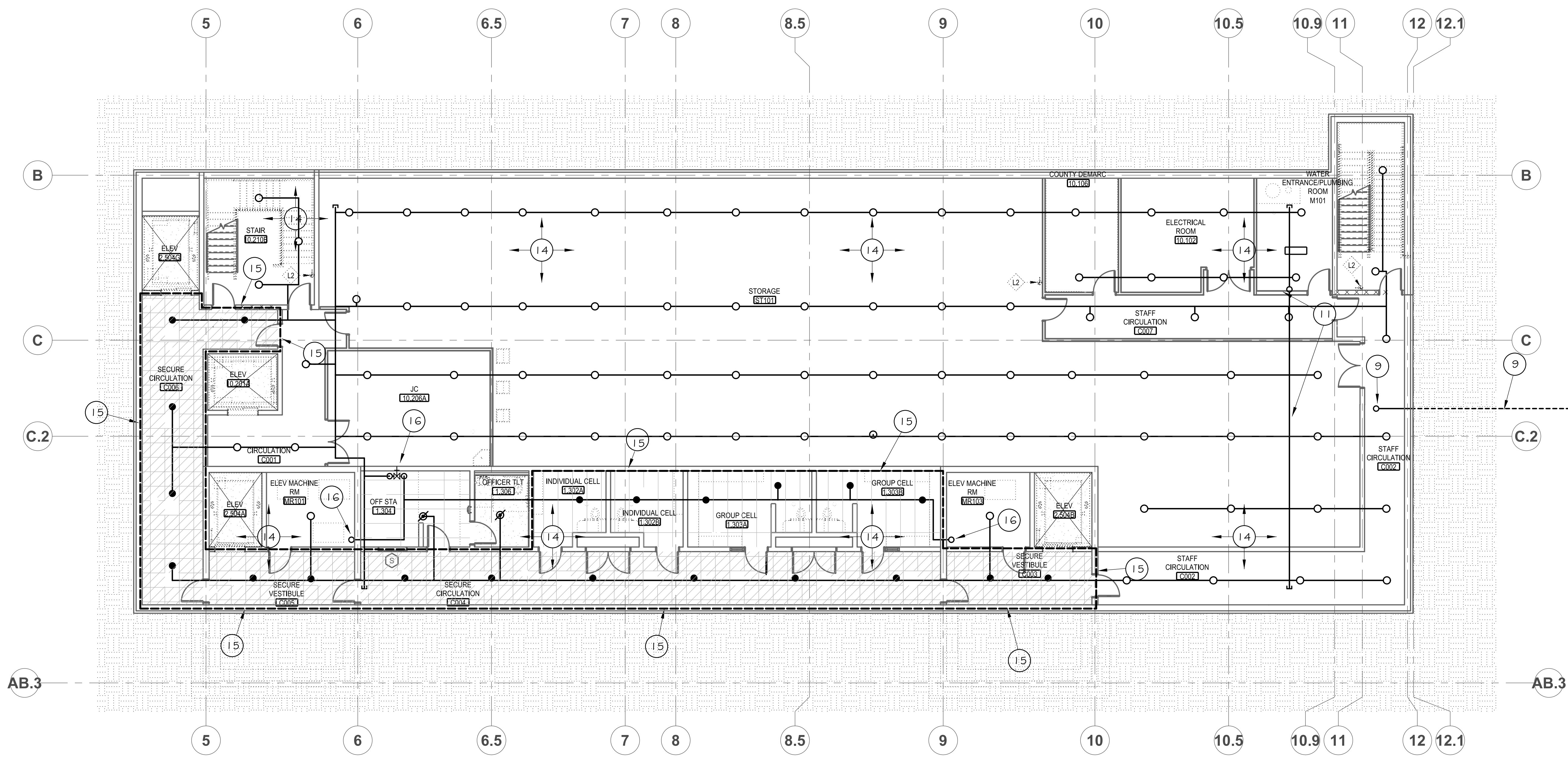


- 1 - 6" FIRE PROTECTION WATER SUPPLY FROM BUILDING EXTERIOR. PROVIDE THIRTY RESTRIANT. INSTALL 1/2" DIA AND PRESSURE TEST PER NFPA 13. PIPING ENTERS BASEMENT THROUGH FOUNDATION WALL (PROVIDE PIPE SLEEVE WITH LINK SEAL). RUN PIPING OVERHEAD ACROSS CORRIDOR AND RISE UP TO FIRE RISER ROOM ABOVE. ALL PIPING BETWEEN CONNECTION TO PUBLIC WATER SYSTEM AND INLET SIDE OF BACKFLOW PREVENTER SHALL BE APPROVED FOR POTABLE WATER USE.
- 2 - FLEXIBLE COUPLING
- 3 - PIPE STAND. SUPPORT BOTH UPPER AND LOWER PIPING (SEPARATELY)
- 4 - CHECK VALVE
- 5 - SPARE FIRE SPRINKLER CABINET. STOCK PER NFPA 13.
- 6 - UL LISTED DOUBLE CHECK ASSEMBLY WITH BUTTERFLY PATTERN CONTROL VALVES WITH SUPERVISORY SWITCHES
- 7 - 4" TO WALL MOUNTED, 2-WAY FIRE DEPARTMENT CONNECTION
- 8 - NOT USED
- 9 - BUTTERFLY PATTERN CONTROL VALVE WITH BUILT-IN SUPERVISORY SWITCH
- 10 - RISER CHECK VALVE WITH 2" MAIN DRAIN OUTLET AND PRESSURE GAUGES
- 11 - 2" VALVE FOR MAIN DRAIN. EXTEND DISCHARGE TO BUILDING EXTERIOR
- 12 - NOT USED
- 13 - NOT USED
- 14 - HYDRAULIC DESIGN INFORMATION PLACARD
- 15 - VANE TYPE WATER FLOW SWITCH
- 16 - INSPECTOR'S TEST VALVE WITH PRESSURE RELIEF TRIM. EXTEND DISCHARGE TO MAIN DRAIN.
- 17 - SUPPLY TO FIRE SPRINKLERS PROTECTING LEVEL 0
- 18 - SUPPLY TO FIRE SPRINKLERS PROTECTING LEVEL 1
- 19 - SUPPLY TO FIRE SPRINKLERS PROTECTING LEVEL 2

FIRE SPRINKLER RISER SCHEMATIC

SCALE: NONE



1 FIRE SPRINKLER PLAN - BASEMENT
1/8" = 1'-0"

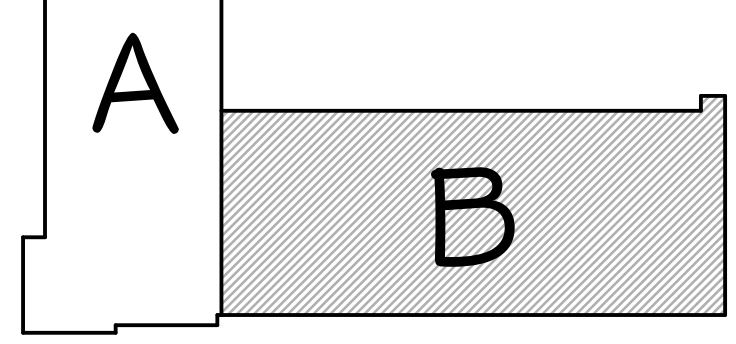


Keynote Legend - Fire Sprinkler

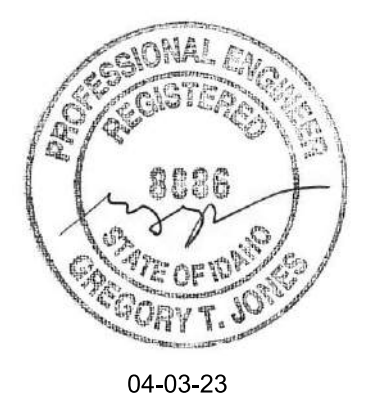
- 1 EXISTING 2" FIRE PROTECTION WATER SUPPLY TO BE ABANDONED. DISCONNECT FROM EXISTING PUBLIC WATER SYSTEM. REMOVE PIPING TO AT LEAST 12" BELOW EXISTING FLOOR SLAB. FILL REMAINING PIPING WITH FLOWABLE FILL MATERIAL AND ABANDON IN PLACE.
- 2 EXISTING FIRE SPRINKLER RISER TO BE DEMOLISHED TO FACILITATE REMODEL OF EXISTING BUILDING. REMOVE ALL CONTROL VALVES, APPURTENANCES, BACKFLOW PREVENTERS, SUPPORTS AND BRACES. REMOVE HOSE VALVE. CABINET PIPING FROM 12" BELOW FLOOR SLAB TO HORIZONTAL PIPING ABOVE CEILING.
- 3 EXISTING WALL MOUNTED FIRE DEPARTMENT CONNECTION (FDC) FOR EXISTING FIRE SPRINKLER SYSTEM TO BE DEMOLISHED. REMOVE FDC. REMOVE FITTING AND FIRE SUPPORTS/BRACES. REMOVE PIPING BACK TO POINT OF CONNECTION TO EXISTING 2" FDC CROSS MAIN AND CAP. PATCH REMAINING HOLE IN EXTERIOR WALL.
- 4 EXISTING FIRE SPRINKLER FEED OR CROSS MAIN TO REMAIN. CONTRACTOR TO FIELD VERIFY LOCATION, ELEVATION AND SIZE.
- 5 EXISTING FIRE SPRINKLER FEED OR CROSS MAIN TO BE DEMOLISHED TO FACILITATE CONSTRUCTION OF 2 STORY ADDITION. REMOVE PIPING, FITTINGS, SUPPORTS AND BRACES.
- 6 EXISTING FIRE PROTECTION HOSE CABINET TO BE DEMOLISHED. HOSE CABINET IS NOT REQUIRED BY CODE IN A BUILDING PROTECTED THROUGHOUT BY AN AUTOMATIC FIRE SPRINKLER SYSTEM. REMOVE HOSE VALVE, CABINET PIPING, CONNECTION TO WATER SOURCE AND CAP.
- 7 BUILDING REMODEL TO OCCUR IN HATCHED AREA. DEMO, MODIFY, ADJUST AND/OR ADD FIRE SPRINKLER AND PIPING AS REQUIRED TO ACCOMMODATE REMODEL AND ENSURE FIRE SPRINKLER PROTECTION THROUGHOUT BUILDING IN ACCORDANCE WITH NFPA 13. REMOVE ALL EXISTING PENDENT FIRE SPRINKLERS AND PIPING DROPS AND CAP OUTLETS ON BRANCH LINES. EXISTING CROSS MAINS AND SPANDED BRANCH LINE PIPING MAY REMAIN TO BE USED TO SUPPLY NEW EXTENT OF REMODEL. COORDINATE WITH MECHANICAL AND ELECTRICAL SYSTEMS. LOCATIONS OF FIRE SPRINKLERS AND PIPING ON DRAWINGS IS APPROXIMATE AND SHOULD BE FIELD VERIFIED BY CONTRACTOR.
- 8 CROSS HATCHING DENOTES PORTIONS OF EXISTING BUILDING TO BE DEMOLISHED. REMOVE ALL FIRE SPRINKLERS, DROPS, PIPING, FITTINGS, SUPPORTS AND BRACES.
- 9 NEW 6" UNDERGROUND FIRE PROTECTION WATER SUPPLY (BY OTHERS) TO BUILDING. DESIGN AND INSTALL TEST WATER SUPPLY IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF NFPA 13, 24 AND LOCAL WATER PURVEYOR. CONNECT TO EXISTING PUBLIC WATER SYSTEM LINES. 6TH AVENUE. THE PUBLIC WATER SYSTEM PROVIDES THE FOLLOWING PRESSURES/FLOW:
STATIC PRESSURE: 60 PSI
RESIDUAL PRESSURE: 64 PSI
FLOW: 1.07 GPM
- 10 RISER FOR WET PIPE FIRE SPRINKLER SYSTEM TO PROTECT EXISTING BUILDING AND PROPOSED EXPANSION. PROVIDE A SEPARATE RISER ZONE FOR EACH FLOOR LEVEL OF THE BUILDING. RISER SHALL CONSIST OF RISER CHECK VALVE, MAIN DRAIN PRESSURE GAUGE, VANE TYPE FLOW SWITCH AND TEST VALVE. SEE DETAIL ON SHEET FP10.
- 11 FEED/CROSS MAIN FOR FIRE SPRINKLER SYSTEM (SUGGESTED LOCATION). PIPING SHALL BE INSTALLED CONCEALED ABOVE CEILING WHERE CEILING IS PROVIDED. COORDINATE WITH BUILDING CEILING, STRUCTURE AND MECHANICAL/ELECTRICAL SYSTEMS.
- 12 EXTEND WATER SUPPLY TO EXISTING 2" CROSS MAIN FOR GRIDDED FIRE SPRINKLER SYSTEM IN EXISTING BUILDING.
- 13 WALL MOUNT, 2-WAY FIRE DEPARTMENT CONNECTION (FDC). INSTALL FDC APPROXIMATELY 36" ABOVE FINISHED FLOOR GRADE. CONNECT FDC TO FIRE PROTECTION WATER SUPPLY BETWEEN BACKFLOW PREVENTER AND ZONE CONTROL VALVES. CONSIDER FDC TO ALLOW PRESSURIZATION OF ALL FIRE SPRINKLER ZONES SIMULTANEOUSLY.
- 14 INSTALL WET PIPE FIRE SPRINKLER SYSTEM TO PROVIDE FIRE PROTECTION THROUGHOUT EXISTING BUILDING AND BUILDING ADDITION INCLUDING ANY COMBUSTIBLE CELLS. THE SYSTEM DESIGN, INSTALL AND TEST IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF NFPA 13. FIRE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY DESIGNED TO PROTECT HAZARD CLASSIFICATIONS OF ORDINARY HAZARD OR LIGHT HAZARD AS APPROPRIATE FOR USE OF EACH ROOM/AREA.
- 15 FIRE SPRINKLERS INSTALL TO PROTECT IMMATE HOLDING AND TRANSFER AREAS SHALL BE INSTALLED IN RECESSED TYPE FIRE SPRINKLER WITH RECESSED TYPE FINISH AND TRIM PLATE (TYCO 15231).
- 16 ALL FIRE SPRINKLERS PROTECTING HOLDING CELL AREAS (ON ALL LEVELS) SHALL BE INSTALLED IN A RECESSED LOCATION TO ALLOW SECURITY PERSONNEL TO RAPIDLY STOP THE FLOW OF WATER TO THE FIRE SPRINKLERS IN THE HOLDING CELLS IN THE EVENT OF FIRE SPRINKLER TAMPERING WITH THE SYSTEM. INSTALL A SUPERVISED CONTROL VALVE IN OFFICER STATION 1.304 LOCATED IN BASEMENT SECURITY AREA. MOUNT CONTROL VALVE EXPOSED ALONG A WALL AT A HEIGHT OF 2'-0" ABOVE FINISHED FLOOR AND PROVIDE SIGN TO CLEAR INDICATE VALVE FUNCTION. COORDINATE LOCATION WITH WALL MOUNTED FIXTURES AND WALL FINISHES AND ADJUST LOCATION AS REQUIRED TO AVOID CONTACTS. INSTALL SUPPLY PIPING FROM CONTROL VALVE TO ALL FIRE SPRINKLERS LOCATED WITHIN HOLDING CELLS ON ALL LEVELS. VERTICAL PIPING BETWEEN FLOORS MAY BE INSTALLED IN PLUMBING SHAFTS SERVING HOLDING CELL TONEL FIXTURES. COORDINATE WITH WATER, DRAIN AND VENT PIPING.

GENERAL NOTES - FIRE SPRINKLER

- 1 THE FIRE SPRINKLER SYSTEMS SHALL BE DESIGNED TO COMPLY WITH THE APPLICABLE PROVISIONS OF THE FOLLOWING CODES AND STANDARDS:
A. INTERNATIONAL BUILDING CODE (IBC) - 2018 EDITION
B. INTERNATIONAL FIRE CODE (IFC) - 2018 EDITION
C. NFPA 13 INSTALLATION OF FIRE SPRINKLER SYSTEMS 2016 EDITION
- 2 FURNISH ALL MATERIALS, EQUIPMENT AND SUPPLIES AND PERFORM ALL WORK AND OPERATIONS TO DESIGN, CONSTRUCT, AND MAKE FUNCTIONAL FIRE SPRINKLER SYSTEMS TO PROTECT EXISTING BUILDING AND PROPOSED EXPANSION. PROVIDE PARTIAL DEMOLITION AND REMODEL OF FIRE SPRINKLER SYSTEM PROTECTING PORTIONS OF EXISTING BUILDING TO BE DEMOLISHED. THE SYSTEM DESIGN SHALL MEET THE REQUIREMENTS OF CODES AND STANDARDS LISTED IN NOTE 1 ABOVE AND SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
- 3 THE DESIGN OF THE FIRE SPRINKLER SYSTEMS CONTAINED ON THESE DRAWINGS IS CONFIDENTIAL IN NATURE AND BASED ON INFORMATION PROVIDED IN THE DESIGN DEVELOPMENT DRAWINGS. THE LOCATIONS SHOWN ON THESE DRAWINGS FOR PIPING AND OTHER FIRE PROTECTION ARE APPROXIMATE AND MUST BE FIELD ADJUSTED WHERE REQUIRED TO MATCH ACTUAL BUILDING CONDITIONS. INSTALLING CONTRACTOR IS RESPONSIBLE TO COMPLETE DETAILED DESIGN OF THE FIRE SPRINKLER SYSTEMS INCLUDING HYDRAULIC CALCULATIONS.
- 4 ALL DEVICES AND MATERIALS USED FOR THE INSTALLATION OF THE FIRE SPRINKLER SYSTEMS SHALL BE UL LISTED OR FM APPROVED FOR USE IN FIRE PROTECTION.
- 5 OFF-PREMISE SUPERVISION OF FIRE SPRINKLER SYSTEM CONTROL VALVES AND FLOW SWITCHES AS WELL AS PROVISION OF LOCAL WATER FLOW ALARM DEVICE PROVIDED BY FIRE ALARM CONTRACTOR.
- 6 CONTRACTOR SHALL PREPARE AND SUBMIT COMPLETE SHOP DRAWING, PRODUCT DATA, DESIGN CALCULATIONS AND HYDRAULIC CALCULATIONS IN ACCORDANCE WITH LOCAL FIRE DEPARTMENT APPROVAL TO THE LOCAL FIRE DEPARTMENT. PRODUCT INSTALLING ANY EQUIPMENT. SHOP DRAWING SUBMITTALS SHALL MEET ALL APPLICABLE REQUIREMENTS OF NFPA 13 AND LOCAL FIRE DEPARTMENT.
- 7 WATER SUPPLY AVAILABLE FOR FIRE SPRINKLER SYSTEMS:
STATIC PRESSURE: 78 PSI
RESIDUAL PRESSURE: 64 PSI
FLOW: 1.07 GPM
TEST DATE: 11/10/22
TEST LOCATION: 6TH AVENUE BETWEEN GOODING AND SHOSHONE
- 8 FIRE SPRINKLER DESIGN DENSITIES:
A. LIBRARY STACK AREAS, FILE ROOMS, STORAGE, MECHANICAL, ELECTRICAL, COMMUNICATIONS, JANITORIAL AND SIMILAR AREAS: ORDINARY HAZARD GROUP 2, 0.20 GPM/SQ. FT. OVER THE MOST REMOTE 1,500 SQ. FT. INCLUDING 200 GPM HOSE ALLOWANCE.
B. OFFICES, CONFERENCE ROOMS, STORAGE, CONFERENCE ROOMS, OFFICES, STAIRS, COMMON AREAS AND SIMILAR SPACES: LIGHT HAZARD, 0.10 GPM/SQ. FT. OVER THE MOST REMOTE 1,500 SQ. FT. INCLUDING 100 GPM HOSE ALLOWANCE.
- 9 MAXIMUM COVERAGE AREA PER SPRINKLER:
A. ORDINARY HAZARD: 130 SQ. FT.
B. LIGHT HAZARD: 225 SQ. FT.
- 10 FIRE SPRINKLERS:
A. AREAS WITH FINISHED CEILING EXCEPT IMMATE HOLDING AND TRANSFER AREAS: QUICK RESPONSE, STANDARD ORIFICE (K-5.6), ORDINARY TEMPERATURE, WHITE PAINTED, PENDENT FIRE SPRINKLER WITH WHITE RECESSED TYPE ESCUTCHEON.
B. IMMATE HOLDING AND TRANSFER AREAS: QUICK RESPONSE, STANDARD ORIFICE (K-5.6), ORDINARY TEMPERATURE, WHITE PAINTED, INSTITUTIONAL TYPE (TAMPER-PROOF) PENDENT FIRE SPRINKLER WITH WHITE FINISH AND TRIM PLATE (TYCO 15231) OR ESCUTCHEON.
C. ORDINARY OR INTERMEDIATE TEMPERATURE, BRASS, SPRINKLER FIRE SPRINKLERS WITH FINISHED CEILING: QUICK RESPONSE, STANDARD ORIFICE (K-5.6), ORDINARY TEMPERATURE, BRASS, SPRINKLER FIRE SPRINKLERS WITH FINISHED CEILING: QUICK RESPONSE, STANDARD ORIFICE (K-5.6).
- 11 ALL FIRE SPRINKLER PIPING SHALL BE STEEL PIPE CONFORMING TO ANSI/ASTM A53, ASTM A135 OR ASTM A106 AND LARGER, SCHEDULE 10, 2" AND LARGER - SCHEDULE 30.
- 12 FITTINGS:
A. STEEL PIPING 2" AND SMALLER IN NOMINAL DIAMETER SHALL BE JOINED WITH FLEXIBLE JOINTS USING LAST BRUN FITTINGS AND COUPLINGS.
B. STEEL PIPING 2-1/2" AND LARGER IN NOMINAL DIAMETER SHALL BE JOINED WITH ROLL GROOVED JOINTS USING RUBBER GASKETED METALLIC STYLE FITTINGS AND COUPLINGS.
C. SPRINKLERS ON BRANCH LINES SHALL BE INSTALLED USING 1/2" OR 3/4" OUTLET THREADED TEES.
- 13 HANGERS SHALL MEET REQUIREMENTS OF NFPA 13. 1 1/2" AND SMALLER SHALL BE PIPE. MINIMUM ONE HANGER PER LENGTH OF PIPE AND MAXIMUM 15'-0" BETWEEN HANGERS. 1 1/2" AND LARGER, MINIMUM ONE HANGER PER LENGTH OF PIPE AND MAXIMUM 15'-0" BETWEEN HANGERS.
- 14 SEISMIC BRACING: PROVIDE SWAY BRACING FOR PIPING ONLY WHERE REQUIRED BY LOCAL AUTH. WHERE REQUIRED, BRACING SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF NFPA 13.
- 15 INSTALL ALL PIPING PITCHED TO DRAIN. PROVIDE AUXILIARY DRAINS PER NFPA 13 TO FACILITATE DRAINAGE OF TRAPPED PORTIONS OF FIRE SPRINKLER PIPING.
- 16 PROVIDE FIRE SPRINKLER PROTECTION FOR ALL CONCEALED SPACES ENCLOSED WHOLLY OR PARTLY BY EXPOSED COMBUSTIBLE CONSTRUCTION OR THAT CONTAIN EXPOSED COMBUSTIBLE MATERIALS NOT SHOWN ON PLANS.
- 17 INSTALL FIRE RATED CALKING AROUND FIRE SPRINKLER PIPING TO SEAL ALL PENETRATIONS OF FIRE RATED WALLS/PARTITIONS.
- 18 CONTRACTOR SHALL PERFORM ALL TESTING AND COMMISSIONING REQUIRED BY NFPA 13 AND RECOMMENDED BY EQUIPMENT MANUFACTURERS. ALL TESTING SHALL BE WITNESSED AND APPROVED BY OWNER AND LOCAL FIRE DEPARTMENT.



