FIRE PROTECTION NOTES

- FIRE PROTECTION PLANS AND SPECIFICATIONS ARE PROVIDED IN ACCORDANCE WITH FLORIDA ADMINISTRATIVE CODE CHAPTER 61G15-32, AMENDED 7-25-19, WHICH READS AS FOLLOWS: FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS: THE FIRE PROTECTION SYSTEM ENGINEERING DRAWINGS, SPECIFICATIONS, PRESCRIPTIVE AND PERFORMANCE CRITERIA, WATER SUPPLY ANALYSIS AND OTHER MATERIALS OR REPRESENTATIONS, WHICH ARE SUBMITTED WITH THE GENERAL CONSTRUCTION DOCUMENTS PURSUANT TO SECTION 553.79(6)(C), F.S., THAT SET FORTH THE OVERALL DESIGN REQUIREMENTS AND PROVIDE SUFFICIENT DIRECTION FOR THE CONTRACTOR TO LAY OUT THE CONSTRUCTION, ALTERATION, DEMOLITION, RENOVATION, REPAIR, MODIFICATION, PERMITTING AND SUCH, FOR ANY PUBLIC OR PRIVATE FIRE PROTECTION SYSTEM(S), WHICH ARE PREPARED, SIGNED, DATED AND SEALED BY THE ENGINEER OF RECORD FOR THE FIRE PROTECTION SYSTEM(S).
- THE CONTRACTOR SHALL PROVIDE: LAYOUT DRAWINGS, HYDRAULIC CALCULATIONS, CATALOG INFORMATION ON STANDARD PRODUCTS, AND OTHER CONSTRUCTION DATA PREPARED BY THE LICENSED CONTRACTOR THAT PROVIDES DETAIL ON THE LOCATION OF RISERS, CROSS MAINS, BRANCH LINES, SPRINKLER HEADS, SIZING OF PIPE, HANGER LOCATIONS, AND HYDRAULIC CALCULATIONS AND ALSO SERVES AS A GUIDE FOR FABRICATION AND INSTALLATION OF A FIRE PROECTION SYSTEM. FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS ARE BASED UPON ENGINEERING DIRECTION PROVIDED IN THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS AND REQUIRE NO ADDITIONAL ENGINEERING INPUT. PER FLORIDA STATUTE THESE DOCUMENTS DO NOT REQUIRE THE SEAL OF A FLORIDA REGISTERED ENGINEER. THESE SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW. SHOP DRAWINGS STAMPED APPROVED OR FURNISH AS CORRECTED SHALL THEN BE SUBMITTED BY THE CONTRACTOR TO THE BUILDING DEPARTMENT AHJ FOR APPROVAL.
- HANGER LOCATIONS SHALL BE COORDINATED WITH THE BUILDING STRUCTURE. SUPPORT PIPING IN ACCORDANCE WITH NFPA-13, PROVIDE ALL MISCELLANEOUS STEEL FRAMING AS REQUIRED TO SUPPORT PIPING FROM STRUCTURE. HANGERS AND ROD SHALL HAVE A GALVANIZED OR
- 4. PROVIDE CHROME ESCUTCHEONS WHERE PIPING PENETRATES WALLS IN EXPOSED AREAS.
- 5. SPRINKLER HEADS SHALL BE AS FOLLOWS:
- A. HEADS MOUNTED IN CEILINGS SHALL BE CONCEALED TYPE, QUICK RESPONSE,
- HEADS IN AREAS WITHOUT CEILINGS SHALL BE UPRIGHT, QUICK RESPONSE TYPE.
- HEADS IN IT OR COMMUTATION ROOM SHALL BE SIDEWALL TYPE, QUICK RESPONSE
