

ABBREVIATIONS		FIRE PROTECTION LEGEND		GENERAL NOTES		FIRE PROTECTION GENERAL NOTES	
(E)	EXISTING ITEM		FI	FIRE MAN	1. THE WORK TO BE DONE UNDER THESE SPECIFICATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL EQUIPMENT, MATERIALS, LABOR AND SERVICES AND PERFORMING ALL OPERATIONS TO COMPLETE THE CONSTRUCTION WORK FOR THIS PROJECT. ANY WORK NOT SPECIFICALLY COVERED BY THESE SPECIFICATIONS OR INDICATED ON THE CONTRACT DRAWINGS, BUT NECESSARY TO COMPLETE OR PERFECT ANY PART OF THIS INSTALLATION IN A SUBSTANTIAL MANNER, SHALL BE PROVIDED WITHOUT EXTRA COST TO THE OWNER. 2. THE WORK SHALL CONFORM TO THE MORE STRINGENT OF ALL APPLICABLE CODES & REGULATIONS, UL GUIDELINES, LEED REQUIREMENTS, MANUFACTURER'S LITERATURE AND RECOMMENDATIONS, AND TO THE REQUIREMENTS OF FEDERAL, STATE AND LOCAL REGULATORY AGENCIES AND AUTHORITIES HAVING JURISDICTION. 3. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE EXTENT, GENERAL CHARACTER, LOCATION AND ARRANGEMENT OF THE WORK UNDER THIS CONTRACT. WHERE JOB CONDITIONS REQUIRE MINOR CHANGES OR ADJUSTMENTS IN THE INDICATED LOCATIONS OR ARRANGEMENT OF THE WORK, SUCH CHANGES SHALL BE PROVIDED WITHOUT EXTRA COST. THE CONTRACTOR SHALL RE-INSTALL EQUIPMENT THAT HAS INADEQUATE OR UNSAFE ACCESSIBILITY. 4. INSTALLATION OF WORK SHALL PROVIDE REASONABLE ACCESSIBILITY FOR OPERATION, INSPECTION AND MAINTENANCE OF EQUIPMENT AND ACCESSORIES. PROVIDE CLEARANCES REQUIRED BY MANUFACTURERS AND APPLICABLE CODES. ALL CEILING MOUNTED EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER THAT LIGHTS, PIPING, AND DUCTWORK DO NOT BLOCK ACCESS TO EQUIPMENT AND RELATED ACCESSORIES. 5. THE TERM "TURNISH" SHALL MEAN TO OBTAIN AND SUPPLY TO THE JOB SITE. THE TERM "INSTALL" SHALL MEAN TO FIX IN POSITION AND CONNECT FOR USE. THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL. THE TERM "MECHANICAL WORK," "ELECTRICAL WORK," "PLUMBING WORK," ETC. SHALL MEAN ALL LABOR, MATERIAL, EQUIPMENT, SCAFFOLDING, RIGGING, TOOLS, SUPERVISION, SERVICES AND OTHER INCIDENTALS NECESSARY FOR COMPLETE AND OPERABLE INSTALLATION. 6. THE CM/CO SHALL MAKE SETS OF THE BID DOCUMENTS CONSISTING OF COMPLETE SETS OF DRAWINGS AND SPECIFICATIONS, AND ISSUE THEM TO EACH OF THE PRIME AND SUB-CONTRACTORS. EVERY PRIME AND SUB-CONTRACTOR ON EACH BIDDING TEAM SHALL RECEIVE COMPLETE SETS OF DRAWINGS AND SPECIFICATIONS. THERE ARE NOTES AND CROSS REFERENCES FOR VARIOUS TRADE CONTRACTORS IN MULTIPLE TRADE OR DISCIPLINE DRAWINGS AND SPECIFICATIONS. THIS EACH CONTRACTOR IS TO RECEIVE COMPLETE SETS OF THE BID DOCUMENTS. IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN THESE DRAWINGS FROM CM/CO. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS FOR EACH SET OF BID DOCUMENTS REQUESTED. 7. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULL COORDINATION EFFORT IN ORDER TO CREATE A FINALIZED COORDINATED LAYOUT OF ALL EQUIPMENT, SYSTEMS, DUCTWORK, PIPING AND ALL OTHER ITEMS WITHIN THEIR RESPECTIVE SCOPE. THE CONTRACTORS COORDINATION EFFORT SHALL INCLUDE COORDINATED INFORMATION FROM ALL OTHER TRADE CONTRACTORS INVOLVED IN THE PROJECT SCOPE IN ORDER TO PROVIDE COORDINATION BETWEEN TRADES AND ALL EXISTING CONDITIONS. ALL ERRORS MADE AS A RESULT OF A LACK OF COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND CORRECTED AT NO ADDITIONAL COST TO THE PROJECT. MINOR RELOCATIONS AND SHIFTS OF EQUIPMENT, DUCTWORK, AND PIPING WHICH DO NOT CHANGE THE DESIGN INTENT INDICATED ON THE CONTRACT DOCUMENTS, REQUIRED TO ACCOMMODATE FIELD CONDITIONS ARE AT THE CONTRACTORS DISCRETION AND DO NOT REQUIRE ENGINEER APPROVAL. 8. CONTRACTOR SHALL ARRANGE AND OBTAIN ALL PERMITS, INSPECTIONS AND APPROVALS, AND PAY ALL RELATED FEES. 9. THE DRAWINGS INDICATE APPROXIMATE LOCATIONS BASED UPON INFORMATION OBTAINED WITHOUT REMOVING CEILING TILES OR WALLS. THEREFORE, THE CONTRACTOR SHALL INCLUDE IN THEIR BID CONTINGENCY COSTS TO ADDRESS CONFLICTS BETWEEN DESIGN AND EXISTING CONDITIONS. ANY CHANGES AND/OR MODIFICATIONS MUST BE REVIEWED AND APPROVED BY THE ENGINEER AND/OR OWNER REPRESENTATIVE PRIOR TO CONSTRUCTION. 10. FOR ANY DISCREPANCY BETWEEN DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL BASE THEIR BID UPON THE MOST STRINGENT REQUIREMENT (QUALITY, QUANTITY, SIZE, ETC.). THE CONTRACTOR SHALL IDENTIFY DISCREPANCIES AS PART OF THEIR BID. 11. THE CONTRACTOR SHALL EFFECTIVELY PROTECT ALL MATERIALS AND EQUIPMENT FROM ENVIRONMENTAL AND PHYSICAL DAMAGE UNTIL FINAL ACCEPTANCE. CLOSE AND PROTECT ALL OPENINGS DURING CONSTRUCTION. PROVIDE NEW MATERIALS AND EQUIPMENT TO REPLACE ITEMS DAMAGED. 12. WHERE BEAMS ARE INDICATED TO BE PENETRATED WITH DUCTWORK AND/OR PIPING, CAREFULLY COORDINATE SIZES AND LOCATIONS OF THE ELEMENTS BEFORE FABRICATION. COORDINATE WITH FINAL LOCATION OF BEAM PENETRATIONS AND SHEAR WALL PENETRATIONS. 13. CONTRACTOR SHALL COORDINATE LOCATION OF ALL WALL, FLOOR AND ROOF OPENINGS WITH STRUCTURAL AND OTHER TRADES. 14. PROVIDE CUTTING AND PATCHING AS REQUIRED AND WHERE NECESSARY TO ACCOMMODATE NEW WORK AND THE REPAIR OF EXISTING WORK. 15. WHEN WORK INVOLVES CONTACT WITH MATERIALS CONTAINING ASBESTOS, PCB, OR OTHER TOXIC MATERIALS, NOTIFY OWNER, WHO WILL ESTABLISH PROCEDURES FOR REMEDIATION AND REMOVAL. 16. CONTRACTOR SHALL SCHEDULE THE WORK UNDER THIS CONTRACT WITH WORK OF OTHER TRADES AS NOT TO DELAY THE OVERALL PROGRESS OF THE PROJECT. 17. CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS PRIOR TO PURCHASING EQUIPMENT AND PRIOR TO CUTTING OPENINGS. 18. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PER SPECIFICATIONS PRIOR TO PURCHASING OR INSTALLING EQUIPMENT AND SYSTEMS INDICATED ON CONTRACT DOCUMENTS. PRIOR TO SUBMITTAL, CONTRACTOR SHALL VERIFY THAT ADEQUATE SPACE EXISTS FOR THE SUBMITTED EQUIPMENT. SHOP DRAWINGS MUST BE REVIEWED BY ARCHITECT/ENGINEER. 19. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED BY OTHER TRADES DUE TO SUBSTITUTION OF OTHER THAN SCHEDULED EQUIPMENT. WHEN EQUIPMENT FURNISHED IS DIFFERENT THAN INDICATED, THE COST OF ADDITIONAL ELECTRICAL, SERVICE, STRUCTURAL AND RELATED WORK SHALL BE PAID BY THIS CONTRACTOR. 20. ALL WORK SHALL BE EXECUTED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE DONE IN ACCORDANCE WITH GOOD TRADE PRACTICE AND IN CONFORMANCE WITH APPLICABLE MANUFACTURERS' RECOMMENDATIONS. 21. CONTRACTOR SHALL REMOVE ALL TRASH, DEBRIS AND DEMOLITION MATERIAL FROM PREMISES AT THE END OF EACH DAY. 22. RESTORE ALL SURFACES (WALLS, CEILINGS, FLOORS AND ROOFS) THAT ARE DAMAGED BY THE WORK OF THIS CONTRACT TO THEIR ORIGINAL CONDITION AT NO EXTRA COST TO THE OWNER. 23. PRIOR TO EQUIPMENT STARTUP, CONTRACTOR SHALL PERFORM THE SPECIFIED STARTUP AND COMMISSIONING PROCEDURES. 24. IN THE ABSENCE OF OTHER SPECIFIC INSTRUCTIONS, ALL WORK AND MATERIALS SUPPLIED SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF THEIR ACCEPTANCE BY THE OWNER. 25. BALA CONSULTING ENGINEERS, INC. (BALA) WILL PROVIDE CONTRACTOR WITH ELECTRONIC CADD FILES OF THE ENGINEERING DESIGNS FOR THE SOLE USE IN EXPEDITING SHOP DRAWINGS. BALA'S FILES SHALL NOT BE DIRECTLY COPIED AND ISSUED AS SHOP DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD COORDINATION, DIMENSIONING AND ADHERENCE TO THE SHOP DRAWING REQUIREMENTS AS NOTED IN THE SPECIFICATIONS. SHOULD THE SHOP DRAWINGS SUBMITTED PROVE TO BE A DIRECT COPY OF OUR FILES WITHOUT THE NECESSARY FIELD COORDINATION, DIMENSIONING AND ADHERENCE TO THE SHOP DRAWING REQUIREMENTS AS NOTED IN THE SPECIFICATIONS, THESE SHOP DRAWINGS WILL BE RETURNED AS REJECTED. BALA'S ELECTRONIC FILES ARE SAVED IN VERSIONS REVIT 2021 AND ARE COMPATIBLE WITH ALL VERSIONS AFTER THAT. BALA MAKES NO REPRESENTATIONS AS TO THE COMPATIBILITY OF THESE FILES WITH THE CONTRACTORS' HARDWARE OR THEIR SOFTWARE. DATA CONTAINED ON THESE ELECTRONIC FILES ARE PART OF BALA'S "INSTRUMENTS OF SERVICE" AND ARE COPYRIGHTED. CONTRACTORS' USE OF FILES IS FOR THE SOLE PURPOSE AS A CONVENIENCE IN THE PREPARATION OF DRAWINGS FOR THE REFERENCED PROJECT. ANY OTHER USE OR REUSE BY CONTRACTOR IS UNLAWFUL.	1. THE CONTRACT DRAWINGS ARE PERFORMANCE IN NATURE AND REQUIRE DELEGATED FIRE PROTECTION DESIGN SERVICE AS REQUIRED BY NFPA. ALL PIPING, SPECIALTIES AND ACCESSORIES NOT SHOWN SHALL BE PROVIDED AS REQUIRED FOR A COMPLETE AND FUNCTIONAL FIRE PROTECTION SYSTEM. CONTRACTOR SHALL SUBMIT SPRINKLER SYSTEM DRAWINGS IDENTIFIED AS "WORKING DRAWINGS" AND PREPARED IN CONFORMANCE WITH NFPA CODES. SUBMIT ENGINEERED HYDRAULIC CALCULATIONS AND PIPING DIAGRAMS, INCLUDING FLOW TEST DATA, IN CONFORMANCE WITH NFPA STANDARDS. INSURANCE UNDERWRITER AND THE LOCAL AUTHORITY HAVING JURISDICTION, WORKING DRAWINGS AND CALCULATIONS SHALL HAVE STAMPED APPROVALS FROM THE FIRE PROTECTION CONTRACTOR'S PROFESSIONAL ENGINEER OR NICET CERTIFIED DESIGNER, THE INSURANCE UNDERWRITER AND THE LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO SUBMISSION TO THE ARCHITECT OR ENGINEER. 2. SEE ALL DRAWINGS AND SPECIFICATIONS FOR STANDPIPE AND SPRINKLER SYSTEM HYDRAULIC DESIGN CRITERIA. HYDRAULIC CALCULATION NODE POINTS FOR THE MOST DEMANDING SPRINKLER PROTECTION AREAS) AND FIRE DEPARTMENT HOSE VALVE CONNECTIONS ARE INDICATED ON THE PLANS FOR SYSTEM DESIGN INFORMATION ONLY. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE HYDRAULIC CALCULATIONS FOR EACH TYPE OF OCCUPANCY FOR EACH SPRINKLER ZONE AND SHALL PROVIDE HYDRAULIC CALCULATIONS FOR THE MOST REMOTE OR HYDRAULICALLY DEMANDING FIRE DEPARTMENT HOSE CONNECTION BASED ON THE MAXIMUM SYSTEM DEMAND AS REQUIRED PER APPLICABLE NFPA STANDARDS. WORKING DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE SUBMITTED AND APPROVED BY ALL PARTIES OUTLINED HEREIN PRIOR TO PROCUREMENT OF FIRE PROTECTION EQUIPMENT, FABRICATION AND INSTALLATION OF ANY FIRE PROTECTION SYSTEM. 3. CONTRACTOR SHALL PROVIDE FIRE WATER SERVICE RESTRAINTS AND THRUST BLOCKS AS REQUIRED. 4. STANDPIPE SYSTEMS SHALL BE DESIGNED AND INSTALLED IN STRICT ACCORDANCE WITH NFPA-14. ALL APPLICABLE CODES AND THE AUTHORITY HAVING JURISDICTION. FIRE DEPARTMENT HOSE CONNECTION PATTERNS SHALL MEET THE REQUIREMENTS OF THE LOCAL FIRE MARSHALL AND THE AUTHORITY HAVING JURISDICTION. 5. ALL DEDICATED WATER SUPPLY WORK ON SITE, INSIDE OF THE PROPERTY LINE, INCLUDING CONNECTION TO THE UTILITY IF APPLICABLE, SERVING THE FIRE PROTECTION SYSTEM (PIPE, FITTINGS, HYDRANTS, ETC.) SHALL BE INSTALLED UNDER THIS CONTRACT. 6. ALL EXPOSED PIPING AND PIPING ABOVE THE CEILINGS SHALL BE INSTALLED AS CLOSE AS PRACTICAL TO THE UNDERSIDE OF STRUCTURAL MEMBERS OR TO WITHIN ONE (1) FOOT OF THE FLOOR / ROOF DECK ABOVE WHEREVER POSSIBLE. 7. PROVIDE 2" DRAIN FROM EACH SPRINKLER ZONE CONTROL VALVE ASSEMBLY AND EXTEND TO 2" OR 3" DRAIN RISER, AS APPLICABLE, DISCHARGING TO EXTERIOR GRADE, AN APPROVED DRAINAGE SPECIALTY SIZED TO ACCOMMODATE THE ANTICIPATED DEMAND AS SHOWN ON THE DRAWINGS. 8. FINAL LOCATION OF EXTERIOR FIRE DEPARTMENT CONNECTIONS SHALL BE APPROVED BY THE LOCAL FIRE MARSHALL PRIOR TO INSTALLATION. 9. PROVIDE ALL NEW SPRINKLER SYSTEM COMPONENTS, REFURBISHING, TESTING, CERTIFICATION, AND ANY OTHER WORK REQUIRED TO ENSURE A COMPLETELY APPROVED AND OPERATIONAL SYSTEM. CONTRACTOR SHALL EXTEND FROM EXISTING PIPING OF ADEQUATE SIZE OR MAKE NEW PIPING CUT-INS AS REQUIRED TO SUIT NEW SPRINKLER LOCATIONS. 10. FIELD COORDINATE ALL FIRE PROTECTION PIPING AND EQUIPMENT LOCATIONS AND/OR MODIFICATIONS WITH THE GENERAL, ELECTRICAL, AND MECHANICAL CONTRACTORS PRIOR TO COMMENCEMENT OF WORK TO ELIMINATE FIELD CONFLICTS. FINAL SPRINKLER LOCATIONS SHALL BE COORDINATED WITH LIGHTS, FIXTURES, DUCTWORK, DIFFUSERS, PIPING, EQUIPMENT, ETC. 11. THE FIRE PROTECTION CONTRACTOR SHALL CONFIRM LIGHTING TO BE INSTALLED FOR COORDINATION OF LOCATIONS, SIZE, AND MOUNTING HEIGHTS. THE CONTRACTOR SHALL COORDINATE FINAL SPRINKLER HEAD LOCATIONS PER NFPA 13 OBSTRUCTION REQUIREMENTS AND COORDINATE WITH THE ELECTRICAL CONTRACTOR TO ENSURE ALL AREAS ARE COVERED IN ACCORDANCE WITH NFPA STANDARDS. 12. COORDINATE ALL LOCATIONS AND MOUNTING HEIGHTS OF FIRE PROTECTION DEVICES AND APPURTENANCES WITH THE LOCAL AUTHORITY HAVING JURISDICTION, APPLICABLE ADA REQUIREMENTS AND ALL TRADE CONTRACTORS. 13. HYDRAULIC CALCULATIONS SHALL DICTATE THE ADEQUATE SIZES OF PIPING. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PIPING OF A LARGER DIAMETER, IF NECESSARY, TO BRING THE SYSTEM TO FULL COMPLIANCE WITH THE HYDRAULIC CALCULATIONS. 14. AS APPLICABLE, FIRE PROTECTION SPRINKLER AND OR STANDPIPE SYSTEM HYDRAULIC CALCULATIONS SHALL BE SUBMITTED AND APPROVED BY THE OWNER'S UNDERWRITER, AUTHORITIES HAVING JURISDICTION AND THE ENGINEER PRIOR TO REVIEW AND APPROVAL OF A FIRE PUMP SHOP DRAWING SUBMISSION. 15. CONTRACTOR SHALL VERIFY CONCEALED SPACES ARE PROTECTED IN ACCORDANCE WITH NFPA 13 AND ANY LOCAL CODE REQUIREMENTS. 16. ADDITIONAL SPRINKLER HEADS SHALL BE PROVIDED UNDER ALL DUCTS AND ALL OTHER OBSTRUCTIONS THAT ARE 4" OR GREATER IN WIDTH IN ACCORDANCE WITH NFPA 13. COORDINATE FINAL SPRINKLER HEAD LOCATIONS AND REQUIREMENTS WITH THE MECHANICAL AND ARCHITECTURAL DRAWINGS. 17. ADDITIONAL SPRINKLER HEADS SHALL BE PROVIDED AT THE LOWEST LANDING AND TOP OF ALL STARTUPERS IN ACCORDANCE WITH NFPA 13. 18. SPRINKLER SHALL BE LOCATED IN THE CENTER OF CEILING TILES UNLESS SPECIFICALLY NOTED OTHERWISE. 19. ALL PIPING PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED WITH UL LISTED FIREPROOFING SYSTEM TO MATCH THE RATING OF THE WALL OR FLOOR. 20. PROVIDE NEC REQUIRED PIPE CLEARANCE ABOVE OR AROUND ANY ELECTRICAL EQUIPMENT, PANELS, ETC. 21. PROVIDE PROTECTIVE SPRINKLER GUARDS ON SPRINKLER HEADS LOCATED BELOW 7'-0" A.F.F. IN MECHANICAL ROOMS, STORAGE ROOMS, PUMP ROOMS, SERVICE AREAS, GYMNASIUMS REGARDLESS OF SPRINKLER HEAD ELEVATION AND WHERE OTHERWISE SUSCEPTIBLE TO DAMAGE. 22. SPRINKLER PIPING, IN BAR JOIST CONSTRUCTION, SHALL BE SUPPORTED FROM PANEL POINTS OF BAR JOIST. THRUST SUPPORTS SHALL BE ATTACHED TO TOP CHORD ONLY, UNLESS SUFFICIENT CROSS BRACING IS PROVIDED. 23. FOR ADDITION OR RELOCATION OF SPRINKLER HEADS IN NEW AND EXISTING CONSTRUCTION, ALL SPRINKLER HEAD RESPONSE CHARACTERISTICS SHALL MATCH EXISTING SPRINKLER HEADS WITHIN THE SCOPE OF WORK INCLUDING SURROUNDING SPACES OUTSIDE OF THE SCOPE OF WORK AS REQUIRED PER NFPA STANDARDS.	
(ER)	EXISTING ITEM TO BE DEMOLISHED		DR	DRAIN PIPING			
(N)	NEW ITEM		DR	EXISTING DRAIN PIPING			
(RL)	EXISTING ITEM TO BE RELOCATED		SP	SPRINKLER PIPING			
AC	COMPRESSED AIR		SP	EXISTING SPRINKLER PIPING			
AFF	ABOVE FINISHED FLOOR		PA	PREACTION SPRINKLER PIPING			
AFG	ABOVE FINISHED GRADE		PA	EXISTING PREACTION SPRINKLER PIPING			
AP	ABOVE PIPE		D	DRY SPRINKLER PIPING			
BF	BELOW RAISED FLOOR		D	EXISTING DRY SPRINKLER PIPING			
BPF	BACKFLOW PREVENTER		CA	CLEAN AGENT SYSTEM PIPING			
BLDG	BUILDING		CA	EXISTING CLEAN AGENT SYSTEM PIPING			
BOP	BOTTOM OF PIPE		CA	CLEAN AGENT SYSTEM PIPING			
CA	CLEAN AGENT		CA	EXISTING CLEAN AGENT SYSTEM PIPING			
CBV	CURB BOX & VALVE		CA	CLEAN AGENT SYSTEM PIPING			
CP	CAST IRON PIPE		CA	CLEAN AGENT SYSTEM PIPING			
CLO	CEILING		CA	CLEAN AGENT SYSTEM PIPING			
CONN	CONNECT		CA	CLEAN AGENT SYSTEM PIPING			
CONT	CONTINUATION		CA	CLEAN AGENT SYSTEM PIPING			
D	DETECTION DEVICE (SHOWN IN SYMBOL)		CA	CLEAN AGENT SYSTEM PIPING			
DP	DUCTILE IRON PIPE		CA	CLEAN AGENT SYSTEM PIPING			
DN	DOWN		CA	CLEAN AGENT SYSTEM PIPING			
DR	DRY PIPE		CA	CLEAN AGENT SYSTEM PIPING			
DR	DRAIN RISER		CA	CLEAN AGENT SYSTEM PIPING			
DSP	DRY STANDPIPE		CA	CLEAN AGENT SYSTEM PIPING			
DWG	DRAWING		CA	CLEAN AGENT SYSTEM PIPING			
EA	EACH		CA	CLEAN AGENT SYSTEM PIPING			
EC	ELECTRICAL CONTRACTOR		CA	CLEAN AGENT SYSTEM PIPING			
EL	ELEVATION		CA	CLEAN AGENT SYSTEM PIPING			
EQUIP	EQUIPMENT		CA	CLEAN AGENT SYSTEM PIPING			
FCV	FLOOR CONTROL VALVE		CA	CLEAN AGENT SYSTEM PIPING			
FD	FLOOR DRAIN		CA	CLEAN AGENT SYSTEM PIPING			
FDC	FIRE DEPARTMENT CONNECTION		CA	CLEAN AGENT SYSTEM PIPING			
FH	FIRE HYDRANT		CA	CLEAN AGENT SYSTEM PIPING			
FHC	FIRE HOSE CABINET		CA	CLEAN AGENT SYSTEM PIPING			
FHR	FIRE HOSE RACK		CA	CLEAN AGENT SYSTEM PIPING			
FHV	FIRE HOSE VALVE		CA	CLEAN AGENT SYSTEM PIPING			
FPC	FIRE PROTECTION CONTRACTOR		CA	CLEAN AGENT SYSTEM PIPING			
FPTH	FIRE PUMP TEST HEADER		CA	CLEAN AGENT SYSTEM PIPING			
FS	FLOW SWITCH		CA	CLEAN AGENT SYSTEM PIPING			
FT	FOOT FEET		CA	CLEAN AGENT SYSTEM PIPING			
GC	GENERAL CONTRACTOR		CA	CLEAN AGENT SYSTEM PIPING			
GPD	GALLONS PER DAY		CA	CLEAN AGENT SYSTEM PIPING			
GPH	GALLONS PER HOUR		CA	CLEAN AGENT SYSTEM PIPING			
GPM	GALLONS PER MINUTE		CA	CLEAN AGENT SYSTEM PIPING			
H	HALON		CA	CLEAN AGENT SYSTEM PIPING			
LE	INVERT ELEVATION		CA	CLEAN AGENT SYSTEM PIPING			
LZ	LOW ZONE		CA	CLEAN AGENT SYSTEM PIPING			
NC	NORMALLY CLOSED		CA	CLEAN AGENT SYSTEM PIPING			
NC	NOT IN CONTRACT		CA	CLEAN AGENT SYSTEM PIPING			
NO	NORMALLY OPEN		CA	CLEAN AGENT SYSTEM PIPING			
NTS	NOT TO SCALE		CA	CLEAN AGENT SYSTEM PIPING			
PA	PRE ACTION		CA	CLEAN AGENT SYSTEM PIPING			
PC	PLUMBING CONTRACTOR		CA	CLEAN AGENT SYSTEM PIPING			
PG	PRESSURE GAUGE		CA	CLEAN AGENT SYSTEM PIPING			
PIV	POST INDICATOR VALVE		CA	CLEAN AGENT SYSTEM PIPING			
PRESS	PRESSURE		CA	CLEAN AGENT SYSTEM PIPING			
PS	PRESSURE SWITCH		CA	CLEAN AGENT SYSTEM PIPING			
PSI	POUNDS PER SQUARE INCH		CA	CLEAN AGENT SYSTEM PIPING			
PSIG	POUNDS PER SQUARE INCH GAUGE		CA	CLEAN AGENT SYSTEM PIPING			
SF	SQUARE FOOT		CA	CLEAN AGENT SYSTEM PIPING			
SP	SPRINKLER PIPING		CA	CLEAN AGENT SYSTEM PIPING			
SPR	SPRINKLER		CA	CLEAN AGENT SYSTEM PIPING			
STDP	STAND PIPE		CA	CLEAN AGENT SYSTEM PIPING			
TB	THRUST BLOCK		CA	CLEAN AGENT SYSTEM PIPING			
TDH	TOTAL DYNAMIC HEAD		CA	CLEAN AGENT SYSTEM PIPING			
TOP	TOP OF PIPE		CA	CLEAN AGENT SYSTEM PIPING			
TYP	TYPICAL		CA	CLEAN AGENT SYSTEM PIPING			
VF	VERIFY IN FIELD		CA	CLEAN AGENT SYSTEM PIPING			
W	WITH		CA	CLEAN AGENT SYSTEM PIPING			
WO	WITHOUT		CA	CLEAN AGENT SYSTEM PIPING			
WSP	WET STAND PIPE		CA	CLEAN AGENT SYSTEM PIPING			

PIPE LOCATION NOTES	
1	CONCEALED IN CEILING SPACE ABOVE
2	EXPOSED IN STRUCTURE ABOVE
3	CONCEALED IN CEILING SPACE, BELOW FLOOR
4	EXPOSED ON STRUCTURE, FLOOR BELOW
5	BELOW GRADE
6	RACK ON WALL, BELOW COUNTER TOP
7	ABOVE FLOOR
8	RUN THROUGH OR BETWEEN BAR JOIST
9	CONCEALED BELOW RAISED FLOOR

	CLEAN AGENT DISCHARGE NOZZLE (UNDER FLOOR)
	CLEAN AGENT DISCHARGE NOZZLE (CEILING)
	CLEAN AGENT DISCHARGE NOZZLE (ABOVE CEILING)
	EQUIPMENT TAG
	DRY STAND PIPE RISER No.
	SPRINKLER RISER No.
	WET STAND PIPE RISER No.
	DRAIN RISER No.