KEY PLAN



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PROJECT: 21403.000
DATE: 04-03-23
DRAWN: NJM
CHECKED: GTJ

REVISIONS:

SHEET TITLE:
FIRE SPKR PLAN BASEMENT

SHEET:
FP10

ORIGINAL SHEET SIZE:
36" x 48"

PERMIT SET

PROJECT: 21403.000
DATE: 04-03-23
DRAWN: NJM
CHECKED: GTJ

REVISIONS:

SHEET TITLE:
FIRE SPKR PLAN BASEMENT

SHEET:
FP10

ORIGINAL SHEET SIZE:
36" x 48"

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Keynote Legend - Fire Sprinkler

- 1 EXISTING FIRE PROTECTION WATER SUPPLY TO BE ABANDONED. DISCONNECT FROM EXISTING PUBLIC WATER SYSTEM. REMOVE PIPING TO AT LEAST 12" BELOW EXISTING FLOOR SLAB. FILL REMAINING PIPING WITH FLOWABLE FILL MATERIAL AND ABANDON IN PLACE.
- 2 EXISTING FIRE SPRINKLER RISER TO BE DEMOLISHED TO FACILITATE REMODEL OF EXISTING BUILDING. REMOVE ALL CONTROL VALVES, APPURTENANCES, BACKFLOW PREVENTER PIPING, FITTINGS AND SUPPLY. REMOVE HOSE VALVE, CABINET, PIPING FROM 12" BELOW FLOOR SLAB TO HORIZONTAL PIPING ABOVE CEILING.
- 3 EXISTING WALL MOUNTED FIRE DEPARTMENT CONNECTION (FDC) FOR EXISTING FIRE SPRINKLER SYSTEM TO BE DEMOLISHED. REMOVE PIPING TO POINT OF CONNECTION TO EXISTING 12" CROSS MAIN AND CAP. PATCH HANING HOLES IN EXTERIOR WALL.
- 4 EXISTING FIRE SPRINKLER FEED OR CROSS MAIN TO REMAIN. CONTRACTOR TO FIELD VERIFY LOCATION, ELEVATION AND SIZE.
- 5 EXISTING FIRE SPRINKLER FEED OR CROSS MAIN TO BE DEMOLISHED TO FACILITATE CONSTRUCTION OF 2 STORY ADDITION. REMOVE PIPING, FITTINGS, SUPPORTS AND BRACES.
- 6 EXISTING FIRE PROTECTION HOSE CABINET TO BE DEMOLISHED. HOSE CABINET IS NOT REQUIRED BY CODE IN A BUILDING PROTECTED THROUGHOUT BY AN AUTOMATIC FIRE SPRINKLER SYSTEM. REMOVE HOSE VALVE, CABINET, PIPING, CONNECTION TO WATER SOURCE AND CAP.
- 7 BUILDING REMODEL TO OCCUR IN HATCHED AREA. DEMO, MODIFY, ADJUST AND/OR ADD FIRE SPRINKLER AND PIPING REQUIRED TO ACCOMMODATE REMODEL IN ACCORDANCE WITH NFPA 13. REMOVE EXISTING PERMITS, FIRE SPRINKLERS AND PIPING DROPS AND CAP OUTLETS ON BRANCH LINES. EXISTING CROSS MAINS AND BRANCHED PIPING MAY REMAIN TO BE USED TO SUPPLY NEW EXTENT OF REMODEL. COORDINATE WITH MECHANICAL AND ELECTRICAL SYSTEMS. LOCATIONS OF FIRE SPRINKLERS AND PIPING ON DRAWINGS IS APPROXIMATE AND SHOULD BE FIELD VERIFIED BY CONTRACTOR.
- 8 CROSS HATCHING DENOTES PORTIONS OF EXISTING BUILDING TO BE DEMOLISHED. REMOVE ALL FIRE SPRINKLER AND PIPING TO PORTIONS OF EXISTING FIRE SPRINKLER SYSTEM TO REMAIN AND CAP.
- 9 NEW 6" UNDERGROUND FIRE PROTECTION WATER SUPPLY (BY OTHERS) TO BUILDING. DESIGN, INSTALL AND TEST IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF NFPA 13, 24 AND LOCAL WATER PURVEYOR. CONNECT TO EXISTING PUBLIC WATER MAIN. THE PUBLIC WATER SUPPLY SYSTEM PROVIDES THE FOLLOWING PRESSURES/FLOW: STATIC PRESSURE: 94.0 PSI FLOW: 1.07 CPM
- 10 RISER FOR WET-PIPE FIRE SPRINKLER SYSTEM TO PROTECT EXISTING BUILDING AND PROPOSED EXPANSION. PROVIDE A SEPARATE RISERZONE FOR EACH FLOOR LEVEL OF THE BUILDING. TOTAL RISER SHALL COMPLY WITH NFPA 13. RISER SHALL BE INSTALLED WITH A PRESSURE GAUGE, VANE TYPE FLOW SWITCH AND TEST VALVE. SEE DETAIL ON SHEET FP110.
- 11 FEED/CROSS MAIN FOR FIRE SPRINKLER SYSTEM (SUGGESTED LOCATION) PIPING SHALL BE CONCEALED ABOVE CEILING WHERE CEILING IS PROVIDED. COORDINATE WITH BUILDING STRUCTURE, MECHANICAL/ELECTRICAL SYSTEMS.
- 12 EXTEND WATER SUPPLY TO EXISTING 2" CROSS MAIN FOR GRIDDED FIRE SPRINKLER SYSTEM IN EXISTING BUILDING.
- 13 WALL MOUNT, 2-WAY FIRE DEPARTMENT CONNECTION (FDC). INSTALL FDC APPROXIMATELY 12" ABOVE FINISH FLOOR GRADE. CONNECT FDC TO FIRE PROTECTION WATER SUPPLY BETWEEN BACKFLOW PREVENTER AND ZONE CONTROL VALVE. COORDINATE WITH MECHANICAL/ELECTRICAL SYSTEMS.
- 14 INSTALL WET-PIPE FIRE SPRINKLERS TO PROVIDE FIRE PROTECTION THROUGHOUT EXISTING BUILDING AND BUILDING ADDITION INCLUDING ANY COMBUSTIBLE AREAS. PROVIDE ADDITIONAL TYPE FIRE SPRINKLERS WHERE REQUIRED WITH ALL APPLICABLE PROVISIONS OF NFPA 13. FIRE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY DESIGNED TO PROTECT ALL HAZARD CLASSIFICATIONS OF ORDINARY HAZARD OR LIGHT HAZARD AS APPROPRIATE FOR USE OF EACH ROOM/AREA.
- 15 FIRE SPRINKLERS INSTALL TO PROTECT IMMATE HOLDING AND TRANSFER AREAS SHALL BE INSTALLED IN IMMATE HOLDING AND TRANSFER AREAS WITH A TEMPERATURE, WHITE PAINTED, PENDENT FIRE SPRINKLER WITH WHITE FINISH AND TRIM PLATE (TYPE 100). PENDENT FIRE SPRINKLER WITH WHITE FINISH AND TRIM PLATE (TYPE 100) SHALL BE INSTALLED IN TRANSFER AREAS.
- 16 ALL FIRE SPRINKLERS PROTECTING HOLDING CELL AREAS (ON ALL LEVELS) SHALL BE INSTALLED IN A RISE FROM THE HOLDING CELL TO A SEPARATE CONTROL VALVE. CONTROL VALVE SHALL BE INSTALLED IN A RISE FROM THE HOLDING CELL TO A SEPARATE CONTROL VALVE IN OFFICER STATION 1.304 LOCATED IN BASEMENT SECURITY AREA. MOUNT ABOVE CEILING AT A HEIGHT OF 2'-0" ABOVE FINISHED FLOOR AND PROVIDE SIGN TO CLEAR INDICATE VALVE FUNCTION. COORDINATE LOCATION WITH WALL MOUNTED PICTURE HANGING FINISHES AND ADJUST LOCATION AS REQUIRED TO AVOID CONTACTS. INSTALL SUPPLY PIPING FROM CONTROL VALVE TO ALL FIRE SPRINKLERS WITHIN HOLDING CELLS ON ALL LEVELS. VERTICAL PIPING BETWEEN FLOORS MAY BE INSTALLED IN PLUMBING HOLDING CELL TONEL FIXTURES. COORDINATE WITH WATER, DRAIN AND VENT PIPING.

GENERAL NOTES - FIRE SPRINKLER

- 1 THE FIRE SPRINKLER SYSTEMS SHALL BE DESIGNED TO COMPLY WITH THE APPLICABLE PROVISIONS OF THE FOLLOWING CODES AND STANDARDS: A. INTERNATIONAL BUILDING CODE (IBC) - 2018 EDITION B. INTERNATIONAL FIRE CODE - 2018 EDITION C. NFPA 13 INSTALLATION OF FIRE SPRINKLER SYSTEMS 2016 EDITION
- 2 FURNISH ALL MATERIALS, EQUIPMENT AND SUPPLIES AND PERFORM ALL WORK AND OPERATIONS TO DESIGN, CONSTRUCT, AND MAKE FUNCTIONAL FIRE SPRINKLER SYSTEMS TO PROTECT EXISTING BUILDING. CONTRACTOR SHALL PROVIDE PARTIAL DEMOLITION AND REMODEL OF FIRE SPRINKLER SYSTEM PROTECTING PORTIONS OF EXISTING BUILDING. THE DESIGN OF THE FIRE SPRINKLER SYSTEM SHALL MEET THE REQUIREMENTS OF CODES AND STANDARDS LISTED IN NOTE 1 ABOVE AND SHALL BE IN ACCORDANCE WITH THESE DRAWINGS AND SPECIFICATIONS.
- 3 THE DESIGN OF THE FIRE SPRINKLER SYSTEMS CONTAINED ON THESE DRAWINGS IS CONSIDERED AN INFORMATION PROVIDED FROM THE DESIGNER'S DESIGN DEVELOPMENT DRAWINGS. THE LOCATIONS SHOWN ON THESE DRAWINGS FOR PIPING AND OTHER FIRE PROTECTION ARE APPROXIMATE AND MUST BE ADJUSTED WHERE REQUIRED TO MATCH ACTUAL BUILDING CONDITIONS. INSTALLING CONTRACTOR IS RESPONSIBLE TO COMPLETE DETAILED DESIGN OF THE FIRE SPRINKLER SYSTEMS INCLUDING HYDRAULIC CALCULATIONS.
- 4 ALL DEVICES AND MATERIALS USED FOR THE INSTALLATION OF THE FIRE SPRINKLER SYSTEMS SHALL BE LISTED OR IN APPROVED FOR USE IN FIRE PROTECTION.
- 5 OFF-PREMISE SUPERVISION OF FIRE SPRINKLER SYSTEM CONTROL VALVES AND FLOW SWITCHES AS WELL AS PROVISION OF LOCAL WATER FLOW ALARM DEVICE PROVIDED BY FIRE ALARM CONTRACTOR.
- 6 CONTRACTOR SHALL PREPARE AND SUBMIT COMPLETE SHOP DRAWING, PRODUCT DATA, DESIGN CALCULATIONS AND HYDRAULIC CALCULATIONS IN ACCORDANCE WITH NFPA 13 FOR REVIEW AND APPROVAL TO THE LOCAL FIRE DEPARTMENT. PROJECT INSTALLING ANY EQUIPMENT. SHOP DRAWING SUBMITTALS SHALL MEET ALL APPLICABLE REQUIREMENTS OF NFPA 13 AND LOCAL FIRE DEPARTMENT.
- 7 WATER SUPPLY AVAILABLE FOR FIRE SPRINKLER SYSTEMS: STATIC PRESSURE: 94 PSI RESIDUAL PRESSURE: 64 PSI FLOW: 1.07 CPM TEST DATE: 11/10/22 TEST LOCATION: 5TH AVENUE BETWEEN GOODING AND SHOSHONE
- 8 FIRE SPRINKLER DESIGN DENSITIES: A. LIBRARY STACK AREAS, FILE ROOMS, STORAGE, MECHANICAL, ELECTRICAL, COMMUNICATIONS, JANITORY AND SANITARY HAZARDOUS ROOMS: 2.020 GPM/SQ. FT. OVER THE MOST REMOTE 1,500 SQ. FT. INCLUDING 250 GPM HOSE ALLOWANCE. B. CONFERENCE ROOMS, OFFICES, CORRIDORS, LOBBIES, CONFERENCE ROOMS, OFFICES, STAIRS, COMMON AREAS AND SIMILAR SPACES: LIGHT HAZARD, 0.10 GPM/SQ. FT. OVER THE MOST REMOTE 1,500 SQ. FT. INCLUDING 100 GPM HOSE ALLOWANCE.
- 9 MAXIMUM COVERAGE AREA PER SPRINKLER: A. ORDINARY HAZARD: 130 SQ. FT. B. LIGHT HAZARD: 225 SQ. FT.
- 10 FIRE SPRINKLERS: A. AREAS WITH FINISHED CEILING (EXCEPT IMMATE HOLDING AND TRANSFER AREAS): QUICK RESPONSE, STANDARD ORIFICE (K-5.6), ORDINARY TEMPERATURE, WHITE PAINTED, PENDENT FIRE SPRINKLER WITH WHITE RECESSED TYPE ESCUTCHEON. B. IMMATE HOLDING AND TRANSFER AREAS: QUICK RESPONSE, STANDARD ORIFICE (K-5.6), ORDINARY TEMPERATURE, WHITE PAINTED, INSTITUTIONAL TYPE (RAMBER-PROOF) PENDENT FIRE SPRINKLER WITH WHITE FINISH AND TRIM PLATE (TYPE 100) OR ESCUTCHEON. C. ORDINARY OR INTERMEDIATE TEMPERATURE, BRASS, SPRINKLER FIRE SPRINKLERS.
- 11 ALL FIRE SPRINKLER PIPING SHALL BE STEEL PIPE CONFORMING TO ANSI/ASTM A53, ASTM A135 OR ASTM A106 AND LARGER - SCHEDULE 10 2" AND SMALLER - SCHEDULE 30
- 12 FITTINGS: A. STEEL PIPING 2" AND SMALLER IN NOMINAL DIAMETER SHALL BE JOINED WITH FLETCHER JOINTS USING CAST IRON FITTINGS AND COUPLINGS. B. STEEL PIPING 2-1/2" AND LARGER IN NOMINAL DIAMETER SHALL BE JOINED WITH ROLL GROOVED JOINTS USING RUBBER GASKETED VICTALIC STYLE FITTINGS AND COUPLINGS. C. SPRINKLERS ON BRANCH LINES SHALL BE INSTALLED USING 1/2" OR 3/4" OUTLET THREADED TEES.
- 13 HANGERS SHALL MEET REQUIREMENTS OF NFPA 13. 1 1/2" AND SMALLER PIPE: MINIMUM ONE HANGER PER LENGTH OF PIPE AND MAXIMUM 15'-0" BETWEEN HANGERS. 2" AND LARGER: MINIMUM ONE HANGER PER LENGTH OF PIPE AND MAXIMUM 15'-0" BETWEEN HANGERS.
- 14 SEISMIC BRACING: PROVIDE SWAY BRACING FOR PIPING ONLY WHERE REQUIRED BY LOCAL A.U. WHERE REQUIRED, BRACING SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF NFPA 13.
- 15 INSTALL ALL PIPING FITTED TO DRAIN. PROVIDE AUXILIARY DRAIN PER NFPA 13 TO FACILITATE DRAINAGE OF TRAPPED PORTIONS OF FIRE SPRINKLER PIPING.
- 16 PROVIDE FIRE SPRINKLER PROTECTION FOR ALL CONCEALED SPACES ENCLOSED WHOLLY OR PARTLY BY EXPOSED COMBUSTIBLE CONSTRUCTION OR THAT CONTAIN EXPOSED COMBUSTIBLE MATERIALS NOT SHOWN ON PLANS.
- 17 INSTALL FIRE RATED CALKING AROUND FIRE SPRINKLER PIPING TO SEAL ALL PENETRATIONS OF FIRE RATED WALLS/PARTITIONS.
- 18 CONTRACTOR SHALL PERFORM ALL TESTING AND COMMISSIONING REQUIRED BY NFPA 13 AND RECOMMENDED BY EQUIPMENT MANUFACTURERS. ALL TESTING SHALL BE WITNESSED AND APPROVED BY OWNER AND LOCAL FIRE DEPARTMENT.



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Permit Set

PROJECT	DATE
21403.000	04-03-23
DRAWN	CHECKED
NMJ	GTJ

REVISED

SHEET TITLE
FIRE SPKR PLAN LEVEL 1 AREA A

SHEET
FP11A

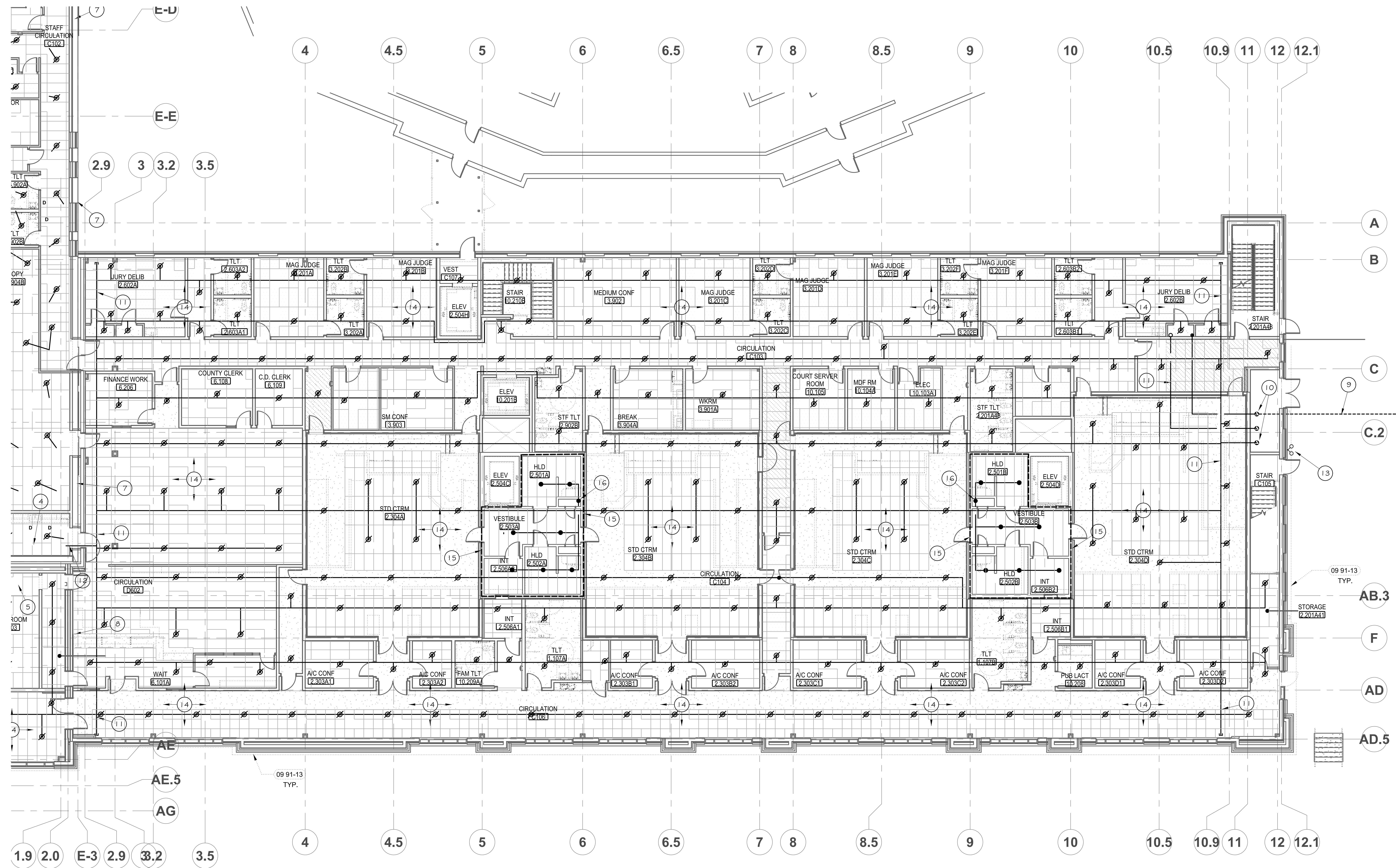
ORIGINAL SHEET SIZE
36" x 48"

1 FIRE SPRINKLER PLAN - LEVEL 1 AREA A
1/8" = 1'-0"

KEY PLAN

Keynote Legend - Fire Sprinkler	
1	EXISTING 2" FIRE PROTECTION WATER SUPPLY TO BE DEMOLISHED. DISCONNECT FROM EXISTING PUBLIC WATER SYSTEM. REMOVE PIPING TO AT LEAST 12" BELOW EXISTING FLOOR SLAB. FILL REMAINING PIPING WITH FLOWABLE FILL MATERIAL AND ABANDON IN PLACE.
2	EXISTING FIRE SPRINKLER RISER TO BE DEMOLISHED TO FACILITATE REMODEL OF EXISTING BUILDING. REMOVE ALL CONTROL VALVES, APPURTENANCES, BACKFLOW PREVENTER, FITTINGS AND SUPPORTS. REMOVE PIPING FROM 12" BELOW FLOOR SLAB TO HORIZONTAL PIPING ABOVE CEILING.
3	EXISTING WALL MOUNTED FIRE DEPARTMENT CONNECTION (FDC) FOR EXISTING FIRE SPRINKLER SYSTEM TO BE DEMOLISHED. REMOVE FDC, CONTROL VALVE, FITTINGS, SUPPORTS BRACES. REMOVE PIPING BACK TO POINT OF CONNECTION TO EXISTING 2" FDC CROSS MAIN AND CAP. PATCH REMAINING HOLES IN EXTERIOR WALL.
4	EXISTING FIRE SPRINKLER FEED OR CROSS MAIN TO REMAIN. CONTRACTOR TO FIELD VERIFY LOCATION, ELEVATION AND SIZE.
5	EXISTING FIRE SPRINKLER FEED OR CROSS MAIN TO BE DEMOLISHED TO FACILITATE CONSTRUCTION OF 2 STORY ADDITION. REMOVE PIPING, FITTINGS, SUPPORTS AND BRACES.
6	EXISTING FIRE PROTECTION HOSE CABINET TO BE DEMOLISHED. HOSE CABINET IS NOT REQUIRED BY CODE IN A BUILDING PROTECTED THROUGHOUT BY AN AUTOMATIC FIRE SPRINKLER SYSTEM. REMOVE HOSE VALVE, CABINET, PIPING, CONNECTION TO WATER SOURCE AND CAP.
7	BUILDING REMODEL TO OCCUR IN HATCHED AREA. DEMO, MODIFY, ADJUST AND/OR ADD FIRE SPRINKLERS AND PIPING AS REQUIRED TO ACCOMMODATE REMODEL. ACCORDANCE WITH NFPA 13. REMOVE ALL EXISTING PENDENT FIRE SPRINKLERS AND PIPING DROPS AND CAP OUTLETS ON BRANCH LINES. EXISTING CROSS MAINS AND BRANCHED PIPING MAY REMAIN TO BE USED TO SUPPLY NEW EXTENT OF REMODEL. COORDINATE WITH MECHANICAL AND ELECTRICAL SYSTEMS. LOCATIONS OF FIRE SPRINKLERS AND PIPING ON DRAWINGS IS APPROXIMATE AND SHOULD BE FIELD VERIFIED BY CONTRACTOR.
8	CROSS HATCHING DENOTES PORTIONS OF EXISTING BUILDING TO BE DEMOLISHED. REMOVE ALL FIRE SPRINKLERS, RISERS, PIPING, FITTINGS, SUPPORTS AND BRACES. REMOVE PIPING BACK TO POINT OF CONNECTION TO PORTIONS OF EXISTING FIRE SPRINKLER SYSTEM TO REMAIN AND CAP.
9	NEW 6" UNDERGROUND FIRE PROTECTION WATER SUPPLY (BY OTHERS) TO BUILDING. DESIGN, INSTALL AND TEST WATER SUPPLY IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF NFPA 13, 24 AND LOCAL WATER PURVEYOR. CONNECT TO EXISTING PUBLIC WATER SYSTEM UNDER 6TH AVENUE. THE PUBLIC WATER SYSTEM PROVIDES THE FOLLOWING PRESSURES/FLOW: STATIC PRESSURE: 75 PSI RESIDUAL PRESSURE: 64 PSI FLOW: 1.57 GPM
10	NEW 2" UNDERGROUND FIRE PROTECTION WATER SUPPLY THROUGH FOUNDATION WALL. PROVIDE FIRE SLEEVE WITH LINK SEAL. RUN PIPING OVERHEAD ACROSS CORRIDOR AND RISE UP TO FIRE RISER ROOM ABOVE. ALL PIPING BETWEEN CONNECTION TO PUBLIC WATER SYSTEM AND INLET SIDE OF BACKFLOW PREVENTER SHALL BE PROVIDED FOR POTABLE WATER USE.
11	RISER FOR WET PIPE FIRE SPRINKLER SYSTEM TO PROTECT EXISTING BUILDING AND PROPOSED EXPANSION. PROVIDE A SEPARATE RISER ZONE FOR EACH FLOOR LEVEL OF THE BUILDING. RISER SHALL CONFORM TO ALL APPLICABLE PROVISIONS OF NFPA 13. PROVIDE A SEPARATE RISER ZONE FOR EACH FLOOR LEVEL. PROVIDE PRESSURE GAUGE, VANE TYPE FLOW SWITCH AND TEST VALVE. SEE DETAIL ON SHEET F110.
12	FEED/CROSS MAIN FOR FIRE SPRINKLER SYSTEM (SUGGESTED LOCATION). PIPING SHALL BE INSTALLED CONCEALED ABOVE CEILING WHERE CEILING IS PROVIDED. COORDINATE WITH BUILDING CEILING, STRUCTURE AND MECHANICAL/ELECTRICAL SYSTEMS.
13	EXTEND WATER SUPPLY TO EXISTING 2" CROSS MAIN FOR GRIDDED FIRE SPRINKLER SYSTEM IN EXISTING BUILDING.
14	WALL MOUNT 2-WAY FIRE DEPARTMENT CONNECTION (FDC). INSTALL FDC APPROXIMATELY 36" ABOVE FINISHED EXTERIOR GRADE. CONNECT FDC TO FIRE PROTECTION WATER SUPPLY BETWEEN BACKFLOW PREVENTER AND ZONE CONTROL VALVES. CONSIDER FDC TO ALLOW PRESSURIZATION OF ALL FIRE SPRINKLER ZONES SIMULTANEOUSLY.
15	INSTALL WET PIPE FIRE SPRINKLERS TO PROVIDE FIRE PROTECTION THROUGHOUT EXISTING BUILDING AND BUILDING ADDITION INCLUDING ANY COMBUSTIBLE EXTERIOR SPACES. DESIGN, INSTALL AND TEST IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF NFPA 13. FIRE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY DESIGNED TO PROTECT HAZARD CLASSIFICATIONS OF ORDINARY HAZARD OR LIGHT HAZARD AS APPROPRIATE FOR USE OF EACH ROOM/AREA.
16	FIRE SPRINKLERS INSTALLED TO PROTECT IMMATE HOLDING AND TRANSFER AREAS SHALL BE INSTITUTIONAL TYPE FIRE SPRINKLERS. IMMATE HOLDING AREAS SHALL BE INSTALLED WITH WHITE FINISH. PENDENT FIRE SPRINKLER WITH WHITE FINISH AND TRIM PLATE (TYCO 15281).
17	ALL FIRE SPRINKLERS PROTECTING HOLDING CELL AREAS (ON ALL LEVELS) SHALL BE INSTALLED IN A REASONABLY ACCESSIBLE LOCATION TO ALLOW SECURITY PERSONNEL TO RAPIDLY STOP THE FLOW OF WATER TO THE FIRE SPRINKLERS IN THE HOLDING CELL IN THE EVENT OF FIRE SPRINKLER TAMPERING WITH THE SYSTEM. INSTALL A SUPERVISED CONTROL VALVE IN OFFICER STATION 1301 LOCATED IN BASEMENT SECURITY AREA. MOUNT CONTROL VALVE AT A MINIMUM OF 7'-0" ABOVE FINISHED FLOOR AND PROVIDE SIGN TO CLEAR INDICATE VALVE FUNCTION. COORDINATE LOCATION WITH WALL MOUNTED PICTURES AND FINISHES AND ADJUST LOCATION AS REQUIRED TO AVOID CONTACTS. INSTALL SUPPLY PIPING FROM CONTROL VALVE TO ALL FIRE SPRINKLERS LOCATED WITHIN HOLDING CELLS ON ALL LEVELS. VERTICAL PIPING BETWEEN FLOORS MAY BE INSTALLED IN PLUMBING SHAFTS, FIRE SPRINKLER HOLDING CELL, TOILET FIXTURES. COORDINATE WITH WATER, DRAIN AND VENT PIPING.