- 6. TIE-IN OF FLOW SWITCH AND TAMPER SWITCHES TO FIRE ALARM SYSTEM, AND WIRING SHALL BE PERFORMED UNDER DIVISION 26.
- ALL FIRE PROTECTION PIPING WITHIN ROOMS WITH EXPOSED CEILING SHALL BE PAINTED RED. HEADS SHALL BE UPRIGHT WITH PROTECTED CAGES.
- 8. TEST SYSTEMS AT 200 PSI FOR TWO HOURS IN ACCORDANCE WITH NFPA-13 AND 24 AND REQUIREMENTS OF AHJ AND PREPARE "CONTRACTORS MATERIAL AND TEST CERTIFICATE" AS PRESCRIBED BY NFPA STANDARDS.
- 9. PROVIDE A SPRINKLER HEAD CABINET AND PROVIDE SPARE SPRINKLER HEADS IN ACCORDANCE WITH NFPA-13.
- 10. SIAMESE FIRE DEPARTMENT CONNECTION SHALL HAVE (2) 2 1/2 INCH POLISHED BRASS INLET HOSE CONNECTIONS, 4" OUTLET PIPE, RED ENAMEL FINISH, CAST IRON EASE OFF CAPS, AUTOMATIC BRASS BALL DRIP CONNECTION, YARD MOUNT TYPE. SEE CIVIL DRAWINGS.
- 11. LABEL DRAIN PIPING, INSPECTOR'S TEST, MAIN DRAIN, SHUT-OFF VALVES, AND SIMILAR
- 12. SUBMIT FITTINGS PRODUCT DATA FOR ALL MATERIALS, INCLUDING PIPING FITTINGS, VALVES,
- 13. SEE CIVIL DRAWINGS FOR UNDERGROUND PIPING MATERIALS, SIAMESE POST INDICATOR VALVE, DOUBLE DETECTOR CHECK AND SITE PIPING.
- 14. PROVIDE AUXILIARY DRAINS FOR TRAPPED SECTIONS OF PIPING
- 15. HAZARD CLASSIFICATION OF OCCUPANCIES, DENSITY AREA (GMP/SQ FT) AND HOSE DEMAND (GPM) DESIGN REQUIREMENTS ARE IN ACCORDANCE WITH NFPA-13.
- 16. THE FIRE PROTECTION CONTRACTOR SHALL LIMIT THE SPRINKLER PIPING MAINS SO AS TO BE LOCATED IN A 6" HORIZONTAL SPACE ABOVE THE CEILINGS, USING EITHER THE 6" OF SPACE DIRECTLY ABOVE THE CEILINGS, OR THE 6" OF SPACE DIRECTLY BELOW THE STRUCTURE. COORDINATION WITH MECHANICAL AND PLUMBING CONTRACTORS IS REQUIRED PRIOR TO SUBMISSION OF SPRINKLER SHOP DRAWINGS. ADDITIONAL ROWS OF SPRINKLER HEADS MAY BE REQUIRED IN SOME SPACES WHERE LARGE DUCTWORK PREVENTS MAXIMUM HEAD SPACINGS FROM WALLS. WHERE NEEDED FOR COORDINATION, THE SPRINKLER PIPING SHALL OFFSET UP INTO AND BETWEEN JOISTS, AND OFFSET AROUND DUCT RUNS.
- 17. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE ALL MAIN PIPING RUNS THROUGH THE BUILDING WITH ALL TRADES. ANY EXPOSED PIPING ROUTING SHALL BE APPROVED BY ARCHITECT PRIOR TO FABRICATION AND INSTALLATION.
- 18. CONTRACTOR SHALL COORDINATE EXACT NUMBER AND LOCATIONS OF FLOOR CONTROL VALVES. NO VALVE SHALL SERVE MORE THAN 52,000 SQ.FT. PER VALVE. VALVES HAVE BEEN LOCATED ON THIS PLAN, BUT MAY BE MODIFIED TO COORDINATE WITH BUILDING CONDITIONS.