DRAWING LIST - FIRE PROTECTION											
DRAWING NUMBER	DRAWING TITLE	© 06/23/2022 DESIGN DEVELOPMENT COST ESTIMATE SET									
FP0-0-1	FIRE PROTECTION COVER SHEET										
FP1-1-0C	FIRE PROTECTION LOWER LEVEL FLOOR PLAN - AREA C										
FP1-1-0D	FIRE PROTECTION LOWER LEVEL FLOOR PLAN - AREA D										
FP1-1-1A	FIRE PROTECTION FIRST FLOOR PLAN - AREA A										
FP1-1-1B	FIRE PROTECTION FIRST FLOOR PLAN - AREA B										
FP1-1-1C	FIRE PROTECTION FIRST FLOOR PLAN - AREA C										
FP1-1-1D	FIRE PROTECTION FIRST FLOOR PLAN - AREA D										
FP1-1-2A	FIRE PROTECTION SECOND FLOOR PLAN - AREA A										
FP1-1-2B	FIRE PROTECTION SECOND FLOOR PLAN - AREA B										
FP1-1-2C	FIRE PROTECTION SECOND FLOOR PLAN - AREA C										
FP1-1-2D	FIRE PROTECTION SECOND FLOOR PLAN - AREA D										
FP1-1-3A	FIRE PROTECTION THIRD FLOOR PLAN - AREA A										
FP1-1-3B	FIRE PROTECTION THIRD FLOOR PLAN - AREA B										
FP1-1-3C	FIRE PROTECTION THIRD FLOOR PLAN - AREA C										
FP1-1-3D	FIRE PROTECTION THIRD FLOOR PLAN - AREA D										
FP1-1-4A	FIRE PROTECTION FOURTH FLOOR PLAN - AREA A										
FP1-1-4B	FIRE PROTECTION FOURTH FLOOR PLAN - AREA B										
FP1-1-4C	FIRE PROTECTION FOURTH FLOOR PLAN - AREA C										
FP1-1-4D	FIRE PROTECTION FOURTH FLOOR PLAN - AREA D										
FP1-1-MC	FIRE PROTECTION LOWER LEVEL MEZZANINE PLAN - AREA C										
FP2-1-1A	FIRE PROTECTION ROOF PLAN - AREA A										
FP2-1-1B	FIRE PROTECTION ROOF PLAN - AREA B										
FP2-1-1C	FIRE PROTECTION ROOF PLAN - AREA C										
FP2-1-1D	FIRE PROTECTION ROOF PLAN - AREA D										
FP2-0-1	FIRE PROTECTION RISER DIAGRAM										
FP2-0-1	FIRE PROTECTION DETAILS										

KEY PLAN

PROJECT NORTH

MAGNETIC NORTH

FIRE PROTECTION COVER SHEET

Scale: 1/2" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022

FP0-0-1

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School

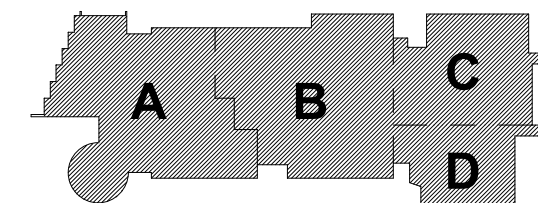
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MSBA DESIGN
SUBMISSION

August 4th, 2022



KEY PLAN

PROJECT NORTH

MAGNETIC NORTH

KEYNOTES

- LH LIGHT HAZARD OCCUPANCY
OH ORDINARY HAZARD OCCUPANCY
EH EXTRA HAZARD OCCUPANCY

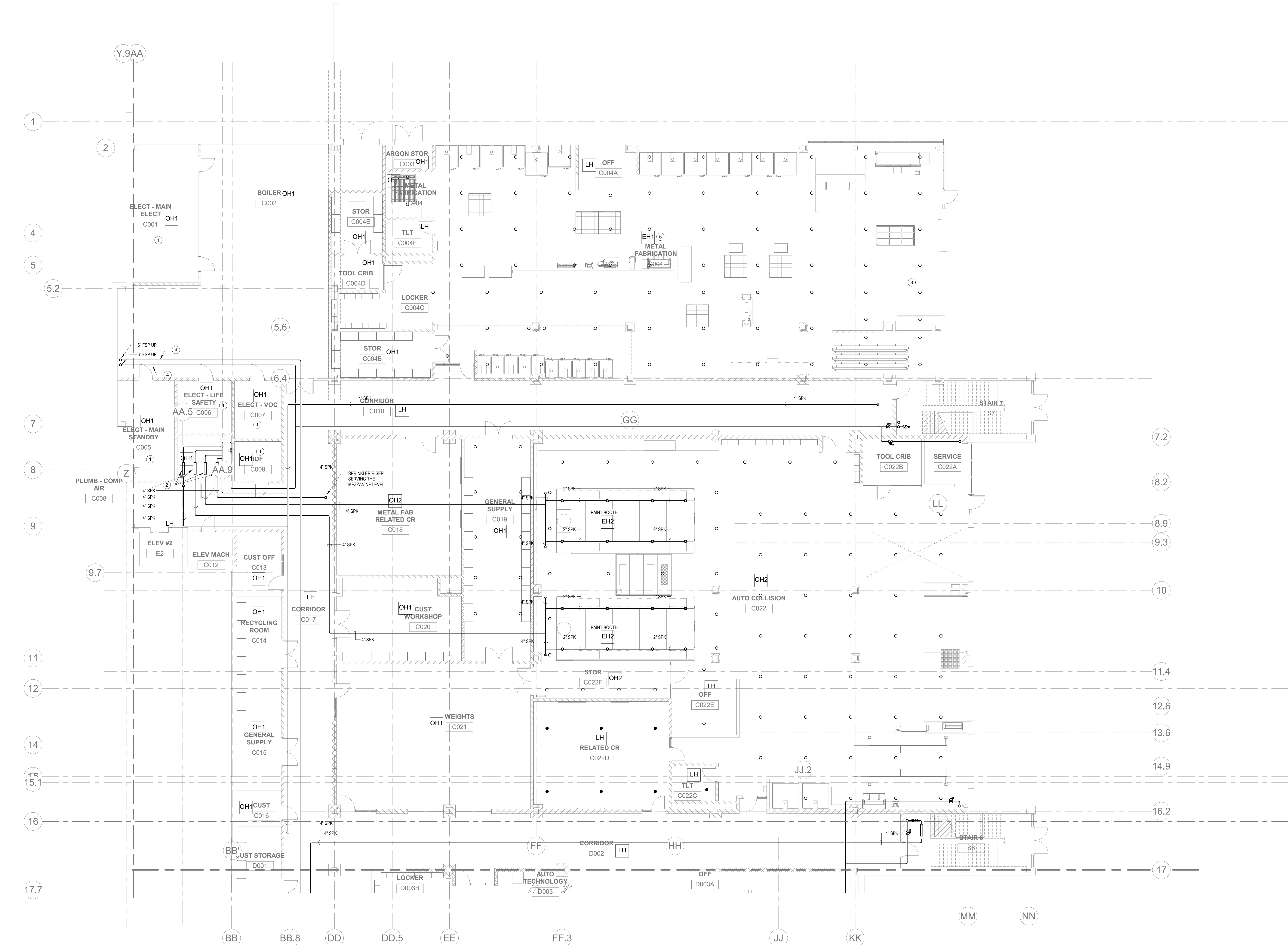
- 1 THE INDICATED AREA SHALL BE PROTECTED BY SPRINKLERS WITH A EXTRA HAZARD GROUP 2 EQUIVA SPRINKLER DESIGN CRITERIA PER NFPA 13.
2 PROVIDE 4" FLOOR CONTROL VALVE. THE FLOOR CONTROL VALVE SHALL CONSIST OF A BUTTERFLY VALVE, CHECK VALVE, FLOW SWITCH, PRESSURE GAUGE AND MAIN DRAIN VALVE WITH INSPECTOR'S TEST CONNECTION.
3 PROVIDE DRY PENDENTS WITH GUARDS BENEATH THE GARAGE DOOR TRACK.
4 FOR ALL PIPING PASSING THROUGH COORDINATE Y0, PROVIDE AN EXPANSION LOOP AND ADD FLEXIBLE COUPLINGS ON EITHER SIDE.
5 PROVIDE HIGH TEMPERATURE RATED SPRINKLERS THROUGHOUT THE INDICATED AREA.

GENERAL NOTES FOR PAINT SPRAY BOOTHS

1. SPRINKLERS PROTECTING THE PAINT SPRAY BOOTHS SHALL BE DESIGNED FOR AN EXTRA HAZARD (GROUP 2) OCCUPANCY IN ACCORDANCE WITH NFPA 13.
2. THE SPRINKLER SYSTEM PROTECTING DUCTS SHALL MEET ALL OF THE FOLLOWING REQUIREMENTS:
A. ONE SPRINKLER SHALL BE LOCATED AT THE TOP OF EACH VERTICAL RISER AND AT THE MIDPOINT OF EACH OFFSET. ADDITIONAL HEADS SHALL BE SPACED ON 24 FT CENTERS IF THE RISE IS GREATER THAN 24 FT.
B. HORIZONTAL EXHAUST DUCTS SHALL HAVE SPRINKLERS LOCATED 12 FT CENTERS BEGINNING NO MORE THAN 6 FT FROM THE DUCT ENTRANCE.
C. WHERE EXHAUST DUCTS ARE MANIFOLDED, A SPRINKLER SHALL BE LOCATED IN THE MANIFOLD AT THE JUNCTION OF EACH EXHAUST DUCT WITH THE MANIFOLD.
D. SPRINKLERS SHALL PROVIDE A MINIMUM FLOW OF 30 GPM PER HEAD AT A MINIMUM OF 15 PSI PRESSURE.
E. SPRINKLERS SHALL BE ORDINARY TEMPERATURE RATE, UNLESS REQUIRED TO BE HIGHER DUE TO OPERATING TEMPERATURES MEASURED IN THE DUCTS, IN WHICH CASE THE OPERATING TEMPERATURE SHALL BE AT LEAST 50 F ABOVE THE INSIDE TEMPERATURE OF THE DUCT.
3. EXHAUST DUCTS SHALL BE PROVIDED WITH ACCESS OPENING FOR INSPECTION AND MAINTENANCE OF SPRINKLERS.
4. SPRINKLERS SHALL BE PERMITTED TO BE COVERED ONLY BY CELLOPHANE BAGS HAVING A THICKNESS OF 0.003 IN. OR LESS OR BY THIN PAPER BAGS. THESE COVERINGS SHALL BE REPLACED FREQUENTLY SO THAT HEAVY DEPOSITS DO NOT ACCUMULATE.
5. SPRINKLERS THAT HAVE BEEN PAINTED OR COATED BY OVERSPRAY OR RESIDUES SHALL BE REPLACED WITH NEW SPRINKLERS.

GENERAL NOTES

1. WITHIN AREA OF SCOPE EXTEND NEW 4" SPRINKLER MAIN PIPING FROM A NEW ZONE CONTROL VALVE. CONTRACTOR SHALL SIZE BRANCH PIPING TO ALLOW FOR VELOCITY WILL REMAIN BELOW 20 FPS. PROVIDE QUICK RESPONSE UPRIGHTS IN OPEN CEILING AREAS AND CONCEALED PENDENTS IN AREAS WHERE DROP CEILINGS ARE INDICATED. EXTEND NEW 1" RISEOVERS TO NEW CONCEALED PENDENTS. 1" SPRIGS SHALL BE ROUTED TO UPRIGHTS WITHIN 12" OF DECK. DESIGN INTENT IS TO PROVIDE A CODE COMPLIANT SPRINKLER LAYOUT FOR THE NEW PROGRAM LAYOUT. CONTRACTOR IS REQUIRE TO SUBMIT HYDRAULIC CALCULATIONS TERMINATED AT THE HYDRANT OUTLET.
2. PROVIDE PROTECTIVE SPRINKLER GUARDS ON SPRINKLER HEADS LOCATED BELOW 7'-0" A.F.F. IN MECHANICAL ROOMS, STORAGE ROOMS, PUMP ROOMS, SERVICE AREAS, GYMNASIUMS REGARDLESS OF SPRINKLER HEAD ELEVATION AND WHERE OTHERWISE SUSCEPTIBLE TO DAMAGE.
3. SPRINKLERS SHALL BE PROVIDED WITH MAXIMUM SPACING OF 8 FEET NEAR STAIR FLOOR OPENINGS.
4. SPRINKLERS SHALL BE PROVIDED BENEATH MECHANICAL DUCTWORK AND/OR GROUPS OF MECHANICAL DUCTWORK GREATER THAN 4 FT IN WIDTH. WHERE DUCTWORK INTERFERE WITH SPRINKLERS, ADDITIONAL COVERAGE SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13.
5. CONCEALED SPRINKLER HEAD FINISHES TO MATCH CEILING COLOR. UNLESS OTHERWISE NOTED REFER TO ARCHITECTURAL DRAWINGS.
6. SPRINKLERS SHALL BE PROVIDED BENEATH ACCESSIBLE LANDINGS. PIPING AND FITTINGS SHALL BE PROVIDED TO SPRINKLERS BENEATH ACCESSIBLE LANDINGS AND AT MAIN LANDING. LOCATION OF ALL EXPOSED PIPING SHALL BE FIELD COORDINATED WITH ARCHITECT.
7. DRY PENDENTS AND/OR DRY SIDEWALLS SHALL BE PROVIDED IN ROOMS/AREAS WHERE THE OPERATING TEMPERATURE IS LESS THAN 40F.
8. SPRINKLERS SHALL BE PROVIDED BENEATH FIXTURES GREATER THAN 4 FT IN WIDTH.



2 FIRE PROTECTION LOWER LEVEL FLOOR PLAN - AREA C
1/8" = 1'-0"

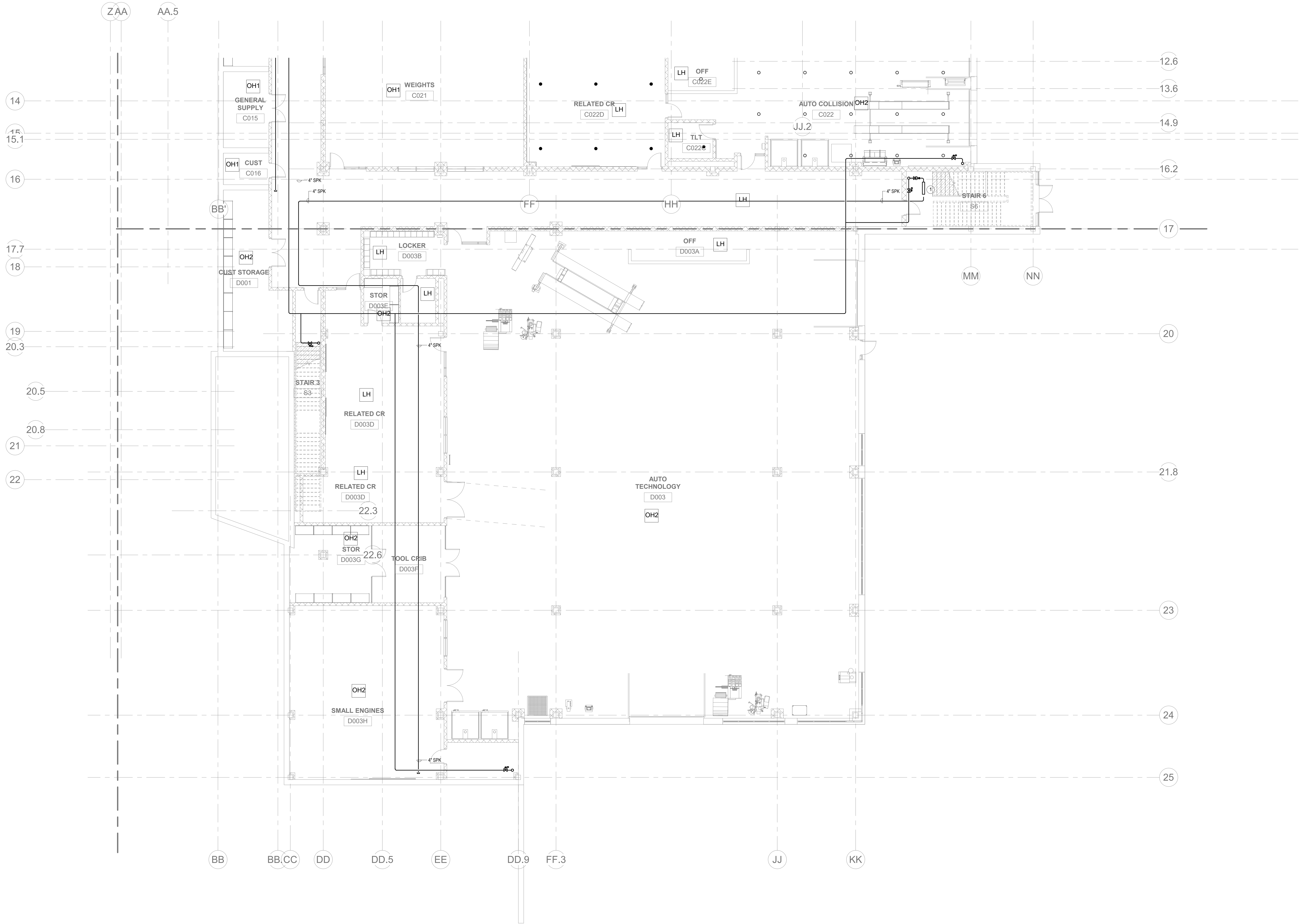
KEYNOTES

- LH LIGHT HAZARD OCCUPANCY
OH ORDINARY HAZARD OCCUPANCY
EH EXTRA HAZARD OCCUPANCY

1. PROVIDE 4" FLOOR CONTROL VALVE. THE FLOOR CONTROL VALVE SHALL CONSIST OF A BUTTERFLY VALVE, CHECK VALVE, FLOW SWITCH, PRESSURE GAUGE AND MAIN DRAIN VALVE WITH INSPECTOR'S TEST CONNECTION.

GENERAL NOTES

1. WITHIN AREA OF SCOPE EXTEND NEW 4" SPRINKLER MAIN PIPING FROM A NEW ZONE CONTROL VALVE. CONTRACTOR SHALL SIZE BRANCH PIPING TO ALLOW FOR VELOCITY WILL REMAIN BELOW 20 FPS. PROVIDE QUICK RESPONSE UPRIGHTS IN OPEN CEILING AREAS AND CONCEALED PENDENTS IN AREAS WHERE DROP CEILINGS ARE INDICATED. EXTEND NEW 1" ANCHORS TO NEW CONCEALED PENDENTS. 1" SPRINGS SHALL BE ROUTED TO UPRIGHTS WITHIN 12" OF DECK. DESIGN INTENT IS TO PROVIDE A CODE COMPLIANT SPRINKLER LAYOUT FOR THE NEW PROGRAM LAYOUT. CONTRACTOR IS REQUIRED TO SUBMIT HYDRAULIC CALCULATIONS TERMINATED AT THE RISERANT OUTLET.
2. PROVIDE PROTECTIVE SPRINKLER GUARDS ON SPRINKLER HEADS LOCATED BELOW 7'-0" A.F.F. IN MECHANICAL ROOMS, STORAGE ROOMS, PUMP ROOMS, SERVICE AREAS, CYCLING AREAS, REGARDLESS OF SPRINKLER HEAD ELEVATION AND WHERE OTHERWISE SUSCEPTIBLE TO DAMAGE.
3. SPRINKLERS SHALL BE PROVIDED WITH MAXIMUM SPACING OF 6 FEET NEAR STAIR FLOOR OPENINGS.
4. SPRINKLERS SHALL BE PROVIDED BENEATH MECHANICAL DUCTWORK AND/OR GROUPS OF MECHANICAL DUCTWORK GREATER THAN 4 FT IN WIDTH. WHERE DUCTWORK INTERFERES WITH SPRINKLERS, ADDITIONAL COVERAGE SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13.
5. CONCEALED SPRINKLER HEAD FINISHES TO MATCH CEILING COLOR. UNLESS OTHERWISE NOTED REFER TO ARCHITECTURAL DRAWINGS.
6. SPRINKLERS SHALL BE PROVIDED BENEATH ACCESSIBLE LANDINGS. PIPING AND FITTINGS SHALL BE PROVIDED TO SPRINKLERS BENEATH ACCESSIBLE LANDINGS AND AT MAIN LANDINGS. LOCATION OF ALL EXPOSED PIPING SHALL BE FIELD COORDINATED WITH ARCHITECT.
7. DRY PENDENTS AND/OR DRY SIDEWALLS SHALL BE PROVIDED IN ROOMS/AREAS WHERE THE OPERATING TEMPERATURE IS LESS THAN 40F.
8. SPRINKLERS SHALL BE PROVIDED BENEATH FIXTURES GREATER THAN 4 FT IN WIDTH.