- GENERAL NOTES - FIRE SPRINKLER**
- THE FIRE SPRINKLER SYSTEMS SHALL BE DESIGNED TO COMPLY WITH THE APPLICABLE PROVISIONS OF THE FOLLOWING CODES AND STANDARDS:
A. INTERNATIONAL BUILDING CODE (IBC) - 2018 EDITION
B. INTERNATIONAL FIRE CODE (IFC) - 2018 EDITION
C. NFPA 13 INSTALLATION OF FIRE SPRINKLER SYSTEMS 2016 EDITION
 - FURNISH ALL MATERIALS, EQUIPMENT AND SUPPLIES AND PERFORM ALL WORK AND OPERATIONS TO DESIGN, CONSTRUCT, AND MAKE FUNCTIONAL FIRE SPRINKLER SYSTEMS TO PROTECT EXISTING BUILDING AND BUILDING ADDITION. PROVIDE PARTIAL DEMOLITION AND REMODEL OF FIRE SPRINKLER SYSTEM PROTECTING PORTIONS OF EXISTING BUILDING TO BE DEMOLISHED. THE SYSTEM DESIGN SHALL MEET THE REQUIREMENTS OF CODES AND STANDARDS LISTED IN NOTE 1 ABOVE AND SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
 - THE DESIGN OF THE FIRE SPRINKLER SYSTEMS CONTAINED ON THESE DRAWINGS IS CONSIDERED TO BE INFORMATION BASED ON THE DESIGN INFORMATION IN THE DESIGN DEVELOPMENT DRAWINGS. THE LOCATIONS SHOWN ON THESE DRAWINGS FOR PIPING AND OTHER FIRE PROTECTION EQUIPMENT ARE APPROXIMATE AND MUST BE ADJUSTED WHERE REQUIRED TO MATCH ACTUAL BUILDING CONDITIONS. INSTALLING CONTRACTOR IS RESPONSIBLE TO COMPLETE DETAILED DESIGN OF THE FIRE SPRINKLER SYSTEMS INCLUDING HYDRAULIC CALCULATIONS.
 - ALL DEVICES AND MATERIALS USED FOR THE INSTALLATION OF THE FIRE SPRINKLER SYSTEMS SHALL BE LISTED OR APPROVED FOR USE IN THE APPROVED LISTINGS.
 - OFF-PREMISE SUPERVISION OF FIRE SPRINKLER SYSTEM CONTROL VALVES AND FLOW SWITCHES AS WELL AS PROVISION OF LOCAL WATER FLOW ALARM DEVICE PROVIDED BY FIRE ALARM CONTRACTOR.
 - CONTRACTOR SHALL PREPARE AND SUBMIT COMPLETE SHOP DRAWING, PRODUCT DATA, DESIGN CALCULATIONS AND HYDRAULIC CALCULATIONS FOR REVIEW WITH LOCAL FIRE DEPARTMENT AND PROVIDE TO THE LOCAL FIRE DEPARTMENT PRIOR TO INSTALLING ANY EQUIPMENT. SHOP DRAWING SUBMITTALS SHALL MEET ALL APPLICABLE REQUIREMENTS OF NFPA 13 AND LOCAL FIRE DEPARTMENT.
 - WATER SUPPLY AVAILABLE FOR FIRE SPRINKLER SYSTEMS:
STATIC PRESSURE: 75 PSI
RESIDUAL PRESSURE: 64 PSI
FLOW: 1.57 GPM
TEST DATE: 11/10/22
TEST LOCATION: 6TH AVENUE BETWEEN GOODING AND SHOSHONE
 - FIRE SPRINKLER DESIGN DENOTES:
A. LIBRARY STACK AREAS, FILE ROOMS, STORAGE MECHANICAL, ELECTRICAL COMMUNICATIONS CONTROL AND STORAGE AREAS: QUICK RESPONSE, STANDARD ORIFICE (K-5.6), OVER THE MOST REMOTE 1,500 SQ. FT. INCLUDING 250 GPM HOSE ALLOWANCE.
B. COURT ROOMS, OFFICES, CORRIDORS, Lobbies, CONFERENCE ROOMS, OFFICES, STAIRS, COMMON AREAS AND SIMILAR SPACES: LIGHT HAZARD, 0.10 GPM/SQ. FT. OVER THE MOST REMOTE 1,500 SQ. FT. INCLUDING 100 GPM HOSE ALLOWANCE.
 - MAXIMUM COVERAGE AREA PER SPRINKLER:
A. ORDINARY HAZARD: 130 SQ. FT.
B. LIGHT HAZARD: 225 SQ. FT.
 - FIRE SPRINKLERS:
A. AREAS WITH FINISHED CEILING (EXCEPT IMMATE HOLDING AND TRANSFER AREAS): QUICK RESPONSE, STANDARD ORIFICE (K-5.6), ORDINARY TEMPERATURE, WHITE PAINTED, INSTITUTIONAL TYPE (TYCO 15281) OR TRIM PLATE (TYCO 15281) OR TRIM PLATE (TYCO 15281) OR TRIM PLATE (TYCO 15281).
B. IMMATE HOLDING AND TRANSFER AREAS: QUICK RESPONSE, STANDARD ORIFICE (K-5.6), ORDINARY TEMPERATURE, WHITE PAINTED, INSTITUTIONAL TYPE (TYCO 15281) OR TRIM PLATE (TYCO 15281) OR TRIM PLATE (TYCO 15281).
C. ORDINARY OR INTERMEDIATE TEMPERATURE, BRASS, SPRINKLER FIRE SPRINKLERS.
 - ALL FIRE SPRINKLER PIPING SHALL BE STEEL PIPE CONFORMING TO ANSI/ASTM A53, ASTM A53 DR A/B, SCHEDULE 10 2" AND LARGER - SCHEDULE 10 1" AND SMALLER - SCHEDULE 30.
 - FITTINGS:
A. STEEL PIPING 2" AND SMALLER IN NOMINAL DIAMETER SHALL BE JOINED WITH THREADED JOINTS USING CAST IRON FITTINGS AND COUPLINGS.
B. STEEL PIPING 2-1/2" AND LARGER IN NOMINAL DIAMETER SHALL BE JOINED WITH ROLL GROOVED JOINTS USING RUBBER GASKETED VICTAULIC STYLE FITTINGS AND COUPLINGS.
C. SPRINKLERS ON BRANCH LINES SHALL BE INSTALLED USING 1/2" OR 3/4" OUTLET THREADED TEES.
 - HANGERS SHALL MEET REQUIREMENTS OF NFPA 13. MINIMUM ONE HANGER PER LENGTH OF PIPE AND MAXIMUM 15'-0" BETWEEN HANGERS. 1-1/2" AND LARGER: MINIMUM ONE HANGER PER LENGTH OF PIPE AND MAXIMUM 15'-0" BETWEEN HANGERS. WHERE REQUIRED, BRACING SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF NFPA 13.
 - INSTALL ALL PIPING FITTED TO DRAIN. PROVIDE AUXILIARY DRAINS PER NFPA 13 TO FACILITATE DRAINAGE OF TRAPPED PORTIONS OF FIRE SPRINKLER PIPING.
 - PROVIDE FIRE SPRINKLER PROTECTION FOR ALL CONCEALED SPACES ENCLOSED WHOLLY OR PARTLY BY EXPOSED COMBUSTIBLE CONSTRUCTION OR THAT CONTAIN EXPOSED COMBUSTIBLE MATERIALS NOT SHOWN ON PLANS.
 - INSTALL FIRE RATED CAULKING AROUND FIRE SPRINKLER PIPING TO SEAL ALL PENETRATIONS OF FIRE RATED WALL PARTITIONS.
 - CONTRACTOR SHALL PERFORM ALL TESTING AND COMMISSIONING REQUIRED BY NFPA 13 AND RECOMMENDED BY EQUIPMENT MANUFACTURERS. ALL TESTING SHALL BE WITNESSED AND APPROVED BY OWNER AND LOCAL FIRE DEPARTMENT.



1 FIRE SPRINKLER PLAN - LEVEL 1 AREA B
1/8" = 1'-0"

KEY PLAN

04-03-23

PERMIT SET

PROJECT	DATE
21403.000	04-03-23
DRAWN	CHECKED
NMJ	GTJ
REVISED	

**THERON W. WARD JUDICIAL BUILDING
REMODEL & EXPANSION**

427 Shoshone St N Twin Falls, ID

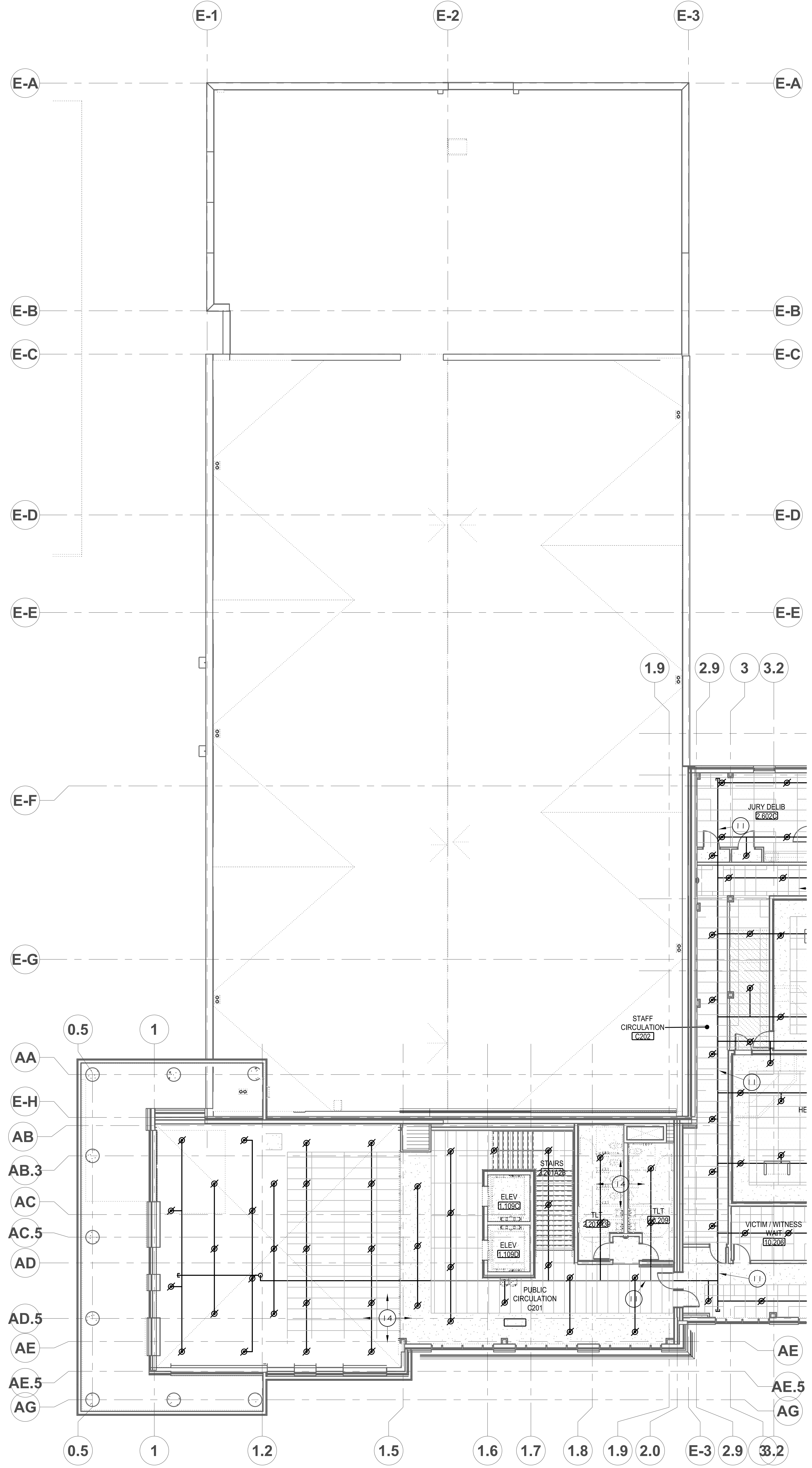
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CSHOA

SHEET TITLE
**FIRE SPKR
PLAN
LEVEL 1
AREA B**

SHEET
FP11B

ORIGINAL SHEET SIZE
36" x 48"



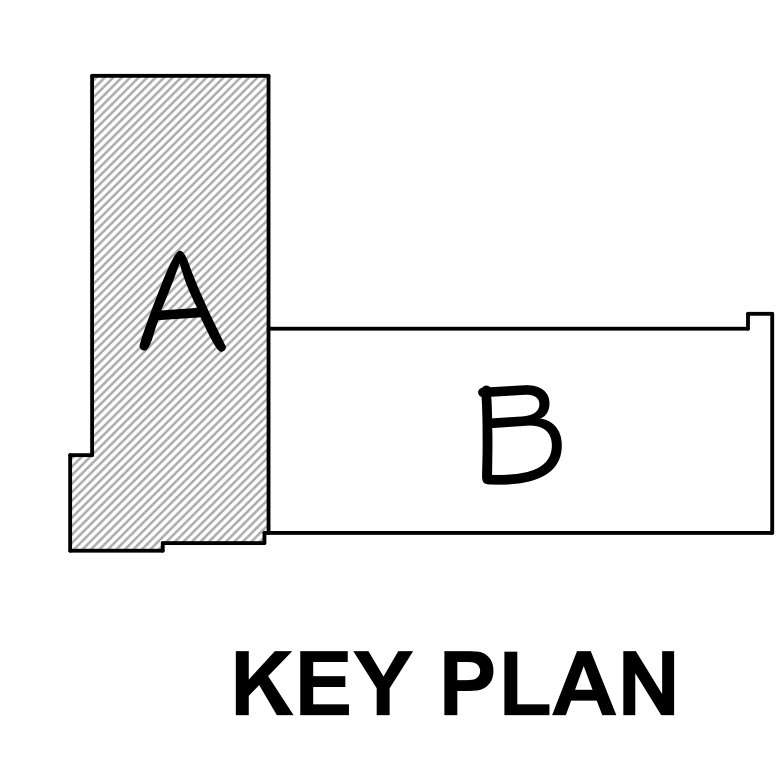
1 FIRE SPRINKLER PLAN - LEVEL 2 AREA A
1/8" = 1'-0"

Keynote Legend - Fire Sprinkler

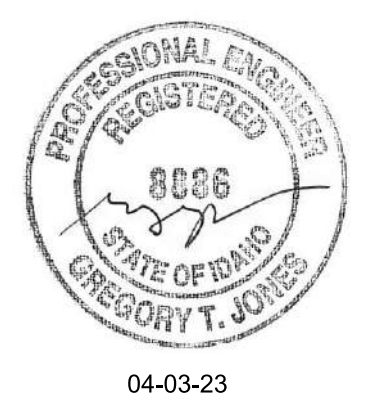
- EXISTING FIRE PROTECTION WATER SUPPLY TO BE ABANDONED, DISCONNECT FROM EXISTING PUBLIC WATER SYSTEM. REMOVE PIPING TO AT LEAST 12" BELOW EXISTING FLOOR SLAB. FILL REMAINING PIPING WITH FLOWABLE FILL MATERIAL AND ABANDON IN PLACE.
- EXISTING FIRE SPRINKLER RISER TO BE DEMOLISHED TO FACILITATE REMODEL OF EXISTING BUILDING. REMOVE ALL CONTROL VALVES, APPURTENANCES, BACKFLOW PREVENTER PIPING, FITTINGS AND SUPPORTS. REMOVE PIPING FROM 12" BELOW FLOOR SLAB TO HORIZONTAL PIPING ABOVE CEILING.
- EXISTING WALL MOUNTED FIRE DEPARTMENT CONNECTION (FDC) FOR EXISTING FIRE SPRINKLER SYSTEM TO BE DEMOLISHED. REMOVE FDC, BRANCH FITTINGS AND PIPE SUPPORTS BRACES. REMOVE PIPING BACK TO POINT OF CONNECTION TO EXISTING 2" X 4" CROSS MAIN AND CAP. PATCH REMAINING HOLE IN EXTERIOR WALL.
- EXISTING FIRE SPRINKLER FEED OR CROSS MAIN TO REMAIN. CONTRACTOR TO FIELD VERIFY LOCATION, ELEVATION AND SIZE.
- EXISTING FIRE SPRINKLER FEED OR CROSS MAIN TO BE DEMOLISHED TO FACILITATE CONSTRUCTION OF 2 STORY ADDITION. REMOVE PIPING, FITTINGS, SUPPORTS AND BRACES.
- EXISTING FIRE PROTECTION HOSE CABINET TO BE DEMOLISHED. HOSE CABINET IS NOT REQUIRED BY CODE IN A BUILDING PROTECTED THROUGHOUT BY AN AUTOMATIC FIRE SPRINKLER SYSTEM. REMOVE HOSE VALVE, CABINET, PIPING, FITTINGS, SUPPORTS AND BRACES. REMOVE PIPING BACK TO POINT OF CONNECTION TO WATER SOURCE AND CAP.
- BUILDING REMODEL TO OCCUR IN HATCHED AREA. DEMO, MODIFY, ADJUST AND/OR ADD FIRE SPRINKLERS AND PIPING AS REQUIRED TO ACCOMMODATE REMODEL AND ENSURE FIRE SPRINKLER PROTECTION THROUGHOUT BUILDING IN ACCORDANCE WITH NFPA 13. REMOVE ALL EXISTING PENDENT FIRE SPRINKLERS AND PIPING DROPS AND CAP OUTLETS ON BRANCH LINES. EXISTING CROSS MAINS AND BRANCHED PIPING SHALL REMAIN TO BE USED FOR SUPPLY. NEW EXTENT OF REMODEL, COORDINATE WITH MECHANICAL AND ELECTRICAL SYSTEMS. LOCATIONS OF FIRE SPRINKLERS AND PIPING ON DRAWINGS IS APPROXIMATE AND SHOULD BE FIELD VERIFIED BY CONTRACTOR.
- CROSS HATCHING DENOTES PORTIONS OF EXISTING BUILDING TO BE DEMOLISHED. REMOVE ALL FIRE SPRINKLERS, RISERS, PIPING, FITTINGS, SUPPORTS AND BRACES. REMOVE PIPING BACK TO POINT OF CONNECTION TO PORTIONS OF EXISTING FIRE SPRINKLER SYSTEM TO REMAIN AND CAP.
- NEW 6" UNDERGROUND FIRE PROTECTION WATER SUPPLY (BY OTHERS) TO BUILDING. DESIGN, INSTALL AND TEST WATER SUPPLY IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF NFPA 13, 24 AND LOCAL WATER PURVEYOR. CONNECT TO EXISTING PUBLIC WATER SYSTEM LINES 6TH AVENUE. THE PUBLIC WATER SYSTEM PROVIDES THE FOLLOWING PRESSURES/FLOW:
STATIC PRESSURE: 80 PSI
RESIDUAL PRESSURE: 64 PSI
FLOW: 1575 GPM
BASEMENT THROUGH FOUNDATION WALL: PROVIDE PIPE SLEEVE WITH L-RK SEAL. RUN PIPING OVERHEAD ACROSS CORRIDOR AND RISE UP TO FIRE RISER ROOM ABOVE. FIRE SPRINKLER PIPING SHALL BE INSTALLED IN RISE RISER ROOM AND INLET SIDE OF BACKFLOW PREVENTER SHALL BE APPROVED FOR POTABLE WATER USE.
- RISER FOR WET-PIPE FIRE SPRINKLER SYSTEM TO PROTECT EXISTING BUILDING AND PROPOSED EXPANSION. PROVIDE A SEPARATE RISER ZONE FOR EACH FLOOR LEVEL OF THE BUILDING. RISER SHALL BE INSTALLED IN BASEMENT. RISER SHALL BE INSTALLED IN BASEMENT. RISER SHALL HAVE A PRESSURE GAUGE, WANE TYPE FLOW SWITCH AND TEST VALVE. SEE DETAIL ON SHEET FP10.
- FEED/CROSS MAIN FOR FIRE SPRINKLER SYSTEM (SUGGESTED LOCATION) PIPING SHALL BE INSTALLED CONCEALED ABOVE CEILING WHERE CEILING IS PROVIDED. COORDINATE WITH BUILDING STRUCTURE AND MECHANICAL/ELECTRICAL SYSTEMS.
- EXTEND WATER SUPPLY TO EXISTING 2" CROSS MAIN FOR GRIDDED FIRE SPRINKLER SYSTEM IN EXISTING BUILDING.
- WALL MOUNT 2-WAY FIRE DEPARTMENT CONNECTION (FDC). INSTALL FDC APPROXIMATELY 30" FINISHED EXTERIOR GRADE. CONNECT FDC TO FIRE PROTECTION WATER SUPPLY BETWEEN BACKFLOW PREVENTER AND ZONE CONTROL VALVE. CONFORM TO NFPA 13 TO ALLOW PRESURIZATION OF ALL FIRE SPRINKLER ZONES SIMULTANEOUSLY.
- INSTALL WET-PIPE FIRE SPRINKLERS TO PROVIDE FIRE PROTECTION THROUGHOUT EXISTING BUILDING AND BUILDING ADDITION INCLUDING ANY COMBUSTIBLE CONCEALED SPACE. DESIGN, INSTALL AND TEST IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF NFPA 13. FIRE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY DESIGNED TO PROTECT HAZARD CLASSIFICATIONS OF ORDINARY HAZARD OR LIGHT HAZARD AS APPROPRIATE FOR USE OF EACH ROOM/AREA.
- FIRE SPRINKLERS INSTALL TO PROTECT IMMATE HOLDING AND TRANSFER AREAS SHALL BE INSTITUTIONAL TYPE FIRE SPRINKLERS. HANGER PER LENGTH AND TEMPERATURE. WHITE PAINTED, PENDENT FIRE SPRINKLER WITH WHITE FINISH AND TRIM PLATE (TYCO 15831).
- ALL FIRE SPRINKLERS PROTECTING HOLDING CELL AREAS (ON ALL LEVELS) SHALL BE ISOLATED FROM THE FIRE SPRINKLER SYSTEM BY A SEPARATE CONTROL VALVE. INSTALL IN A CONCEALED LOCATION TO ALLOW SECURITY PERSONNEL TO RAPIDLY STOP THE FLOW OF WATER TO THE FIRE SPRINKLERS IN THE HOLDING CELL. THE FLOW OF WATER TO THE FIRE SPRINKLERS IN THE HOLDING CELL SHALL BE STOPPED BY THE CONTROL VALVE. INSTALL A SUPERVISED CONTROL VALVE IN OFFICER STATION 1.304 LOCATED IN BASEMENT SECURITY AREA. MOUNT CONTROL VALVE EXPOSED TO THE OPEN AIR AT A HEIGHT OF 2'-0" ABOVE FINISHED FLOOR AND PROVIDE SIGN TO CLEAR INDICATE VALVE FUNCTION. COORDINATE LOCATION WITH WALL MOUNTED FIXTURES AND WALL FINISHES AND ADJUST LOCATION AS REQUIRED TO AVOID CONFLICTS. INSTALL SUPPLY PIPING FROM CONTROL VALVE TO ALL FIRE SPRINKLERS LOCATED WITHIN HOLDING CELLS ON ALL LEVELS. VERTICAL PIPING BETWEEN FLOORS MAY BE INSTALLED IN PLUMBING SHIFTS. SPRINKLER HOLDING CELL TOILET FIXTURES. COORDINATE WITH WATER, DRAIN AND VENT PIPING.