LEGEND

FDC

FE

FP

GPM

PSI

HP

PH

DDCV

CAPPED PIPE

BALL VALVE

RISER NIPPLE

FIRE EXTINGUISHER

GALLONS PER MINUTE

POUNDS PER SQUARE INCH

DOUBLE DETECTOR CHECK VALVE

LOW AIR PRESSURE SWITCH

NOTES ON DRAWING PLAN

FIRE PROTECTION

HORSE POWER

NORMALLY CLOSE

PHASE

TEMPERATURE RATING

DENSITY GPM/SQ. FT.

HOSE STREAM

HOSE STREAM

REDUCER

INSPECTORS TEST STATION

POST INDICATOR VALVE (PIV)

AUTHORITY HAVE JURISDICTION

FIRE DEPARTMENT SIAMESE CONNECTION

- 19. TO THE BEST OF THE ENGINEERS KNOWLEDGE, MICROBIAL INDUCED CORROSION (MIC) IS NOT OF CONCERN. SCHEDULE 40 BRANCH PIPING IS SPECIFIED, IN PART FOR CORROSION RESISTANCE.
- 20. THE WATER SUPPLY TO THE FIRE PROTECTION SYSTEM SHALL BE TESTED FOR CONTAMINANTS THAT MAY LEAD TO MICROBIAL CORROSION. IF POSSIBLE CONTAMINANTS ARE FOUND, PROTECTIVE MEASURES SHALL BE DESIGNED INTO THE SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROCUREMENT OF THE TEST, AND EVALUATION OF THE RESULTS. PROVIDE TEST RESULTS AND RECOMMENDATIONS TO THE DESIGN TEAM AND
- 21. THE CONTRACTOR SHALL VISIT AND CAREFULLY EXAMINE THOSE 10. PORTIONS OF THE SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSALS, SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL INDICATE THAT SUCH EXAMINATION BY THE CONTRACTOR HAS BEEN MADE. LATER CLAIMS FOR LABOR EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED.
- 22. UNFORESEEN CONDITIONS MAY EXIST. COOPERATION WITH OTHER TRADES IN ROUTING AND/OR BURIAL DEPTHS AS DETERMINED DURING CONSTRUCTION AND AS DIRECTED BY THE ARCHITECT MAY BE NECESSARY. IT IS INTENDED THAT SUCH DEVIATIONS SHALL BE CONSIDERED AS PART OF THIS CONTRACT. THE PLANS ARE NOT COMPLETELY TO SCALE. THIS CONTRACTOR IS TO FIELD VERIFY DIMENSIONS OF ALL SITE UTILITIES, ETC..., PRIOR TO BID AND INCLUDE ANY DEVIATIONS IN THE CONTRACT.
- 23. THE CONTRACTOR SHALL PROVIDE ALL MATERIAL, LABOR, TRUCKING, HOISTING, ENGINEERING, SCAFFOLDING, POWER HOOK UPS, PROTECTION, SHOP DRAWINGS, TAXES, LAYOUT, EQUIPMENT, SUPERVISION, INSURANCE, ETC. NECESSARY FOR THE FURNISHING AND INSTALLATION OF ALL SPECIFIED AND RELATED WORK IN ACCORDANCE WITH THE CONTACT DRAWINGS AND SPECIFICATIONS.
- 24. CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, APPLY FOR ALL PERMITS, AND PAY ALL GOVERNMENTAL TAXES, FEES AND SEAL ALL NECESSARY PLANS, ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS FROM ALL DEPARTMENTS HAVING JURISDICTION. OBTAIN ALL REQUIRED CERTIFICATIONS OF INSPECTION FOR HIS/HER WORK AND DELIVER SAME TO THE OWNER BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR THE
- 25. WORK SHALL BE PERFORMED, IN STRICT COMPLIANCE WITH THE ESTABLISHED WORK SCHEDULE BEING SET FORTH BY OWNER. COORDINATE ALL WORK WITH GENERAL CONTRACTOR. THIS CONTRACTOR SHALL FURNISH ADEQUATE FORCES, CONSTRUCTION PLANT AND EQUIPMENT, AND SHALL WORK SUCH HOURS, INCLUDING NIGHT SHIFTS, OVERTIME OPERATIONS, SUNDAYS AND HOLIDAYS IN ACCORDANCE WITH THE OWNER'S OPERATIONAL SCHEDULE AS LISTED IN DIVISION 1 OF THE SPECIFICATIONS. IF THE CONTRACTOR DOES NOT MAINTAIN THE CONSTRUCTION SCHEDULE BECAUSE OF INADEQUATE FORCES, SUPERVISION OR ANY OTHER REASON UNDER THE CONTRACTOR'S CONTROL, THE OWNER MAY REQUIRE THE CONTRACTOR TO INCREASE THE NUMBER OF SHIFTS AND/OR OVERTIME OPERATIONS, DAY OF WORK AND/OR THE AMOUNT OF CONSTRUCTION PLANT, AT NO ADDITIONAL COST TO THE OWNER UNDER THIS CONTRACT. FAILURE TO MAINTAIN THE CONSTRUCTION SCHEDULE DUE TO OWNER'S OPERATIONAL INTERFERENCE'S, WHICH WERE NOT IDENTIFIED IN OR PRIOR TO THE PRE-BID CONFERENCE, SHALL NOT BE THE CONTRACTOR'S
- 26. ALL VALVES CONTROLLING WATER SUPPLY SHALL BE EQUIPPED WITH TAMPER SWITCHES. 27. ALL OS&Y VALVES CONTROLLING WATER SUPPLY SHALL BE EQUIPPED WITH A LOCK AND
- 28. CONTRACTOR SHALL PROVIDE AUXILIARY DRAINS AS REQUIRED PER NFPA 13, 8.15.2.5.2.3.
- 29. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES.
- 30. CONTRACTOR SHALL PROVIDE MEANS OF VENTING TRAPPED AIR WITHIN SYSTEM PIPING.
- 31. CONTRACTOR SHALL CREATE A FULL SET OF COORDINATION DRAWINGS WITH ALL DISCIPLINES
- 32. INSPECTORS TEST/DRAIN VALVE SHALL BE ROUTED TO THE EXTERIOR OF THE BUILDING. CONTRACTOR SHALL PROVIDE A SPLASH BLOCK FOR DISCHARGE OF WATER.
- 33. BACKFLOW PREVENTER DEDICATED FOR FIRE PROTECTION USE SHALL BE INSULATED TO PROTECT AGAINST FREEZING.
- 34. SPRINKLER HEADS MUST BE INSTALLED WITH A DATE OF MANUFACTURER NOT MORE THAN ONE (1) YEAR PRIOR TO THE DATE OF INSTALLATION.
- 35. CONTRACTOR SHALL MAINTAIN WALL RATING AT PIPE PENETRATIONS THROUGH RATED WALLS.