2. FIRE PROTECTION LOWER LEVEL FLOOR PLAN - AREA D
1/8" = 1'-0"



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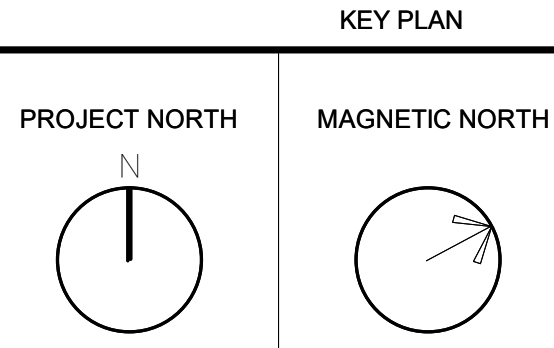
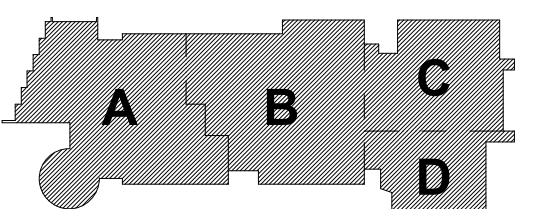
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August 4th, 2022



FIRE
PROTECTION
LOWER LEVEL
FLOOR PLAN -
AREA D

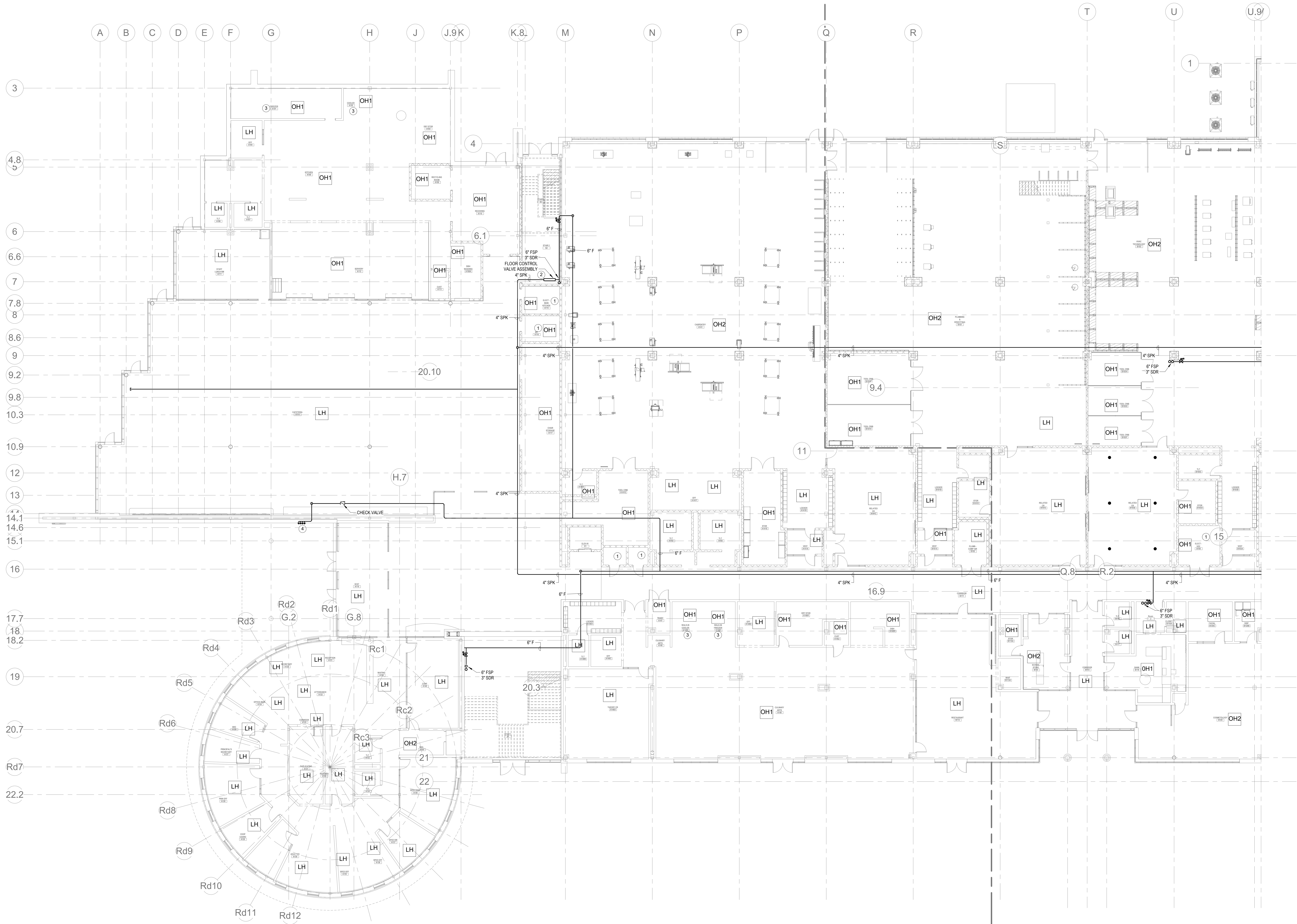
Scale: 1/8" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022
FP1-1-0D

GENERAL NOTES

1. WITHIN AREA OF SCOPE EXTEND NEW 4" SPRINKLER MAIN PIPING FROM A NEW ZONE CONTROL VALVE. CONTRACTOR SHALL SIZE BRANCH PIPING TO ALLOW FOR VELOCITY WILL REMAIN BELOW 20 FPS. PROVIDE QUICK RESPONSE SPRINKLES IN OPEN CEILING AREAS AND CONCEALED PENDENTS IN AREAS WHERE DROP CEILING IS INDICATED. EXTEND NEW 1" BRANCHES TO NEW CONCEALED PENDENTS. 1" SPRINGS SHALL BE ROUTED TO UPRIGHTS WITHIN 12" OF DECK. DESIGN INTENT IS TO PROVIDE A CODE COMPLIANT SPRINKLER LAYOUT FOR THE NEW PROGRAM LAYOUT. CONTRACTOR IS REQUIRED TO SUBMIT HYDRAULIC CALCULATIONS TERMINATED AT THE HYDRANT OUTLET.
2. PROVIDE PROTECTIVE SPRINKLER GUARDS ON SPRINKLER HEADS LOCATED BELOW 7'-0" A.F.F. IN MECHANICAL ROOMS, STORAGE ROOMS, PUMP ROOMS, SERVICE AREAS, GYMNASIUMS REGARDLESS OF SPRINKLER HEAD ELEVATION AND WHERE OTHERWISE SUSCEPTIBLE TO DAMAGE.
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5. CONCEALED SPRINKLER HEAD FINISHES TO MATCH CEILING COLOR. UNLESS OTHERWISE NOTED REFER TO ARCHITECTURAL DRAWINGS.
6. SPRINKLERS SHALL BE PROVIDED BENEATH ACCESSIBLE LANDINGS. PIPING AND FITTINGS SHALL BE PROVIDED TO SPRINKLERS BENEATH ACCESSIBLE LANDINGS AND AT MAIN LANDING. LOCATION OF ALL EXPOSED PIPING SHALL BE FIELD COORDINATED WITH ARCHITECT.
7. DRY PENDENTS AND/OR DRY SIDEWALLS SHALL BE PROVIDED IN ROOMS/AREAS WHERE THE OPERATING TEMPERATURE IS LESS THAN 40F.
8. SPRINKLERS SHALL BE PROVIDED BENEATH FIXTURES GREATER THAN 4 FT IN WIDTH.

KEYNOTES

- | | |
|----|---------------------------|
| LH | LIGHT HAZARD OCCUPANCY |
| OH | ORDINARY HAZARD OCCUPANCY |
| EH | EXTRA HAZARD OCCUPANCY |
- 1 THE INDICATED AREA SHALL BE PROTECTED BY SPRINKLERS WITH A EXTRA HAZARD GROUP 2 EQUIVA SPRINKLER DESIGN CRITERIA PER NFPA 13.
 - 2 PROVIDE 4" FLOOR CONTROL VALVE. THE FLOOR CONTROL VALVE SHALL CONSIST OF A BUTTERFLY VALVE, CHECK VALVE, FLOW SWITCH, PRESSURE GAUGE AND MAIN DRAIN VALVE WITH INSPECTORS TEST CONNECTION.
 - 3 PROVIDE DRY PENENTS TO SERVE THE ROOM.
 - 4 FIRE DEPARTMENT CONNECTION SHALL BE LOCATED WITHIN 100 FEET OF A FIRE HYDRANT. PROVIDE ELECTRIC ALARM BELL TO BE MOUNTED TO THE FDC.



1 FIRE PROTECTION FIRST FLOOR PLAN - AREA A
3/32" = 1'-0"

DRA

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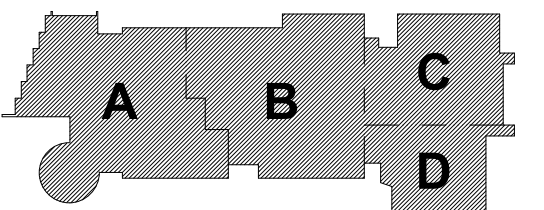
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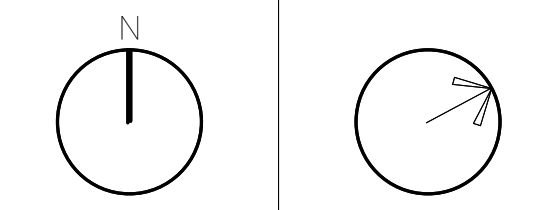
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SUBMISSION
August 4th, 2022



KEY PLAN

PROJECT NORTH MAGNETIC NORTH



FIRE
PROTECTION
FIRST FLOOR
PLAN - AREA A

Scale: 3/32" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022
FP1-1-1A

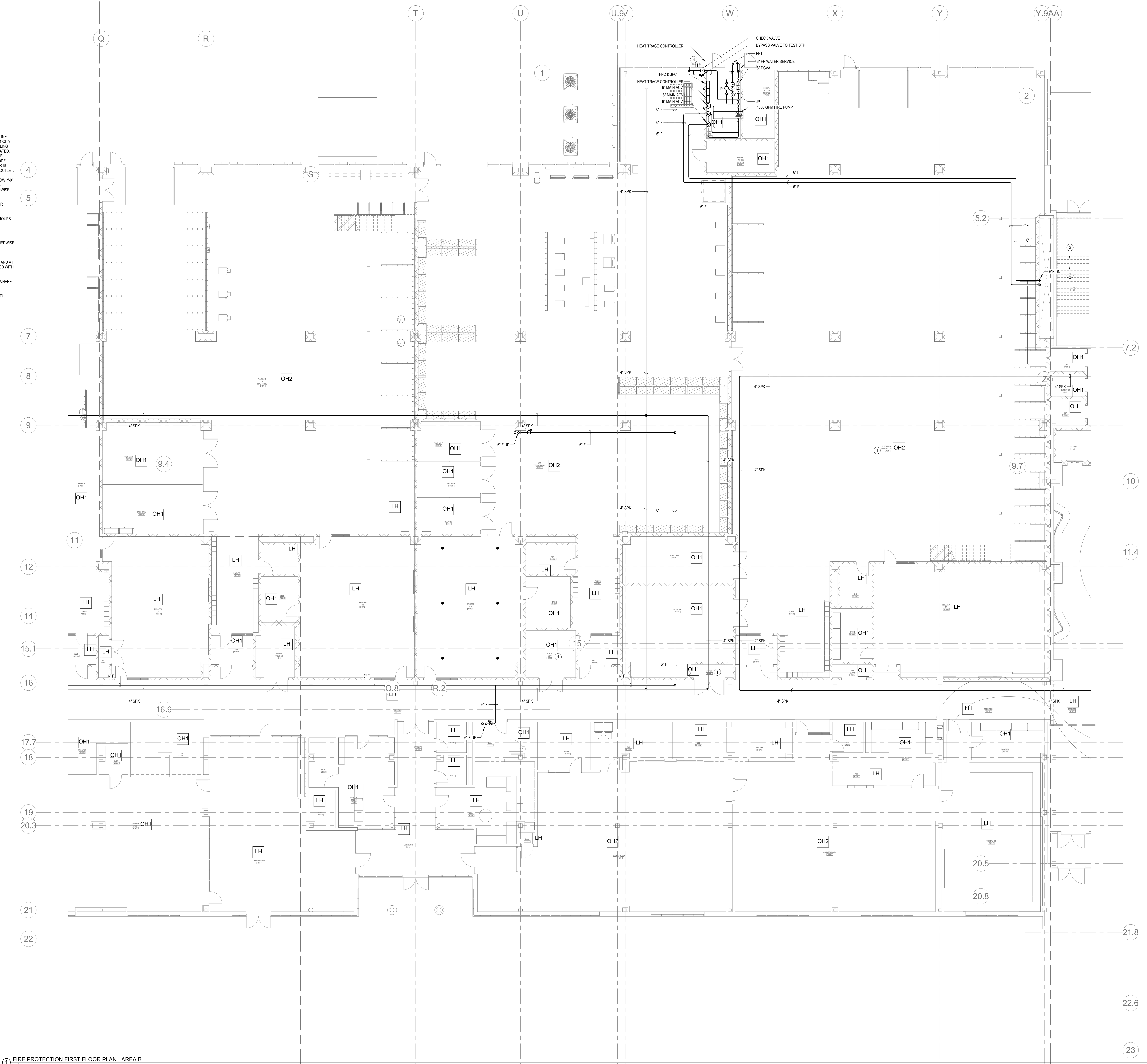
KEYNOTES

- LH LIGHT HAZARD OCCUPANCY
OH ORDINARY HAZARD OCCUPANCY
EH EXTRA HAZARD OCCUPANCY

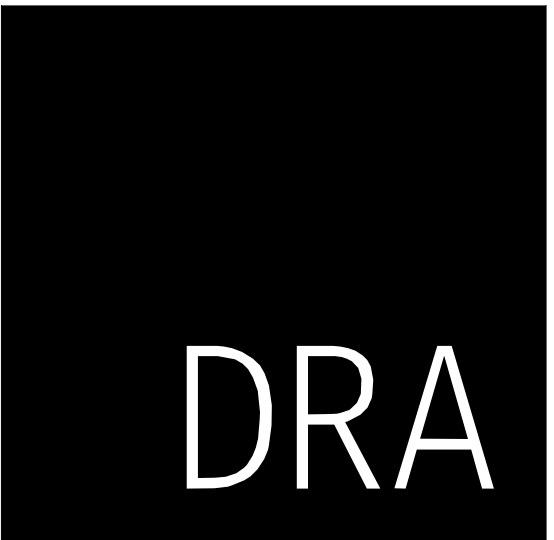
- 1 THE INDICATED AREA SHALL BE PROTECTED BY SPRINKLERS WITH A EXTRA HAZARD GROUP 2 EQUIVA SPRINKLER DESIGN CRITERIA PER NFPA 13.
2 FOR ALL PIPING PASSING THROUGH COORDINATE Y9, PROVIDE AN EXPANSION LOOP AND ADD FLEXIBLE COUPLINGS ON EITHER SIDE.
3 PROVIDE A 4" STORZ FIRE DEPARTMENT CONNECTION WITH A CAP AND SHANK. FIRE DEPARTMENT CONNECTION SHALL BE LOCATED WITHIN 100 FEET OF A FIRE HYDRANT. PROVIDE ELECTRIC ALARM BELL TO BE MOUNTED TO THE FDC.

GENERAL NOTES

1. WITHIN AREA OF SCOPE EXTEND NEW 4" SPRINKLER MAIN PIPING FROM A NEW ZONE CONTROL VALVE. CONTRACTOR SHALL SIZE BRANCH PIPING TO ALLOW FOR VELOCITY WILL REMAIN BELOW 20 FPS. PROVIDE QUICK RESPONSE UPRIGHTS IN OPEN CEILING AREAS AND CONCEALED PENDENTS IN AREAS WHERE DROP CEILINGS ARE INDICATED. EXTEND NEW 1" ANCHORS TO NEW CONCEALED PENDENTS. 1" SPRIGS SHALL BE ROUTED TO UPRIGHTS WITHIN 12" OF DECK. DESIGN INTENT IS TO PROVIDE A CODE COMPLIANT SPRINKLER LAYOUT FOR THE NEW PROGRAM LAYOUT. CONTRACTOR IS REQUIRE TO SUBMIT HYDRAULIC CALCULATIONS TERMINATED AT THE HYDRANT OUTLET.
2. PROVIDE PROTECTIVE SPRINKLER GUARDS ON SPRINKLER HEADS LOCATED BELOW 7'-0" A.F.F. IN MECHANICAL ROOMS, STORAGE ROOMS, PUMP ROOMS, SERVICE AREAS, GYMNASIUMS REGARDLESS OF SPRINKLER HEAD ELEVATION AND WHERE OTHERWISE SUSCEPTIBLE TO DAMAGE.
3. SPRINKLERS SHALL BE PROVIDED WITH MAXIMUM SPACING OF 6 FEET NEAR STAIR FLOOR OPENINGS.
4. SPRINKLERS SHALL BE PROVIDED BENEATH MECHANICAL DUCTWORK AND/OR GROUPS OF MECHANICAL DUCTWORK GREATER THAN 4 FT IN WIDTH. WHERE DUCTWORK INTERFERE WITH SPRINKLERS, ADDITIONAL COVERAGE SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13.
5. CONCEALED SPRINKLER HEAD FINISHES TO MATCH CEILING COLOR. UNLESS OTHERWISE NOTED REFER TO ARCHITECTURAL DRAWINGS.
6. SPRINKLERS SHALL BE PROVIDED BENEATH ACCESSIBLE LANDINGS. PIPING AND FITTINGS SHALL BE PROVIDED TO SPRINKLERS BENEATH ACCESSIBLE LANDINGS AND AT MAIN LANDINGS. LOCATION OF ALL EXPOSED PIPING SHALL BE FIELD COORDINATED WITH ARCHITECT.
7. DRY PENDENTS AND/OR DRY SIDEWALLS SHALL BE PROVIDED IN ROOMS/AREAS WHERE THE OPERATING TEMPERATURE IS LESS THAN 40F.
8. SPRINKLERS SHALL BE PROVIDED BENEATH FIXTURES GREATER THAN 4 FT IN WIDTH.



1 FIRE PROTECTION FIRST FLOOR PLAN - AREA B
1/8" = 1'-0"



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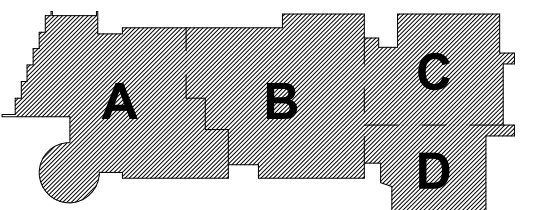
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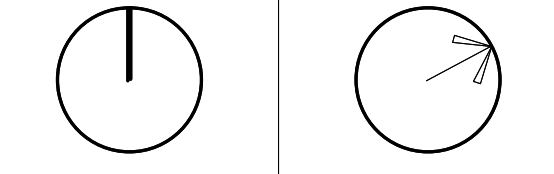


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August 4th, 2022



KEY PLAN

PROJECT NORTH
MAGNETIC NORTH



FIRE
PROTECTION
FIRST FLOOR
PLAN - AREA B

Scale: 1/8" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022
FP1-1-1B

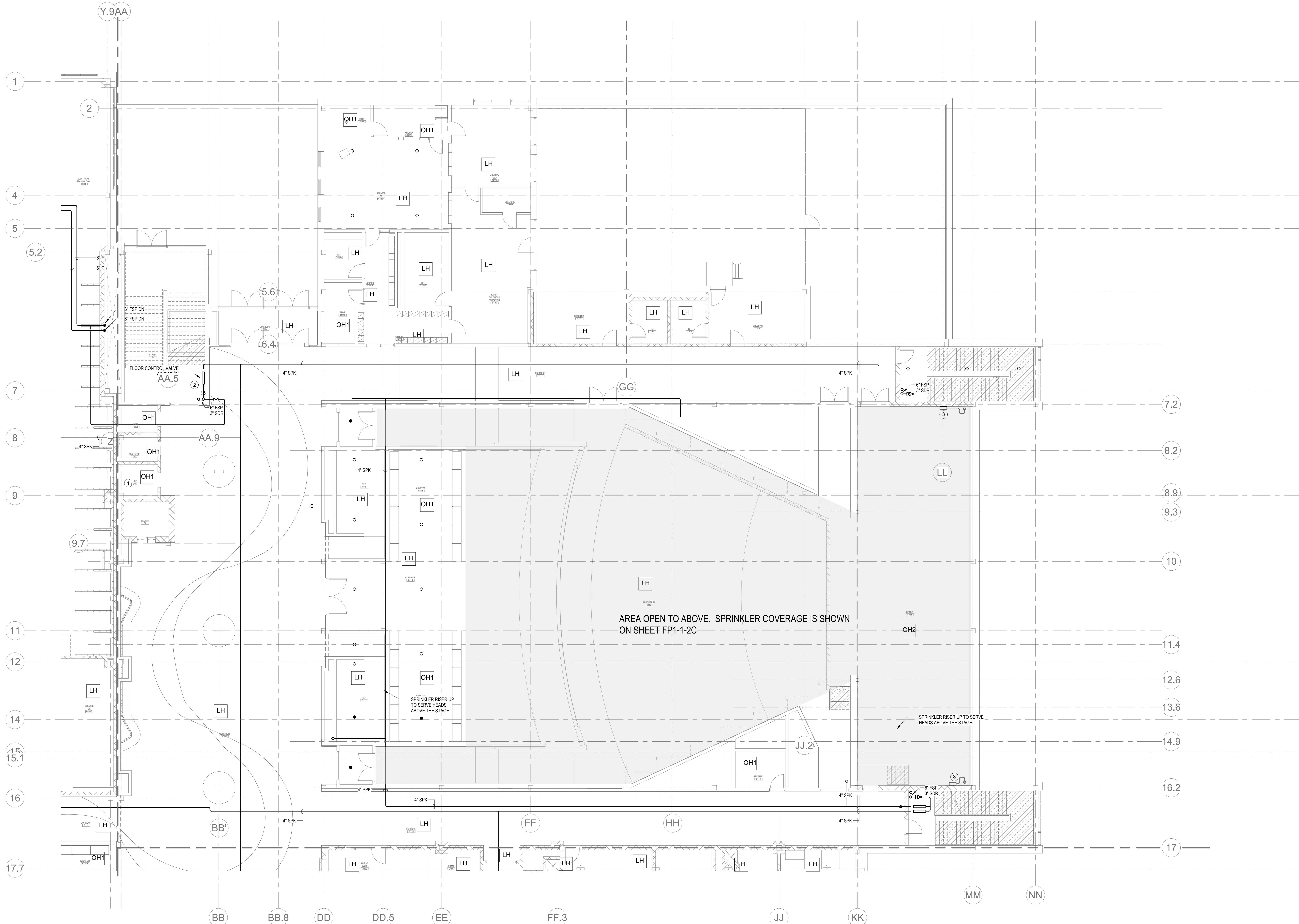
KEYNOTES

- LH LIGHT HAZARD OCCUPANCY
OH ORDINARY HAZARD OCCUPANCY
EH EXTRA HAZARD OCCUPANCY

- 1 THE INDICATED AREA SHALL BE PROTECTED BY SPRINKLERS WITH A
EXTRA HAZARD GROUP 2 EQUIVALENT SPRINKLER DESIGN CRITERIA PER
NFPA 13.
2 PROVIDE 4" FLOOR CONTROL VALVE. THE FLOOR CONTROL VALVE SHALL
CONSIST OF A BUTTERFLY VALVE, CHECK VALVE, FLOW SWITCH,
PRESSURE GAUGE AND MAIN DRAIN VALVE WITH INSPECTOR'S TEST
CONNECTION.
3 PROVIDE A FIRE HOSE VALVE CABINET ON EACH SIDE OF THE STAGE IN
ACCORDANCE WITH 780 CMR 906.3.4.

GENERAL NOTES

1. WITHIN AREA OF SCOPE EXTEND NEW 4" SPRINKLER MAIN PIPING FROM A NEW ZONE
CONTROL VALVE. CONTRACTOR SHALL SIZE BRANCH PIPING TO ALLOW FOR VELOCITY
WILL REMAIN BELOW 20 FPS. PROVIDE QUICK RESPONSE UPRIGHTS IN OPEN CEILING
AREAS AND CONCEALED PENDENTS IN AREAS WHERE DROP CEILINGS ARE INDICATED.
EXTEND NEW 1" ANCHORS TO NEW CONCEALED PENDENTS. 1" SPRIGS SHALL BE
ROUTED TO UPRIGHTS WITHIN 12" OF DECK. DESIGN INTENT IS TO PROVIDE A CODE
COMPLIANT SPRINKLER LAYOUT FOR THE NEW PROGRAM LAYOUT. CONTRACTOR IS
REQUIRED TO SUBMIT HYDRAULIC CALCULATIONS TERMINATED AT THE HYDRANT OUTLET.
2. PROVIDE PROTECTIVE SPRINKLER GUARDS ON SPRINKLER HEADS LOCATED BELOW 7'-0"
A.F.F. IN MECHANICAL ROOMS, STORAGE ROOMS, PUMP ROOMS, SERVICE AREAS,
GYMNASIUM REGARDLESS OF SPRINKLER HEAD ELEVATION AND WHERE OTHERWISE
SUSCEPTIBLE TO DAMAGE.
3. SPRINKLERS SHALL BE PROVIDED WITH MAXIMUM SPACING OF 6 FEET NEAR STAIR
FLOOR OPENINGS.
4. SPRINKLERS SHALL BE PROVIDED BENEATH MECHANICAL DUCTWORK AND/OR GROUPS
OF MECHANICAL DUCTWORK GREATER THAN 4 FT IN WIDTH. WHERE DUCTWORK
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5. CONCEALED SPRINKLER HEAD FINISHES TO MATCH CEILING COLOR. UNLESS OTHERWISE
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6. SPRINKLERS SHALL BE PROVIDED BENEATH ACCESSIBLE LANDINGS. PIPING AND
FITTINGS SHALL BE PROVIDED TO SPRINKLERS BENEATH ACCESSIBLE LANDINGS AND AT
MAIN LANDING. LOCATION OF ALL EXPOSED PIPING SHALL BE FIELD COORDINATED WITH
ARCHITECT.
7. DRY PENDENTS AND/OR DRY SIDEWALLS SHALL BE PROVIDED IN ROOMS/AREAS WHERE
THE OPERATING TEMPERATURE IS LESS THAN 40F.
8. SPRINKLERS SHALL BE PROVIDED BENEATH FIXTURES GREATER THAN 4 FT IN WIDTH.