GENERAL NOTES - FIRE SPRINKLER

- THE FIRE SPRINKLER SYSTEMS SHALL BE DESIGNED TO COMPLY WITH THE APPLICABLE PROVISIONS OF THE FOLLOWING CODES AND STANDARDS:
A. INTERNATIONAL BUILDING CODE (IBC) - 2018 EDITION
B. INTERNATIONAL FIRE CODE (IFC) - 2018 EDITION
C. NFPA 13 INSTALLATION OF FIRE SPRINKLER SYSTEMS 2016 EDITION
- FURNISH ALL MATERIALS, EQUIPMENT AND SUPPLIES AND PERFORM ALL WORK AND OPERATIONS TO DESIGN, CONSTRUCT, AND MAKE FUNCTIONAL FIRE SPRINKLER SYSTEM TO PROTECT ALL AREAS OF THE BUILDING. PROVIDE PARTIAL DEMOLITION AND REMODEL OF FIRE SPRINKLER SYSTEMS PROTECTING PORTIONS OF EXISTING BUILDING. THE SYSTEM DESIGN SHALL MEET THE REQUIREMENTS OF CODES AND STANDARDS LISTED IN NOTE 1 ABOVE AND SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
- THE DESIGN OF THE FIRE SPRINKLER SYSTEMS CONTAINED ON THESE DRAWINGS IS CONFIDENTIAL IN NATURE AND IS BASED ON INFORMATION PROVIDED IN THE DESIGN DEVELOPMENT DRAWINGS. THE LOCATIONS SHOWN ON THESE DRAWINGS FOR PIPING AND OTHER FIRE PROTECTION EQUIPMENT ARE APPROXIMATE AND MUST BE ADJUSTED WHERE REQUIRED TO MATCH ACTUAL BUILDING CONDITIONS. INSTALLING CONTRACTOR IS RESPONSIBLE TO COMPLETE DETAILED DESIGN OF THE FIRE SPRINKLER SYSTEMS INCLUDING HYDRAULIC CALCULATIONS.
- ALL DEVICES AND MATERIALS USED FOR THE INSTALLATION OF THE FIRE SPRINKLER SYSTEMS SHALL BE UL LISTED OR IN APPROVED FOR USE IN FIRE PROTECTION.
- OFF-PREMISE SUPERVISION OF FIRE SPRINKLER SYSTEM CONTROL VALVES AND FLOW SWITCHES AS WELL AS PROVISION OF LOCAL WATER FLOW ALARM DEVICE PROVIDED BY FIRE ALARM CONTRACTOR.
- CONTRACTOR SHALL PREPARE AND SUBMIT COMPLETE SHOP DRAWING, PRODUCT DATA, SEISMIC CALCULATIONS AND HYDRAULIC CALCULATIONS IN ACCORDANCE WITH NOTES 1 THROUGH 4 AND APPROVAL TO THE LOCAL FIRE DEPARTMENT. ALL SHOP DRAWINGS, SEISMIC CALCULATIONS AND HYDRAULIC CALCULATIONS OR INSTALLING ANY EQUIPMENT, SHOP DRAWING SUBMITTALS SHALL MEET ALL APPLICABLE REQUIREMENTS OF NFPA 13 AND LOCAL FIRE DEPARTMENT.
- WATER SUPPLY AVAILABLE FOR FIRE SPRINKLER SYSTEMS:
STATIC PRESSURE: 78 PSI
FLOW: 1575 GPM
TEST DATE: 11/10/22
TEST LOCATION: 6TH AVENUE BETWEEN GOODING AND SHOSHONE
- FIRE SPRINKLER DESIGN DENSITIES:
A. LIBRARY/STACK AREAS, FILE ROOMS, STORAGE, MECHANICAL, ELECTRICAL, COMMUNICATIONS, JANITORY AND SIMILAR AREAS: ORDINARY HAZARD GROUP 2, 0.20 GPM/SQ. FT. OVER THE MOST REMOTE 1,500 SQ. FT. INCLUDING 250 GPM HOSE ALLOWANCE.
B. CONFERENCE ROOMS, OFFICES, CORRIDORS, Lobbies, CONFERENCE ROOMS, OFFICES, STAIRS, COMMON AREAS AND SIMILAR SPACES, LIGHT HAZARD, 0.10 GPM/SQ. FT. OVER THE MOST REMOTE 1,500 SQ. FT. INCLUDING 150 GPM HOSE ALLOWANCE.
- MAXIMUM COVERAGE AREA PER SPRINKLER:
A. ORDINARY HAZARD: 130 SQ FT.
B. LIGHT HAZARD: 225 SQ FT.
- FIRE SPRINKLERS:
A. ALL AREAS WITH FINISHED CEILING EXCEPT IMMATE HOLDING AND TRANSFER AREAS: QUICK RESPONSE, STANDARD ORIFICE (K-5.6), ORDINARY TEMPERATURE, WHITE PAINTED, PENDENT FIRE SPRINKLER WITH WHITE RECESSED TYPE ESCUTCHEON.
B. IMMATE HOLDING AND TRANSFER AREAS: QUICK RESPONSE, STANDARD ORIFICE (K-5.6), ORDINARY TEMPERATURE, WHITE PAINTED, INSTITUTIONAL TYPE (LAMPS-PROOF) PENDENT FIRE SPRINKLER WITH WHITE FINISH AND TRIM PLATE (TYCO 15831) OR EQUAL.
C. ORDINARY OR INTERMEDIATE TEMPERATURE, BRASS, SPRINKLER FIRE SPRINKLERS
- ALL FIRE SPRINKLER PIPING SHALL BE STEEL PIPE CONFORMING TO ANSI/ASTM A53, ASTM A135 DR A79, SCHEDULE 40 AND LARGER, SCHEDULE 10 2 1/2" AND LARGER, SCHEDULE 30 2" AND SMALLER.
- FITTINGS:
A. STEEL PIPING 2" AND SMALLER IN NOMINAL DIAMETER SHALL BE JOINED WITH PRESSURE WELDS USING CAST IRON FITTINGS AND COUPLINGS.
B. STEEL PIPING 2-1/2" AND LARGER IN NOMINAL DIAMETER SHALL BE JOINED WITH ROLL GROOVED JOINTS USING RUBBER GASKETED VICTALIC STYLE FITTINGS AND COUPLINGS.
C. SPRINKLERS ON BRANCH LINES SHALL BE INSTALLED USING 1/2" OR 3/4" OUTLET THREADED TEES.
- HANGERS SHALL MEET REQUIREMENTS OF NFPA 13, 15-1/4" AND SMALLER PIPE: MINIMUM ONE HANGER PER LENGTH OF PIPE AND MAXIMUM 15'-0" BETWEEN HANGERS.
1-1/2" AND LARGER: MINIMUM ONE HANGER PER LENGTH OF PIPE AND MAXIMUM 15'-0" BETWEEN HANGERS.
- SEISMIC BRACING: PROVIDE SWAY BRACING FOR PIPING ONLY WHERE REQUIRED BY LOCAL A.H.J. WHERE REQUIRED, BRACING SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF NFPA 13.
- INSTALL ALL PIPING PITCHED TO DRAIN. PROVIDE AUXILIARY DRAINS PER NFPA 13 TO FACILITATE DRAINAGE OF TRAPPED PORTIONS OF FIRE SPRINKLER PIPING.
- PROVIDE FIRE SPRINKLER PROTECTION FOR ALL CONCEALED SPACES ENCLOSED WHOLLY OR PARTLY BY EXPOSED COMBUSTIBLE CONSTRUCTION OR THAT CONTAIN EXPOSED COMBUSTIBLE MATERIALS NOT SHOWN ON PLANS.
- INSTALL FIRE RATED CALKING AROUND FIRE SPRINKLER PIPING TO SEAL ALL PENETRATIONS OF FIRE RATED WALLS/PARTITIONS.
- CONTRACTOR SHALL PERFORM ALL TESTING AND COMMISSIONING REQUIRED BY NFPA 13 AND RECOMMENDED BY EQUIPMENT MANUFACTURERS. ALL TESTING SHALL BE WITNESSED AND APPROVED BY OWNER AND LOCAL FIRE DEPARTMENT.



KEY PLAN



04-03-23

TERON W. WARD JUDICIAL BUILDING
REMODEL & EXPANSION
427 Shoshone St N Twin Falls, ID

PROJECT: 21403.000 DATE: 04-03-23
DRAWN: NMJ CHECKED: GTJ
REVISED:

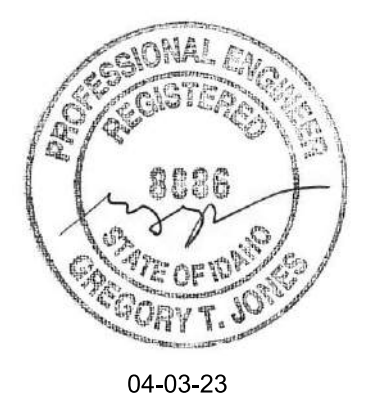
Permit Set

SHEET TITLE: **FIRE SPKR PLAN LEVEL 2 AREA A**

SHEET: **FP12A**

ORIGINAL SHEET SIZE: 36" x 48"

REG. ENGINEER AS PER SPECIFICATION, AS THE AUTHORITY OF THE STATE OF IDAHO, I HEREBY CERTIFY THAT THE ABOVE DRAWING IS AN ORIGINAL DRAWING MADE BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM AN AUTHORIZED PROFESSIONAL ENGINEER IN THE STATE OF IDAHO. I AM NOT PROVIDING CONTRACT ADMINISTRATION SERVICES. EXPIRES 04/03/2028.



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HERON W. WARD JUDICIAL BUILDING
REMODEL & EXPANSION
 427 Shoshone St N Twin Falls, ID

Permit Set

PROJECT	DATE
21403.000	04-03-23
DRAWN	CHECKED
NMJ	GTJ

REVISED

SHEET TITLE
**FIRE SPKR
 PLAN
 LEVEL 2
 AREA B**

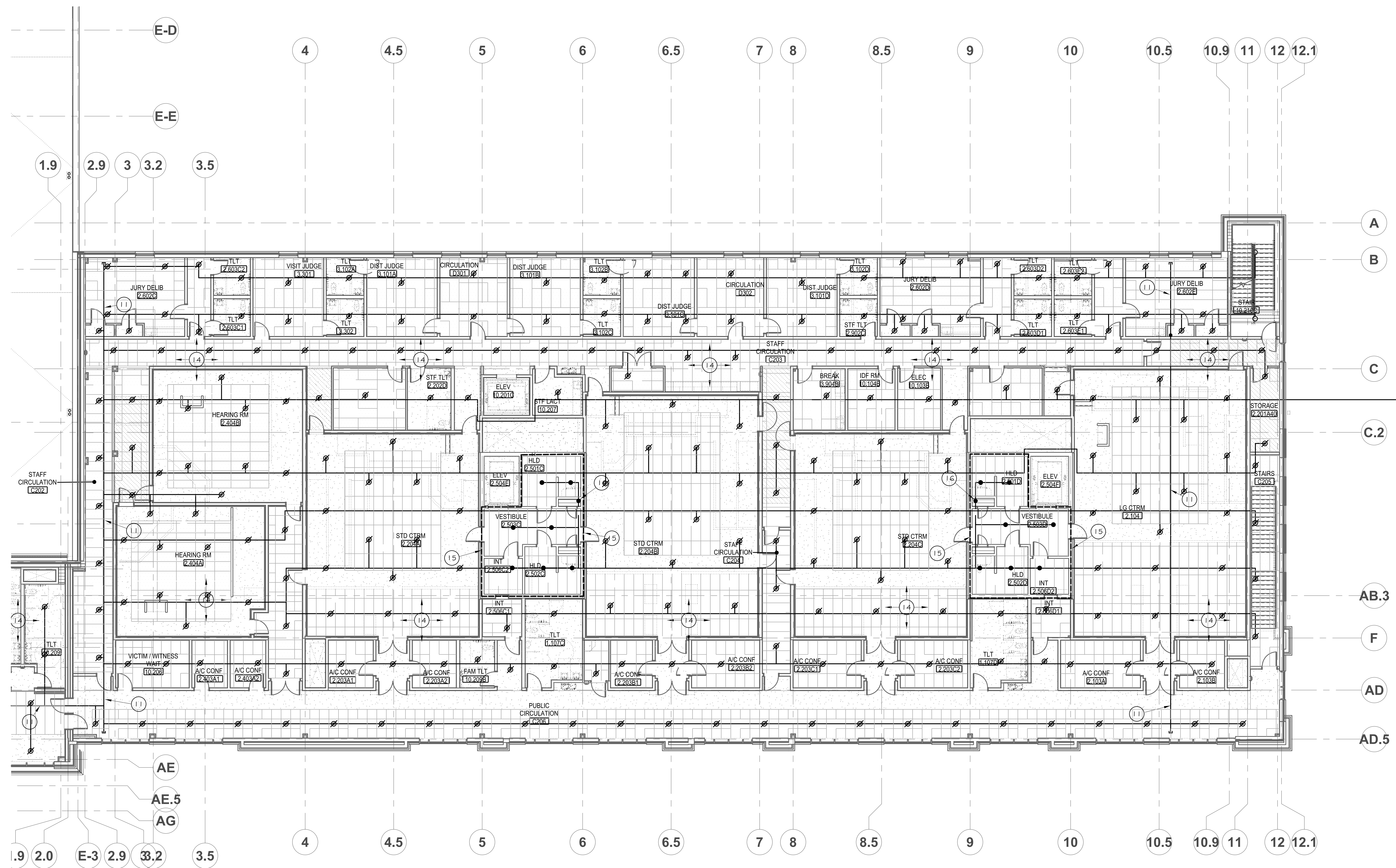
SHEET
FP12B
 ORIGINAL SHEET SIZE
 36" x 48"

Keynote Legend - Fire Sprinkler

- 1 EXISTING FIRE PROTECTION WATER SUPPLY TO BE REMOVED. DISCONNECT FROM EXISTING PUBLIC WATER SYSTEM. REMOVE PIPING TO AT LEAST 12" BELOW EXISTING FLOOR SLAB. FILL REMAINING PIPING WITH FLOWABLE FILL MATERIAL AND ABANDON IN PLACE.
- 2 EXISTING FIRE SPRINKLER RISER TO BE DEMOLISHED TO FACILITATE REMODEL OF EXISTING BUILDING. REMOVE ALL CONTROL VALVES, APPURTENANCES, BACKFLOW PREVENTER, PIPING, FITTINGS, SUPPORTS AND BRACES. REMOVE PIPING FROM 12" BELOW FLOOR SLAB TO HORIZONTAL PIPING ABOVE CEILING.
- 3 EXISTING WALL MOUNTED FIRE DEPARTMENT CONNECTION (FDC) FOR EXISTING FIRE SPRINKLER SYSTEM TO BE DEMOLISHED. REMOVE FDC, PIPING, FITTINGS, SUPPORTS AND BRACES. REMOVE PIPING BACK TO POINT OF CONNECTION TO EXISTING 2" FDC CROSS MAIN AND CAP. PATCH REMAINING HOLE IN EXTERIOR WALL.
- 4 EXISTING FIRE SPRINKLER FEED OR CROSS MAIN TO REMAIN. CONTRACTOR TO FIELD VERIFY LOCATION, ELEVATION AND SIZE.
- 5 EXISTING FIRE SPRINKLER FEED OR CROSS MAIN TO BE DEMOLISHED TO FACILITATE CONSTRUCTION OF 2 STORY ADDITION. REMOVE PIPING, FITTINGS, SUPPORTS AND BRACES.
- 6 EXISTING FIRE PROTECTION HOSE CABINET TO BE DEMOLISHED. HOSE CABINET IS NOT REQUIRED BY CODE IN A BUILDING PROTECTED THROUGHOUT BY AN AUTOMATIC FIRE SPRINKLER SYSTEM. REMOVE HOSE VALVE, CABINET, PIPING, CONNECTION TO WATER SOURCE AND CAP.
- 7 BUILDING REMODEL TO OCCUR IN HATCHED AREA. DEMO, MODIFY, ADJUST AND/OR ADD FIRE SPRINKLER AND PIPING AS REQUIRED TO ACCOMMODATE REMODEL AND ENSURE FIRE SPRINKLER PROTECTION THROUGHOUT BUILDING IN ACCORDANCE WITH NFPA 13. REMOVE ALL EXISTING PENDENT FIRE SPRINKLERS AND PIPING DROPS AND CAP OUTLETS ON BRANCH LINES. EXISTING CROSS MAINS AND BRANCHED BRANCH LINE PIPING MAY REMAIN TO BE USED TO SUPPLY NEW EXTENT OF REMODEL. COORDINATE WITH MECHANICAL AND ELECTRICAL SYSTEMS. LOCATIONS OF FIRE SPRINKLERS AND PIPING ON DRAWINGS IS APPROXIMATE AND SHOULD BE FIELD VERIFIED BY CONTRACTOR.
- 8 CROSS HATCHING DENOTES PORTIONS OF EXISTING BUILDING TO BE DEMOLISHED. REMOVE ALL FIRE SPRINKLERS, RISERS, PIPING, FITTINGS, SUPPORTS AND BRACES. REMOVE PIPING BACK TO POINT OF CONNECTION TO PORTIONS OF EXISTING FIRE SPRINKLER SYSTEM TO REMAIN AND CAP.
- 9 NEW 6" UNDERGROUND FIRE PROTECTION WATER SUPPLY (BY OTHERS) TO BUILDING. DESIGN, INSTALL AND TEST WATER SUPPLY IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF NFPA 13, 24 AND LOCAL WATER PURVEYOR. CONNECT TO EXISTING PUBLIC WATER SYSTEM LINES. 6TH AVENUE. THE PUBLIC WATER SYSTEM PROVIDES THE FOLLOWING PRESSURES/FLOW:
 STATIC PRESSURE: 75 PSIG
 RESIDUAL PRESSURE: 60 PSIG
 FLOW: 1.571 GPM
 10' DEEP BASEMENT THROUGH FOUNDATION WALL. PROVIDE PIPE SLEEVE WITH LINK SEAL. RUN PIPING OVERHEAD ACROSS CORRIDOR AND RISE UP TO FIRE RISER ROOM ABOVE. ALL PIPING BETWEEN CONNECTION TO PUBLIC WATER SYSTEM AND INLET SIDE OF BACKFLOW PREVENTER SHALL BE APPROVED FOR POTABLE WATER USE.
- 10 RISER FOR WET PIPE FIRE SPRINKLER SYSTEM TO PROTECT EXISTING BUILDING AND PROPOSED EXPANSION. PROVIDE A SEPARATE RISERZONE FOR EACH FLOOR LEVEL OF THE BUILDING. RISER SHALL BE INSTALLED AT THE RISER ROOM ASSEMBLY. MAIN DRIVEN RISER SHALL BE INSTALLED AT THE RISER ROOM. PROVIDE PRESSURE GAUGE, VANE TYPE FLOW SWITCH AND TEST VALVE. SEE DETAIL ON SHEET FP10.
- 11 FEED/CROSS MAIN FOR FIRE SPRINKLER SYSTEM (SUGGESTED LOCATION). PIPING SHALL BE INSTALLED CONCEALED ABOVE CEILING WHERE CEILING IS PROVIDED. COORDINATE WITH BUILDING CEILING, STRUCTURE AND MECHANICAL/ELECTRICAL SYSTEMS.
- 12 EXTEND WATER SUPPLY TO EXISTING 2" CROSS MAIN FOR GRIDDED FIRE SPRINKLER SYSTEM IN EXISTING BUILDING.
- 13 WALL MOUNT 2-WAY FIRE DEPARTMENT CONNECTION (FDC). INSTALL FDC APPROXIMATELY 36" ABOVE FINISHED EXTERIOR GRADE. CONNECT FDC TO FIRE PROTECTION WATER SUPPLY BETWEEN BACKFLOW PREVENTER AND ZONE CONTROL VALVES. CONSIDER FDC TO ALLOW PRESSURIZATION OF ALL FIRE SPRINKLER ZONES SIMULTANEOUSLY.
- 14 INSTALL WET PIPE FIRE SPRINKLERS TO PROVIDE FIRE PROTECTION THROUGHOUT EXISTING BUILDING AND BUILDING ADDITION INCLUDING ANY COMBUSTIBLE EXISTING BUILDING. DESIGN, INSTALL AND TEST IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF NFPA 13. FIRE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY DESIGNED TO PROTECT HAZARD CLASSIFICATIONS OF ORDINARY HAZARD OR LIGHT HAZARD AS APPROPRIATE FOR USE OF EACH ROOM/AREA.
- 15 FIRE SPRINKLERS INSTALLED TO PROTECT IMMATE HOLDING AND TRANSFER AREAS SHALL BE INSTITUTIONAL TYPE FIRE SPRINKLERS. TEMPERATURE RATED AND TEMPORATURE WHITE PAINTED. PENDENT FIRE SPRINKLER WITH WHITE FINISH AND TRIM PLATE (TYCO 15281).
- 16 ALL FIRE SPRINKLERS PROTECTING HOLDING CELL AREAS (ON ALL LEVELS) SHALL BE ISOLATED FROM THE FIRE SPRINKLING SYSTEM BY A SEPARATE CONTROL VALVE INSTALLED IN A REASONABLY ACCESSIBLE LOCATION TO ALLOW SECURITY PERSONNEL TO RAPIDLY STOP THE FLOW OF WATER TO THE FIRE SPRINKLERS IN THE HOLDING CELL IN THE EVENT OF FIRE SPRINKLER TAMPERING WITH THE INSTALLATION OF A SUPERVISED CONTROL VALVE IN OFFICER STATION 1.304 LOCATED IN BASEMENT SECURITY AREA. MOUNT CONTROL VALVE TO CLEAR INDICATE VALVE FUNCTION. COORDINATE LOCATION WITH WALL MOUNTED PICTURE HANGING FINISHES AND ADJUST LOCATION AS REQUIRED TO AVOID CONFLICTS. INSTALL SUPPLY PIPING FROM CONTROL VALVE TO ALL FIRE SPRINKLERS LOCATED WITHIN HOLDING CELLS ON ALL LEVELS. VERTICAL PIPING BETWEEN FLOORS MAY BE INSTALLED IN PLUMBING SHAFTS. FIRE SPRINKLING HOLDING CELL TOILET FIXTURES. COORDINATE WITH WATER, DRAIN AND VENT PIPING.

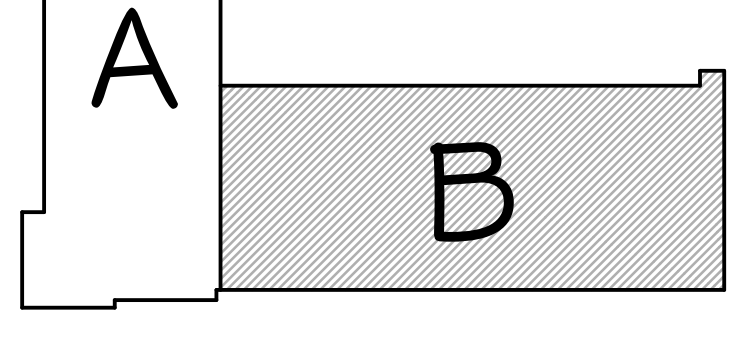
GENERAL NOTES - FIRE SPRINKLER

- 1 THE FIRE SPRINKLER SYSTEMS SHALL BE DESIGNED TO COMPLY WITH THE APPLICABLE PROVISIONS OF THE FOLLOWING CODES AND STANDARDS:
 A. INTERNATIONAL BUILDING CODE (IBC) - 2018 EDITION
 B. INTERNATIONAL FIRE CODE (IFC) - 2018 EDITION
 C. NFPA 13 INSTALLATION OF FIRE SPRINKLER SYSTEMS 2016 EDITION
- 2 FURNISH ALL MATERIALS, EQUIPMENT AND SUPPLIES AND PERFORM ALL WORK AND OPERATIONS TO DESIGN, CONSTRUCT, AND MAKE FUNCTIONAL FIRE SPRINKLER SYSTEMS TO PROTECT EXISTING BUILDING AND BUILDING ADDITION. PROVIDE PARTIAL DEMOLITION AND REMODEL OF FIRE SPRINKLER SYSTEM PROTECTING PORTIONS OF EXISTING BUILDING TO BE DEMOLISHED. THE SYSTEM DESIGN SHALL MEET THE REQUIREMENTS OF CODES AND STANDARDS LISTED IN NOTE 1 ABOVE AND SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
- 3 THE DESIGN OF THE FIRE SPRINKLER SYSTEMS CONTAINED ON THESE DRAWINGS IS CONSIDERED TO BE INFORMATION PROVIDED BY THE DESIGNER. THE DESIGNER'S DEVELOPMENT DRAWINGS, THE LOCATIONS SHOWN ON THESE DRAWINGS FOR PIPING AND OTHER FIRE PROTECTION ARE APPROXIMATE AND MUST BE ADJUSTED WHERE REQUIRED TO MATCH ACTUAL BUILDING CONDITIONS. INSTALLING CONTRACTOR IS RESPONSIBLE TO COMPLETE DETAILED DESIGN OF THE FIRE SPRINKLER SYSTEMS INCLUDING HYDRAULIC CALCULATIONS.
- 4 ALL DEVICES AND MATERIALS USED FOR THE INSTALLATION OF THE FIRE SPRINKLER SYSTEMS SHALL BE LISTED OR APPROVED FOR USE IN THE PRECISE MANNER.
- 5 OFF-PREMISE SUPERVISION OF FIRE SPRINKLER SYSTEM CONTROL VALVES AND FLOW SWITCHES AS WELL AS PROVISION OF LOCAL WATER FLOW ALARM DEVICE PROVIDED BY FIRE ALARM CONTRACTOR.
- 6 CONTRACTOR SHALL PREPARE AND SUBMIT COMPLETE SHOP DRAWING, PRODUCT DATA, DESIGN CALCULATIONS AND HYDRAULIC CALCULATIONS FOR REVIEW AND APPROVAL OF THE DESIGNER AND LOCAL FIRE DEPARTMENT. SHOP DRAWINGS SHALL INCLUDE ALL APPLICABLE REQUIREMENTS OF NFPA 13 AND LOCAL FIRE DEPARTMENT REQUIREMENTS.
- 7 WATER SUPPLY AVAILABLE FOR FIRE SPRINKLER SYSTEMS:
 STATIC PRESSURE: 75 PSIG
 RESIDUAL PRESSURE: 64 PSIG
 FLOW: 1.571 GPM
 TEST DATE: 11/10/22
 TEST LOCATION: 6TH AVENUE BETWEEN GOODING AND SHOSHONE
- 8 FIRE SPRINKLER DESIGN DENSITIES:
 A. LIBRARY STACK AREAS, FILE ROOMS, STORAGE MECHANICAL, ELECTRICAL COMMUNICATIONS AND STORAGE AREAS: 0.20 GPM/SQ. FT. INCLUDING 250 GPM HOSE ALLOWANCE.
 B. COURT ROOMS, OFFICES, CORRIDORS, Lobbies, CONFERENCE ROOMS, OFFICES, STAIRS, COMMON AREAS AND SIMILAR SPACES: LIGHT HAZARD, 0.10 GPM/SQ. FT. OVER THE MOST REMOTE 1,300 SQ. FT. INCLUDING 100 GPM HOSE ALLOWANCE.
- 9 MAXIMUM COVERAGE AREA PER SPRINKLER:
 A. ORDINARY HAZARD: 135 SQ. FT.
 B. LIGHT HAZARD: 225 SQ. FT.
- 10 FIRE SPRINKLERS:
 A. AREAS WITH FINISHED CEILING (EXCEPT IMMATE HOLDING AND TRANSFER AREAS): QUICK RESPONSE, STANDARD ORIFICE (K-5.6), ORDINARY TEMPERATURE, WHITE PAINTED, PENDENT FIRE SPRINKLER WITH RECESSED TYPE ESCUTCHEON.
 B. IMMATE HOLDING AND TRANSFER AREAS: QUICK RESPONSE, STANDARD ORIFICE (K-5.6), ORDINARY TEMPERATURE, WHITE PAINTED, INSTITUTIONAL TYPE (TYCO 15281 OR EQUIV.)
 C. ORDINARY OR INTERMEDIATE TEMPERATURE, BRASS, UPRIGHT FIRE SPRINKLERS (TYCO 15281 OR EQUIV.)
 D. HLD: 2.5012
 E. INT: 2.50512
- 11 ALL FIRE SPRINKLER PIPING SHALL BE STEEL PIPE CONFORMING TO ANSI/ASTM A53, ASTM A35 DR AT 20" AND LARGER - SCHEDULE 10
 2" AND SMALLER - SCHEDULE 30
- 12 FITTINGS:
 A. STEEL PIPING 2" AND SMALLER IN NOMINAL DIAMETER SHALL BE JOINED WITH WELDED JOINTS USING LAST BRON FITTINGS AND COUPLINGS.
 B. STEEL PIPING 2-1/2" AND LARGER IN NOMINAL DIAMETER SHALL BE JOINED WITH ROLL GROOVED JOINTS USING RUBBER GASKETED VICTALIC STYLE FITTINGS AND COUPLINGS.
 C. SPRINKLERS ON BRANCH LINES SHALL BE INSTALLED USING 1/2" OR 3/4" OUTLET THREADED TEES.
- 13 HANGERS SHALL MEET REQUIREMENTS OF NFPA 13. MINIMUM ONE HANGER PER LENGTH OF PIPE AND MAXIMUM 14'-0" BETWEEN HANGERS.
 1-1/2" AND LARGER: MINIMUM ONE HANGER PER LENGTH OF PIPE AND MAXIMUM 15'-0" BETWEEN HANGERS.
- 14 SEISMIC BRACING: PROVIDE SWAY BRACING FOR PIPING ONLY WHERE REQUIRED BY LOCAL A.U. WHERE REQUIRED, BRACING SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF NFPA 13.
- 15 INSTALL ALL PIPING FITTED TO DRAIN. PROVIDE AUXILIARY DRAINS PER NFPA 13 TO FACILITATE DRAINAGE OF TRAPPED PORTIONS OF FIRE SPRINKLER PIPING.
- 16 PROVIDE FIRE SPRINKLER PROTECTION FOR ALL CONCEALED SPACES ENCLOSED WHOLLY OR PARTLY BY EXPOSED COMBUSTIBLE CONSTRUCTION OR THAT CONTAIN EXPOSED COMBUSTIBLE MATERIALS NOT SHOWN ON PLANS.
- 17 INSTALL FIRE RATED CALKING AROUND FIRE SPRINKLER PIPING TO SEAL ALL PENETRATIONS OF FIRE RATED WALL PARTITIONS.
- 18 CONTRACTOR SHALL PERFORM ALL TESTING AND COMMISSIONING REQUIRED BY NFPA 13 AND RECOMMENDED BY EQUIPMENT MANUFACTURERS. ALL TESTING SHALL BE WITNESSED AND APPROVED BY OWNER AND LOCAL FIRE DEPARTMENT.



1 FIRE SPRINKLER PLAN - LEVEL 2 AREA B
 1/8" = 1'-0"

KEY PLAN



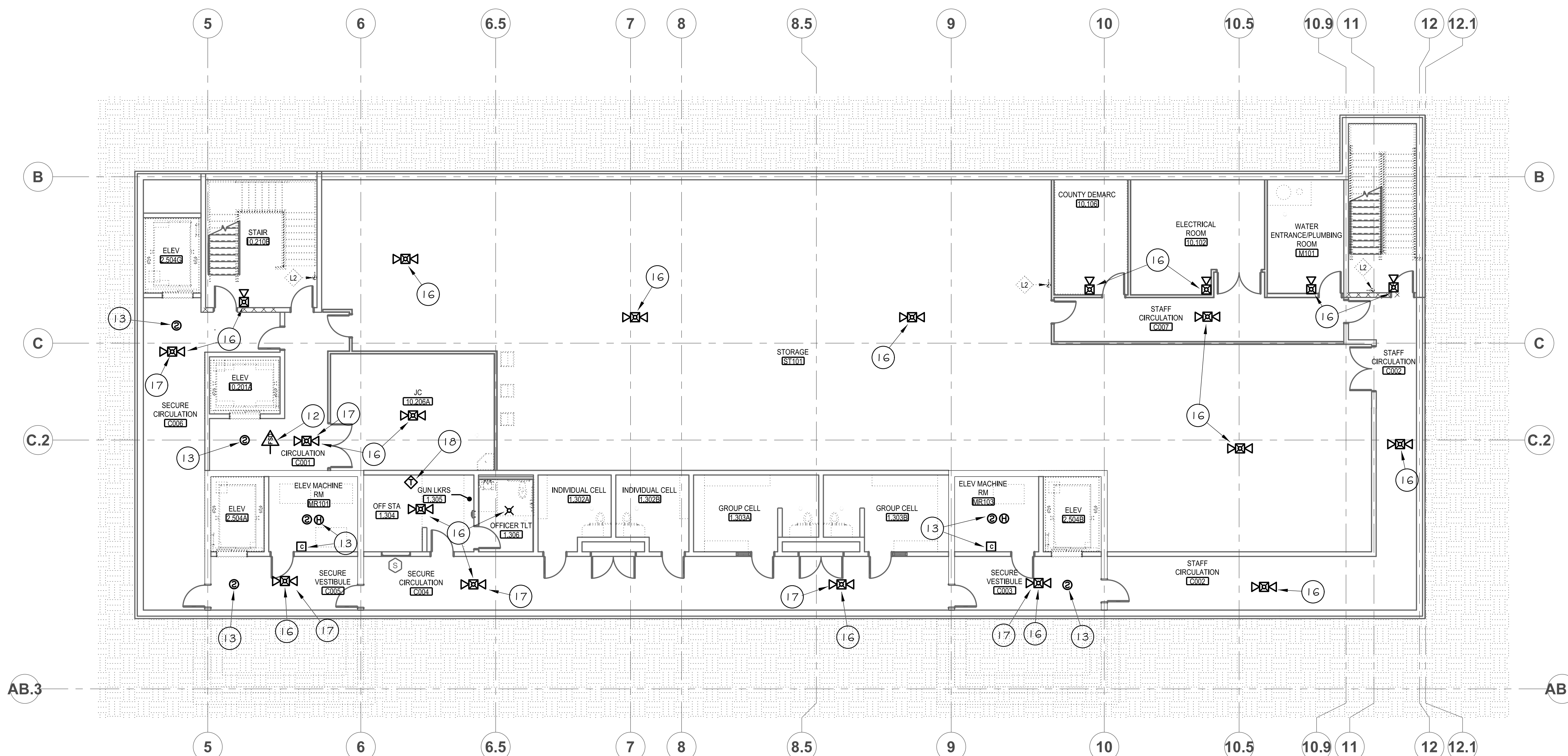
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FIRE ALARM LEGEND	
SYMBOL	DESCRIPTION
	FIRE-EMERGENCY VOICE ALARM CONTROL PANEL
	FIRE-EMERGENCY VOICE ALARM ANNUNCIATOR PANEL
	FIRE-EMERGENCY VOICE ALARM NOTIFICATION APPLIANCE POWER SUPPLY/AMPLIFIER
	SMOKE DETECTOR
	HEAT DETECTOR
	FIRE ALARM PULL STATION
	FIRE SPRINKLER VALVE SUPERVISORY SWITCH
	FIRE SPRINKLER WATER FLOW SWITCH
	DUCT MOUNTED SMOKE DETECTOR
	FIRE SMOKE DAMPER
	FIRE ALARM RELAY
	MAGNETIC FIRE DOOR HOLD-OPEN
	FIRE-EMERGENCY VOICE ALARM SPEAKER/STROBE - CEILING
	FIRE-EMERGENCY VOICE ALARM STROBE
	FIRE-EMERGENCY VOICE ALARM SPEAKER/STROBE - WALL

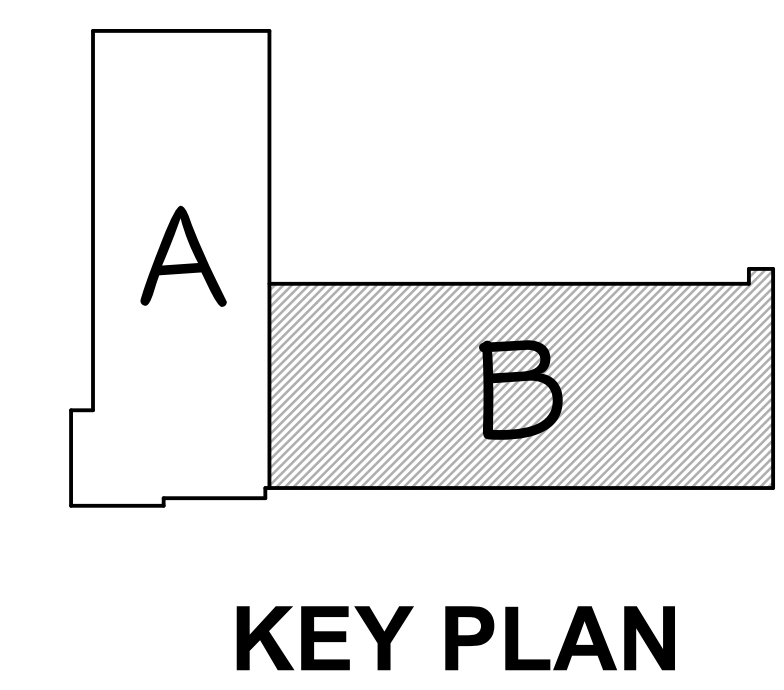
- ### Keynote Legend - Fire Alarm
- EXISTING FIRE ALARM NOTIFICATION APPLIANCE POWER SUPPLY TO BE DEMOLISHED TO FACILITATE REMODEL OF AREA. POWER SUPPLY PROVIDES 24 VDC POWER TO EXISTING NOTIFICATION APPLIANCES IN BUILDING. DISCONNECT FROM EXISTING FIRE ALARM CONTROL PANEL (IN ADJACENT BUILDING). REMOVE POWER SUPPLY, CABINET, BATTERIES, PRIMARY CIRCUIT AND NOTIFICATION APPLIANCE CIRCUITS. PHASE DEMOLITION OF NOTIFICATION APPLIANCES AND POWER SUPPLY TO OCCUR WHEN BUILDING IS NO LONGER OCCUPIED.
 - FIRE ALARM CONTROL PANEL WITH VOICE ALARM CAPABILITIES (FACP) FOR BOTH EXISTING BUILDING AND EXPANSION. SUPPLY SHALL BE MOUNTED ON WALL WITH CENTER OF CABINET AT 54" AFF. PANEL SHALL BE ADDRESSABLE TYPE WITH ADDITIONAL SPARE CAPACITY OF 20%. AMPLIFIERS SHALL HAVE SUFFICIENT CAPACITY FOR ALL SPEAKERS IN BUILDING WITH AN ADDITIONAL SPARE CAPACITY OF 20%. PROVIDE 120 VAC PRIMARY POWER SUPPLY AND 24 VDC SECONDARY POWER SUPPLY (BATTERIES) PER NFPA 72.
 - NOTIFICATION APPLIANCE POWER SUPPLIES AND AMPLIFIERS TO PROVIDE 24 VDC POWER TO ALL STROBES AND POWER/DRIVER SIGNALS TO ALL SPEAKERS IN BUILDING. SURFACE MOUNT ON WALL OF FIRE RISER ROOM OR OTHER SUITABLE UTILITY ELECTRICAL ROOM. NUMBER AND LOCATION OF SUPPLIES/AMPLIFIERS TO BE DETERMINED BY CONTRACTOR. CONFIGURE POWER SUPPLIES/AMPLIFIERS TO SYNCHRONIZE AUDIBLE AND VISUAL SIGNALS OF ALL NOTIFICATION APPLIANCES IN BUILDING. PROVIDE 120 VAC PRIMARY POWER SUPPLY AND 24 VDC SECONDARY POWER SUPPLY (BATTERIES) PER NFPA 72.
 - FIRE ALARM ANNUNCIATOR PANEL AT MAIN BUILDING ENTRANCE. MOUNT ON RECESSED BOX AT 54" AFF. ALL CONDUIT AND WIRING SHALL BE INSTALLED CONCEALED WITHIN WALL.
 - EXISTING FIRE SPRINKLER RISER TO BE DEMOLISHED. DISCONNECT WATER FLOW AND VALVE SUPERVISORY SWITCHES FROM EXISTING FACP (IN ADJACENT BUILDING) AND ADJUST PROGRAMMING AS REQUIRED. REMOVE SWITCHES, CONDUIT, J-BOXES AND WIRING.
 - FIRE SPRINKLER RISERS (NEW) WITH WATER FLOW SWITCHES AND VALVE SUPERVISORY SWITCHES PROVIDED BY FIRE SPRINKLER INSTALLER. CONNECT SWITCHES TO NEW FACP TO PROVIDE ELECTRONIC MONITORING. PROGRAM ACTUATION OF WATER FLOW SWITCH AS A FIRE ALARM SIGNAL. PROGRAM ACTUATION OF VALVE SWITCH AS A SUPERVISORY SIGNAL.
 - EXISTING FIRE ALARM PULL STATION TO BE DEMOLISHED TO FACILITATE REMODEL OF AREA. DISCONNECT FROM EXISTING FIRE ALARM CONTROL PANEL IN DEVICE. -BOX, CONDUIT AND WIRING. PHASE DEMOLITION OF PULL STATION TO OCCUR WHEN BUILDING IS NO LONGER OCCUPIED.
 - MANUAL FIRE ALARM PULL STATION. PROVIDE SINGLE MANUAL FIRE ALARM PULL STATION IN SECURITY AREA TO COMPLY WITH NFPA 72 3.8.5.1.2. PULL STATIONS AT BUILDING EXITS ARE NOT REQUIRED IN ACCORDANCE WITH EXCEPTION TO BP 307.7.1. INSTALL PULL STATION AT ABOVE FINISHED FLOOR LEVEL. PROGRAM ACTUATION OF PULL STATION AS A FIRE ALARM SIGNAL.
 - EXISTING SMOKE DETECTOR TO BE DEMOLISHED TO FACILITATE REMODEL OF AREA. DISCONNECT FROM EXISTING FIRE ALARM CONTROL PANEL IN ADJACENT BUILDING AND ADJUST PROGRAMMING AS REQUIRED. REMOVE DEVICE, -BOX, CONDUIT AND WIRING. PHASE DEMOLITION OF DETECTOR TO OCCUR WHEN BUILDING IS NO LONGER OCCUPIED.
 - INSTALL SMOKE DETECTOR ABOVE FIRE ALARM CONTROL EQUIPMENT IN ACCORDANCE WITH NFPA 72 (14.4). PROGRAM ACTUATION OF SMOKE DETECTOR AS A FIRE ALARM SIGNAL.
 - INSTALL NEW DUCT MOUNTED SMOKE DETECTORS (LISTED COMPATIBLE WITH NEW FACP) ON THE SUPPLY AND/OR RETURN SIDE OF ALL AIR MOVEMENT SYSTEMS WITH A CAPACITY IN EXCESS OF 200 CFM. INSTALL IN ACCORDANCE WITH NFPA 72. NUMBER AND LOCATION OF ALL DETECTORS AND CAPACITY OF ALL AIR MOVEMENT SYSTEMS. INSTALL CONTROL RELAY AND INTERFACE WITH AIR MOVEMENT SYSTEM CONTROLLER. PROGRAM RELAY TO SHUT DOWN AIR HANDLER UPON OPERATION OF DUCT SMOKE DETECTOR OR ANY OTHER FIRE ALARM INITIATING DEVICE IN BUILDING.
 - FIRE-SMOKE DAMPER. COORDINATE WITH MECHANICAL DRAWINGS FOR REQUIRED NUMBER AND LOCATIONS. INSTALL SMOKE DETECTOR PER NFPA 72 7.7.5.3 TO INITIATE DAMPER OPERATION. USE SPOT TYPE SMOKE DETECTORS WITHIN DUCT WHERE AIR VELOCITY DOES NOT EXCEED 300 FEET PER MINUTE AND DUCT TYPE SMOKE DETECTORS WITH HOUSING AND SAMPLING TUBES WHERE AIR VELOCITY EXCEEDS 300 FEET PER MINUTE. INSTALL PROGRAMMABLE RELAY TO CLOSE DAMPERS (ON INTERRUPTION OF POWER SUPPLY TO DAMPERS) UPON ACTUATION OF SMOKE DETECTORS OR ANY OTHER FIRE ALARM INITIATING DEVICE IN THE BUILDING.
 - INSTALL SMOKE AND HEAT DETECTORS IN ELEVATOR EQUIPMENT AREA, LOBBIES AND SHATT TO INITIATE EMERGENCY FUNCTIONS. PROVIDE FIRE ALARM SYSTEM RELAYS TO INTERFACE WITH ELEVATOR CONTROLS TO INITIATE THE FOLLOWING FUNCTIONS:
A. PRIMARY RECALL
B. SECONDARY RECALL
C. ELEVATOR POWER SHUNT-TRIP
D. ELEVATOR POWER SHUNT-TRIP
 - DOORS AT REAR OF COURTROOMS AND IN CIRCULATION C100 ARE SECURED FOR AUTHORIZED USE ONLY AND NOT AVAILABLE FOR PUBLIC USE UNDER NORMAL OPERATIONS. OCCUPANT LOAD OF COURTROOMS EXCEEDS OCCUPANTS REQUIRING A SECOND EXIT PER IBC TABLE 1002.1.1. INSTALL ADDRESSABLE RELAY AND INTERFACE WITH SECURITY SYSTEM TO RELEASE SECURED DOOR UPON ACTUATION OF ANY FIRE ALARM INITIATING DEVICE IN THE BUILDING. CONNECT RELAY TO SECURITY SYSTEM THROUGH NORMALLY CLOSED CONTACTS OF RELAY AND ELECTRIC STRIKE THROUGH NORMALLY CLOSED CONTACTS OF RELAY AND PROGRAM RELAY TO INTERRUPT POWER SUPPLY TO SECURITY HARDWARE AND RELEASING DOOR. RELAY SHALL NOT RESET UNTIL THE FIRE ALARM SYSTEM IS RESTORED TO NORMAL CONDITION.
 - EXISTING FIRE ALARM NOTIFICATION APPLIANCE TO BE DEMOLISHED TO FACILITATE REMODEL OF AREA. DISCONNECT FROM EXISTING FIRE ALARM CONTROL PANEL. CONDUIT AND WIRING. PHASE DEMOLITION OF NOTIFICATION APPLIANCE TO OCCUR WHEN BUILDING IS NO LONGER OCCUPIED.
 - FURNISH AND INSTALL NEW FIRE ALARM NOTIFICATION APPLIANCES (SPEAKERS, STROBES OR SPEAKER/STROBES) THROUGHOUT BUILDING TO CONFORM TO OCCUPANT NOTIFICATION (EMERGENCY VOICE ALARM SYSTEM) REQUIREMENTS OF NFPA 72 AND THE INTERNATIONAL BUILDING CODE. CONNECT DEVICES TO FACP. PROVIDE AMPLIFIERS AND NOTIFICATION CIRCUIT VOLTAGE SUPPLIES. NUMBER, LOCATION AND WIRING SHALL BE DETERMINED BY CONTRACTOR. PROVIDE VOLTAGE DROP TO A MAXIMUM OF 1.5 DB.
 - PROVIDE PROTECTIVE PLASTIC ENCLOSURES FOR NOTIFICATION APPLIANCES LOCATED IN AREAS FREQUENTLY OCCUPIED BY INCARCERATED INDIVIDUALS.
 - FIRE SPRINKLER CONTROL VALVE WITH SUPERVISORY SWITCH TO ISOLATE FIRE SPRINKLERS IN HOLDING CELL AREAS PROVIDED BY FIRE SPRINKLER INSTALLER. CONNECT RELAY TO NEW FACP TO PROVIDE ELECTRONIC MONITORING.
 - FIRE DOOR WITH MAGNETIC HOLD-OPEN DEVICE. INSTALL SMOKE DETECTORS ON BOTH SIDE OF FIRE DOOR IN ACCORDANCE WITH NFPA 72 7.7.5.6. INSTALL 24VDC POWER SUPPLY TO MAGNETIC DOOR HOLDS FROM FIRE ALARM SYSTEM. INSTALL PROGRAMMABLE FIRE ALARM CONTROL RELAY WITH 24VDC POWER WIRE THROUGH NORMALLY CLOSED CONTACTS OF RELAY. PROGRAM RELAY TO OPEN CUTTING POWER TO MAGNETS AND RELEASING FIRE DOOR UPON ACTUATION OF SMOKE DETECTOR ON OTHER SIDE OF DOOR.