1 FIRE PROTECTION FIRST FLOOR PLAN - AREA C
FP1-1-1C
1/8" = 1'-0"



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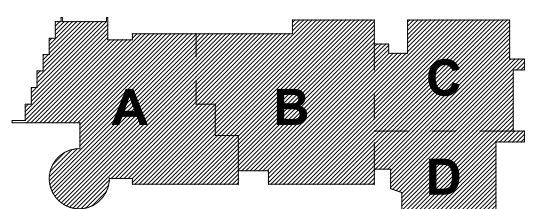
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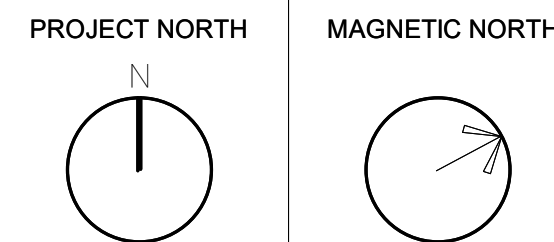
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August 4th, 2022



KEY PLAN



FIRE
PROTECTION
FIRST FLOOR
PLAN - AREA C

Scale: 1/8" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022
FP1-1-1C

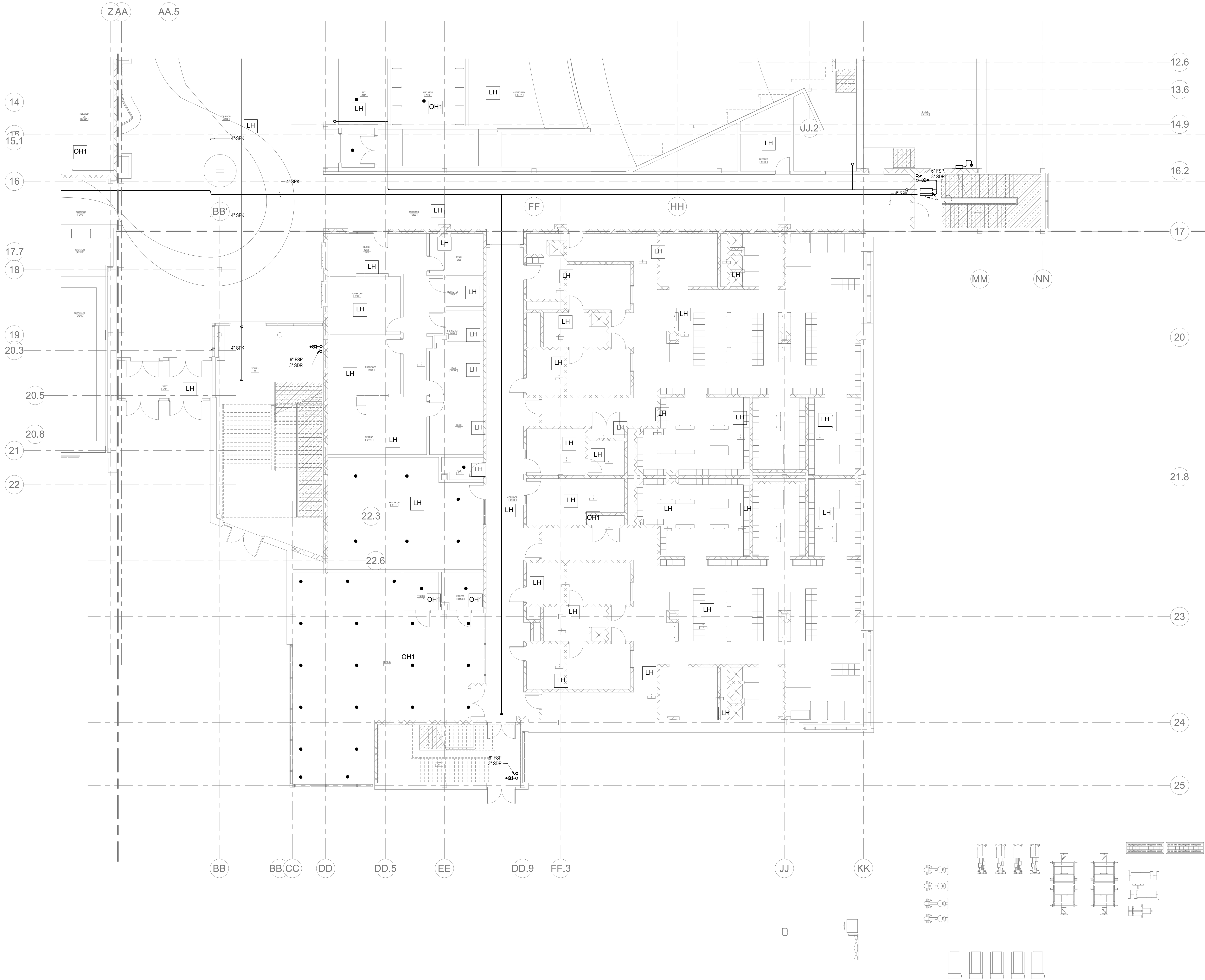
KEYNOTES

- LH LIGHT HAZARD OCCUPANCY
OH ORDINARY HAZARD OCCUPANCY
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1. PROVIDE 4" FLOOR CONTROL VALVE. THE FLOOR CONTROL VALVE SHALL CONSIST OF A BUTTERFLY VALVE, CHECK VALVE, FLOW SWITCH, PRESSURE GAUGE AND MAIN DRAIN VALVE WITH INSPECTOR'S TEST CONNECTION.

GENERAL NOTES

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1. FIRE PROTECTION FIRST FLOOR PLAN - AREA D
1/8" = 1'-0"



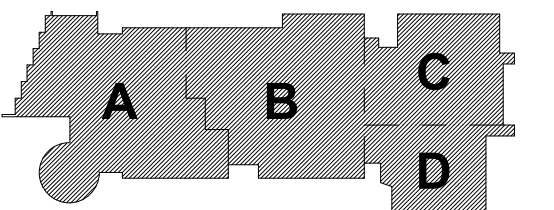
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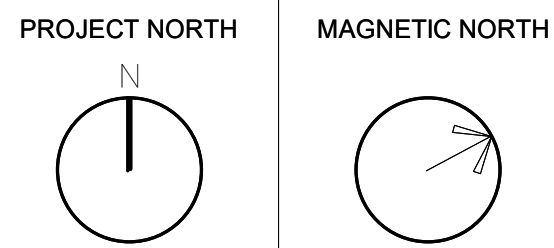
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August 4th, 2022



KEY PLAN



**FIRE
PROTECTION
FIRST FLOOR
PLAN - AREA D**

Scale: 1/8" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022
FP1-1-1D

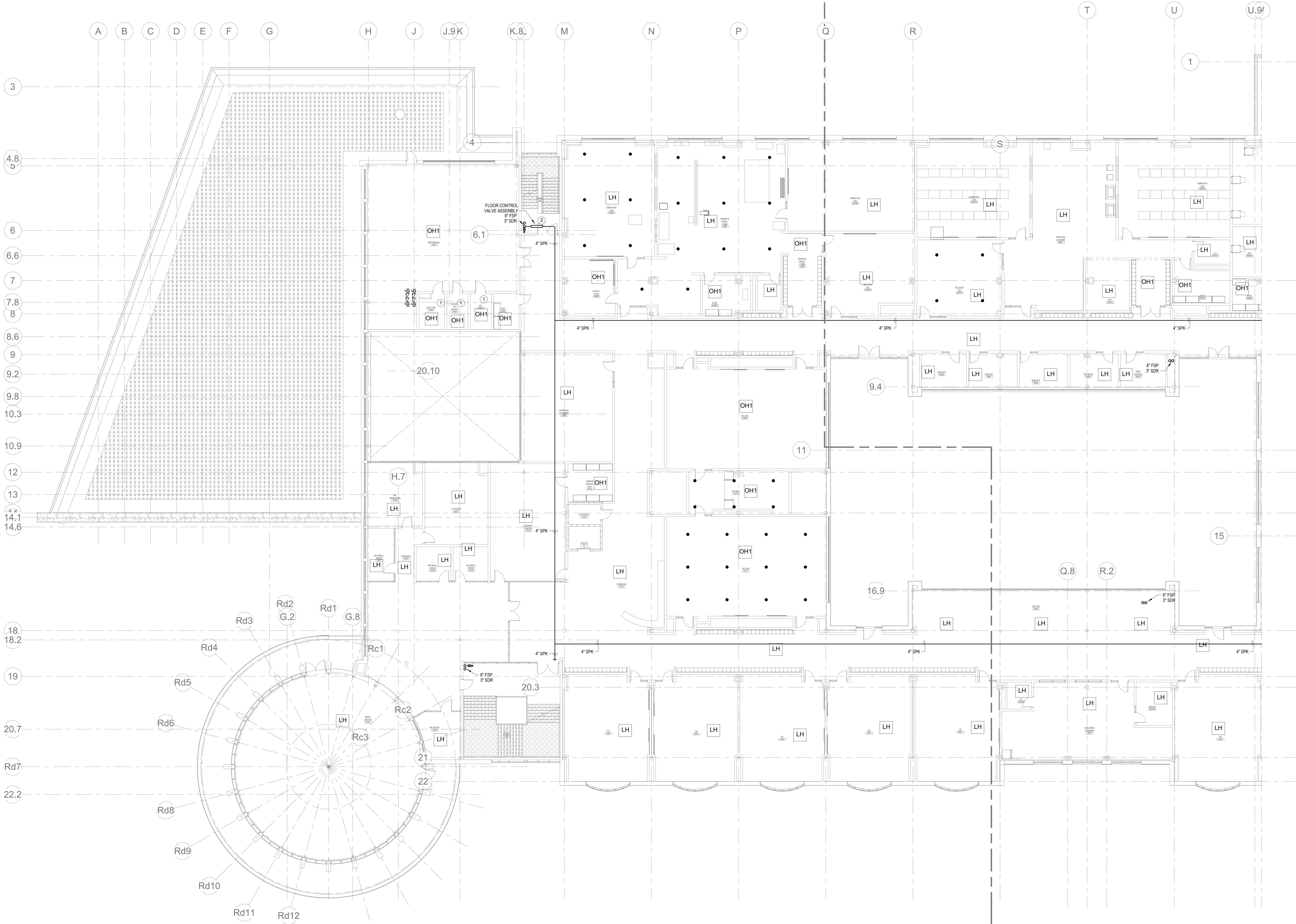
GENERAL NOTES

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3. SPRINKLERS SHALL BE PROVIDED WITH MAXIMUM SPACING OF 8 FEET NEAR STAIR FLOOR OPENINGS.
4. SPRINKLERS SHALL BE PROVIDED BENEATH MECHANICAL DUCTWORK AND/OR GROUPS OF MECHANICAL DUCTWORK GREATER THAN 4 FT IN WIDTH. WHERE DUCTWORK INTERFERES WITH SPRINKLERS, ADDITIONAL COVERAGE SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13.
5. CONCEALED SPRINKLER HEAD FINISHES TO MATCH CEILING COLOR. UNLESS OTHERWISE NOTED REFER TO ARCHITECTURAL DRAWINGS.
6. SPRINKLERS SHALL BE PROVIDED BENEATH ACCESSIBLE LANDINGS. PIPING AND FITTINGS SHALL BE PROVIDED TO SPRINKLERS BENEATH ACCESSIBLE LANDINGS AND AT MAIN LANDINGS. LOCATION OF ALL EXPOSED PIPING SHALL BE FIELD COORDINATED WITH ARCHITECT.
7. DRY PENDENTS AND/OR DRY SIDEWALLS SHALL BE PROVIDED IN ROOMS/AREAS WHERE THE OPERATING TEMPERATURE IS LESS THAN 40°.
8. SPRINKLERS SHALL BE PROVIDED BENEATH FIXTURES GREATER THAN 4 FT IN WIDTH.

KEYNOTES

- LH LIGHT HAZARD OCCUPANCY
OH ORDINARY HAZARD OCCUPANCY
EH EXTRA HAZARD OCCUPANCY

- 1 THE INDICATED AREA SHALL BE PROTECTED BY SPRINKLERS WITH A EXTRA HAZARD GROUP 2 EQUIVA SPRINKLER DESIGN CRITERIA PER NFPA 13.
2 PROVIDE 4" FLOOR CONTROL VALVE. THE FLOOR CONTROL VALVE SHALL CONSIST OF A BUTTERFLY VALVE, CHECK VALVE, FLOW SWITCH, PRESSURE GAUGE AND MAIN DRAIN VALVE WITH INSPECTOR'S TEST CONNECTION.



1 FIRE PROTECTION Level 2 Area A
3/32" = 1'-0"

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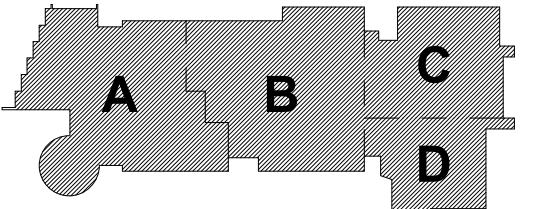
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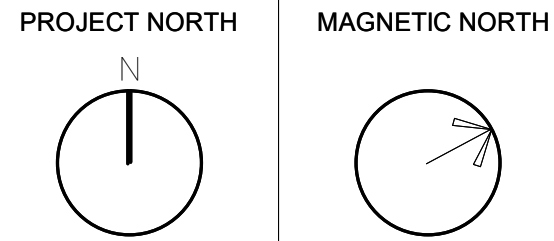
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SUBMISSION
August 4th, 2022



KEY PLAN



FIRE
PROTECTION
SECOND FLOOR
PLAN - AREA A

Scale: 3/32" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022

FP1-1-2A

- KEYNOTES**
- LH LIGHT HAZARD OCCUPANCY
OH ORDINARY HAZARD OCCUPANCY
EH EXTRA HAZARD OCCUPANCY

- ① THE INDICATED AREA SHALL BE PROTECTED BY SPRINKLERS WITH A EXTRA HAZARD GROUP 2 EQUIVA SPRINKLER DESIGN CRITERIA PER NFPA 13.
- GENERAL NOTES**
1. WITHIN AREA OF SCOPE EXTEND NEW 1" SPRINKLER MAIN PIPING FROM A NEW ZONE CONTROL VALVE. CONTRACTOR SHALL SIZE BRANCH PIPING TO ALLOW FOR VELOCITY WILL REMAIN BELOW 20 FPS. PROVIDE QUICK RESPONSE UPRIGHTS IN OPEN CEILING AREAS AND CONCEALED PENDENTS IN AREAS WHERE DROP CEILING ARE INDICATED. EXTEND NEW 1" ARMOVERS TO NEW CONCEALED PENDENTS. 1" SPIROS SHALL BE ROUTED TO UPRIGHTS WITHIN 12" OF DECK. DESIGN INTENT IS TO PROVIDE A CODE COMPLIANT SPRINKLER LAYOUT FOR THE NEW PROGRAM LAYOUT. CONTRACTOR IS REQUIRE TO SUBMIT HYDRAULIC CALCULATIONS TERMINATED AT THE HYDRANT OUTLET.
2. PROVIDE PROTECTIVE SPRINKLER GUARDS ON SPRINKLER HEADS LOCATED BELOW 7'-0" A.F.F. IN MECHANICAL ROOMS, STORAGE ROOMS, PUMP ROOMS, SERVICE AREAS, GYMNASIUMS REGARDLESS OF SPRINKLER HEAD ELEVATION AND WHERE OTHERWISE SUSCEPTIBLE TO DAMAGE.
3. SPRINKLERS SHALL BE PROVIDED WITH MAXIMUM SPACING OF 8 FEET NEAR STAIR FLOOR OPENINGS.
4. SPRINKLERS SHALL BE PROVIDED BENEATH MECHANICAL DUCTWORK AND/OR GROUPS OF MECHANICAL DUCTWORK GREATER THAN 4 FT IN WIDTH. WHERE DUCTWORK INTERFERE WITH SPRINKLERS, ADDITIONAL COVERAGE SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13.
5. CONCEALED SPRINKLER HEAD FINISHES TO MATCH CEILING COLOR. UNLESS OTHERWISE NOTED REFER TO ARCHITECTURAL DRAWINGS.
6. SPRINKLERS SHALL BE PROVIDED BENEATH ACCESSIBLE LANDINGS. PIPING AND FITTINGS SHALL BE PROVIDED TO SPRINKLERS BENEATH ACCESSIBLE LANDINGS AND AT MAIN LANDING. LOCATION OF ALL EXPOSED PIPING SHALL BE FIELD COORDINATED WITH ARCHITECT.
7. DRY PENDENTS AND/OR DRY SIDEWALLS SHALL BE PROVIDED IN ROOMS/AREAS WHERE THE OPERATING TEMPERATURE IS LESS THAN 40°F.
8. SPRINKLERS SHALL BE PROVIDED BENEATH FIXTURES GREATER THAN 4 FT IN WIDTH.



① FIRE PROTECTION SECOND FLOOR PLAN - AREA B
1/8" = 1'-0"

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August 4th, 2022

A B C D

KEY PLAN

PROJECT NORTH

MAGNETIC NORTH

FIRE
PROTECTION
SECOND FLOOR
PLAN - AREA B

Scale: 1/8" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022

FP1-1-2B

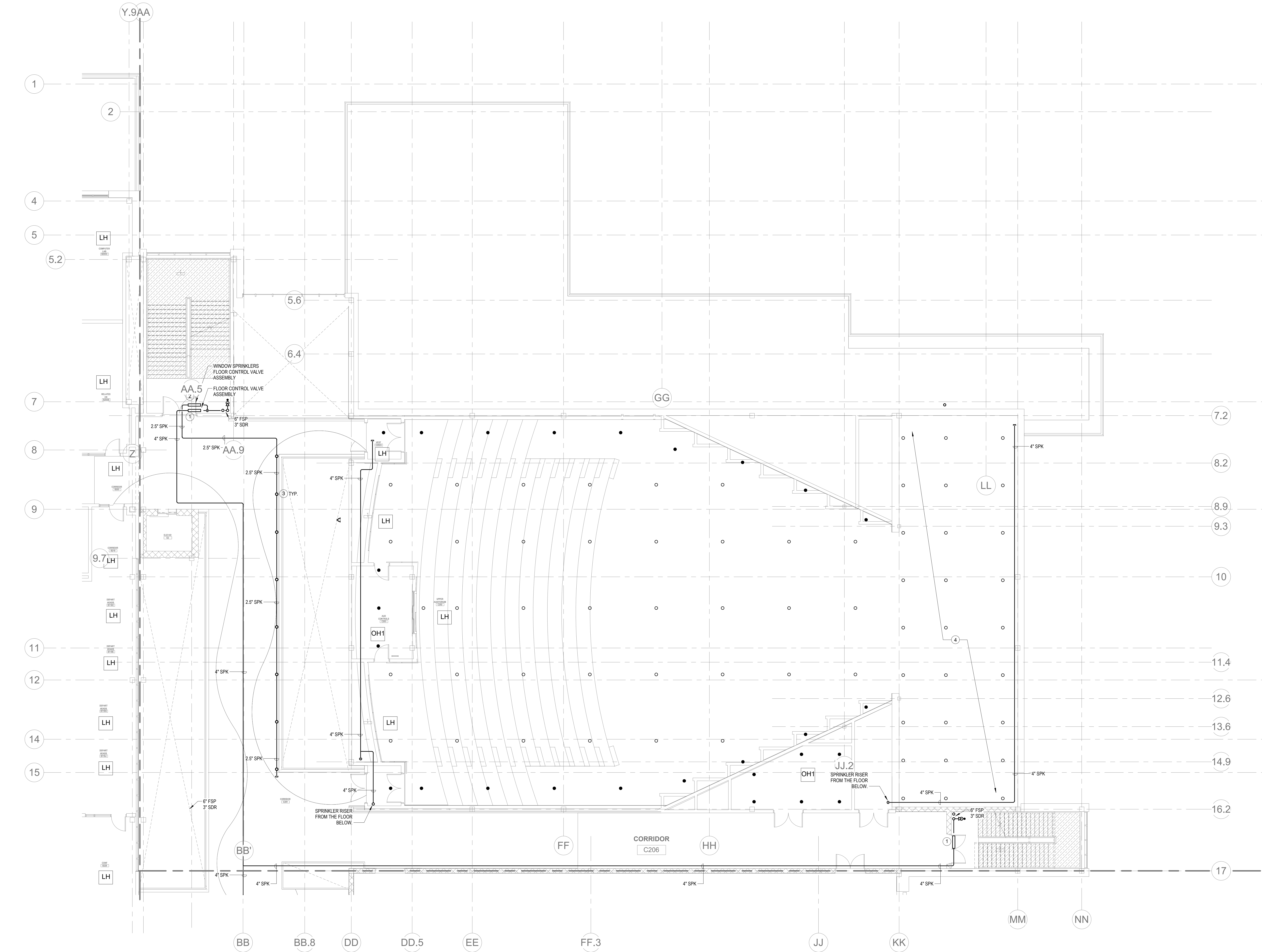
KEYNOTES

- LH LIGHT HAZARD OCCUPANCY
OH ORDINARY HAZARD OCCUPANCY
EH EXTRA HAZARD OCCUPANCY

- 1 PROVIDE 4" FLOOR CONTROL VALVE. THE FLOOR CONTROL VALVE SHALL CONSIST OF A BUTTERFLY VALVE, CHECK VALVE, FLOW SWITCH, PRESSURE GAUGE AND MAIN DRAIN VALVE WITH INSPECTOR'S TEST CONNECTION.
2 PROVIDE 2.5" FLOOR CONTROL VALVE FOR THE WINDOW SPRINKLERS. THE FLOOR CONTROL VALVE SHALL CONSIST OF A BUTTERFLY VALVE, CHECK VALVE, FLOW SWITCH, PRESSURE GAUGE AND MAIN DRAIN VALVE WITH INSPECTOR'S TEST CONNECTION.
3 PROVIDE WINDOW SPRINKLERS WITHIN 2 IN. OF THE GLASS PARTITIONS IN ACCORDANCE WITH NFPA 13 TABLE 7.8.4. THESE SPRINKLERS SHALL BE SPACED NOT MORE THAN 10 FT FROM EACH OTHER.
4 PROVIDE SPRINKLER PROTECTION UNDERNEATH CATWALK ABOVE THE STAGE IN ACCORDANCE WITH 780 CMR 410.7.

GENERAL NOTES

1. WITHIN AREA OF SCOPE EXTEND NEW 4" SPRINKLER MAIN PIPING FROM A NEW ZONE CONTROL VALVE. CONTRACTOR SHALL SIZE BRANCH PIPING TO ALLOW FOR VELOCITY WILL REMAIN BELOW 20 FPS. PROVIDE QUICK RESPONSE UPRIGHTS IN OPEN CEILING AREAS AND CONCEALED PENDENTS IN AREAS WHERE DROP CEILINGS ARE INDICATED. EXTEND NEW 1" RINKLERS TO NEW CONCEALED PENDENTS. 1" SPRIGS SHALL BE ROUTED TO UPRIGHTS WITHIN 12" OF DECK. DESIGN INTENT IS TO PROVIDE A CODE COMPLIANT SPRINKLER LAYOUT FOR THE NEW PROGRAM LAYOUT. CONTRACTOR IS REQUIRE TO SUBMIT HYDRAULIC CALCULATIONS TERMINATED AT THE HYDRANT OUTLET.
2. PROVIDE PROTECTIVE SPRINKLER GUARDS ON SPRINKLER HEADS LOCATED BELOW 7'-0" A.F.T. IN MECHANICAL ROOMS, STORAGE ROOMS, PUMP ROOMS, SERVICE AREAS, GYMNASIUMS REGARDLESS OF SPRINKLER HEAD ELEVATION AND WHERE OTHERWISE SUSCEPTIBLE TO DAMAGE.
3. SPRINKLERS SHALL BE PROVIDED WITH MAXIMUM SPACING OF 6 FEET NEAR STAIR FLOOR OPENINGS.
4. SPRINKLERS SHALL BE PROVIDED BENEATH MECHANICAL DUCTWORK AND/OR GROUPS OF MECHANICAL DUCTWORK GREATER THAN 4 FT IN WIDTH. WHERE DUCTWORK INTERFERES WITH SPRINKLERS, ADDITIONAL COVERAGE SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13.
5. CONCEALED SPRINKLER HEAD FINISHES TO MATCH CEILING COLOR. UNLESS OTHERWISE NOTED REFER TO ARCHITECTURAL DRAWINGS.
6. SPRINKLERS SHALL BE PROVIDED BENEATH ACCESSIBLE LANDINGS. PIPING AND FITTINGS SHALL BE PROVIDED TO SPRINKLERS BENEATH ACCESSIBLE LANDINGS AND AT MAIN LANDING. LOCATION OF ALL EXPOSED PIPING SHALL BE FIELD COORDINATED WITH ARCHITECT.
7. DRY PENDENTS AND/OR DRY SIDEWALLS SHALL BE PROVIDED IN ROOMS/AREAS WHERE THE OPERATING TEMPERATURE IS LESS THAN 40F.
8. SPRINKLERS SHALL BE PROVIDED BENEATH FIXTURES GREATER THAN 4 FT IN WIDTH.