GENERAL NOTES - FIRE ALARM

- THE FIRE-EMERGENCY VOICE ALARM SYSTEM SHALL BE DESIGNED TO COMPLY WITH THE APPLICABLE PROVISIONS OF THE FOLLOWING CODES AND STANDARDS:
A. INTERNATIONAL BUILDING CODE (IBC) - 2018 EDITION
B. INTERNATIONAL FIRE CODE (IFC) - 2018 EDITION
C. NFPA 72 NATIONAL FIRE ALARM CODE - 2017 EDITION
D. NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE - 2016 EDITION
E. NFPA 101 LIFE SAFETY CODE - 2018 EDITION
- FURNISH ALL MATERIALS, EQUIPMENT AND SUPPLIES AND PERFORM ALL WORK AND OPERATIONS TO CONSTRUCT AND INSTALL THE FIRE-EMERGENCY VOICE ALARM SYSTEM TO PROVIDE FIRE PROTECTION OF ALL AREAS OF THE BUILDING. THE SYSTEM SHALL MEET THE REQUIREMENTS OF CODES AND STANDARDS LISTED IN NOTE 1 ABOVE AND SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
- THE DESIGN OF THE FIRE-EMERGENCY VOICE ALARM SYSTEM CONTAINED ON THESE DRAWINGS IS CONCEPTUAL IN NATURE AND IS BASED ON INFORMATION PROVIDED IN THE DESIGN DEVELOPMENT DRAWINGS. THE LOCATIONS SHOWN ARE APPROXIMATE AND MUST BE ADJUSTED WHERE REQUIRED TO MATCH ACTUAL BUILDING CONDITIONS. INSTALLING CONTRACTOR IS RESPONSIBLE TO COMPLETE THE DESIGN OF THE FIRE ALARM SYSTEM INCLUDING BATTERY AND VOLTAGE DROP CALCULATIONS.
- ALL DEVICES AND MATERIALS USED FOR THE INSTALLATION OF THE FIRE-EMERGENCY VOICE ALARM SYSTEM SHALL BE LISTED ON AN APPROVED FORM USE IN THE PROTECTION SYSTEMS.
- ALL WIRING USED IN THE FIRE-EMERGENCY VOICE ALARM SYSTEM INSTALLATION SHALL BE MINIMUM 18-GAUGE 300V, FPL, INSTALLED IN EMT OR FLEXIBLE CONDUIT WHERE WIRING WILL BE RUN IN SPACES ABOVE CEILING OR IN TRUSS SPACE. CONDUIT IS NOT REQUIRED.
- CONTRACTOR SHALL PREPARE AND SUBMIT COMPLETE SHOP DRAWINGS, EQUIPMENT DATA SHEETS, SEQUENCE OF OPERATION SYSTEM DESIGN, DEVICE MOUNTING DETAILS AND BATTERY VOLTAGE DROP CALCULATIONS IN ACCORDANCE WITH NFPA 72 FOR REVIEW AND APPROVAL TO THE LOCAL FIRE DEPARTMENT. PROVIDE ALL CONNECTING WIRING AND DEVICE FOR 10' MINIMUM ABOVE ALL CEILING OR TRUSS SPACE. EQUIPMENT, SHOP DRAWINGS SUBMITTALS SHALL MEET ALL APPLICABLE REQUIREMENTS OF NFPA 72 AND LOCAL FIRE DEPARTMENT REQUIREMENTS.
- THE POWER SUPPLY (UN SWITCHED) TO THE FIRE ALARM CONTROL PANEL SHALL BE A DEDICATED BRANCH CIRCUIT PROVIDED FROM A NEARBY POWER DISTRIBUTION PANEL. SEE ELECTRICAL PLANS FOR PANEL LOCATION AND CIRCUIT DESIGNATION.
- FIRE-EMERGENCY VOICE ALARM INITIATING DEVICES SHALL ACTIVATE ALL LOCAL NOTIFICATION APPLIANCES. SEND AN AUDIBLE ALARM AT THE FIRE ALARM ANNUNCIATOR PANEL AND TRANSMIT A FIRE ALARM SIGNAL TO THE REMOTE MONITORING STATION. SUPERVISORY DEVICES SHALL SOUND AN AUDIBLE ALARM AT THE FIRE ALARM ANNUNCIATOR PANEL AND TRANSMIT A SUPERVISORY SIGNAL TO THE REMOTE MONITORING STATION.
FIRE ALARM DEVICES: SMOKE/HEAT DETECTORS, PULL STATIONS, FIRE SPRINKLER WATER FLOW SWITCH
SUPERVISORY DEVICES: DUCT SMOKE DETECTORS, FIRE SPRINKLER VALVE SUPERVISION
- CONTRACTOR SHALL CONNECT FIRE-EMERGENCY VOICE ALARM SYSTEM TO A SUITABLE CELLULAR DIALER FURNISHED AND INSTALLED BY CONTRACTOR TO RELAY FIRE ALARM SIGNALS FROM PROTECTED PREMISE TO CENTRAL MONITORING STATION SELECTED BY OWNER.
- PROVIDE SECONDARY POWER SUPPLY (BATTERIES) PER NFPA 72. BATTERIES SHALL BE LEAD-ACID TYPE DESIGNED TO OPERATE THE SYSTEM UNDER NORMAL SUPERVISORY CONDITION FOR 24-HOURS WITH ADEQUATE RESERVE TO OPERATE SYSTEM IN ALARM CONDITION FOR AN ADDITIONAL 30 MINUTES.
- INITIATING DEVICE CIRCUIT WIRING SHALL BE CLASS B. DATA LOOP SHALL BE CLASS A.
- PROTECTED PREMISE FIRE SAFETY FUNCTIONS: INSTALL PROGRAMMABLE OUTPUT MODULES WITH RELAY CONTACTS TO INITIATE REQUIRED FIRE SAFETY FUNCTIONS (PANIC, SHUT DOWN, LOCKDOWN, ETC.). OUTPUT MODULES SHALL BE INSTALLED WITHIN 36" OF DEVICE OR CIRCUIT CONTROLLER.
- NOTIFICATION APPLIANCES: PROVIDE AUDIBLE (VOICE) AND VISUAL NOTIFICATION APPLIANCES THROUGHOUT BUILDING WHERE INDICATED ON PLANS. NOTIFICATION APPLIANCES SHALL BE SPEAKER/STROBE TYPE DEVICES WITH ADJUSTABLE LIGHT INTENSITY (15-210 MCD) AND VOLUME SETTINGS (10-100 DB). VOLUME OF SPEAKERS SHALL BE SUFFICIENT TO PROVIDE A SOUND LEVEL (ALERT TONE) OF 15 DB ABOVE AMBIENT AND SUFFICIENT TO BE HEARD AT ALL TIMES. VOLUME OF STROBES SHALL BE PROVIDED THROUGHOUT ALL PUBLIC AND COMMON AREAS OF EACH BUILDING INCLUDING AREAS WITH POSSIBLE OCCUPANCY BY HEARING IMPAIRED PERSONS. STROBES SHALL FLASH IN SYNCHRONIZATION. NOTIFICATION APPLIANCES MAY BE WALL OR CEILING MOUNT. LOCATE WALL MOUNT DEVICES BETWEEN 90" AND 96" ABOVE FLOOR.
- NOTIFICATION APPLIANCE ZONING: PROVIDE A SEPARATE ZONE OF NOTIFICATION APPLIANCES FOR EACH FLOOR LEVEL OF BUILDING. CONFIGURE VOICE ALARM CONTROL EQUIPMENT TO ALLOW MANUAL ZONING TO SEPARATE ZONES (BASEMENT, LEVEL 1 AND LEVEL 2) AS WELL AS TO THE ENTIRE BUILDING. AUTOMATIC LOCAL ALARM MESSAGES SHALL BE TRANSMITTED THROUGHOUT THE ENTIRE BUILDING WHERE FIRE ALARM INITIATING DEVICES HAVE ACTIVATED.



1 FIRE ALARM PLAN - BASEMENT
1/8" = 1'-0"



04-03-23

TERON W. WARD JUDICIAL BUILDING
REMODEL & EXPANSION

427 Shoshone St N Twin Falls, ID

CSHOA

200 BROAD STREET
BOISE, ID 83702
(208) 343-4635 • FAX (208) 343-1888
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PROJECT	DATE
21403.000	04-03-23
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NMJ	GTJ

REVISED

SHEET TITLE
FIRE ALARM PLAN BASEMENT

SHEET
FA10

ORIGINAL SHEET SIZE
36" x 48"

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FIRE ALARM LEGEND	
SYMBOL	DESCRIPTION
[Symbol]	FIRE-EMERGENCY VOICE ALARM CONTROL PANEL
[Symbol]	FIRE-EMERGENCY VOICE ALARM ANNUNCIATOR PANEL
[Symbol]	FIRE ALARM CONTROL PANEL WITH VOICE ALARM CAPABILITIES (FACP) FOR BOTH EXISTING AND NEW BUILDINGS
[Symbol]	SMOKE DETECTOR
[Symbol]	HEAT DETECTOR
[Symbol]	FIRE ALARM PULL STATION
[Symbol]	FIRE SPRINKLER VALVE SUPERVISORY SWITCH
[Symbol]	FIRE SPRINKLER WATER FLOW SWITCH
[Symbol]	DUCT MOUNTED SMOKE DETECTOR
[Symbol]	FIRE-SMOKE DAMPER
[Symbol]	FIRE ALARM RELAY
[Symbol]	MAGNETIC FIRE DOOR HOLD-OPEN
[Symbol]	FIRE-EMERGENCY VOICE ALARM SPEAKER-STROBE - CEILING
[Symbol]	FIRE-EMERGENCY VOICE ALARM STROBE
[Symbol]	FIRE-EMERGENCY VOICE ALARM SPEAKER-STROBE - WALL

- ### Keynote Legend - Fire Alarm
- EXISTING FIRE ALARM NOTIFICATION APPLIANCE POWER SUPPLY TO BE DEMOLISHED TO FACILITATE REMODEL OF AREA. POWER SUPPLY PROVIDES 24 VDC POWER TO EXISTING NOTIFICATION APPLIANCES IN BUILDING. DISCONNECT FROM EXISTING FIRE ALARM CONTROL PANEL IN ADJACENT BUILDING. REMOVE POWER SUPPLY, CABLES, BATTERIES, PRIMARY POWER SUPPLY AND NOTIFICATION APPLIANCE CIRCUITS. PHASE DEMOLITION OF NOTIFICATION APPLIANCES AND POWER SUPPLY TO OCCUR WHEN BUILDING IS NO LONGER OCCUPIED.
 - FIRE ALARM CONTROL PANEL WITH VOICE ALARM CAPABILITIES (FACP) FOR BOTH EXISTING AND NEW BUILDINGS. FACP SHALL BE ADDRESSABLE TYPE WITH CENTER OF CABINET AT 54" AFF. PANEL SHALL BE ADDRESSABLE TYPE WITH ADDITIONAL SPARE CAPACITY OF 20% AMP/FEEDS. SHALL HAVE SUFFICIENT CAPACITY FOR ALL SPEAKERS IN BUILDING. PROVIDE 120 VAC PRIMARY POWER SUPPLY AND 24 VAC SECONDARY POWER SUPPLY (BATTERIES) PER NFPA 72.
 - NOTIFICATION APPLIANCE POWER SUPPLIES AND AMPLIFIERS TO PROVIDE 24 VDC POWER TO ALL STROBES AND POWER/AMPLIFIER SIGNALS TO ALL SPEAKERS IN BUILDING. SURFACE MOUNT ON WALL OF FIRE RISER ROOM OR OTHER SUITABLE UTILITY ELECTRICAL ROOM. REQUIRED NUMBER AND LOCATION OF ALL SPEAKERS AND AMPLIFIERS TO BE DETERMINED BY CONTRACTOR. CONFIGURE POWER SUPPLIES/AMPLIFIERS TO PROVIDE SUFFICIENT VOLUME AND VISIBILITY SIGNALS TO ALL NOTIFICATION APPLIANCES IN BUILDING. PROVIDE 120 VAC PRIMARY POWER SUPPLY AND 24 VAC SECONDARY POWER SUPPLY (BATTERIES) PER NFPA 72.
 - FIRE ALARM ANNUNCIATOR PANEL AT MAIN BUILDING ENTRANCE. MOUNT ON RECESSED 48" x 48" AFF. ALL CONDUIT AND WIRING SHALL BE INSTALLED CONCEALED WITHIN WALL.
 - EXISTING FIRE SPRINKLER RISER TO BE DEMOLISHED. DISCONNECT WATER FLOW AND VALVE SUPERVISORY SWITCH FROM EXISTING FACP IN ADJACENT BUILDING AND ADJUST PROGRAMMING AS REQUIRED. REMOVE SWITCHES, CONDUIT, J-BOXES AND WIRING.
 - FIRE SPRINKLER RISERS (NEW) WITH WATER FLOW SWITCHES AND VALVE SUPERVISORY SWITCHES PROVIDED BY FIRE SPRINKLER INSTALLER. CONNECT SWITCHES TO NEW FACP TO PROVIDE ELECTRONIC MONITORING. PROGRAM ACTUATION OF WATER FLOW SWITCH AS A FIRE ALARM SIGNAL. PROGRAM ACTUATION OF VALVE SWITCH AS A SUPERVISORY SIGNAL.
 - EXISTING FIRE ALARM PULL STATION TO BE DEMOLISHED TO FACILITATE REMODEL OF AREA. DISCONNECT FROM EXISTING FIRE ALARM CONTROL PANEL IN ADJACENT BUILDING. REMOVE POWER SUPPLY, CABLES, BATTERIES, PRIMARY POWER SUPPLY AND NOTIFICATION APPLIANCE CIRCUITS. PHASE DEMOLITION OF PULL STATION TO OCCUR WHEN BUILDING IS NO LONGER OCCUPIED.
 - MANUAL FIRE ALARM PULL STATION. PROVIDE SINGLE MANUAL FIRE ALARM PULL STATION IN SECURITY AREA TO COMPLY WITH NFPA 72 3.8.5.1.2. PULL STATIONS AT BUILDING EXITS ACCORDING TO NFPA 72 3.8.5.1.2. PULL STATIONS AT BUILDING EXITS SHALL BE INSTALLED ABOVE FINISHED FLOOR LEVEL. PROGRAM ACTUATION OF PULL STATION AS A FIRE ALARM SIGNAL.
 - EXISTING SMOKE DETECTOR TO BE DEMOLISHED TO FACILITATE REMODEL OF AREA. DISCONNECT FROM EXISTING FIRE ALARM CONTROL PANEL IN ADJACENT BUILDING AND ADJUST PROGRAMMING AS REQUIRED. REMOVE DEVICE, J-BOX, CONDUIT AND WIRING. PHASE DEMOLITION OF DETECTOR TO OCCUR WHEN BUILDING IS NO LONGER OCCUPIED.
 - INSTALL SMOKE DETECTOR ABOVE FIRE ALARM CONTROL EQUIPMENT IN ADJACENT BUILDING PER NFPA 72 (4.4.4.4. PROGRAM ACTUATION OF SMOKE DETECTOR AS A FIRE ALARM SIGNAL).
 - INSTALL NEW DUCT MOUNTED SMOKE DETECTORS (LISTED COMPATIBLE WITH NEW FACP) ON THE SUPPLY AND/OR RETURN SIDE OF ALL AIR MOVEMENT SYSTEMS WITH A CAPACITY IN EXCESS OF 200 CFM. INSTALL WITH ADDRESSABLE RELAY AND INTERFACE WITH SECURITY SYSTEM TO RELEASE SECURED DOOR UPON ACTIVATION OF ANY FIRE ALARM INITIATING DEVICE IN BUILDING. CONNECT SMOKE DETECTORS WITH WIRING AND DAMPERS TO PROVIDE AIR VELOCITY EXCEEDS 300 FEET PER MINUTE. INSTALL PROGRAMMABLE RELAY TO CLOSE DAMPERS VIA INTERFACING WITH SECURITY SYSTEM. PROGRAM RELAY TO OPEN SMOKE DETECTORS OR ANY OTHER FIRE ALARM INITIATING DEVICE IN THE BUILDING.
 - FIRE-SMOKE DAMPER. COORDINATE WITH MECHANICAL DRAWINGS FOR REQUIRED NUMBER AND LOCATIONS. INSTALL SMOKE DETECTOR PER NFPA 72 7.5.3 TO INITIATE DAMPER CLOSURE. DUCT TYPE SMOKE DETECTOR PER NFPA 72 7.5.3 TO INITIATE DAMPER CLOSURE WHERE AIR VELOCITY DOES NOT EXCEED 300 FEET PER MINUTE AND DUCT TYPE SMOKE DETECTORS WITH WIRING AND DAMPERS TO PROVIDE AIR VELOCITY EXCEEDS 300 FEET PER MINUTE. INSTALL PROGRAMMABLE RELAY TO CLOSE DAMPERS VIA INTERFACING WITH SECURITY SYSTEM. PROGRAM RELAY TO OPEN SMOKE DETECTORS OR ANY OTHER FIRE ALARM INITIATING DEVICE IN THE BUILDING.
 - INSTALL SMOKE AND HEAT DETECTORS IN ELEVATOR EQUIPMENT AREA, LOBBIES AND SHUTTLE TO INITIATE EMERGENCY FUNCTIONS. PROVIDE FIRE ALARM SIGNALS TO INTERFACED WITH ELEVATOR CONTROLS TO INITIATE THE FOLLOWING FUNCTIONS:
A. PRIMARY RECALL
B. SECONDARY RECALL
C. ELEVATOR POWER SHUNT-TRIP
D. ELEVATOR POWER SHUNT-TRIP
 - DOORS AT REAR OF COURTROOMS AND IN CIRCULATION C100 ARE SECURED FOR AUTHORIZED USER ACCESS. PROVIDE FIRE ALARM INITIATING RELAY AND INTERFACED WITH SECURITY SYSTEM TO RELEASE SECURED DOOR UPON ACTIVATION OF ANY FIRE ALARM INITIATING DEVICE IN BUILDING. CONNECT ELECTRIC STRIKE THROUGH NORMALLY CLOSED CONTACTS OF RELAY AND INTERFACED WITH SECURITY SYSTEM TO OPEN UPON ACTIVATION OF ANY FIRE ALARM INITIATING DEVICE. RELAY SHALL NOT RESET UNTIL THE FIRE ALARM SYSTEM IS IN NORMAL CONDITION.
 - EXISTING FIRE ALARM NOTIFICATION APPLIANCE TO BE DEMOLISHED TO FACILITATE REMODEL OF AREA. DISCONNECT FROM EXISTING FIRE ALARM CONTROL PANEL IN ADJACENT BUILDING. REMOVE POWER SUPPLY, CABLES, BATTERIES, PRIMARY POWER SUPPLY AND NOTIFICATION APPLIANCE CIRCUITS. PHASE DEMOLITION OF NOTIFICATION APPLIANCE TO OCCUR WHEN BUILDING IS NO LONGER OCCUPIED.
 - FURNISH AND INSTALL NEW FIRE ALARM NOTIFICATION APPLIANCES (SPEAKERS, STROBES OR SPEAKER-STROBES) THROUGHOUT BUILDING TO CONFORM TO OCCUPANT NOTIFICATION EMERGENCY ALARM SYSTEM REQUIREMENTS OF NFPA 72 AND THE INTERNATIONAL BUILDING CODE. CONNECT DEVICES TO FACP. PROVIDE AMPLIFIERS AND NOTIFICATION CIRCUITRY THROUGHOUT BUILDING. NUMBER, LOCATION AND WIRING SHALL MEET THE REQUIREMENTS OF CODES AND STANDARDS LISTED IN NOTE 1 ABOVE AND SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
 - PROVIDE PROTECTIVE PLASTIC ENCLOSURES FOR NOTIFICATION APPLIANCES LOCATED IN AREAS FREQUENTLY USED BY INCREASED INDIVIDUALS.
 - FIRE SPRINKLER CONTROL VALVE WITH SUPERVISORY SWITCH TO ISOLATE FIRE SPRINKLER IN HOLDING CELL AREAS PROVIDED BY FIRE SPRINKLER INSTALLER. CONNECT RELAY TO NEW FACP TO PROVIDE ELECTRONIC MONITORING.
 - FIRE DOOR WITH MAGNETIC HOLD-OPEN DEVICE. INSTALL SMOKE DETECTORS ON BOTH SIDE OF FIRE DOOR IN ACCORDANCE WITH NFPA 72 7.7.5.6. INSTALL 24VDC POWER SUPPLY TO MAGNETIC HOLD-OPEN DEVICE. PROGRAM RELAY TO OPEN THROUGH NORMALLY CLOSED CONTACTS OF RELAY. PROGRAM RELAY TO OPEN CUTTING POWER TO MAGNETS AND RELEASING FIRE DOOR UPON ACTIVATION OF SMOKE DETECTOR ON EITHER SIDE OF DOOR.

- ### GENERAL NOTES - FIRE ALARM
- THE FIRE-EMERGENCY VOICE ALARM SYSTEM SHALL BE DESIGNED TO COMPLY WITH THE APPLICABLE PROVISIONS OF THE FOLLOWING CODES AND STANDARDS:
A. INTERNATIONAL BUILDING CODE (IBC) - 2018 EDITION
B. INTERNATIONAL FIRE CODE (IFC) - 2018 EDITION
C. NFPA 72 NATIONAL ELECTRICAL CODE (NEC) - 2017 EDITION
D. NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE - 2016 EDITION
E. NFPA 101 LIFE SAFETY CODE - 2018 EDITION
 - FURNISH ALL MATERIALS, EQUIPMENT AND SUPPLIES AND PERFORM ALL WORK AND OPERATIONS TO DESIGN, CONSTRUCT AND MAINTAIN FUNCTIONAL FIRE-EMERGENCY VOICE ALARM SYSTEM TO PROVIDE FIRE PROTECTION OF ALL AREAS OF THE BUILDING. THE SYSTEM SHALL MEET THE REQUIREMENTS OF CODES AND STANDARDS LISTED IN NOTE 1 ABOVE AND SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
 - THE DESIGN OF THE FIRE-EMERGENCY VOICE ALARM SYSTEM CONTAINED ON THESE DRAWINGS IS CONCEPTUAL IN NATURE AND IS BASED ON INFORMATION PROVIDED IN THE DESIGN REQUIREMENTS. THE DRAWINGS SHOW THE APPROXIMATE LOCATIONS AND MUST BE ADJUSTED WHERE REQUIRED TO MATCH ACTUAL BUILDING CONDITIONS. INSTALLING CONTRACTOR SHALL BE RESPONSIBLE TO COMPLETE THE DESIGN OF THE FIRE ALARM SYSTEM INCLUDING BATTERY AND VOLTAGE DROP CALCULATIONS.
 - ALL DEVICES AND MATERIALS USED FOR THE INSTALLATION OF THE FIRE-EMERGENCY VOICE ALARM SYSTEM SHALL BE LISTED FOR APPROVED USE IN THE FIRE PROTECTION SYSTEMS.
 - ALL WIRING USED IN THE FIRE-EMERGENCY VOICE ALARM SYSTEM INSTALLATION SHALL BE MINIMUM 18-GAUGE 300V FPL INSTALLED IN EMT OR FLEXIBLE CONDUIT WHERE WIRING IS RUN IN SPACES ABOVE CEILING OR IN TRUSS SPACE. CONDUIT IS NOT REQUIRED.
 - CONTRACTOR SHALL PREPARE AND SUBMIT COMPLETE SHOP DRAWINGS, EQUIPMENT DATA SHEETS, SEQUENCE OF OPERATION, AND WIRING DIAGRAMS INCLUDING DETAILS AND BATTERY VOLTAGE DROP CALCULATIONS IN ACCORDANCE WITH NFPA 72 FOR REVIEW AND APPROVAL TO THE LOCAL FIRE DEPARTMENT. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS, EQUIPMENT AND SUPPLIES. SHOP DRAWINGS SUBMITTALS SHALL MEET ALL APPLICABLE REQUIREMENTS OF NFPA 72 AND LOCAL FIRE DEPARTMENT REQUIREMENTS.
 - THE POWER SUPPLY (UN SWITCHED) TO THE FIRE ALARM CONTROL PANEL SHALL BE A DEDICATED BRANCH CIRCUIT PROVIDED FROM A NEARBY POWER DISTRIBUTION PANEL. SEE ELECTRICAL PLANS FOR PANEL LOCATION AND CIRCUIT DESIGNATION.
 - FIRE-EMERGENCY VOICE ALARM INITIATING DEVICES SHALL ACTIVATE ALL LOCAL NOTIFICATION APPLIANCES. SEND AN ALARM ALARM AT THE FIRE ALARM ANNUNCIATOR PANEL AND TRANSMIT A FIRE ALARM SIGNAL TO THE REMOTE MONITORING STATION. SUPERVISORY DEVICES SHALL SOUND AN ALARM AT THE FIRE ALARM ANNUNCIATOR PANEL AND TRANSMIT A SUPERVISORY SIGNAL TO THE REMOTE MONITORING STATION.
FIRE ALARM DEVICES: SMOKE/HEAT DETECTORS, PULL STATIONS, FIRE SPRINKLER WATER FLOW SWITCH
SUPERVISORY DEVICES: DUCT SMOKE DETECTORS, FIRE SPRINKLER VALVE SUPERVISION
 - CONTRACTOR SHALL CONNECT FIRE-EMERGENCY VOICE ALARM SYSTEM TO A SUITABLE CELLULAR DIALER FURNISHED AND INSTALLED BY CONTRACTOR TO RELAY FIRE ALARM SIGNALS FROM PROTECTED PREMISE TO CENTRAL MONITORING STATION SELECTED BY OWNER.
 - PROVIDE SECONDARY POWER SUPPLY (BATTERIES) PER NFPA 72. BATTERIES SHALL BE LEAD-ACID TYPE SIZED TO OPERATE THE FIRE ALARM SYSTEM IN NORMAL SUPERVISORY CONDITION FOR 24-HOURS WITH ADEQUATE RESERVE TO OPERATE SYSTEM ALARM CONDITION FOR AN ADDITIONAL 30-MINUTES.
 - INITIATING DEVICE CIRCUIT WIRING SHALL BE CLASS B. DATA LOOP SHALL BE CLASS A.
 - PROTECTED PREMISE FIRE SAFETY FUNCTIONS SHALL BE PROGRAMMABLE OUTPUT MODULES WITH RELAY CONTACTS TO INITIATE REQUIRED FIRE SAFETY FUNCTIONS AND INTERFACED WITH SECURITY SYSTEM TO RELEASE SECURED DOOR UPON ACTIVATION OF ANY FIRE ALARM INITIATING DEVICE IN BUILDING. UNLOCK, ETC. OUTPUT MODULES SHALL BE INSTALLED WITHIN 36" OF DEVICE OR CIRCUIT CONTROLLER.
 - NOTIFICATION APPLIANCES: PROVIDE AUDIBLE (VOICE) AND VISUAL NOTIFICATION APPLIANCES THROUGHOUT BUILDING WHERE INDICATED ON PLANS. NOTIFICATION APPLIANCES SHALL BE SPEAKER-STROBE TYPE DEVICES WITH ADEQUATE LIGHT INTENSITY (75 CD) AND VOLUME (100 DB) WITH A SUFFICIENT VOLUME OF SPEAKERS TO BE SUFFICIENT TO PROVIDE A SOUND LEVEL (ALERT TONE) OF 15 DB ABOVE AMBIENT AND SUFFICIENT TO BE HEARD BY ALL OCCUPANTS. VOLUME OF SPEAKERS IN ALL OCCUPIED AREAS: VOICE INTELLIGIBILITY IS NOT REQUIRED IN MECHANICAL SPACES, STAIRWELL INHABITING EXITS OR PRIVATE OFFICES. VISUAL ALARMS SHALL BE PROVIDED THROUGHOUT ALL PUBLIC AND COMMON AREAS OF EACH BUILDING INCLUDING AREAS WITH POSSIBLE OCCUPANCY HEARING IMPAIRED PERSONS. STROBES SHALL FLASH IN SYNCHRONIZATION. NOTIFICATION APPLIANCES MAY BE WALL OR CEILING MOUNT. LOCATE WALL MOUNT DEVICES BETWEEN 5' AND 9' ABOVE FLOOR.
 - NOTIFICATION APPLIANCE ZONING: PROVIDE A SEPARATE ZONE OF NOTIFICATION APPLIANCES FOR EACH FLOOR LEVEL OF BUILDING. CONFIGURE VOICE ALARM CONTROL EQUIPMENT TO ALLOW MANUAL ZONING TO SEPARATE ZONES (BASEMENT, LEVEL 1 AND LEVEL 2) AS WELL AS TO THE ENTIRE BUILDING. AUTOMATIC LOCAL ALARM MESSAGES SHALL BE TRANSMITTED THROUGHOUT THE ENTIRE BUILDING WHERE FIRE ALARM INITIATING DEVICES HAVE ACTIVATED.