1 FIRE PROTECTION SECOND FLOOR PLAN - AREA C
1/8" = 1'-0"



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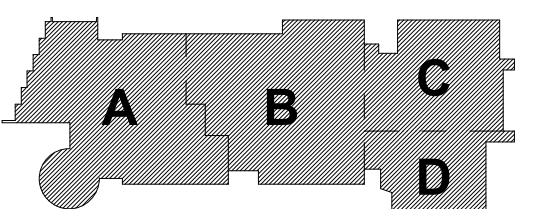
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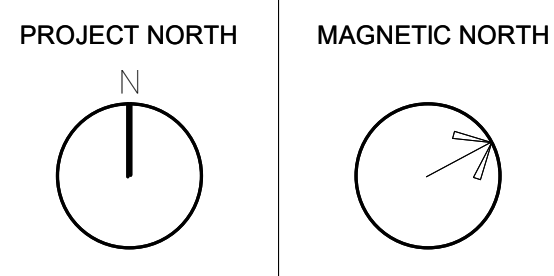
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August 4th, 2022



KEY PLAN



FIRE
PROTECTION
SECOND FLOOR
PLAN - AREA C

Scale: 1/8" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022

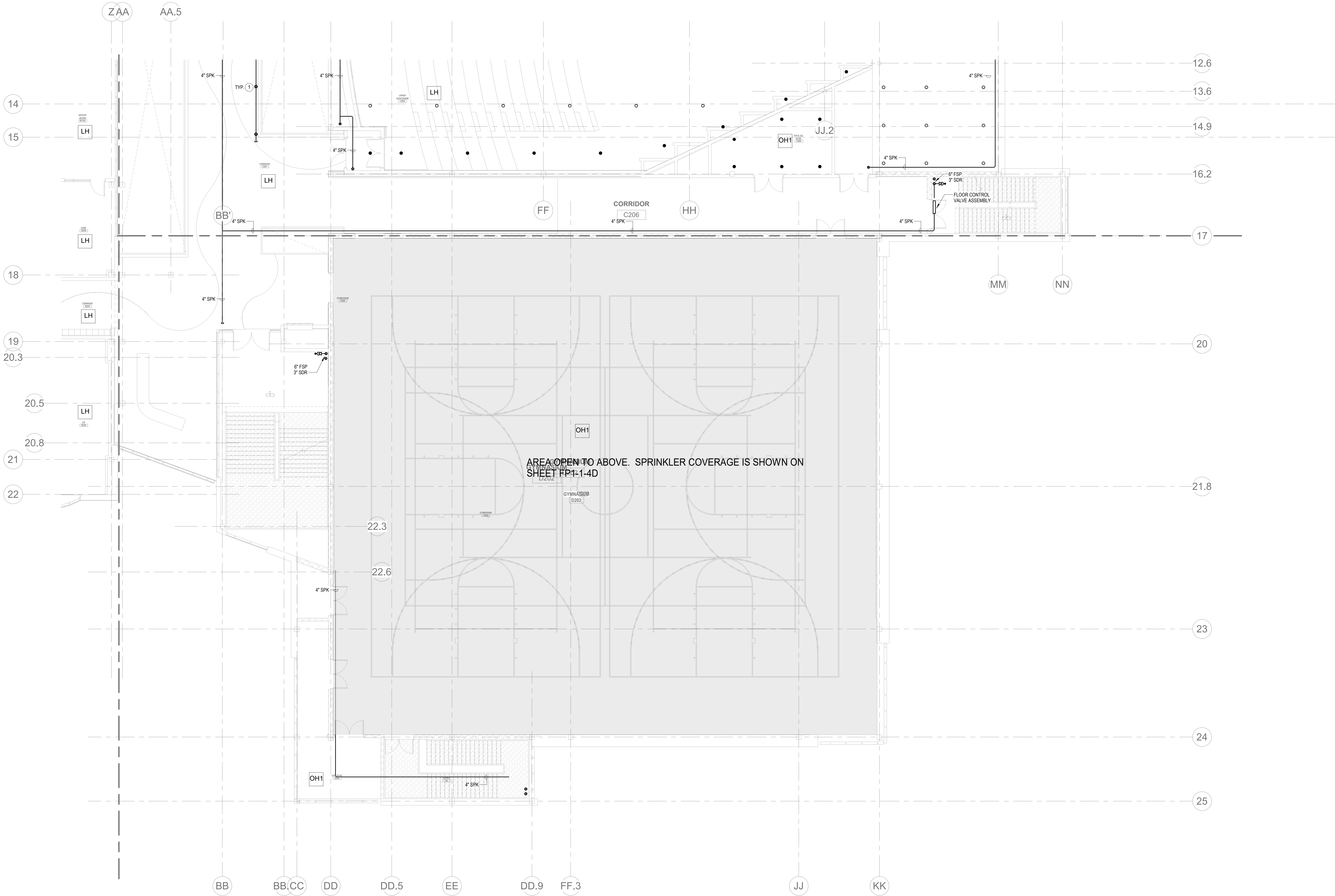
FP1-1-2C

- KEYNOTES
- LH LIGHT HAZARD OCCUPANCY
- OH ORDINARY HAZARD OCCUPANCY
- EH EXTRA HAZARD OCCUPANCY

- 1 PROVIDE WINDOW SPRINKLERS WITHIN 2 IN. OF THE GLASS PARTITIONS IN ACCORDANCE WITH NFPA 13 TABLE 7.8.4. THESE SPRINKLERS SHALL BE SPACED NOT MORE THAN 10 FT FROM EACH OTHER.

GENERAL NOTES

1. WITHIN AREA OF SCOPE EXTEND NEW 4" SPRINKLER MAIN PIPING FROM A NEW ZONE CONTROL VALVE. CONTRACTOR SHALL SIZE BRANCH PIPING TO ALLOW FOR VELOCITY WILL REMAIN BELOW 20 FPS. PROVIDE QUICK RESPONSE UPRIGHTS IN OPEN CEILING AREAS AND CONCEALED PENDENTS IN AREAS WHERE DROP CEILINGS ARE INDICATED. EXTEND NEW 1" RUNNERS TO NEW CONCEALED PENDENTS. 1" SPRINGS SHALL BE ROUTED TO UPRIGHTS WITHIN 12" OF DECK. DESIGN INTENT IS TO PROVIDE A CODE COMPLIANT SPRINKLER LAYOUT FOR THE NEW PROGRAM LAYOUT. CONTRACTOR IS REQUIRE TO SUBMIT HYDRAULIC CALCULATIONS TERMINATED AT THE HYDRANT OUTLET.
2. PROVIDE PROTECTIVE SPRINKLER GUARDS ON SPRINKLER HEADS LOCATED BELOW 7'-0" A.F.F. IN MECHANICAL ROOMS, STORAGE ROOMS, PUMP ROOMS, SERVICE AREAS, GYMNASIUMS REGARDLESS OF SPRINKLER HEAD ELEVATION AND WHERE OTHERWISE SUSCEPTIBLE TO DAMAGE.
3. SPRINKLERS SHALL BE PROVIDED WITH MAXIMUM SPACING OF 6 FEET NEAR STAIR FLOOR OPENINGS.
4. SPRINKLERS SHALL BE PROVIDED BENEATH MECHANICAL DUCTWORK AND/OR GROUPS OF MECHANICAL DUCTWORK GREATER THAN 4 FT IN WIDTH. WHERE DUCTWORK INTERFERE WITH SPRINKLERS, ADDITIONAL COVERAGE SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13.
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6. SPRINKLERS SHALL BE PROVIDED BENEATH ACCESSIBLE LANDINGS. PIPING AND FITTINGS SHALL BE PROVIDED TO SPRINKLERS BENEATH ACCESSIBLE LANDINGS AND AT MAIN LANDING. LOCATION OF ALL EXPOSED PIPING SHALL BE FIELD COORDINATED WITH ARCHITECT.
7. DRY PENDENTS AND/OR DRY SIDEWALLS SHALL BE PROVIDED IN ROOMS/AREAS WHERE THE OPERATING TEMPERATURE IS LESS THAN 40F.
8. SPRINKLERS SHALL BE PROVIDED BENEATH FIXTURES GREATER THAN 4 FT IN WIDTH.



1 FIRE PROTECTION SECOND FLOOR PLAN - AREA D
1/8" = 1'-0"



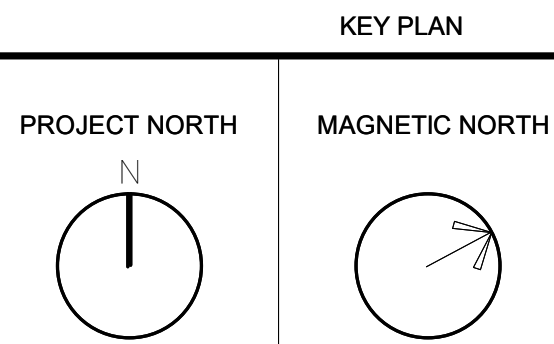
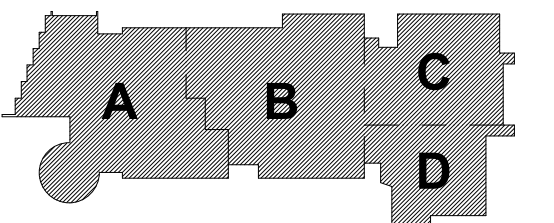
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FIRE
PROTECTION
SECOND FLOOR
PLAN - AREA D

Scale: 1/8" = 1'-0"
Job No.: 2002
Drawn By: DRA
Date: August 4th, 2022
FP1-1-2D

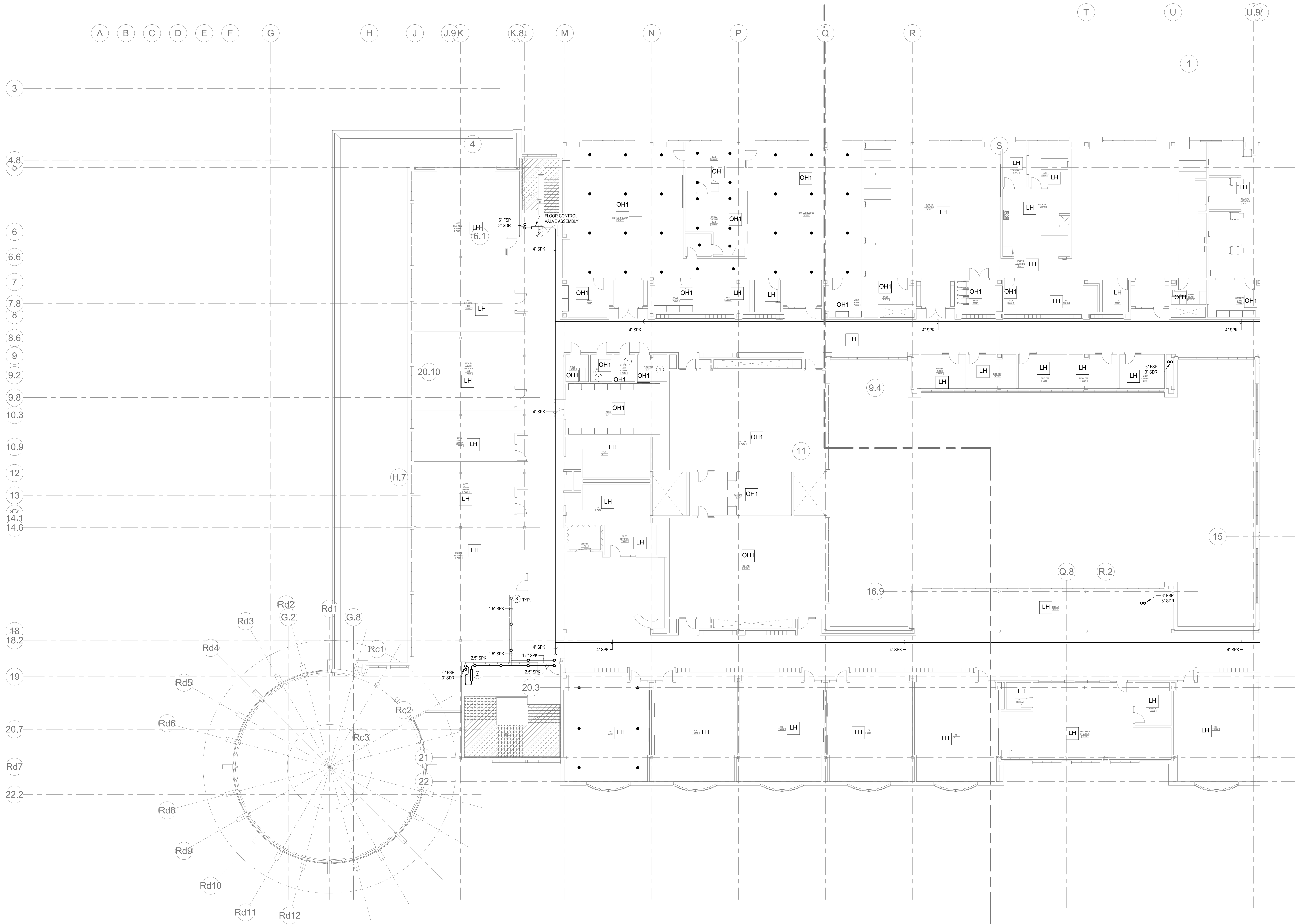
GENERAL NOTES

1. WITHIN AREA OF SCOPE EXTEND NEW 4" SPRINKLER MAIN PIPING FROM A NEW ZONE CONTROL VALVE. CONTRACTOR SHALL SIZE BRANCH PIPING TO ALLOW FOR VELOCITY WILL REMAIN BELOW 20 FPS. PROVIDE QUICK RESPONSE UPRIGHTS IN OPEN CEILING AREAS AND CONCEALED PENDENTS IN AREAS WHERE DROP CEILINGS ARE INDICATED. EXTEND NEW 1" BRANCHES TO NEW CONCEALED PENDENTS. 1" SPRINGS SHALL BE ROUTED TO UPRIGHTS WITHIN 12" OF DECK. DESIGN INTENT IS TO PROVIDE A CODE COMPLIANT SPRINKLER LAYOUT FOR THE NEW PROGRAM LAYOUT. CONTRACTOR IS REQUIRE TO SUBMIT HYDRAULIC CALCULATIONS TERMINATED AT THE HYDRANT OUTLET.
2. PROVIDE PROTECTIVE SPRINKLER GUARDS ON SPRINKLER HEADS LOCATED BELOW 7'-0" A.F.F. IN MECHANICAL ROOMS, STORAGE ROOMS, PUMP ROOMS, SERVICE AREAS, GYMNASIUMS REGARDLESS OF SPRINKLER HEAD ELEVATION AND WHERE OTHERWISE SUSCEPTIBLE TO DAMAGE.
3. SPRINKLERS SHALL BE PROVIDED WITH MAXIMUM SPACING OF 6 FEET NEAR STAIR FLOOR OPENINGS.
4. SPRINKLERS SHALL BE PROVIDED BENEATH MECHANICAL DUCTWORK AND/OR GROUPS OF MECHANICAL DUCTWORK GREATER THAN 4 FT IN WIDTH. WHERE DUCTWORK INTERFERE WITH SPRINKLERS, ADDITIONAL COVERAGE SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13.
5. CONCEALED SPRINKLER HEAD FINISHES TO MATCH CEILING COLOR. UNLESS OTHERWISE NOTED REFER TO ARCHITECTURAL DRAWINGS.
6. SPRINKLERS SHALL BE PROVIDED BENEATH ACCESSIBLE LANDINGS. PIPING AND FITTINGS SHALL BE PROVIDED TO SPRINKLERS BENEATH ACCESSIBLE LANDINGS AND AT MAIN LANDING. LOCATION OF ALL EXPOSED PIPING SHALL BE FIELD COORDINATED WITH ARCHITECT.
7. DRY PENDENTS AND/OR DRY SIDEWALLS SHALL BE PROVIDED IN ROOMS/AREAS WHERE THE OPERATING TEMPERATURE IS LESS THAN 40F.
8. SPRINKLERS SHALL BE PROVIDED BENEATH FIXTURES GREATER THAN 4 FT IN WIDTH.

KEYNOTES

- LH LIGHT HAZARD OCCUPANCY
OH ORDINARY HAZARD OCCUPANCY
EH EXTRA HAZARD OCCUPANCY

- 1 THE INDICATED AREA SHALL BE PROTECTED BY SPRINKLERS WITH A EXTRA HAZARD GROUP 2 EQUIVA SPRINKLER DESIGN CRITERIA PER NFPA 13.
2 PROVIDE 4" FLOOR CONTROL VALVE. THE FLOOR CONTROL VALVE SHALL CONSIST OF A BUTTERFLY VALVE, CHECK VALVE, FLOW SWITCH, PRESSURE GAUGE AND MAIN DRAIN VALVE WITH INSPECTORS TEST CONNECTION.
3 PROVIDE WINDOW SPRINKLERS WITHIN 2 IN. OF THE GLASS PARTITIONS IN ACCORDANCE WITH NFPA 13 TABLE 7.8.4. THESE SPRINKLERS SHALL BE SPACED NOT MORE THAN 10 FT FROM EACH OTHER.
4 PROVIDE 2.5" FLOOR CONTROL VALVE FOR THE WINDOW SPRINKLERS. THE FLOOR CONTROL VALVE SHALL CONSIST OF A BUTTERFLY VALVE, CHECK VALVE, FLOW SWITCH, PRESSURE GAUGE AND MAIN DRAIN VALVE WITH INSPECTORS TEST CONNECTION.



1 FIRE PROTECTION THIRD FLOOR PLAN - AREA A
3/32" = 1'-0"



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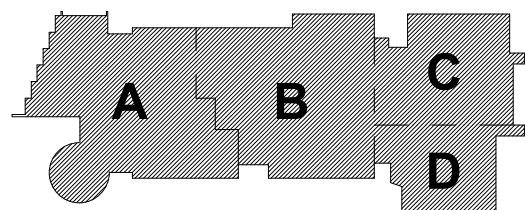
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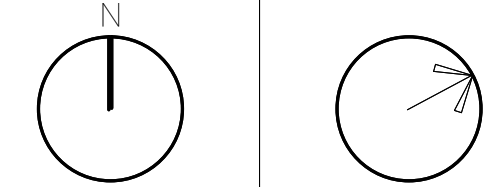


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August 4th, 2022



KEY PLAN

PROJECT NORTH
MAGNETIC NORTH



FIRE
PROTECTION
THIRD FLOOR
PLAN - AREA A

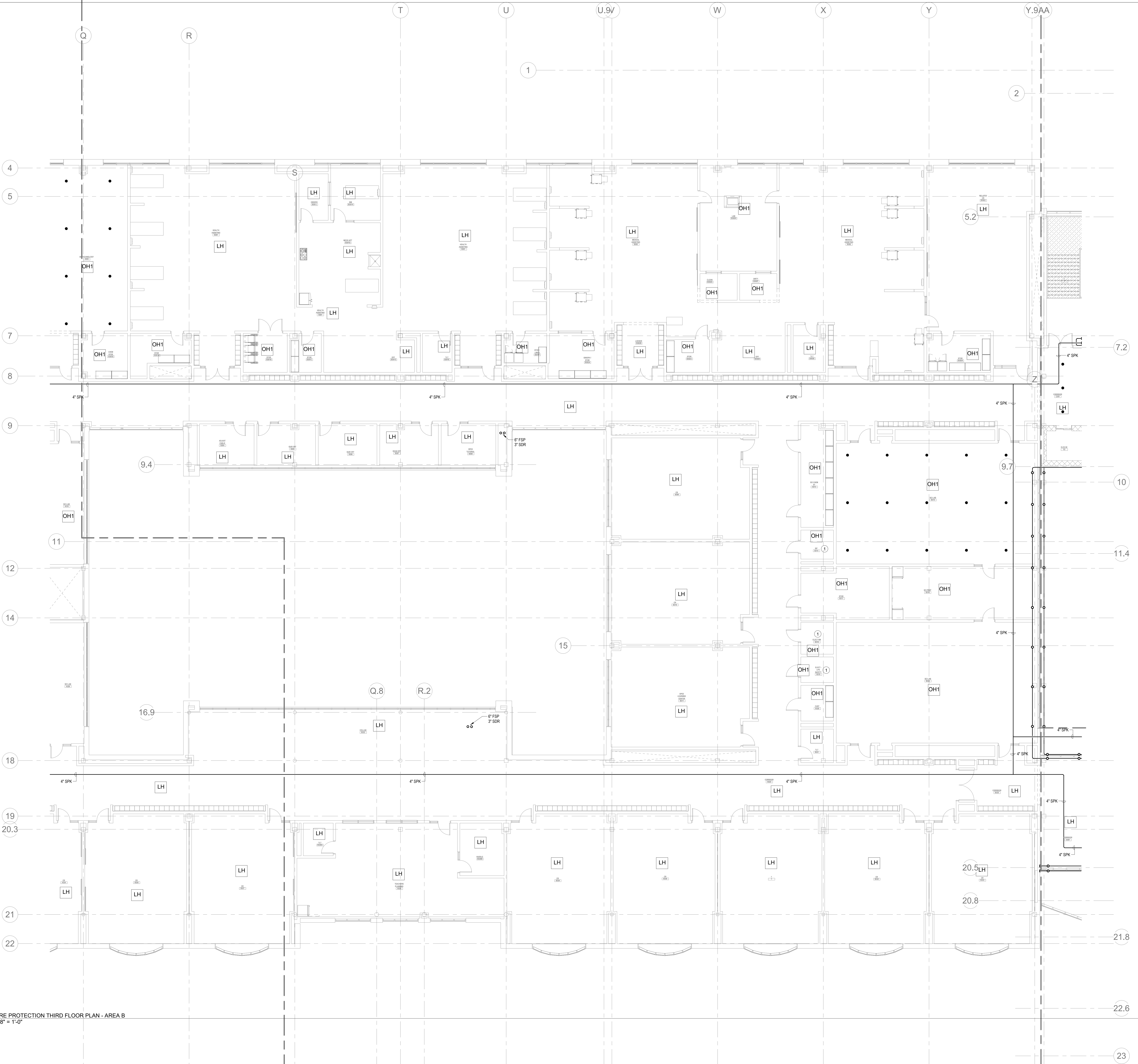
Scale: 3/32" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022

FP1-1-3A

- KEYNOTES
- LH LIGHT HAZARD OCCUPANCY
- OH ORDINARY HAZARD OCCUPANCY
- EH EXTRA HAZARD OCCUPANCY
- ① THE INDICATED AREA SHALL BE PROTECTED BY SPRINKLERS WITH A EXTRA HAZARD GROUP 2 EQUIVA SPRINKLER DESIGN CRITERIA PER NFPA 13.

GENERAL NOTES

1. WITHIN AREA OF SCOPE EXTEND NEW 4" SPRINKLER MAIN PIPING FROM A NEW ZONE CONTROL VALVE. CONTRACTOR SHALL SIZE BRANCH PIPING TO ALLOW FOR VELOCITY WILL REMAIN BELOW 20 FPS. PROVIDE QUICK RESPONSE UPRIGHTS IN OPEN CEILING AREAS AND CONCEALED PENDENTS IN AREAS WHERE DROP CEILINGS ARE INDICATED. EXTEND NEW 1" ARMEDERS TO NEW CONCEALED PENDENTS. 1" SPRIGS SHALL BE ROUTED TO UPRIGHTS WITHIN 12" OF DECK. DESIGN INTENT IS TO PROVIDE A CODE COMPLIANT SPRINKLER LAYOUT FOR THE NEW PROGRAM LAYOUT. CONTRACTOR IS REQUIRED TO SUBMIT HYDRAULIC CALCULATIONS TERMINATED AT THE HYDRANT OUTLET.
2. PROVIDE PROTECTIVE SPRINKLER GUARDS ON SPRINKLER HEADS LOCATED BELOW 7'-0" A.F.F. IN MECHANICAL ROOMS, STORAGE ROOMS, PUMP ROOMS, SERVICE AREAS, CYCLING AREAS REGARDLESS OF SPRINKLER HEAD ELEVATION AND WHERE OTHERWISE SUSCEPTIBLE TO DAMAGE.
3. SPRINKLERS SHALL BE PROVIDED WITH MAXIMUM SPACING OF 8 FEET NEAR STAIR FLOOR OPENINGS.
4. SPRINKLERS SHALL BE PROVIDED BENEATH MECHANICAL DUCTWORK AND/OR GROUPS OF MECHANICAL DUCTWORK GREATER THAN 4 FT IN WIDTH. WHERE DUCTWORK INTERFERE WITH SPRINKLERS, ADDITIONAL COVERAGE SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13.
5. CONCEALED SPRINKLER HEAD FINISHES TO MATCH CEILING COLOR. UNLESS OTHERWISE NOTED REFER TO ARCHITECTURAL DRAWINGS.
6. SPRINKLERS SHALL BE PROVIDED BENEATH ACCESSIBLE LANDINGS. PIPING AND FITTINGS SHALL BE PROVIDED TO SPRINKLERS BENEATH ACCESSIBLE LANDINGS AND AT MAIN LANDINGS. LOCATION OF ALL EXPOSED PIPING SHALL BE FIELD COORDINATED WITH ARCHITECT.
7. DRY PENDENTS AND/OR DRY SIDEWALLS SHALL BE PROVIDED IN ROOMS/AREAS WHERE THE OPERATING TEMPERATURE IS LESS THAN 40°F.
8. SPRINKLERS SHALL BE PROVIDED BENEATH FIXTURES GREATER THAN 4 FT IN WIDTH.



① FIRE PROTECTION THIRD FLOOR PLAN - AREA B
1/8" = 1'-0"

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A B C D

KEY PLAN

PROJECT NORTH
MAGNETIC NORTH

FIRE
PROTECTION
THIRD FLOOR
PLAN - AREA B

Scale: 1/8" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022

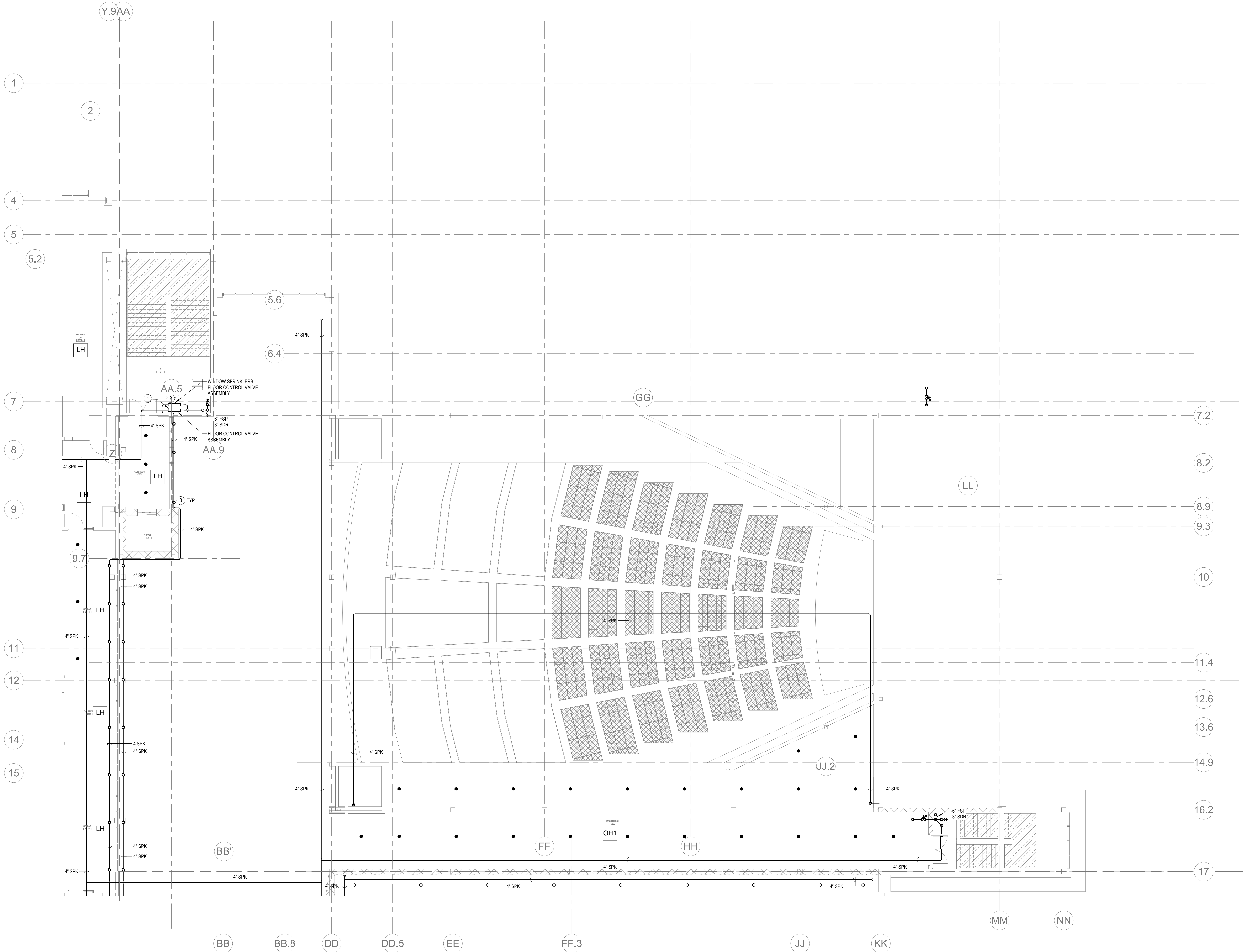
FP1-1-3B

- KEYNOTES
- LH LIGHT HAZARD OCCUPANCY
- OH ORDINARY HAZARD OCCUPANCY
- EH EXTRA HAZARD OCCUPANCY

- 1 PROVIDE 4" FLOOR CONTROL VALVE. THE FLOOR CONTROL VALVE SHALL CONSIST OF A BUTTERFLY VALVE, CHECK VALVE, FLOW SWITCH, PRESSURE GAUGE AND MAIN DRAIN VALVE WITH INSPECTOR'S TEST CONNECTION.
- 2 PROVIDE 4" FLOOR CONTROL VALVE FOR THE WINDOW SPRINKLERS. THE FLOOR CONTROL VALVE SHALL CONSIST OF A BUTTERFLY VALVE, CHECK VALVE, FLOW SWITCH, PRESSURE GAUGE AND MAIN DRAIN VALVE WITH INSPECTOR'S TEST CONNECTION.
- 3 PROVIDE WINDOW SPRINKLERS WITHIN 2 IN. OF THE GLASS PARTITIONS IN ACCORDANCE WITH NFPA 13 TABLE 7.8.4. THESE SPRINKLERS SHALL BE SPACED NOT MORE THAN 10 FT FROM EACH OTHER.

GENERAL NOTES

1. WITHIN AREA OF SCOPE EXTEND NEW 4" SPRINKLER MAIN PIPING FROM A NEW ZONE CONTROL VALVE. CONTRACTOR SHALL SIZE BRANCH PIPING TO ALLOW FOR VELOCITY WILL REMAIN BELOW 20 FPS. PROVIDE QUICK RESPONSE UPRIGHTS IN OPEN CEILING AREAS AND CONCEALED PENDENTS IN AREAS WHERE DROP CEILINGS ARE INDICATED. EXTEND NEW 1" BRANCHES TO NEW CONCEALED PENDENTS. 1" SPRIGS SHALL BE ROUTED TO UPRIGHTS WITHIN 1" OF DECK. DESIGN INTENT IS TO PROVIDE A CODE COMPLIANT SPRINKLER LAYOUT FOR THE NEW PROGRAM LAYOUT. CONTRACTOR IS REQUIRED TO SUBMIT HYDRAULIC CALCULATIONS TERMINATED AT THE HYDRANT OUTLET.
2. PROVIDE PROTECTIVE SPRINKLER GUARDS ON SPRINKLER HEADS LOCATED BELOW 7'-0" A.F.F. IN MECHANICAL ROOMS, STORAGE ROOMS, PUMP ROOMS, SERVICE AREAS, GYMNASIUMS REGARDLESS OF SPRINKLER HEAD ELEVATION AND WHERE OTHERWISE SUSCEPTIBLE TO DAMAGE.
3. SPRINKLERS SHALL BE PROVIDED WITH MAXIMUM SPACING OF 6 FEET NEAR STAIR FLOOR OPENINGS.
4. SPRINKLERS SHALL BE PROVIDED BENEATH MECHANICAL DUCTWORK AND/OR GROUPS OF MECHANICAL DUCTWORK GREATER THAN 4 FT IN WIDTH. WHERE DUCTWORK INTERFERES WITH SPRINKLERS, ADDITIONAL COVERAGE SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13.
5. CONCEALED SPRINKLER HEAD FINISHES TO MATCH CEILING COLOR. UNLESS OTHERWISE NOTED REFER TO ARCHITECTURAL DRAWINGS.
6. SPRINKLERS SHALL BE PROVIDED BENEATH ACCESSIBLE LANDINGS. PIPING AND FITTINGS SHALL BE PROVIDED TO SPRINKLERS BENEATH ACCESSIBLE LANDINGS AND AT MAIN LANDINGS. LOCATION OF ALL EXPOSED PIPING SHALL BE FIELD COORDINATED WITH ARCHITECT.
7. DRY PENDENTS AND/OR DRY SIDEWALLS SHALL BE PROVIDED IN ROOMS/AREAS WHERE THE OPERATING TEMPERATURE IS LESS THAN 40F.
8. SPRINKLERS SHALL BE PROVIDED BENEATH FIXTURES GREATER THAN 4 FT IN WIDTH.



1 FIRE PROTECTION Level 3 Area C
1/8" = 1'-0"



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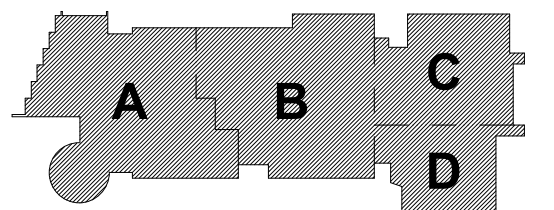
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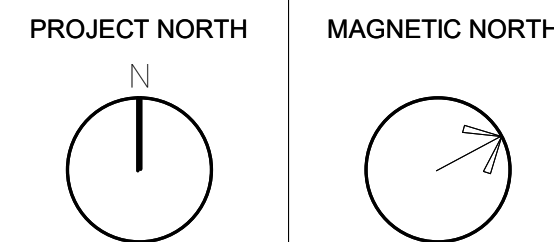
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August 4th, 2022



KEY PLAN



FIRE
PROTECTION
THIRD FLOOR
PLAN - AREA C

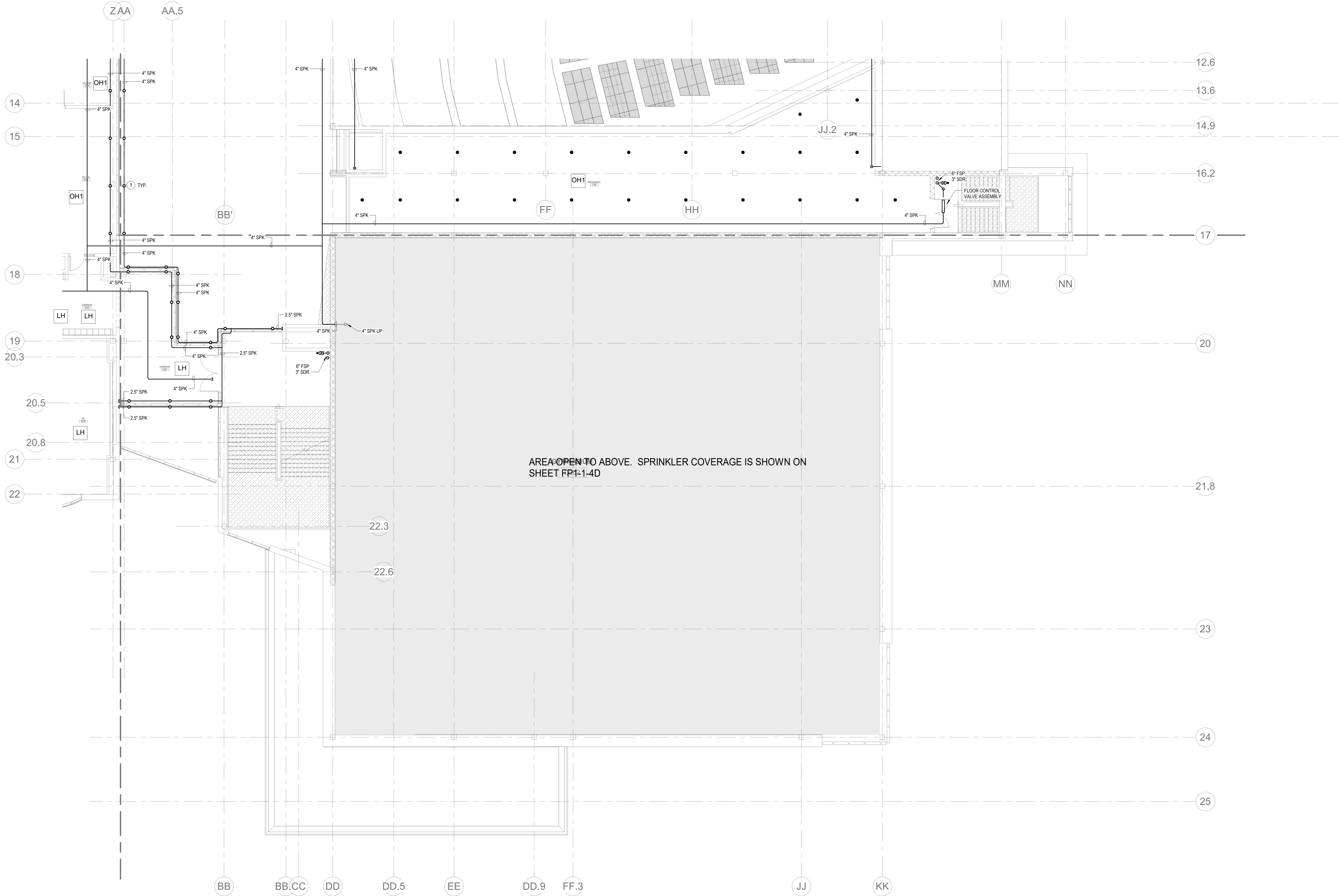
Scale: 1/8" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022

FP1-1-3C

- KEYNOTES
- LH LIGHT HAZARD OCCUPANCY
- OH ORDINARY HAZARD OCCUPANCY
- EH EXTRA HAZARD OCCUPANCY
- 1 PROVIDE WINDOW SPRINKLERS WITHIN 2 IN. OF THE GLASS PARTITIONS IN ACCORDANCE WITH NFPA 13 TABLE 7.8.6.4. THESE SPRINKLERS SHALL BE SPACED NOT MORE THAN 10 FT FROM EACH OTHER.

GENERAL NOTES

1. WITHIN AREA OF SCOPE EXTEND NEW 4" SPRINKLER MAIN PIPING FROM A NEW ZONE CONTROL VALVE. CONTRACTOR SHALL SIZE BRANCH PIPING TO ALLOW FOR VELOCITY WILL REMAIN BELOW 20 FPS. PROVIDE QUICK RESPONSE UPRIGHTS IN OPEN CEILING AREAS AND CONCEALED PENDENTS IN AREAS WHERE DROP CEILINGS ARE INDICATED. EXTEND NEW 1" ARMOVERS TO NEW CONCEALED PENDENTS. 1" SPROCS SHALL BE ROUTED TO UPRIGHTS WITHIN 12" OF DECK. DESIGN INTENT IS TO PROVIDE A CODE COMPLIANT SPRINKLER LAYOUT FOR THE NEW PROGRAM LAYOUT. CONTRACTOR IS REQUIRE TO SUBMIT HYDRAULIC CALCULATIONS TERMINATED AT THE HYDRANT OUTLET.
2. PROVIDE PROTECTIVE SPRINKLER GUARDS ON SPRINKLER HEADS LOCATED BELOW 7'-0" A.F.F. IN MECHANICAL ROOMS, STORAGE ROOMS, PUMP ROOMS, SERVICE AREAS, GYMNASIUMS REGARDLESS OF SPRINKLER HEAD ELEVATION AND WHERE OTHERWISE SUSCEPTIBLE TO DAMAGE.
3. SPRINKLERS SHALL BE PROVIDED WITH MAXIMUM SPACING OF 6 FEET NEAR STAIR FLOOR OPENINGS.
4. SPRINKLERS SHALL BE PROVIDED BENEATH MECHANICAL DUCTWORK AND/OR GROUPS OF MECHANICAL DUCTWORK GREATER THAN 4 FT IN WIDTH. WHERE DUCTWORK INTERFERES WITH SPRINKLERS, ADDITIONAL COVERAGE SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13.
5. CONCEALED SPRINKLER HEAD FINISHES TO MATCH CEILING COLOR. UNLESS OTHERWISE NOTED REFER TO ARCHITECTURAL DRAWINGS.
6. SPRINKLERS SHALL BE PROVIDED BENEATH ACCESSIBLE LANDINGS. PIPING AND FITTINGS SHALL BE PROVIDED TO SPRINKLERS BENEATH ACCESSIBLE LANDINGS AND AT MAIN LANDING. LOCATION OF ALL EXPOSED PIPING SHALL BE FIELD COORDINATED WITH ARCHITECT.
7. DRY PENDENTS AND/OR DRY SIDEWALLS SHALL BE PROVIDED IN ROOMS/AREAS WHERE THE OPERATING TEMPERATURE IS LESS THAN 40F.
8. SPRINKLERS SHALL BE PROVIDED BENEATH FIXTURES GREATER THAN 4 FT IN WIDTH.



1 FIRE PROTECTION THIRD FLOOR PLAN - AREA D
FP1-1-3D
1/8\" = 1'-0"



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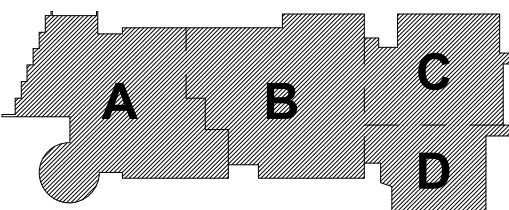
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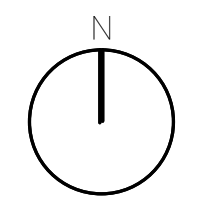


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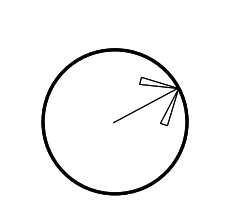


KEY PLAN

PROJECT NORTH



MAGNETIC NORTH



**FIRE
PROTECTION
THIRD FLOOR
PLAN - AREA D**

Scale: 1/8\" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022

FP1-1-3D

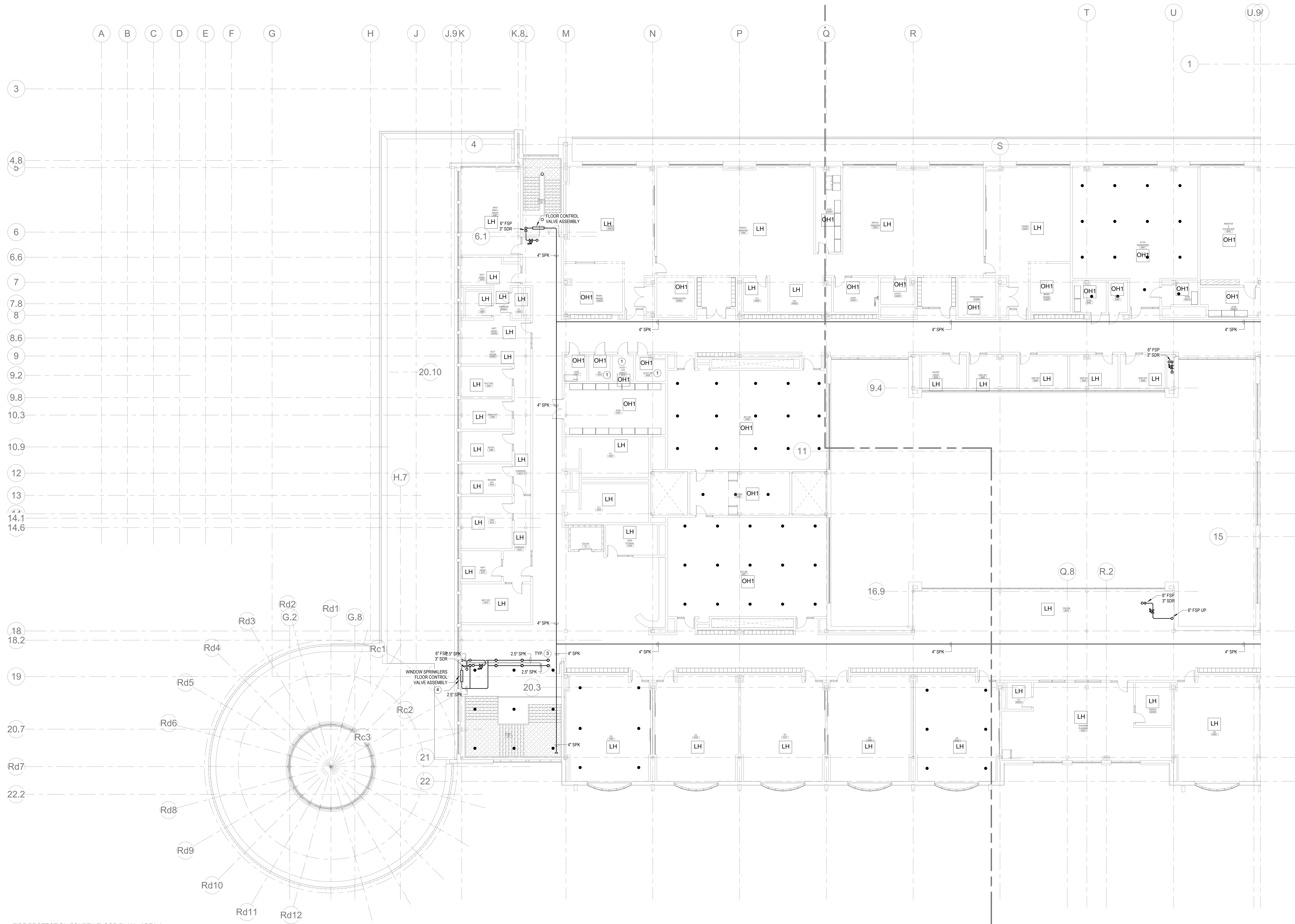
GENERAL NOTES

1. WITHIN AREA OF SCOPE EXTEND NEW 4" SPRINKLER MAIN PIPING FROM A NEW ZONE CONTROL VALVE. CONTRACTOR SHALL SIZE BRANCH PIPING TO ALLOW FOR VELOCITY WILL REMAIN BELOW 20 FPS. PROVIDE QUICK RESPONSE UPRIGHTS IN OPEN CEILING AREAS AND CONCEALED PENDENTS IN AREAS WHERE DROP CEILINGS ARE INDICATED. EXTEND NEW 1" ANCHORS TO NEW CONCEALED PENDENTS. 1" SPRIGS SHALL BE ROUTED TO UPRIGHTS WITHIN 12" OF DECK. DESIGN INTENT IS TO PROVIDE A CODE COMPLIANT SPRINKLER LAYOUT FOR THE NEW PROGRAM LAYOUT. CONTRACTOR IS REQUIRE TO SUBMIT HYDRAULIC CALCULATIONS TERMINATED AT THE HYDRANT OUTLET.
2. PROVIDE PROTECTIVE SPRINKLER GUARDS ON SPRINKLER HEADS LOCATED BELOW 7'-0" A.F.F. IN MECHANICAL ROOMS, STORAGE ROOMS, PUMP ROOMS, SERVICE AREAS, GYMNASIUMS REGARDLESS OF SPRINKLER HEAD ELEVATION AND WHERE OTHERWISE SUSCEPTIBLE TO DAMAGE.
3. SPRINKLERS SHALL BE PROVIDED WITH MAXIMUM SPACING OF 8 FEET NEAR STAIR FLOOR OPENINGS.
4. SPRINKLERS SHALL BE PROVIDED BENEATH MECHANICAL DUCTWORK AND/OR GROUPS OF MECHANICAL DUCTWORK GREATER THAN 4 FT IN WIDTH. WHERE DUCTWORK INTERFERE WITH SPRINKLERS, ADDITIONAL COVERAGE SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13.
5. CONCEALED SPRINKLER HEAD FINISHES TO MATCH CEILING COLOR. UNLESS OTHERWISE NOTED REFER TO ARCHITECTURAL DRAWINGS.
6. SPRINKLERS SHALL BE PROVIDED BENEATH ACCESSIBLE LANDINGS. PIPING AND FITTINGS SHALL BE PROVIDED TO SPRINKLERS BENEATH ACCESSIBLE LANDINGS AND AT MAIN LANDING. LOCATION OF ALL EXPOSED PIPING SHALL BE FIELD COORDINATED WITH ARCHITECT.
7. DRY PENDENTS AND/OR DRY SIDEWALLS SHALL BE PROVIDED IN ROOMS/AREAS WHERE THE OPERATING TEMPERATURE IS LESS THAN 40F.
8. SPRINKLERS SHALL BE PROVIDED BENEATH FIXTURES GREATER THAN 4 FT IN WIDTH.

KEYNOTES

- LH LIGHT HAZARD OCCUPANCY
OH ORDINARY HAZARD OCCUPANCY
EH EXTRA HAZARD OCCUPANCY

- ① THE INDICATED AREA SHALL BE PROTECTED BY SPRINKLERS WITH A EXTRA HAZARD GROUP 2 EQUIVA SPRINKLER DESIGN CRITERIA PER NFPA 13.
② PROVIDE 4" FLOOR CONTROL VALVE. THE FLOOR CONTROL VALVE SHALL CONSIST OF A BUTTERFLY VALVE, CHECK VALVE, FLOW SWITCH, PRESSURE GAUGE AND MAIN DRAIN VALVE WITH INSPECTOR'S TEST CONNECTION.
③ PROVIDE WINDOW SPRINKLERS WITHIN 2 IN. OF THE GLASS PARTITIONS IN ACCORDANCE WITH NFPA 13 TABLE 7.8.8.4. THESE SPRINKLERS SHALL BE SPACED NOT MORE THAN 10 FT FROM EACH OTHER.
④ PROVIDE 3" FLOOR CONTROL VALVE FOR THE WINDOW SPRINKLERS. THE FLOOR CONTROL VALVE SHALL CONSIST OF A BUTTERFLY VALVE, CHECK VALVE, FLOW SWITCH, PRESSURE GAUGE AND MAIN DRAIN VALVE WITH INSPECTOR'S TEST CONNECTION.