Theron W. Ward Judicial Building
Remodel & Expansion
427 Shoshone St N Twin Falls, ID

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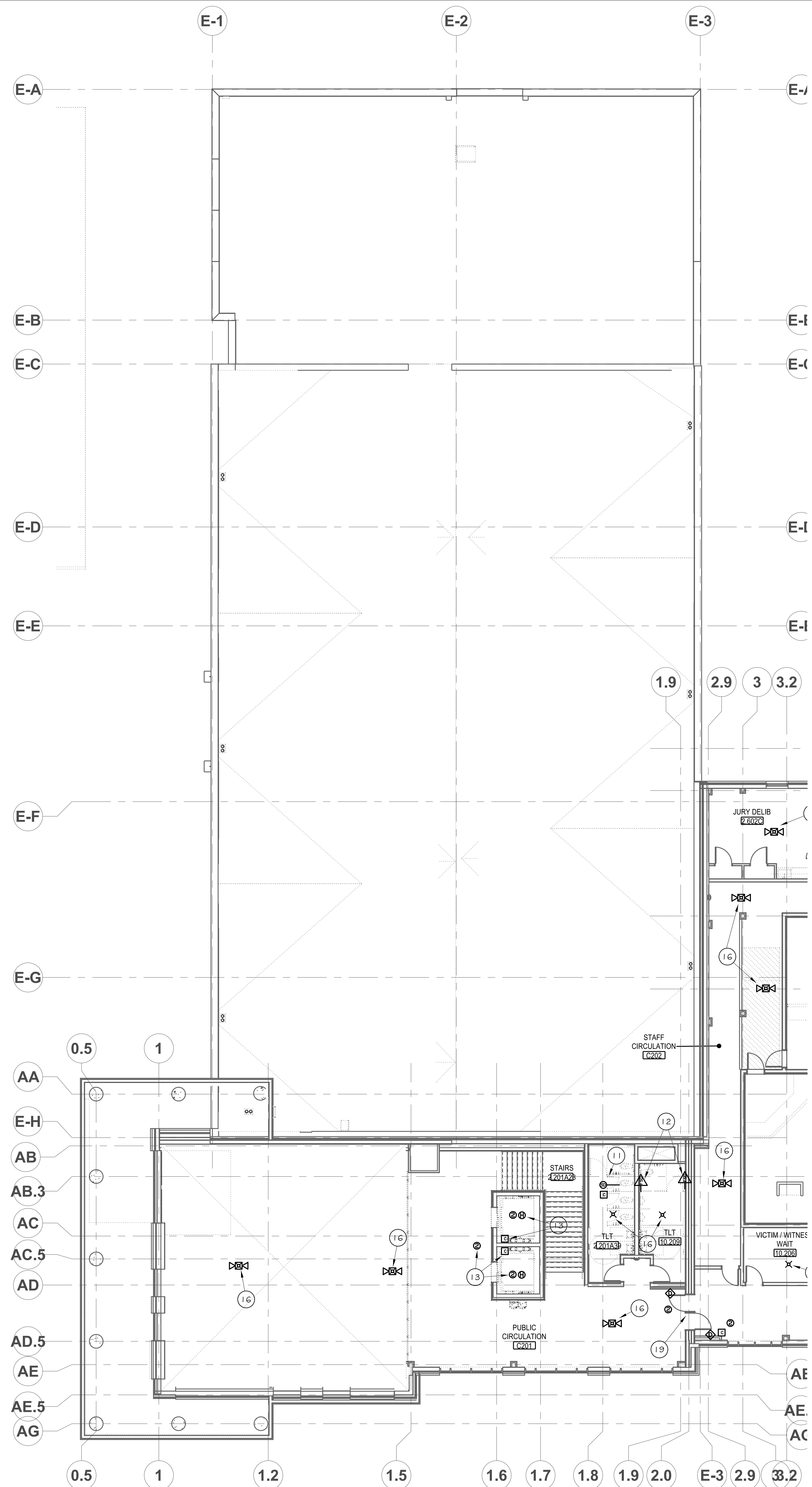
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SHEET TITLE
FIRE ALARM PLAN
LEVEL 1
AREA A

SHEET
FA11A

ORIGINAL SHEET SIZE
36" x 48"

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1 FIRE ALARM PLAN - LEVEL 2 AREA A
1/8" = 1'-0"

FIRE ALARM LEGEND	
SYMBOL	DESCRIPTION
	FIRE/EMERGENCY VOICE ALARM CONTROL PANEL
	FIRE/EMERGENCY VOICE ALARM ANNUNCIATOR PANEL
	FIRE ALARM CONTROL PANEL WITH VOICE ALARM CAPABILITIES (FACP) FOR BOTH EXISTING AND NEW BUILDINGS
	SMOKE DETECTOR
	HEAT DETECTOR
	FIRE ALARM PULL STATION
	FIRE SPRINKLER VALVE SUPERVISORY SWITCH
	FIRE SPRINKLER WATER FLOW SWITCH
	DUCT MOUNTED SMOKE DETECTOR
	FIRE/SMOKE DAMPER
	FIRE ALARM RELAY
	MAGNETIC FIRE DOOR HOLD-OPEN
	FIRE/EMERGENCY VOICE ALARM SPEAKER/STROBE - CEILING
	FIRE/EMERGENCY VOICE ALARM STROBE
	FIRE/EMERGENCY VOICE ALARM SPEAKER/STROBE - WALL

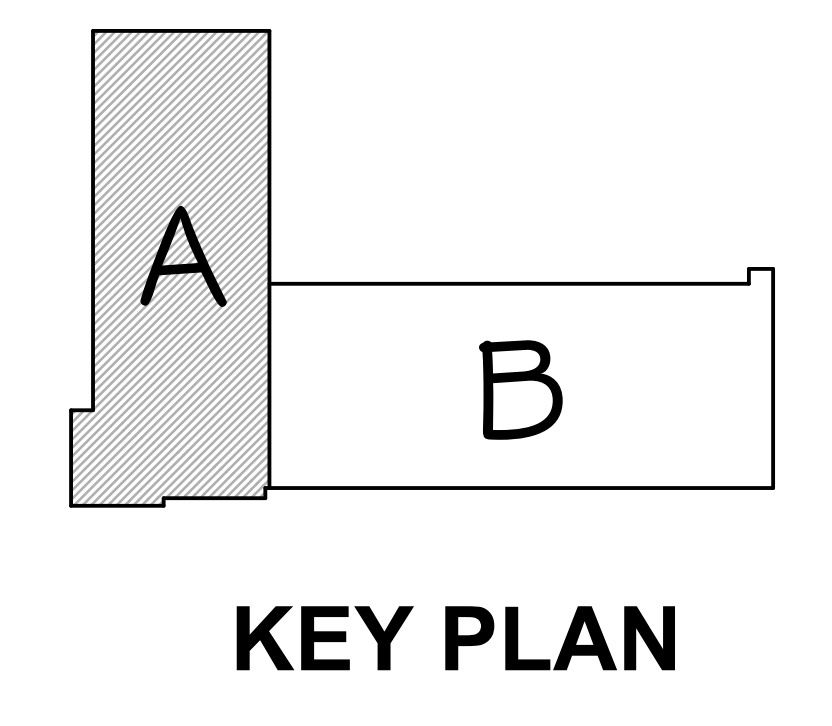
- ### Keynote Legend - Fire Alarm
- EXISTING FIRE ALARM NOTIFICATION APPLIANCE POWER SUPPLY TO BE DEMOLISHED TO FACILITATE REMODEL OF AREA. POWER SUPPLY PROVIDES 24 VDC POWER TO EXISTING NOTIFICATION APPLIANCES IN BUILDING. DISCONNECT FROM EXISTING FIRE ALARM CONTROL PANEL IN ADJACENT BUILDING. REMOVE POWER SUPPLY, BATTERIES, PRIMARY POWER CIRCUITS, AND NOTIFICATION APPLIANCE CIRCUITS. PHASE DEMOLITION OF NOTIFICATION APPLIANCES AND POWER SUPPLY TO OCCUR WHEN BUILDING IS NO LONGER OCCUPIED.
 - FIRE ALARM CONTROL PANEL WITH VOICE ALARM CAPABILITIES (FACP) FOR BOTH EXISTING AND NEW BUILDINGS. FACP SHALL BE ADDRESSABLE TYPE WITH CENTER OF CABINET AT 5'4" AFF. PANEL SHALL BE ADDRESSABLE TYPE WITH ADDITIONAL SPARE CAPACITY OF 20%. AMP/FEEDS SHALL HAVE SUFFICIENT CAPACITY FOR ALL SPEAKERS IN BUILDING WITH AN ADDITIONAL SPARE CAPACITY OF 20%. PROVIDE 120 VAC PRIMARY POWER SUPPLY AND 24 VDC SECONDARY POWER SUPPLY (BATTERIES) PER NFPA 72.
 - NOTIFICATION APPLIANCE POWER SUPPLIES AND AMPLIFIERS TO PROVIDE 24 VDC POWER TO ALL STROBES AND POWER/AUDIO SIGNALS TO ALL SPEAKERS IN BUILDING. SURFACE MOUNT ON WALL OF FIRE RISER ROOM OR OTHER SUITABLE UTILITY ELECTRICAL ROOM. PROVIDE NUMBER AND LOCATION OF ALL SPEAKERS. SUPPLIES/AMPLIFIERS TO BE DETERMINED BY CONTRACTOR. CONFIGURE POWER SUPPLIES AND AMPLIFIERS TO PROVIDE 24 VDC POWER TO ALL SPEAKERS IN BUILDING. NOTIFICATION APPLIANCES IN BUILDING PROVIDE 120 VAC PRIMARY POWER SUPPLY AND 24 VDC SECONDARY POWER SUPPLY (BATTERIES) PER NFPA 72.
 - FIRE ALARM ANNUNCIATOR PANEL AT MAIN BUILDING ENTRANCE. MOUNT ON RECESSED 80% AT 5'4" AFF. ALL CONDUIT AND WIRING SHALL BE INSTALLED CONCEALED WITHIN WALL.
 - EXISTING FIRE SPRINKLER RISER TO BE DEMOLISHED. DISCONNECT WATER FLOW AND VALVE SUPERVISORY SWITCHES FROM EXISTING FACP (IN ADJACENT BUILDING) AND ADJUST PROGRAMMING AS REQUIRED. REMOVE SWITCHES, CONDUIT, J-BOXES AND WIRING.
 - FIRE SPRINKLER RISERS (NEW) WITH WATER FLOW SWITCHES AND VALVE SUPERVISORY SWITCHES PROVIDED BY FIRE SPRINKLER INSTALLER. CONNECT SWITCHES TO NEW FACP TO PROVIDE ELECTRONIC MONITORING. PROGRAM ACTIVATION OF WATER FLOW SWITCH AS A SUPERVISORY SIGNAL.
 - EXISTING FIRE ALARM PULL STATION TO BE DEMOLISHED TO FACILITATE REMODEL OF AREA. DISCONNECT FROM EXISTING FIRE ALARM CONTROL PANEL IN ADJACENT BUILDING. REMOVE PULL STATION AND WIRING. PHASE DEMOLITION OF PULL STATION TO OCCUR WHEN BUILDING IS NO LONGER OCCUPIED.
 - MANUAL FIRE ALARM PULL STATION. PROVIDE SINGLE MANUAL FIRE ALARM PULL STATION IN SECURITY AREA TO COMPLY WITH NFPA 72 23.8.5.2. PULL STATIONS AT BUILDING EXITS ARE NOT REQUIRED IN ACCORDANCE WITH EXCEPTION TO BP-907.2.1. INSTALL PULL STATION AT ABOVE FINISHED FLOOR LEVEL. PROGRAM ACTUATION OF PULL STATION AS A FIRE ALARM SIGNAL.
 - EXISTING SMOKE DETECTOR TO BE DEMOLISHED TO FACILITATE REMODEL OF AREA. DISCONNECT FROM EXISTING FIRE ALARM CONTROL PANEL IN ADJACENT BUILDING AND ADJUST PROGRAMMING AS REQUIRED. REMOVE DEVICE. J-BOX, CONDUIT AND WIRING. PHASE DEMOLITION OF DETECTOR TO OCCUR WHEN BUILDING IS NO LONGER OCCUPIED.
 - INSTALL SMOKE DETECTOR ABOVE FIRE ALARM CONTROL EQUIPMENT IN ADJACENT BUILDING IN NFPA 72 (14.4). PROGRAM ACTIVATION OF SMOKE DETECTOR AS A FIRE ALARM SIGNAL.
 - INSTALL NEW DUCT MOUNTED SMOKE DETECTORS (LISTED COMPATIBLE WITH NEW FACP) ON THE SUPPLY AND/OR RETURN SIDE OF ALL AIR MOVEMENT SYSTEMS WITH A CAPACITY IN EXCESS OF 2,000 CFM. NUMBER AND LOCATION OF ALL DETECTORS AND CAPACITY OF ALL AIR MOVEMENT SYSTEMS. INSTALL CONTROL RELAY AND INTERFACE WITH AIR MOVEMENT SYSTEM CONTROLLER. PROGRAM RELAY TO SHUT DOWN AIR HANDLER UPON OPERATION OF DUCT SMOKE DETECTOR OR ANY OTHER FIRE ALARM INITIATING DEVICE IN BUILDING.
 - FIRE/SMOKE DAMPER. COORDINATE WITH MECHANICAL DRAWINGS FOR REQUIRED NUMBER AND LOCATIONS. INSTALL SMOKE DETECTOR PER NFPA 72 7.7.5.3 TO INITIATE DAMPER OPERATION. USE SPOT TYPE SMOKE DETECTOR WITH DUCT WHERE AIR VELOCITY DOES NOT EXCEED 300 FEET PER MINUTE AND DUCT TYPE SMOKE DETECTOR WITH HOLDING AND SAMPLING TUBES WHERE AIR VELOCITY EXCEEDS 300 FEET PER MINUTE. INSTALL PROGRAMMABLE RELAY TO CLOSE DAMPERS VIA INTERFACING OF POWER SUPPLY TO DAMPERS UPON ACTIVATION OF SMOKE DETECTOR OR ANY OTHER FIRE ALARM INITIATING DEVICE IN THE BUILDING.
 - INSTALL SMOKE AND HEAT DETECTORS IN ELEVATOR EQUIPMENT AREA, LOBBIES AND SHUTT TO INITIATE EMERGENCY FUNCTIONS. PROVIDE FIRE ALARM SYSTEM RELAYS TO INTERFACE WITH ELEVATOR CONTROLS TO INITIATE THE FOLLOWING FUNCTIONS:
 - PRIMARY RECALL
 - SECONDARY RECALL
 - ELEVATOR POWER SHUNT-TRIP
 - ELEVATOR POWER SHUNT-TRIP
 - DOORS AT REAR OF COURTROOMS AND IN CIRCULATION C100 ARE SECURED FOR AUTHORIZED PERSONS AND NOT AVAILABLE FOR PUBLIC USE UNDER NORMAL OPERATIONS. OCCUPANT LOAD OF COURTROOMS EXCEEDS 50 OCCUPANTS REQUIRING A SECOND EXIT PER IBC TABLE 1002.1.1. INSTALL ADDRESSABLE RELAY AND INTERFACE WITH SECURITY SYSTEM TO RELEASE SECURED DOOR UPON ACTIVATION OF ANY FIRE ALARM INITIATING DEVICE IN THE BUILDING. CONTACT ELECTRIC STRIKE THROUGH NORMALLY CLOSED CONTACTS OF RELAY AND PROGRAM RELAY TO SHUT DOWN SECURITY SYSTEM UPON ACTIVATION OF FIRE ALARM INTERRUPTING POWER SUPPLY TO SECURITY HARDWARE AND RELEASING DOOR. RELAY SHALL NOT RESET UNTIL THE FIRE ALARM SYSTEM IS RESTORED TO NORMAL CONDITION.
 - EXISTING FIRE ALARM NOTIFICATION APPLIANCE TO BE DEMOLISHED TO FACILITATE REMODEL OF AREA. DISCONNECT FROM EXISTING FIRE ALARM CONTROL PANEL IN ADJACENT BUILDING. REMOVE APPLIANCE AND WIRING. PHASE DEMOLITION OF NOTIFICATION APPLIANCE TO OCCUR WHEN BUILDING IS NO LONGER OCCUPIED.
 - FURNISH AND INSTALL NEW FIRE ALARM NOTIFICATION APPLIANCES (SPEAKERS, STROBES OR SPEAKER/STROBES) THROUGHOUT BUILDING TO CONFORM TO OCCUPANT NOTIFICATION EMERGENCY VOICE ALARM SYSTEM REQUIREMENTS OF NFPA 72 AND THE INTERNATIONAL BUILDING CODE. CONNECT DEVICES TO FACP. PROVIDE AMPLIFIERS TO NOTIFICATION CIRCUIT POWER SUPPLIES. NUMBER, LOCATION AND WIRING LIMIT VOLTAGE DROP TO 20% MAXIMUM AND SPEAKER SIGNAL LOSS TO A MAXIMUM OF -1.5 DB.
 - PROVIDE PROTECTIVE PLASTIC ENCLOSURES FOR NOTIFICATION APPLIANCES LOCATED IN AREAS FREQUENTLY OCCUPIED BY INDIVIDUALS.
 - FIRE SPRINKLER CONTROL VALVE WITH SUPERVISORY SWITCH TO ISOLATE FIRE SPRINKLER IN HOLDING CELL AREAS PROVIDED BY FIRE SPRINKLER INSTALLER. CONNECT VALVE TO NEW FACP TO PROVIDE ELECTRONIC MONITORING.
 - FIRE DOOR WITH MAGNETIC HOLD-OPEN DEVICE. INSTALL SMOKE DETECTORS ON BOTH SIDE OF FIRE DOOR IN ACCORDANCE WITH NFPA 72 7.7.5.6. INSTALL 24VDC POWER SUPPLY TO MAGNETIC HOLD-OPEN DEVICE. PROGRAM RELAY TO OPEN INSTALL PROGRAMMABLE FIRE ALARM CONTROL RELAY WITH 24VDC POWER WIRED THROUGH NORMALLY CLOSED CONTACTS OF RELAY. PROGRAM RELAY TO OPEN CUTTING POWER TO MAGNETS AND RELEASING FIRE DOOR UPON ACTIVATION OF SMOKE DETECTOR ON OTHER SIDE OF DOOR.

GENERAL NOTES - FIRE ALARM

- THE FIRE/EMERGENCY VOICE ALARM SYSTEM SHALL BE DESIGNED TO COMPLY WITH THE APPLICABLE PROVISIONS OF THE FOLLOWING CODES AND STANDARDS:
 - INTERNATIONAL BUILDING CODE (IBC) - 2018 EDITION
 - INTERNATIONAL FIRE CODE (IFC) - 2018 EDITION
 - NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE - 2018 EDITION
 - NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE - 2016 EDITION
 - NFPA 72 LIFE SAFETY CODE - 2018 EDITION
- FURNISH ALL MATERIALS, EQUIPMENT AND SUPPLIES AND PERFORM ALL WORK AND OPERATIONS TO DESIGN, CONSTRUCT AND MAKE FUNCTIONAL FIRE/EMERGENCY VOICE ALARM SYSTEM TO PROVIDE FIRE PROTECTION OF ALL AREAS OF THE BUILDING. THE SYSTEM SHALL MEET THE REQUIREMENTS OF CODES AND STANDARDS LISTED IN NOTE 1 ABOVE AND SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
- THE DESIGN OF THE FIRE/EMERGENCY VOICE ALARM SYSTEM CONTAINED ON THESE DRAWINGS IS CONCEPTUAL IN NATURE AND IS BASED ON INFORMATION PROVIDED IN THE DESIGN REQUIREMENT DRAWINGS. THE LOCATIONS SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND MUST BE ADJUSTED WHERE REQUIRED TO MATCH ACTUAL BUILDING CONDITIONS. INSTALLING CONTRACTOR RESPONSIBLE TO COMPLETE VOLTAGE DROP CALCULATIONS. THE FIRE ALARM SYSTEM INCLUDING BATTERY AND VOLTAGE DROP CALCULATIONS.
- ALL DEVICES AND MATERIALS USED FOR THE INSTALLATION OF THE FIRE/EMERGENCY VOICE ALARM SYSTEM SHALL BE LISTED OR APPROVED FOR USE IN FIRE PROTECTION SYSTEMS.
- ALL WIRING USED IN THE FIRE/EMERGENCY VOICE ALARM SYSTEM INSTALLATION SHALL BE MINIMUM 18-GAUGE 300V FPL INSTALLED IN EMT OR FLEXIBLE CONDUIT WHERE WIRING WILL BE RUN IN SPACES ABOVE CEILINGS OR IN TRUSS SPACE. CONDUIT IS NOT REQUIRED.
- CONTRACTOR SHALL PREPARE AND SUBMIT COMPLETE SHOP DRAWINGS, EQUIPMENT DATA SHEETS, SEQUENCE OF OPERATIONAL SYSTEM RISES, DEVICE MOUNTING DETAILS AND BATTERY VOLTAGE DROP CALCULATIONS IN ACCORDANCE WITH NFPA 72 FOR NEW AND REPAIRING TO THE LOCAL FIRE DEPARTMENT. PROVIDE ALL CONNECTING WIRING AND THE DIVER FOR LOCAL FIRE DEPARTMENT. PROVIDE ALL CONNECTING EQUIPMENT. SHOP DRAWINGS SUBMITTALS SHALL MEET ALL APPLICABLE REQUIREMENTS OF NFPA 72 AND LOCAL FIRE DEPARTMENT REQUIREMENTS.
- THE POWER SUPPLY (UN SWITCHED) TO THE FIRE ALARM CONTROL PANEL SHALL BE A DEDICATED BRANCH CIRCUIT PROVIDED FROM A NEARBY POWER DISTRIBUTION PANEL. SEE ELECTRICAL PLANS FOR PANEL LOCATION AND CIRCUIT DESIGNATION.
- FIRE/EMERGENCY VOICE ALARM INITIATING DEVICES SHALL ACTIVATE ALL LOCAL NOTIFICATION APPLIANCES. SOUND AN AUDIBLE ALARM AT THE FIRE ALARM ANNUNCIATOR PANEL AND TRANSMIT A FIRE ALARM SIGNAL TO THE REMOTE MONITORING STATION. SUPERVISORY DEVICES SHALL SOUND AN AUDIBLE ALARM AT THE FIRE ALARM ANNUNCIATOR PANEL AND TRANSMIT A SUPERVISORY SIGNAL TO THE REMOTE MONITORING STATION.

FIRE ALARM DEVICES: SMOKE/HEAT DETECTORS, PULL STATIONS, FIRE SPRINKLER WATER FLOW SWITCH

SUPERVISORY DEVICES: DUCT SMOKE DETECTORS, FIRE SPRINKLER VALVE SUPERVISORY
- CONTRACTOR SHALL CONNECT FIRE/EMERGENCY VOICE ALARM SYSTEM TO A SUITABLE CELLULAR DIALER FURNISHED AND INSTALLED BY CONTRACTOR TO RELAY FIRE ALARM SIGNALS FROM PROTECTED PREMISE TO CENTRAL MONITORING STATION SELECTED BY OWNER.
- PROVIDE SECONDARY POWER SUPPLY (BATTERIES) PER NFPA 72. BATTERIES SHALL BE LEAD ACID TYPE SIZED TO OPERATE THE FIRE ALARM SYSTEM IN NORMAL SUPERVISORY CONDITION FOR 24-HOURS WITH ADEQUATE RESERVE TO OPERATE SYSTEM ALARM CONDITION FOR AN ADDITIONAL 30 MINUTES.
- INITIATING DEVICE CIRCUIT WIRING SHALL BE CLASS B. NOTIFICATION APPLIANCE CIRCUIT WIRING SHALL BE CLASS B. DATA LOOP SHALL BE CLASS A.
- PROTECTED PREMISE FIRE SAFETY FUNCTIONS SHALL BE PROGRAMMABLE OUTPUT MODULES WITH RELAY CONTACTS TO INITIATE REQUIRED FIRE SAFETY FUNCTIONS UPON ACTIVATION OF FIRE ALARM SIGNALS. THESE FUNCTIONS SHALL INCLUDE: SECURE DOOR UNLOCK, ETC. OUTPUT MODULES SHALL BE INSTALLED WITHIN 36" OF DEVICE OR CIRCUIT CONTROLLER.
- NOTIFICATION APPLIANCES: PROVIDE AUDIBLE (VOICE) AND VISUAL NOTIFICATION APPLIANCES THROUGHOUT BUILDING WHERE INDICATED ON PLANS. NOTIFICATION APPLIANCES SHALL BE SPEAKER/STROBE TYPE DEVICES WITH ADDRESSABLE IDENTIFIER (EACH 100' MAXIMUM VOLUME BEING 100' MAXIMUM). VOLUME OF SPEAKERS AMBUSH AND SUPERVISORY DEVICES SHALL BE SUFFICIENT TO PROVIDE A SOUND LEVEL (ALERT TONE) OF 15 DB ABOVE AMBIENT AND SUFFICIENT TO PROVIDE A SOUND LEVEL (ALERT TONE) OF 15 DB ABOVE IN ALL OCCUPIED AREAS. VOICE INTELLIGIBILITY IS NOT REQUIRED IN MECHANICAL SPACES, STORAGE INHATE HOLDING CELL OR PRIVATE OFFICES. VISUAL ALARMS SHALL BE PROVIDED THROUGHOUT ALL PUBLIC AND COMMON AREAS OF EACH BUILDING INCLUDING AREAS WITH POSSIBLE OCCUPANCY HEARING IMPAIRED PERSONS. STROBES SHALL FLASH IN SYNCHRONIZATION. NOTIFICATION APPLIANCES MAY BE WALL OR CEILING MOUNT. LOCATE WALL MOUNT DEVICES BETWEEN 5' AND 9' ABOVE FLOOR.
- NOTIFICATION APPLIANCE ZONING: PROVIDE A SEPARATE ZONE OF NOTIFICATION APPLIANCES FOR EACH FLOOR LEVEL OF BUILDING. CONFIGURE VOICE ALARM CONTROL EQUIPMENT TO ALLOW MANUAL ZONING TO THREE SEPARATE ZONES (BASEMENT, LEVEL 1 AND LEVEL 2) AS WELL AS TO THE ENTIRE BUILDING. AUTOMATIC LOCAL ALARM MESSAGES SHALL BE TRANSMITTED THROUGHOUT THE ENTIRE BUILDING WHERE FIRE ALARM INITIATING DEVICES HAVE ACTIVATED.