① FIRE PROTECTION FOURTH FLOOR PLAN - AREA A
3/32" = 1'-0"

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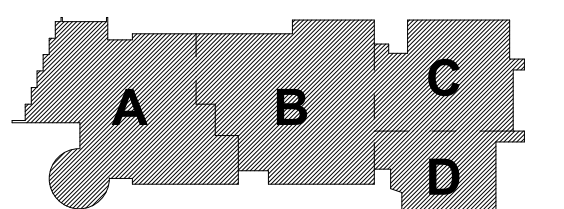
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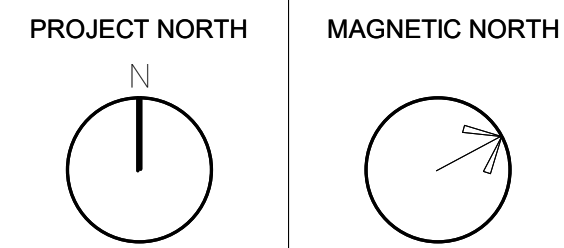
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KEY PLAN



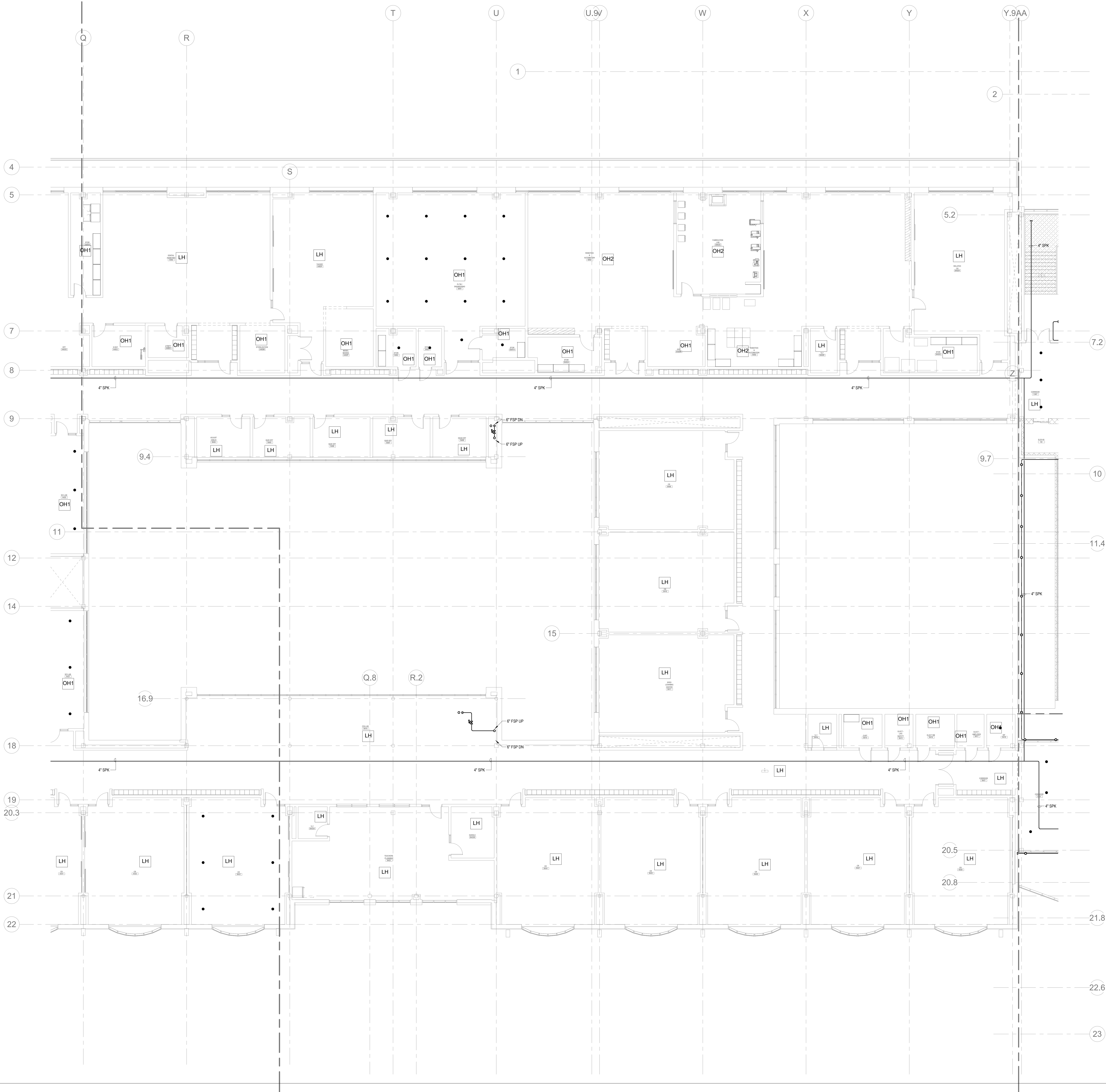
FIRE
PROTECTION
FOURTH FLOOR
PLAN - AREA A

Scale: 3/32" = 1'-0"
Job No.: 20022
Drawn By: DRA
Date: August 4th, 2022
FP1-1-4A

- KEYNOTES
- LH LIGHT HAZARD OCCUPANCY
 - OH ORDINARY HAZARD OCCUPANCY
 - EH EXTRA HAZARD OCCUPANCY

GENERAL NOTES

1. WITHIN AREA OF SCOPE EXTEND NEW 4" SPRINKLER MAIN PIPING FROM A NEW ZONE CONTROL VALVE. CONTRACTOR SHALL SIZE BRANCH PIPING TO ALLOW FOR VELOCITY WILL REMAIN BELOW 20 FPS. PROVIDE QUICK RESPONSE UPRIGHTS IN OPEN CEILING AREAS AND CONCEALED PENDENTS IN AREAS WHERE DROP CEILINGS ARE INDICATED. EXTEND NEW 1" ABOVEHEADS TO NEW CONCEALED PENDENTS. 1" SPRIGS SHALL BE ROUTED TO UPRIGHTS WITHIN 12" OF DECK. DESIGN INTENT IS TO PROVIDE A CODE COMPLIANT SPRINKLER LAYOUT FOR THE NEW PROGRAM LAYOUT. CONTRACTOR IS REQUIRE TO SUBMIT HYDRAULIC CALCULATIONS TERMINATED AT THE HYDRANT OUTLET.
2. PROVIDE PROTECTIVE SPRINKLER GUARDS ON SPRINKLER HEADS LOCATED BELOW 7'-0" A.F.F. IN MECHANICAL ROOMS, STORAGE ROOMS, PUMP ROOMS, SERVICE AREAS, GYMNASIUMS REGARDLESS OF SPRINKLER HEAD ELEVATION AND WHERE OTHERWISE SUSCEPTIBLE TO DAMAGE.
3. SPRINKLERS SHALL BE PROVIDED WITH MAXIMUM SPACING OF 6 FEET NEAR STAIR FLOOR OPENINGS.
4. SPRINKLERS SHALL BE PROVIDED BENEATH MECHANICAL DUCTWORK AND/OR GROUPS OF MECHANICAL DUCTWORK GREATER THAN 4 FT IN WIDTH. WHERE DUCTWORK INTERFERE WITH SPRINKLERS, ADDITIONAL COVERAGE SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13.
5. CONCEALED SPRINKLER HEAD FINISHES TO MATCH CEILING COLOR. UNLESS OTHERWISE NOTED REFER TO ARCHITECTURAL DRAWINGS.
6. SPRINKLERS SHALL BE PROVIDED BENEATH ACCESSIBLE LANDINGS. PIPING AND FITTINGS SHALL BE PROVIDED TO SPRINKLERS BENEATH ACCESSIBLE LANDINGS AND AT MAIN LANDING. LOCATION OF ALL EXPOSED PIPING SHALL BE FIELD COORDINATED WITH ARCHITECT.
7. DRY PENDENTS AND/OR DRY SIDEWALLS SHALL BE PROVIDED IN ROOMS/AREAS WHERE THE OPERATING TEMPERATURE IS LESS THAN 40°.
8. SPRINKLERS SHALL BE PROVIDED BENEATH FIXTURES GREATER THAN 4 FT IN WIDTH.



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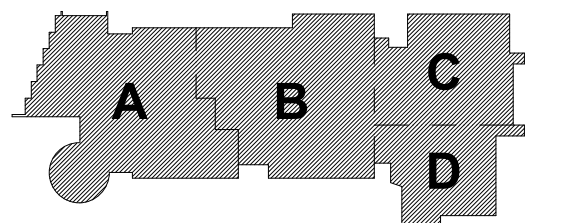
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August 4th, 2022



KEY PLAN

PROJECT NORTH
MAGNETIC NORTH

**FIRE
PROTECTION
FOURTH FLOOR
PLAN - AREA B**

Scale: 1/8" = 1'-0"
Job No.: 2002
Drawn By: DRA
Date: August 4th, 2022

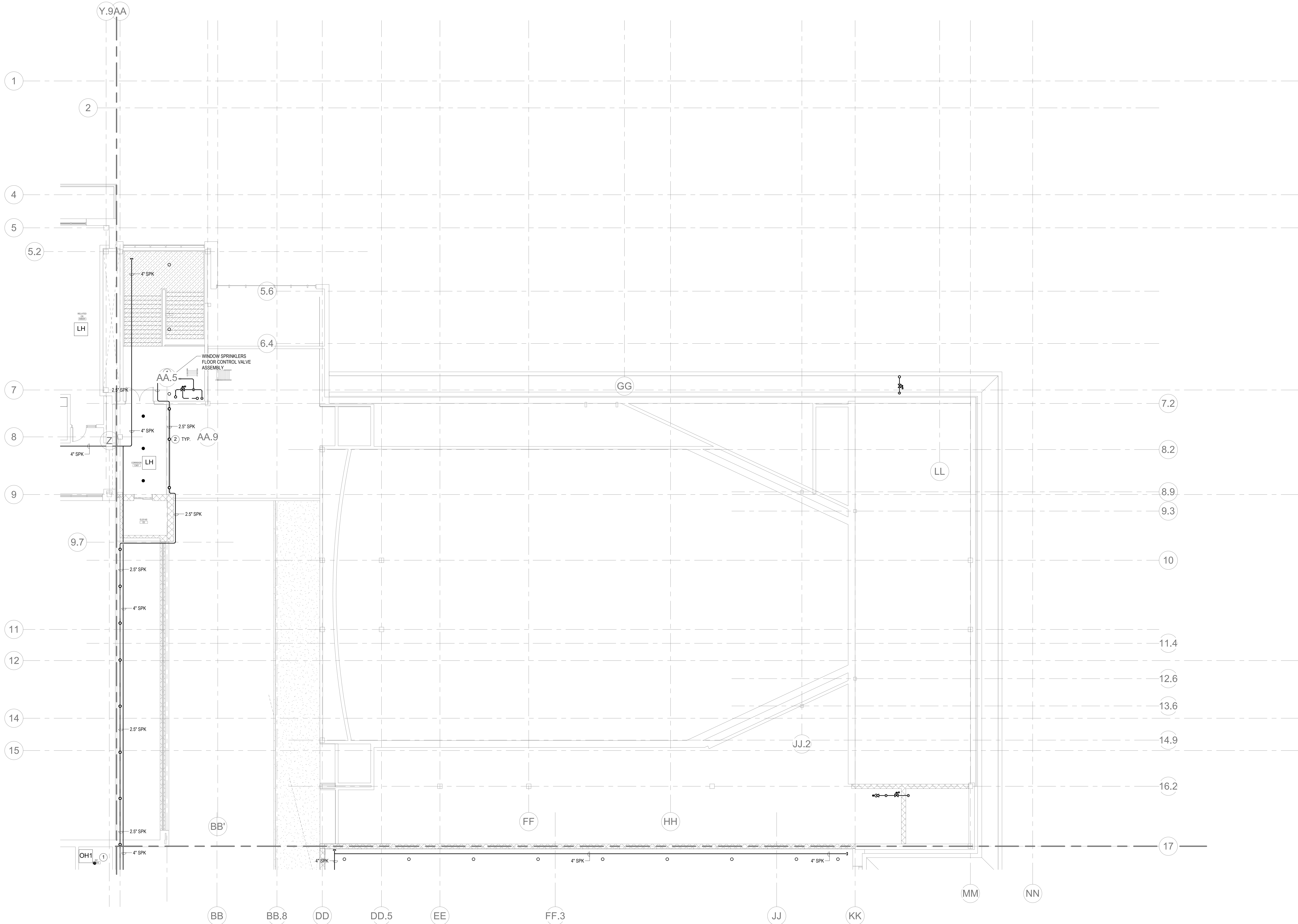
FP1-1-4B

- KEYNOTES
- LH LIGHT HAZARD OCCUPANCY
- OH ORDINARY HAZARD OCCUPANCY
- EH EXTRA HAZARD OCCUPANCY

- 1 PROVIDE 2 1/2" FLOOR CONTROL VALVE FOR THE WINDOW SPRINKLERS. THE FLOOR CONTROL VALVE SHALL CONSIST OF A BUTTERFLY VALVE, CHECK VALVE, FLOW SWITCH, PRESSURE GAUGE AND MAIN DRAIN VALVE WITH INSPECTOR'S TEST CONNECTION.
- 2 PROVIDE WINDOW SPRINKLERS WITHIN 2 IN. OF THE GLASS PARTITIONS IN ACCORDANCE WITH NFPA 13 TABLE 8.8.4. THESE SPRINKLERS SHALL BE SPACED NOT MORE THAN 10 FT FROM EACH OTHER.

GENERAL NOTES

1. WITHIN AREA OF SCOPE EXTEND NEW 4" SPRINKLER MAIN PIPING FROM A NEW ZONE CONTROL VALVE. CONTRACTOR SHALL SIZE BRANCH PIPING TO ALLOW FOR VELOCITY WILL REMAIN BELOW 20 FPS. PROVIDE QUICK RESPONSE UPRIGHTS IN OPEN CEILING AREAS AND CONCEALED PENDENTS IN AREAS WHERE DROP CEILINGS ARE INDICATED. EXTEND NEW 1" BRANCHES TO NEW CONCEALED PENDENTS. 1" SPRIGS SHALL BE ROUTED TO UPRIGHTS WITHIN 12" OF DECK. DESIGN INTENT IS TO PROVIDE A CODE COMPLIANT SPRINKLER LAYOUT FOR THE NEW PROGRAM LAYOUT. CONTRACTOR IS REQUIRE TO SUBMIT HYDRAULIC CALCULATIONS TERMINATED AT THE HYDRANT OUTLET.
2. PROVIDE PROTECTIVE SPRINKLER GUARDS ON SPRINKLER HEADS LOCATED BELOW 7'-0" A.F.F. IN MECHANICAL ROOMS, STORAGE ROOMS, PUMP ROOMS, SERVICE AREAS, GYMNASIUMS REGARDLESS OF SPRINKLER HEAD ELEVATION AND WHERE OTHERWISE SUSCEPTIBLE TO DAMAGE.
3. SPRINKLERS SHALL BE PROVIDED WITH MAXIMUM SPACING OF 6 FEET NEAR STAIR FLOOR OPENINGS.
4. SPRINKLERS SHALL BE PROVIDED BENEATH MECHANICAL DUCTWORK AND/OR GROUPS OF MECHANICAL DUCTWORK GREATER THAN 4 FT IN WIDTH. WHERE DUCTWORK INTERFERE WITH SPRINKLERS, ADDITIONAL COVERAGE SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13.
5. CONCEALED SPRINKLER HEAD FINISHES TO MATCH CEILING COLOR. UNLESS OTHERWISE NOTED REFER TO ARCHITECTURAL DRAWINGS.
6. SPRINKLERS SHALL BE PROVIDED BENEATH ACCESSIBLE LANDINGS. PIPING AND FITTINGS SHALL BE PROVIDED TO SPRINKLERS BENEATH ACCESSIBLE LANDINGS AND AT MAIN LANDING. LOCATION OF ALL EXPOSED PIPING SHALL BE FIELD COORDINATED WITH ARCHITECT.
7. DRY PENDENTS AND/OR DRY SIDEWALLS SHALL BE PROVIDED IN ROOMS/AREAS WHERE THE OPERATING TEMPERATURE IS LESS THAN 40F.
8. SPRINKLERS SHALL BE PROVIDED BENEATH FIXTURES GREATER THAN 4 FT IN WIDTH.



FP1-1-4C FIRE PROTECTION FOURTH FLOOR PLAN - AREA C
1/8" = 1'-0"



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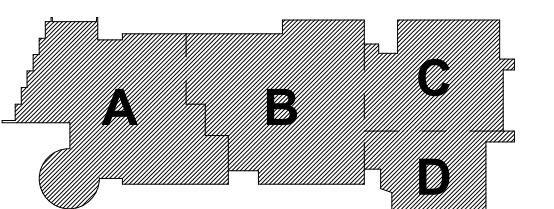
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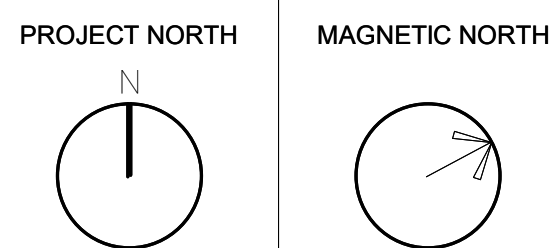
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KEY PLAN



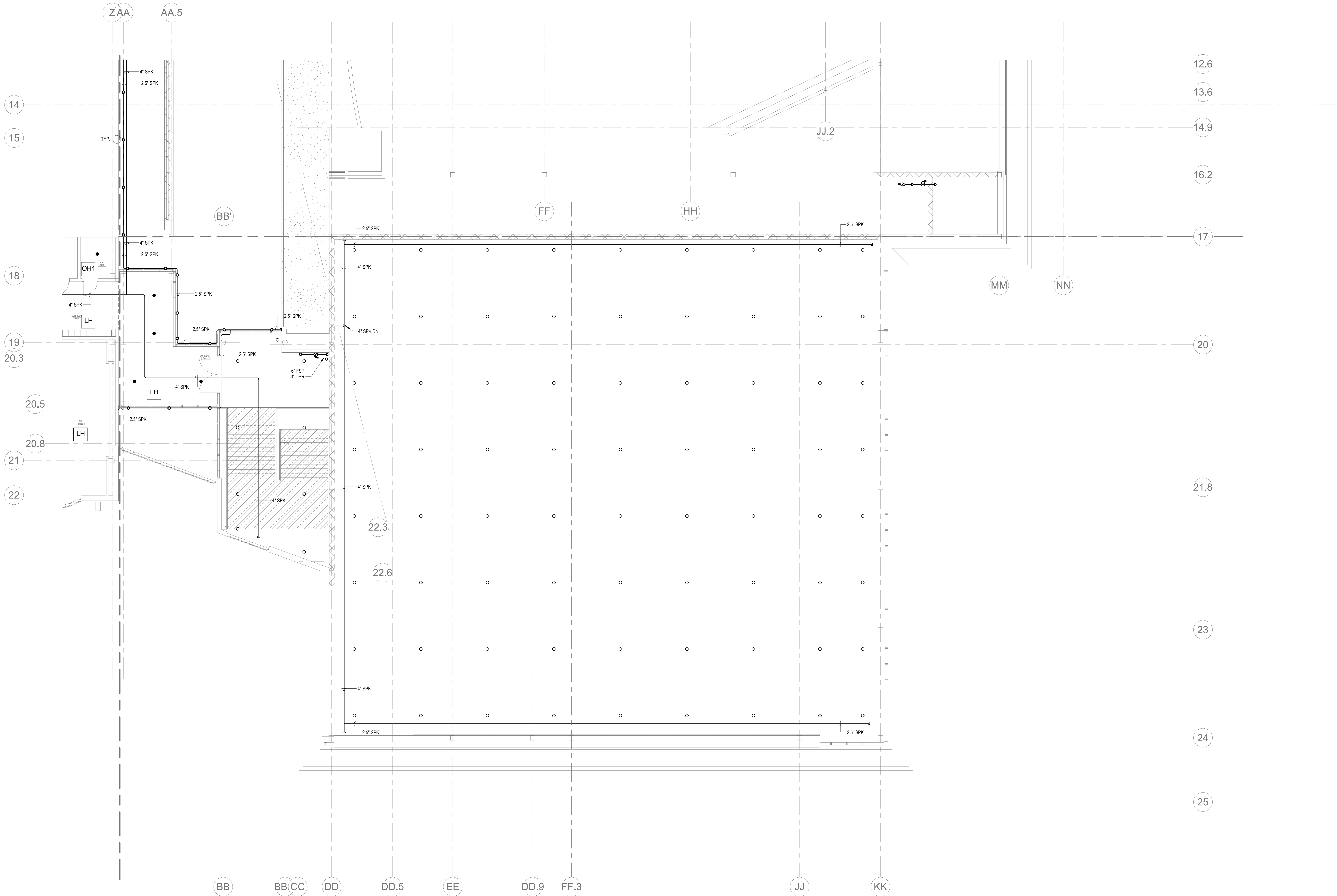
**FIRE
PROTECTION
FOURTH FLOOR
PLAN - AREA C**

Scale: 1/8" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022
FP1-1-4C

- KEYNOTES
- LH LIGHT HAZARD OCCUPANCY
- OH ORDINARY HAZARD OCCUPANCY
- EH EXTRA HAZARD OCCUPANCY
- 1 PROVIDE WINDOW SPRINKLERS WITHIN 2 IN. OF THE GLASS PARTITIONS IN ACCORDANCE WITH NFPA 13 TABLE 7.8.4. THESE SPRINKLERS SHALL BE SPACED NOT MORE THAN 10 FT FROM EACH OTHER.

GENERAL NOTES

1. WITHIN AREA OF SCOPE EXTEND NEW 4" SPRINKLER MAIN PIPING FROM A NEW ZONE CONTROL VALVE. CONTRACTOR SHALL SIZE BRANCH PIPING TO ALLOW FOR VELOCITY WILL REMAIN BELOW 20 FPS. PROVIDE QUICK RESPONSE UPRIGHTS IN OPEN CEILING AREAS AND CONCEALED PENDENTS IN AREAS WHERE DROP CEILINGS ARE INDICATED. EXTEND NEW 1" ARMOVERS TO NEW CONCEALED PENDENTS. 1" SPRIGS SHALL BE ROUTED TO UPRIGHTS WITHIN 12" OF DECK. DESIGN INTENT IS TO PROVIDE A CODE COMPLIANT SPRINKLER LAYOUT FOR THE NEW PROGRAM LAYOUT. CONTRACTOR IS REQUIRE TO SUBMIT HYDRAULIC CALCULATIONS TERMINATED AT THE HYDRANT OUTLET.
2. PROVIDE PROTECTIVE SPRINKLER GUARDS ON SPRINKLER HEADS LOCATED BELOW 7'-0" A.F.F. IN MECHANICAL ROOMS, STORAGE ROOMS, PUMP ROOMS, SERVICE AREAS, GYMNASIUMS REGARDLESS OF SPRINKLER HEAD ELEVATION AND WHERE OTHERWISE SUSCEPTIBLE TO DAMAGE.
3. SPRINKLERS SHALL BE PROVIDED WITH MAXIMUM SPACING OF 8 FEET NEAR STAIR FLOOR OPENINGS.
4. SPRINKLERS SHALL BE PROVIDED BENEATH MECHANICAL DUCTWORK AND/OR GROUPS OF MECHANICAL DUCTWORK GREATER THAN 4 FT IN WIDTH. WHERE DUCTWORK INTERFERE WITH SPRINKLERS, ADDITIONAL COVERAGE SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13.
5. CONCEALED SPRINKLER HEAD FINISHES TO MATCH CEILING COLOR. UNLESS OTHERWISE NOTED REFER TO ARCHITECTURAL DRAWINGS.
6. SPRINKLERS SHALL BE PROVIDED BENEATH ACCESSIBLE LANDINGS. PIPING AND FITTINGS SHALL BE PROVIDED TO SPRINKLERS BENEATH ACCESSIBLE LANDINGS AND AT MAIN LANDING. LOCATION OF ALL EXPOSED PIPING SHALL BE FIELD COORDINATED WITH ARCHITECT.
7. DRY PENDENTS AND/OR DRY SIDEWALLS SHALL BE PROVIDED IN ROOMS/AREAS WHERE THE OPERATING TEMPERATURE IS LESS THAN 40°F.
8. SPRINKLERS SHALL BE PROVIDED BENEATH FIXTURES GREATER THAN 4 FT IN WIDTH.



1 FIRE PROTECTION Level 4 Area D
1/8" = 1'-0"



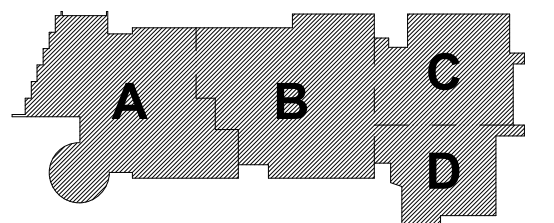
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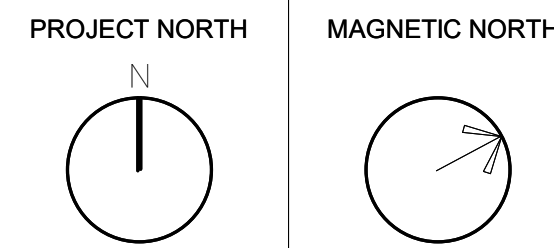
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August 4th, 2022



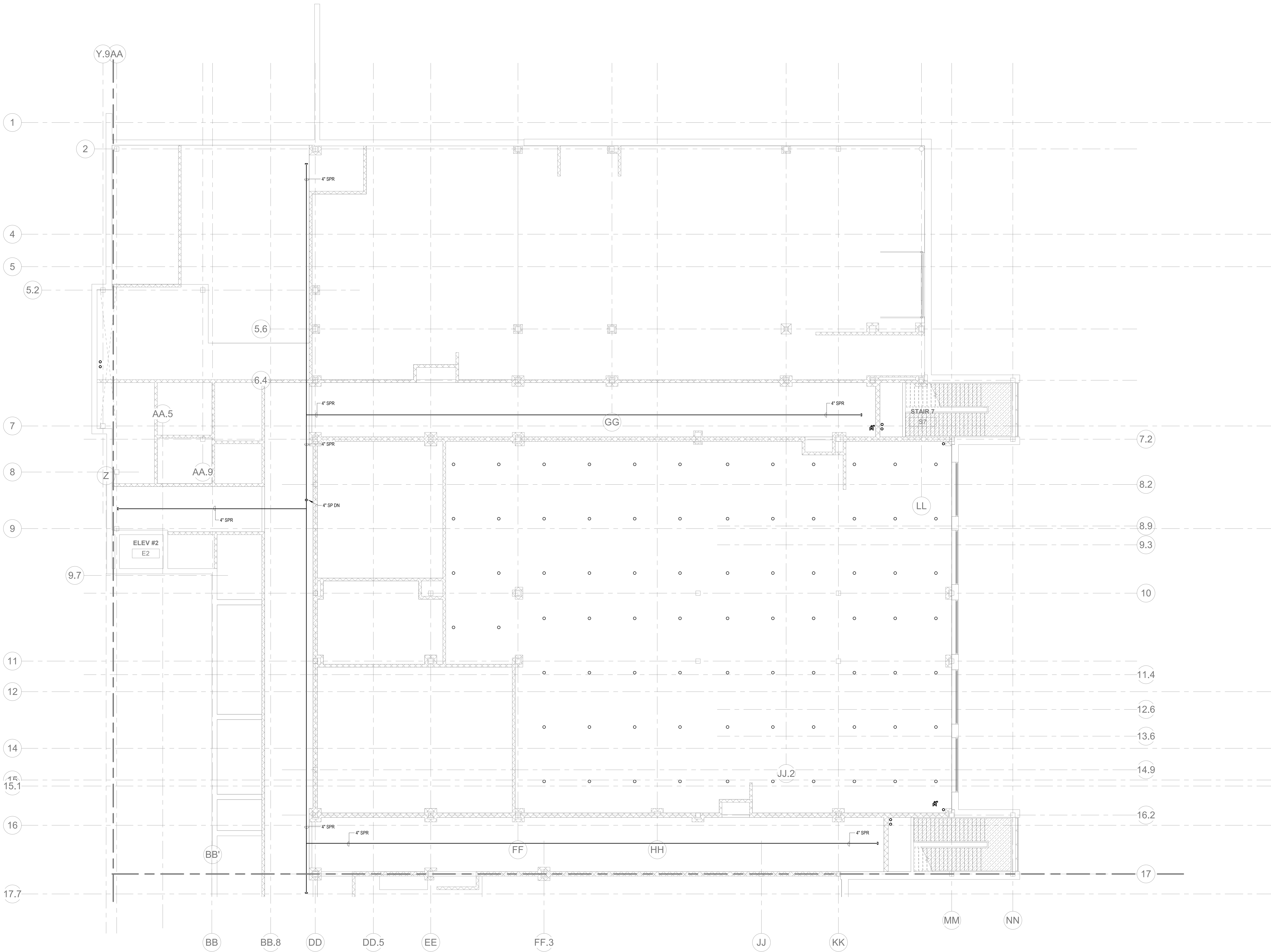
KEY PLAN



FIRE
PROTECTION
FOURTH FLOOR
PLAN - AREA D

Scale: 1/8" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022
FP1-1-4D

- KEYNOTES
- Ⓐ LIGHT HAZARD OCCUPANCY
 - Ⓑ ORDINARY HAZARD OCCUPANCY
 - Ⓒ EXTRA HAZARD OCCUPANCY



② FIRE PROTECTION 0.5-Lower Level Mezzanine - Area C
1/8" = 1'-0"



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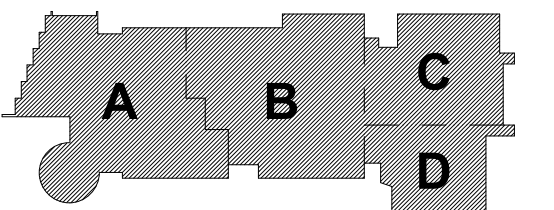
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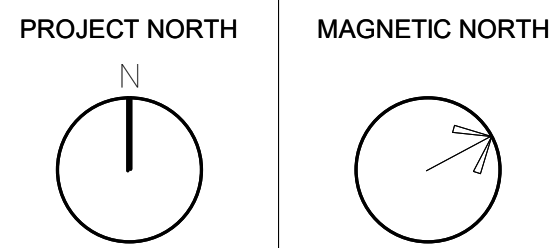
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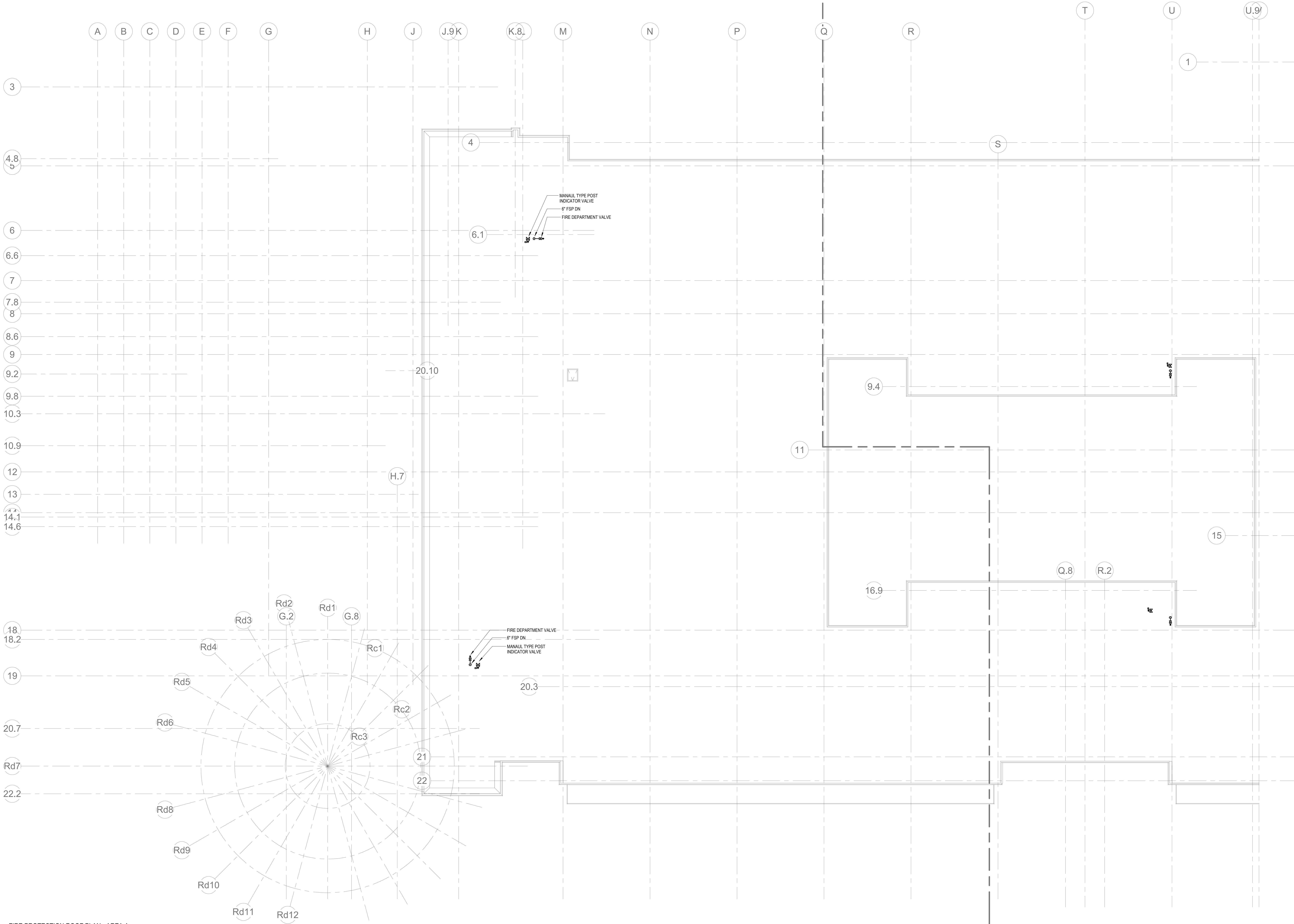


**FIRE
PROTECTION
LOWER LEVEL
MEZZANINE
PLAN - AREA C**

Scale: 1/8" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022

FP1-1-MC

- KEYNOTES
- LH LIGHT HAZARD OCCUPANCY
 - OH ORDINARY HAZARD OCCUPANCY
 - EH EXTRA HAZARD OCCUPANCY



1 FIRE PROTECTION ROOF PLAN - AREA A
3/32" = 1'-0"



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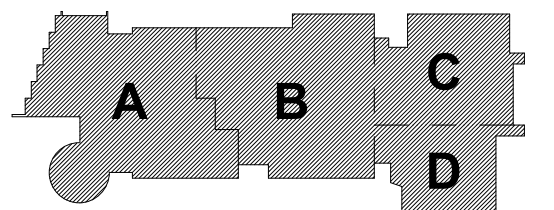
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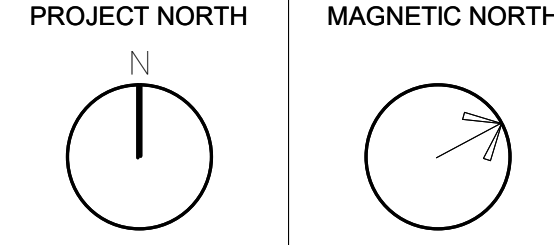
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DEVELOPMENT
SUBMISSION
August 4th, 2022



KEY PLAN



**FIRE
PROTECTION
ROOF PLAN -
AREA A**

Scale: 3/32" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022

FP1-2-1A

KEYNOTES

- (LH) LIGHT HAZARD OCCUPANCY
- (OH) ORDINARY HAZARD OCCUPANCY
- (EH) EXTRA HAZARD OCCUPANCY

① FIRE PROTECTION ROOF PLAN - AREA B
1/8" = 1'-0"



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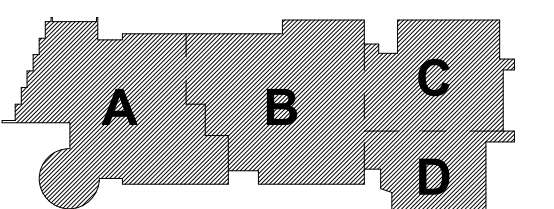
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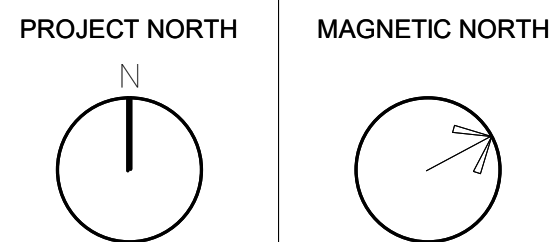
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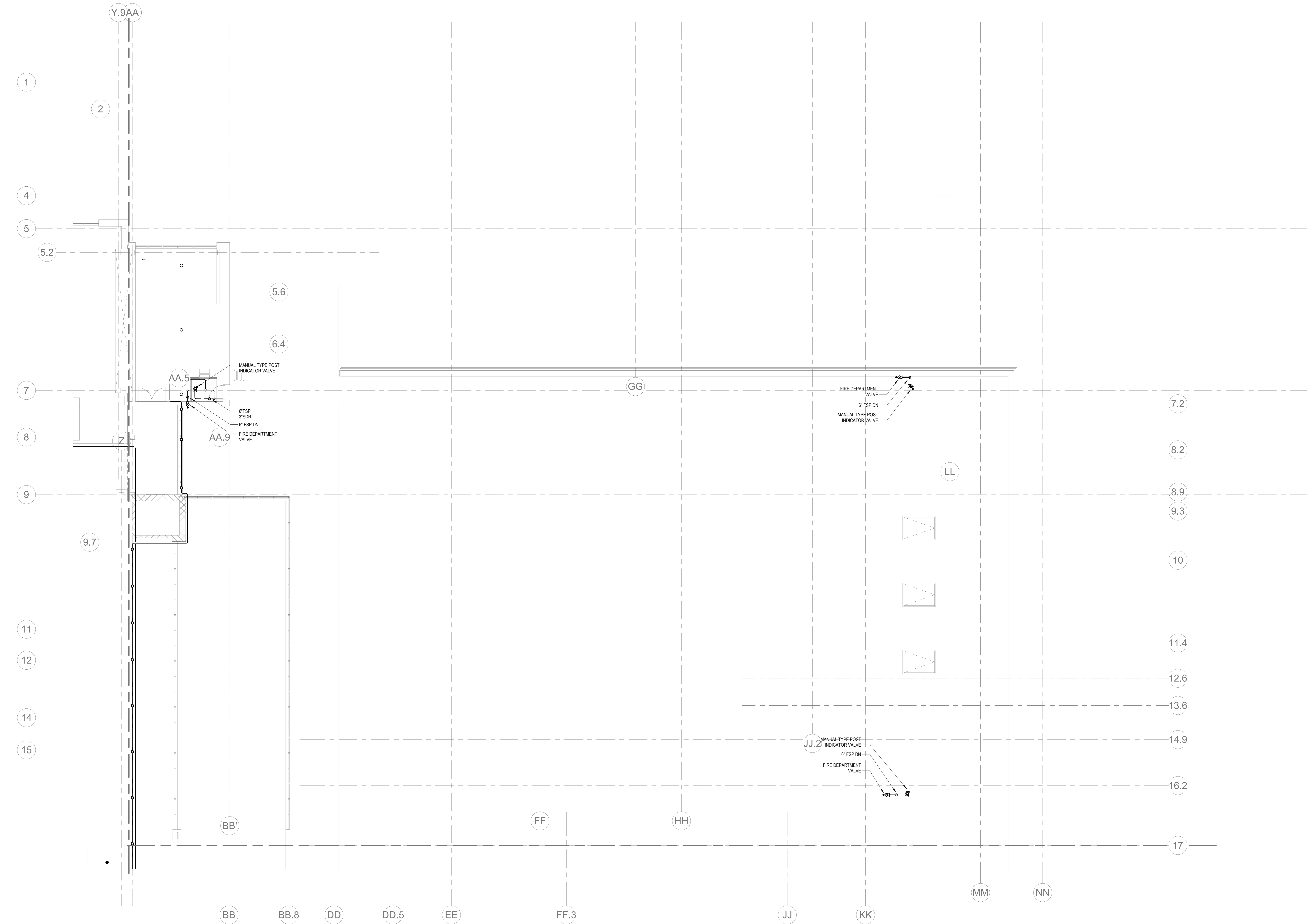


**FIRE
PROTECTION
ROOF PLAN -
AREA B**

Scale: 1/8" = 1'-0"
 No.: 20202
 Drawn By: DRA
 Date: August 4th, 2022

FP1-2-1E

KEYNOTES
LH LIGHT HAZARD OCCUPANCY
OH ORDINARY HAZARD OCCUPANCY
EH EXTRA HAZARD OCCUPANCY



1 FIRE PROTECTION ROOF PLAN - AREA C
1/8" = 1'-0"

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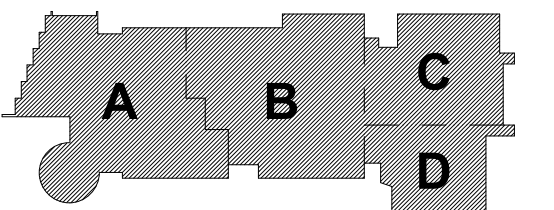
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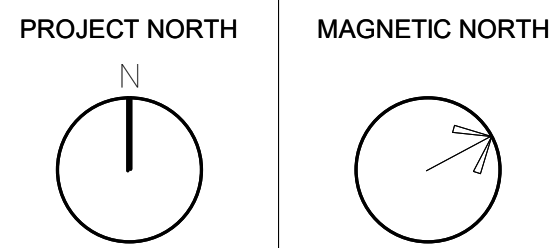
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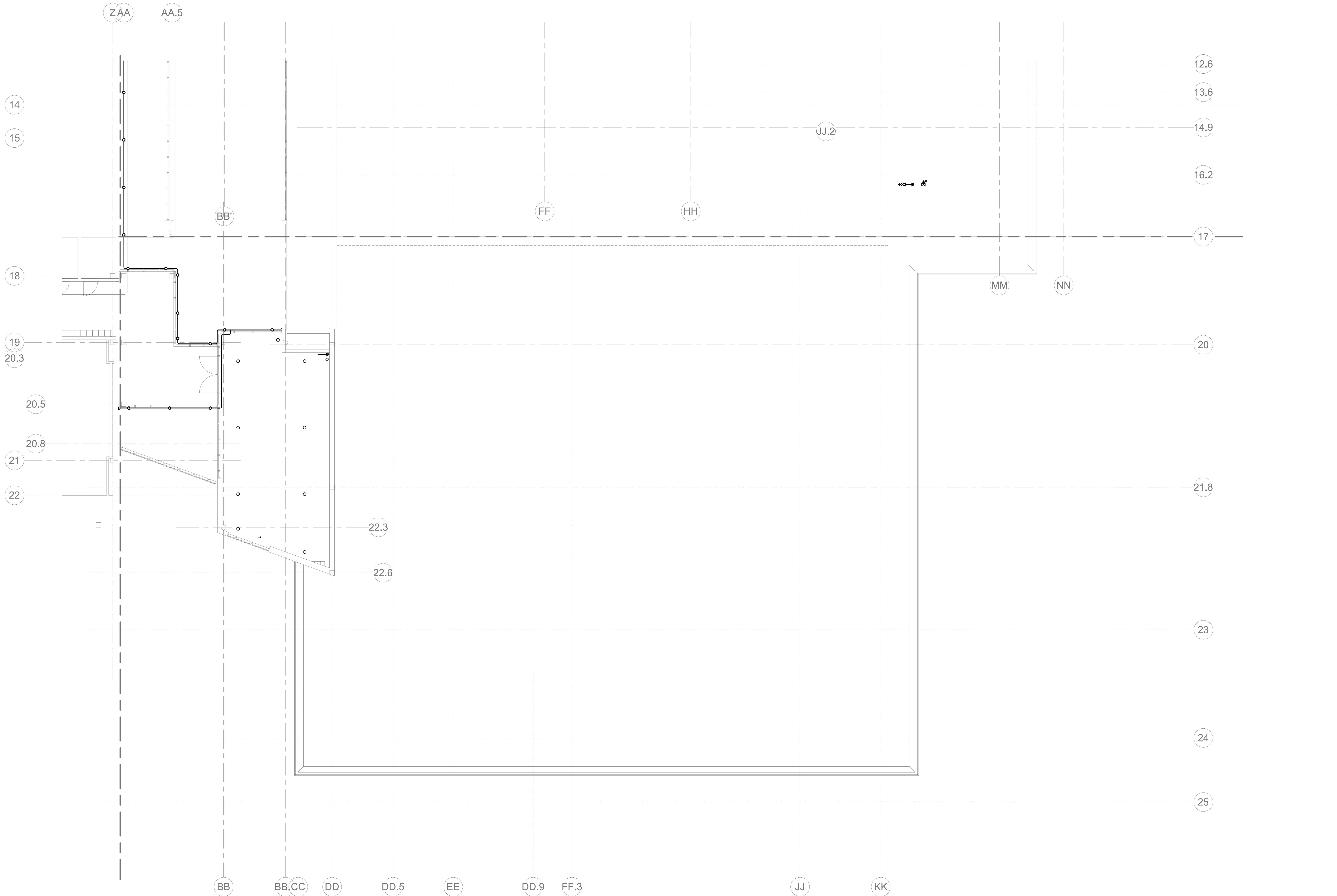
KEY PLAN



FIRE
PROTECTION
ROOF PLAN -
AREA C

Scale: 1/8" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022
FP1-2-1C

- KEYNOTES
- LH LIGHT HAZARD OCCUPANCY
 - OH ORDINARY HAZARD OCCUPANCY
 - EH EXTRA HAZARD OCCUPANCY



1 FIRE PROTECTION ROOF PLAN - AREA D
1/8" = 1'-0"



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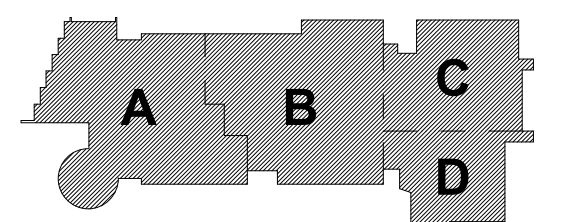
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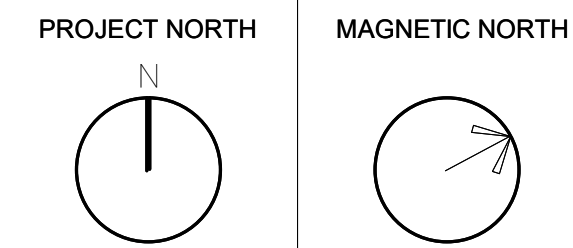
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KEY PLAN



**FIRE
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ROOF PLAN -
AREA D**

Scale: 1/8" = 1'-0"
Job No.: 20202
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Date: August 4th, 2022

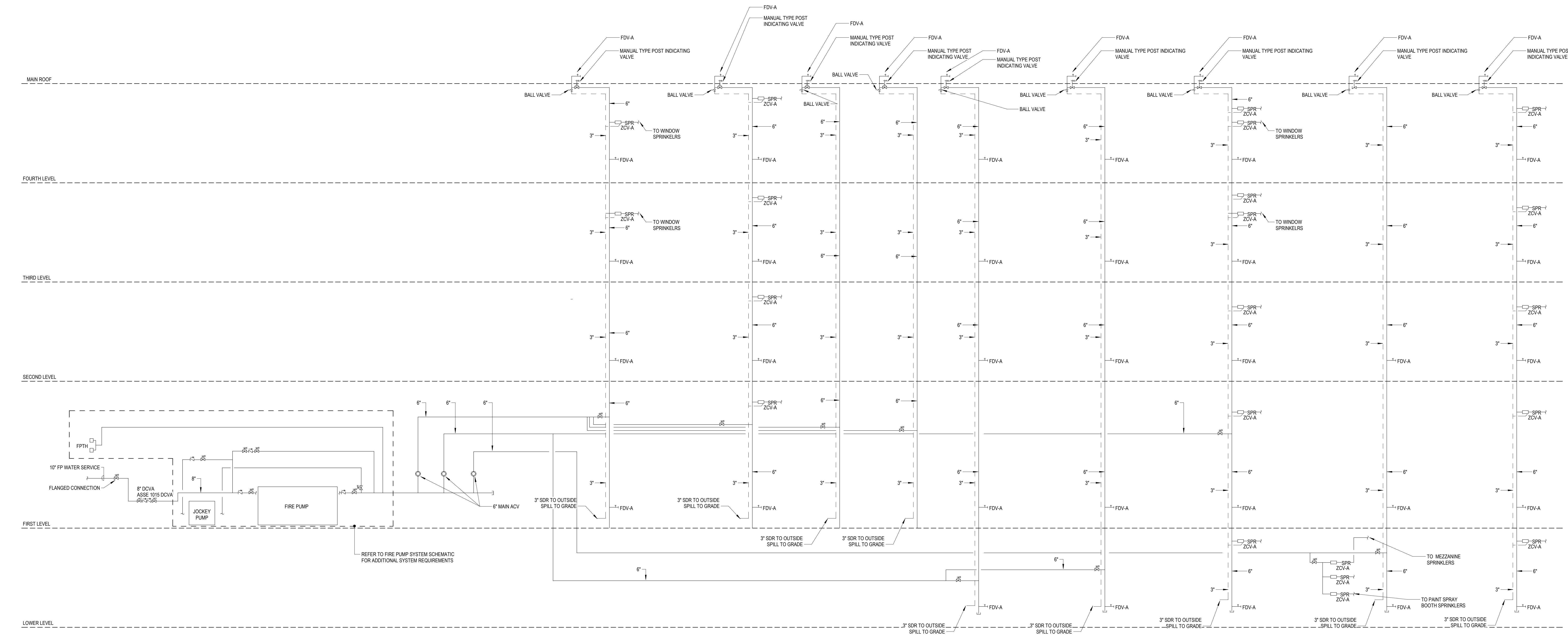
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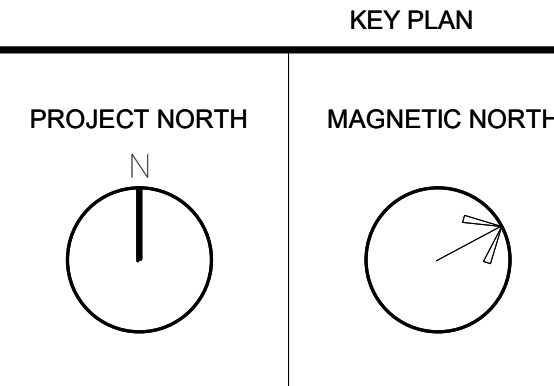
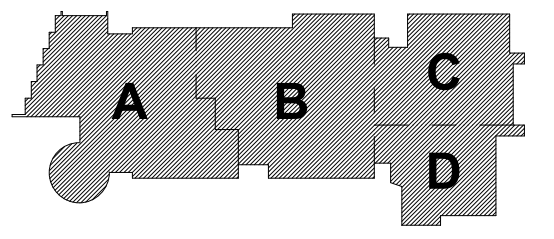


1 FIRE PROTECTION RISER DIAGRAM
FP5-0-1 NONE

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FIRE
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RISER DIAGRAM

Scale: NONE
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022
FP5-0-1