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Permit Set

PROJECT	DATE
21403.000	04-03-23
DRAWN	CHECKED
NMJ	GTJ

REVISED

SHEET TITLE
FIRE ALARM PLAN
LEVEL 2
AREA A

SHEET
FA12A

ORIGINAL SHEET SIZE
36" x 48"

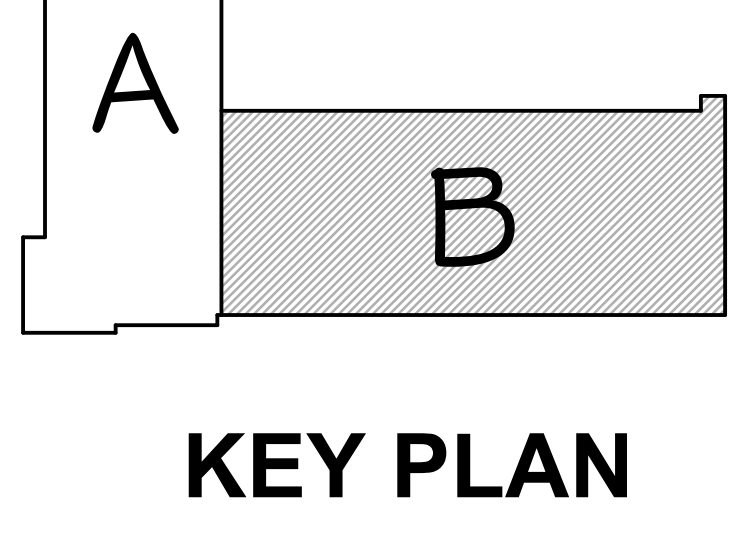
FIRE ALARM LEGEND	
SYMBOL	DESCRIPTION
	FIRE EMERGENCY VOICE ALARM CONTROL PANEL
	FIRE EMERGENCY VOICE ALARM ANNUNCIATOR PANEL
	FIRE ALARM CONTROL PANEL WITH VOICE ALARM CAPABILITIES (FACP) FOR BOTH EXISTING BUILDING AND EXPANSION. SUPPLY AND MOUNT ON WALL WITH CENTER OF CABINET AT 5'4" AFF. PANEL SHALL BE ADDRESSABLE TYPE WITH ADDITIONAL SPARE CAPACITY OF 20% AMP/FEAS/IS SHALL HAVE SUFFICIENT CAPACITY FOR ALL SPEAKERS IN BUILDING WITH AN ADDITIONAL SPARE CAPACITY OF 20%. PROVIDE 120 VAC PRIMARY POWER SUPPLY AND 24 VAC SECONDARY POWER SUPPLY (BATTERIES) PER NFPA 72.
	SMOKE DETECTOR
	HEAT DETECTOR
	FIRE ALARM PULL STATION
	FIRE SPRINKLER VALVE SUPERVISORY SWITCH
	DUCT MOUNTED SMOKE DETECTOR
	FIRE SMOKE DAMPER
	FIRE ALARM RELAY
	MAGNETIC FIRE DOOR HOLD-OPEN
	FIRE EMERGENCY VOICE ALARM SPEAKER/STROBE - CEILING
	FIRE EMERGENCY VOICE ALARM STROBE
	FIRE EMERGENCY VOICE ALARM SPEAKER/STROBE - WALL

- ### Keynote Legend - Fire Alarm
- EXISTING FIRE ALARM NOTIFICATION APPLIANCE POWER SUPPLY TO BE DEMOLISHED TO FACILITATE REMODEL OF AREA. POWER SUPPLY PROVIDES 24 VDC POWER TO EXISTING FIRE ALARM CONTROL PANEL IN ADJACENT BUILDING. DISCONNECT EXISTING FIRE ALARM CONTROL PANEL IN ADJACENT BUILDING. REMOVE POWER SUPPLY, CABINET, BATTERIES, PRIMARY POWER SUPPLIES AND NOTIFICATION APPLIANCE CIRCUITS. PHASE DEMOLITION OF NOTIFICATION APPLIANCES AND POWER SUPPLY TO OCCUR WHEN BUILDING IS NO LONGER OCCUPIED.
 - FIRE ALARM CONTROL PANEL WITH VOICE ALARM CAPABILITIES (FACP) FOR BOTH EXISTING BUILDING AND EXPANSION. SUPPLY AND MOUNT ON WALL WITH CENTER OF CABINET AT 5'4" AFF. PANEL SHALL BE ADDRESSABLE TYPE WITH ADDITIONAL SPARE CAPACITY OF 20% AMP/FEAS/IS SHALL HAVE SUFFICIENT CAPACITY FOR ALL SPEAKERS IN BUILDING WITH AN ADDITIONAL SPARE CAPACITY OF 20%. PROVIDE 120 VAC PRIMARY POWER SUPPLY AND 24 VAC SECONDARY POWER SUPPLY (BATTERIES) PER NFPA 72.
 - NOTIFICATION APPLIANCE POWER SUPPLIES AND AMPLIFIERS TO PROVIDE 24 VDC POWER TO ALL STROBES AND POWER AMPLIFIERS TO ALL SPEAKERS IN BUILDING. SURFACE MOUNT ON WALL OF FIRE RISER ROOM OR OTHER SUITABLE UTILITY ELECTRICAL ROOM. PROVIDE 120 VAC PRIMARY POWER SUPPLY AND 24 VAC SECONDARY POWER SUPPLY (BATTERIES) PER NFPA 72. SUPPLIES/AMPLIFIERS TO BE DETERMINED BY CONTRACTOR. CONFIGURE POWER SUPPLIES/AMPLIFIERS TO SYNCHRONIZE AUDIBLE AND VISUAL SIGNALS OF ALL NOTIFICATION APPLIANCES IN BUILDING. PROVIDE 120 VAC PRIMARY POWER SUPPLY AND 24 VAC SECONDARY POWER SUPPLY (BATTERIES) PER NFPA 72.
 - FIRE ALARM ANNUNCIATOR PANEL AT MAIN BUILDING ENTRANCE. MOUNT ON RECESSED BOX AT 5'4" AFF. ALL CONDUIT AND WIRING SHALL BE INSTALLED CONCEALED WITHIN WALL.
 - EXISTING FIRE SPRINKLER RISER TO BE DEMOLISHED. DISCONNECT WATER FLOW AND VALVE SUPERVISORY SWITCHES FROM EXISTING FACP IN ADJACENT BUILDING AND ADJUST PROGRAMMING AS REQUIRED. REMOVE SWITCHES, CONDUIT, J-BOXES AND WIRING.
 - FIRE SPRINKLER RISERS (NEW) WITH WATER FLOW SWITCHES AND VALVE SUPERVISORY SWITCHES PROVIDED BY FIRE SPRINKLER INSTALLER. CONNECT SWITCHES TO NEW FACP TO PROVIDE ELECTRONIC MONITORING. PROGRAM ACTUATION OF WATER FLOW SWITCH AS A FIRE ALARM SIGNAL. PROGRAM ACTUATION OF VALVE SWITCH AS A SUPERVISORY SIGNAL.
 - EXISTING FIRE ALARM PULL STATION TO BE DEMOLISHED TO FACILITATE REMODEL OF AREA. DISCONNECT FROM EXISTING FIRE ALARM CONTROL PANEL IN ADJACENT BUILDING. REMOVE PULL STATION AND VALVE SUPERVISORY SWITCHES FROM EXISTING FACP IN ADJACENT BUILDING. AB-BOX, CONDUIT AND WIRING. PHASE DEMOLITION OF PULL STATION TO OCCUR WHEN BUILDING IS NO LONGER OCCUPIED.
 - MANUAL FIRE ALARM PULL STATION. PROVIDE SINGLE MANUAL FIRE ALARM PULL STATION IN SECURITY AREA TO COMPLY WITH NFPA 72, 3.8.5.1.2. PULL STATIONS AT BUILDING EXITS ARE NOT REQUIRED ACCORDANCE WITH EXCEPTION TO 3.8.5.1.2. INSTALL PULL STATION AT ABOVE FINISHED FLOOR LEVEL. PROGRAM ACTUATION OF PULL STATION AS A FIRE ALARM SIGNAL.
 - EXISTING SMOKE DETECTOR TO BE DEMOLISHED TO FACILITATE REMODEL OF AREA. DISCONNECT FROM EXISTING FIRE ALARM CONTROL PANEL IN ADJACENT BUILDING AND ADJUST PROGRAMMING AS REQUIRED. REMOVE DEVICE, AB-BOX, CONDUIT AND WIRING. PHASE DEMOLITION OF DETECTOR TO OCCUR WHEN BUILDING IS NO LONGER OCCUPIED.
 - INSTALL SMOKE DETECTOR ABOVE FIRE ALARM CONTROL EQUIPMENT IN AS SPECIFIED IN NFPA 72 (10.4.4). PROGRAM ACTUATION OF SMOKE DETECTOR AS A FIRE ALARM SIGNAL.
 - INSTALL NEW DUCT MOUNTED SMOKE DETECTORS (LISTED COMPATIBLE WITH NEW FACP) ON THE SUPPLY AND/OR RETURN SIDE OF ALL AIR MOVEMENT SYSTEMS WITH A CAPACITY IN EXCESS OF 2,000 CFM. INTERFACE WITH AIR MOVEMENT SYSTEMS. INSTALL CONTROL RELAY AND INTERFACE WITH AIR MOVEMENT SYSTEM CONTROLLER. PROGRAM RELAY TO SHUT DOWN AIR HANDLER UPON OPERATION OF SMOKE DETECTOR OR ANY OTHER FIRE ALARM INITIATING DEVICE IN BUILDING.
 - FIRE SMOKE DAMPER. COORDINATE WITH MECHANICAL DRAWINGS FOR REQUIRED NUMBER AND LOCATIONS. INSTALL SMOKE DETECTOR PER NFPA 72 7.7.5.3 TO INITIATE DAMPER OPERATION. USE SPOT TYPE SMOKE DETECTOR WITH DUCT WHERE AIR VELOCITY DOES NOT EXCEED 300 FEET PER MINUTE AND DUCT TYPE SMOKE DETECTOR WITH HOUSING AND SAMPLING TUBES WHERE AIR VELOCITY EXCEEDS 300 FEET PER MINUTE. INSTALL PROGRAMMABLE RELAY TO CLOSE DAMPERS ON INTERVENTION OF POWER SUPPLY TO CLOSE DAMPERS UPON ACTIVATION OF SMOKE DETECTOR OR ANY OTHER FIRE ALARM INITIATING DEVICE IN BUILDING.
 - INSTALL SMOKE AND HEAT DETECTORS IN ELEVATOR EQUIPMENT AREA, LOBBIES AND SHUTT TO INITIATE EMERGENCY FUNCTIONS. PROVIDE FIRE ALARM SYSTEM RELAYS TO INTERFACE WITH ELEVATOR CONTROLS TO INITIATE THE FOLLOWING FUNCTIONS:
A. PRIMARY RECALL
B. SECONDARY RECALL
C. ELEVATOR POWER SHUNT-TRIP
D. ELEVATOR POWER SHUNT-TRIP
 - DOORS AT REAR OF COURTROOMS AND IN CIRCULATION C100 ARE SECURED FOR AUTHORIZED USE ONLY AND NOT AVAILABLE FOR PUBLIC USE UNDER NORMAL OPERATIONS. OCCUPANT LOAD OF COURTROOMS EXCEEDS 50 OCCUPANTS REQUIRING SECURITY EXIT PER IBC TABLE 1003.1.1. INSTALL ADDRESSABLE RELAY AND INTERFACE WITH SECURITY SYSTEM TO RELEASE SECURED DOOR UPON ACTIVATION OF ANY FIRE ALARM INITIATING DEVICE IN BUILDING. CONNECT RELAY TO SECURITY SYSTEM TO RELEASE SECURED DOORS UPON ACTIVATION OF ANY FIRE ALARM INITIATING DEVICE IN BUILDING. PROGRAM ELECTRIC STRIKE THROUGH NORMALLY CLOSED CONTACTS OF RELAY AND PROGRAM RELAY TO OPEN CONTACTS UPON ACTIVATION OF ANY FIRE ALARM INITIATING DEVICE INTERRUPTING POWER SUPPLY TO SECURITY HARDWARE AND RELEASING DOOR. RELAY SHALL NOT RESET UNTIL THE FIRE ALARM SYSTEM IS RESTORED TO NORMAL CONDITION.
 - EXISTING FIRE ALARM NOTIFICATION APPLIANCE TO BE DEMOLISHED TO FACILITATE REMODEL OF AREA. DISCONNECT FROM EXISTING FIRE ALARM CONTROL PANEL IN ADJACENT BUILDING. REMOVE APPLIANCE, AB-BOX, CONDUIT AND WIRING. PHASE DEMOLITION OF NOTIFICATION APPLIANCE TO OCCUR WHEN BUILDING IS NO LONGER OCCUPIED.
 - FURNISH AND INSTALL NEW FIRE ALARM NOTIFICATION APPLIANCES (SPEAKERS, STROBES OR SPEAKER/STROBES) THROUGHOUT BUILDING TO CONFORM TO NFPA 72 AND THE INTERNATIONAL BUILDING CODE. CONNECT DEVICES TO FACP. PROVIDE AMPLIFIERS AND NOTIFICATION CIRCUIT POWER TAKE DROP TO 20% MAXIMUM AND SPEAKER SIGNAL LOSS TO A MAXIMUM OF -1.5 DB.
 - PROVIDE PROTECTIVE PLASTIC ENCLOSURES FOR NOTIFICATION APPLIANCES LOCATED IN AREAS FREQUENTLY OCCUPIED BY INDIVIDUALS.
 - FIRE SPRINKLER CONTROL VALVE WITH SUPERVISORY SWITCH TO ISOLATE FIRE SPRINKLER IN HOLDING CELL AREAS PROVIDED BY FIRE SPRINKLER INSTALLER. CONDUIT AND WIRING SHALL BE INSTALLED TO PROVIDE ELECTRONIC MONITORING.
 - FIRE DOOR WITH MAGNETIC HOLD-OPEN DEVICE. INSTALL SMOKE DETECTOR ON BOTH SIDE OF FIRE DOOR IN ACCORDANCE WITH NFPA 72 7.7.5.6. INSTALL 24VDC POWER SUPPLY TO PROVIDE POWER TO MAGNETIC HOLD-OPEN DEVICE. PROGRAM RELAY TO OPEN CONTACTS UPON ACTIVATION OF SMOKE DETECTOR. PROGRAM RELAY TO OPEN CONTACTS UPON ACTIVATION OF SMOKE DETECTOR AND RELEASING DOOR.



- ### GENERAL NOTES - FIRE ALARM
- THE FIRE EMERGENCY VOICE ALARM SYSTEM SHALL BE DESIGNED TO COMPLY WITH THE APPLICABLE PROVISIONS OF THE FOLLOWING CODES AND STANDARDS:
A. INTERNATIONAL FIRE ALARM AND NOTIFICATION CODE (IFANNC) - 2018 EDITION
B. INTERNATIONAL FIRE CODE (IFC) - 2018 EDITION
C. NFPA 72 NATIONAL FIRE ALARM AND NOTIFICATION CODE - 2018 EDITION
D. NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE - 2016 EDITION
E. NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE - 2018 EDITION
 - FURNISH ALL MATERIALS, EQUIPMENT AND SUPPLIES AND PERFORM ALL WORK AND INSTALLATION OF THE FIRE ALARM SYSTEM TO CONFORM TO THE INTERNATIONAL FIRE ALARM AND NOTIFICATION CODE (IFANNC) AND THE INTERNATIONAL FIRE CODE (IFC) AND THE INTERNATIONAL BUILDING CODE. THE DESIGN OF THE FIRE ALARM SYSTEM SHALL BE BASED ON THE INFORMATION PROVIDED IN THESE DRAWINGS AND THE INFORMATION PROVIDED IN THE INTERNATIONAL FIRE ALARM AND NOTIFICATION CODE (IFANNC) AND THE INTERNATIONAL FIRE CODE (IFC) AND THE INTERNATIONAL BUILDING CODE. THE DESIGN OF THE FIRE ALARM SYSTEM SHALL BE BASED ON THE INFORMATION PROVIDED IN THESE DRAWINGS AND THE INFORMATION PROVIDED IN THE INTERNATIONAL FIRE ALARM AND NOTIFICATION CODE (IFANNC) AND THE INTERNATIONAL FIRE CODE (IFC) AND THE INTERNATIONAL BUILDING CODE. THE DESIGN OF THE FIRE ALARM SYSTEM SHALL BE BASED ON THE INFORMATION PROVIDED IN THESE DRAWINGS AND THE INFORMATION PROVIDED IN THE INTERNATIONAL FIRE ALARM AND NOTIFICATION CODE (IFANNC) AND THE INTERNATIONAL FIRE CODE (IFC) AND THE INTERNATIONAL BUILDING CODE.
 - THE DESIGN OF THE FIRE EMERGENCY VOICE ALARM SYSTEM CONTAINED ON THESE DRAWINGS IS CONCEPTUAL IN NATURE AND IS BASED ON THE INFORMATION PROVIDED IN THESE DRAWINGS AND THE INFORMATION PROVIDED IN THE INTERNATIONAL FIRE ALARM AND NOTIFICATION CODE (IFANNC) AND THE INTERNATIONAL FIRE CODE (IFC) AND THE INTERNATIONAL BUILDING CODE. THE DESIGN OF THE FIRE ALARM SYSTEM SHALL BE BASED ON THE INFORMATION PROVIDED IN THESE DRAWINGS AND THE INFORMATION PROVIDED IN THE INTERNATIONAL FIRE ALARM AND NOTIFICATION CODE (IFANNC) AND THE INTERNATIONAL FIRE CODE (IFC) AND THE INTERNATIONAL BUILDING CODE. THE DESIGN OF THE FIRE ALARM SYSTEM SHALL BE BASED ON THE INFORMATION PROVIDED IN THESE DRAWINGS AND THE INFORMATION PROVIDED IN THE INTERNATIONAL FIRE ALARM AND NOTIFICATION CODE (IFANNC) AND THE INTERNATIONAL FIRE CODE (IFC) AND THE INTERNATIONAL BUILDING CODE.
 - ALL DEVICES AND MATERIALS USED FOR THE INSTALLATION OF THE FIRE EMERGENCY VOICE ALARM SYSTEM SHALL BE LISTED OR APPROVED FOR USE IN FIRE PROTECTION SYSTEMS.
 - ALL WIRING USED IN THE FIRE EMERGENCY VOICE ALARM SYSTEM INSTALLATION SHALL BE MINIMUM 18-GAUGE 300V FPL INSTALLED IN EMT OR FLEXIBLE CONDUIT WHERE WIRING WILL BE RUN IN SPACES ABOVE CEILING OR IN TRUSS SPACE. CONDUIT IS NOT REQUIRED.
 - CONTRACTOR SHALL PREPARE AND SUBMIT COMPLETE SHOP DRAWINGS, EQUIPMENT DATA SHEETS, SEQUENCE OF OPERATIONAL SYSTEM TESTS, DEVICE WIRING DETAILS AND BATTERY VOLTAGE DROP CALCULATIONS IN ACCORDANCE WITH NFPA 72 FOR REVIEW AND APPROVAL TO THE LOCAL FIRE DEPARTMENT. COMPLETE ALL NECESSARY PERMITS AND SUBMITTALS SHALL MEET ALL APPLICABLE REQUIREMENTS OF NFPA 72 AND LOCAL FIRE DEPARTMENT REQUIREMENTS.
 - THE POWER SUPPLY (UNSWITCHED) TO THE FIRE ALARM CONTROL PANEL SHALL BE A DEDICATED BRANCH CIRCUIT PROVIDED FROM A NEARBY POWER DISTRIBUTION PANEL. SEE ELECTRICAL PLANS FOR PANEL LOCATION AND CIRCUIT DESIGNATION.
 - FIRE EMERGENCY VOICE ALARM INITIATING DEVICES SHALL ACTIVATE ALL LOCAL NOTIFICATION APPLIANCES. SOUND AN ALARM AT THE FIRE ALARM ANNUNCIATOR PANEL AND TRANSMIT A FIRE ALARM SIGNAL TO THE REMOTE MONITORING STATION. SUPERVISORY DEVICES SHALL SOUND AN ALARM AT THE FIRE ALARM ANNUNCIATOR PANEL AND TRANSMIT A SUPERVISORY SIGNAL TO THE REMOTE MONITORING STATION.
FIRE ALARM DEVICES: SMOKE/HEAT DETECTORS, PULL STATIONS, FIRE SPRINKLER WATER FLOW SWITCH
SUPERVISORY DEVICES: DUCT SMOKE DETECTORS, FIRE SPRINKLER VALVE SUPERVISION
 - CONTRACTOR SHALL CONNECT FIRE EMERGENCY VOICE ALARM SYSTEM TO A SEPARATE CELLULAR DIALER FURNISHED AND INSTALLED BY CONTRACTOR TO RELAY FIRE ALARM SIGNALS FROM PROTECTED PREMISE TO CENTRAL MONITORING STATION SELECTED BY OWNER.
 - PROVIDE SECONDARY POWER SUPPLY (BATTERIES) PER NFPA 72. BATTERIES SHALL BE LEAD-ACID TYPE SIZED TO OPERATE THE FIRE ALARM SYSTEM IN NORMAL SUPERVISORY CONDITION FOR 24 HOURS WITH ADEQUATE RESERVE TO OPERATE SYSTEM IN ALARM CONDITION FOR AN ADDITIONAL 5 MINUTES.
 - INITIATING DEVICE CIRCUIT WIRING SHALL BE CLASS B. NOTIFICATION APPLIANCE CIRCUIT WIRING SHALL BE CLASS A. DATA LOOP SHALL BE CLASS A.
 - PROTECTED PREMISE FIRE SAFETY FUNCTIONS (VENTILATION, PROGRAMMABLE OUTPUT MODULES WITH RELAY CONTACTS TO INITIATE REQUIRED FIRE SAFETY FUNCTIONS) SHALL BE PROVIDED TO THE FIRE ALARM SYSTEM. PROVIDE FIRE SAFETY FUNCTIONS (UNLOCK, ETC.) OUTPUT MODULES SHALL BE INSTALLED WITHIN 36" OF DEVICE OR CIRCUIT CONTROLLER.
 - NOTIFICATION APPLIANCES: PROVIDE AUDIBLE (VOICE) AND VISUAL NOTIFICATION APPLIANCES THROUGHOUT BUILDING WHERE INDICATED ON PLANS. NOTIFICATION APPLIANCES SHALL BE SPEAKER/STROBE TYPE DEVICES WITH TABLE LIGHT IDENTIFY 1500 MCD MINIMUM LIGHT OUTPUT. VISUAL SIGNALS SHALL BE SUFFICIENT TO PROVIDE A SOUND LEVEL (ALERT TONE) OF 15 DB ABOVE AMBIENT AND SUFFICIENT TO BE HEARD BY ALL OCCUPANTS. VISUAL SIGNALS SHALL BE PROVIDED THROUGHOUT ALL PUBLIC AND COMMON AREAS OF EACH FLOOR INCLUDING AREAS WITH POSSIBLE OCCUPANCY BY HEARING IMPAIRED PERSONS. STROBES SHALL FLASH IN SYNCHRONIZATION. NOTIFICATION APPLIANCES MAY BE WALL OR CEILING MOUNT. LOCATE WALL MOUNT DEVICES BETWEEN 48" AND 96" ABOVE FLOOR.
 - NOTIFICATION APPLIANCE ZONING: PROVIDE A SEPARATE ZONE OF NOTIFICATION APPLIANCES FOR EACH FLOOR LEVEL OF BUILDING. CONFIGURE VOICE ALARM CONTROL EQUIPMENT TO ALLOW MANUAL PAGING TO THESE SEPARATE ZONES (BASEMENT, LEVEL 1 AND LEVEL 2) AS WELL AS TO THE ENTIRE BUILDING. AUTOMATIC VOICE ALARM MESSAGES SHALL BE TRANSMITTED THROUGHOUT THE ENTIRE BUILDING WHERE FIRE ALARM INITIATING DEVICES HAVE ACTIVATED.

1 FIRE ALARM PLAN - LEVEL 2 AREA B
1/8" = 1'-0"



04-03-23

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DRAWN	CHECKED
NMJ	GTJ

REVISED

SHEET TITLE
FIRE ALARM PLAN
LEVEL 2
AREA B

SHEET

FA12B

ORIGINAL SHEET SIZE
36" x 48"