PROJECT INFORMATION

PROJECT NAME: SJCSD K-8 00 PROJECT LOCATION: ST. JOHNS COUNTY, FLORIDA

61G15-32 COMPLIANCE NOTES

- 1 SPRINKLER SYSTEM LAYOUT SHALL BE SUBMITTED BY A STATE OF FLORIDA LICENSED FIRE PROTECTION CONTRACTOR. THIS BUILDING SHALL BE FULLY SPRINKLED BY A WET PIPE SPRINKLER SYSTEM. CONTRACTOR SHALL LAYOUT AND PROVIDE AUTOMATIC WET PIPE FIRE SPRINKLER SYSTEM ALL APPLICABLE CODES SET FORTH BY THE AUTHORITY HAVING JURISDICTION. DISCHARGE FROM INDIVIDUAL HEADS IN THE HYDRAULICALLY MOST REMOTE/DEMANDING AREA SHALL BE HYDRAULICALLY CALCULATED TO AN ACCEPTABLE MARGIN OF SAFETY NOT LESS THAN 10 PSI FOR GROWTH AND FLUCTUATION IN AVAILABLE SUPPLY OF AREA. FIRE SPRINKLER SYSTEM SHALL INCLUDE MATERIALS, ACCESSORIES, AND EQUIPMENT INSIDE AND OUTSIDE THE BUILDING TO PROVIDE A COMPLETE AND READY FOR USE SPRINKLER SYSTEM. LAYOUT AND PROVIDE EACH SYSTEM TO GIVE FULL CONSIDERATION TO BLIND SPACES, PIPING, ELECTRICAL EQUIPMENT, DUCTS, HVAC EQUIPMENT, ACCESS SPACE NEEDED FOR MAINTENANCE OF EQUIPMENT AND OTHER CONSTRUCTION AND EQUIPMENT IN ACCORDANCE WITH DETAILED WORKING DRAWINGS TO BE SUBMITTED FOR APPROVAL. LOCATE SPRINKLER HEADS IN A CONSISTENT PATTERN WITH CEILING GRID, LIGHTS, DIFFUSER, REGISTERS, GRILLES AND ARCHITECTURAL FEATURES. DEVICES AND EQUIPMENT FOR FIRE PROTECTION SERVICES SHALL BE U.L. LISTED AND F.M. APPROVED FOR USE IN WET PIPE SYSTEM.
- THE AUTOMATIC FIRE SUPPRESSION SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NFPA 13, CHAPTER 16 AND
- 3 REFER HYDRAULIC DESIGN DATA LEGEND FOR HAZARD CLASSIFICATIONS AND REQUIRED DENSITIES.
- 4 | 1) FLORIDA FIRE PREVENTION CODE, 7TH EDITION, 2020
 - 2) NFPA 13, 2016 3) NFPA 14, 2016
 - 4) NFPA 24, 2016 5) NFPA 25, 2016
 - 6) FLORIDA BUILDING CODE, 7TH EDITION, 2020 7) FLORIDA ADMINISTRATIVE CODE 61G15-32.003 AND 61G15- 32.004
 - 8) LOCAL AND COUNTY CODES SET FORTH BY AUTHORITY HAVING JURISDICTION 9) ST. JOHNS COUNTY SCHOOLS DISTRICT DESIGN STANDARD
- 5 | DUE TO PIPE SIZES REQUIRED NO ADDITIONAL STRUCTURAL SUPPORT SHOULD BE REQUIRED.
- 2A REFER TO CIVIL PLAN FOR POINT OF SERVICE.
- 2B INSTALLATION SHALL BE IN ACCORDANCE WITH N.F.P.A. 13, 2016 ED. FIRE PREVENTION CODE 2020, STATE AND
- LOCAL AUTHORITIES. 2C REFER TO HYDRAULIC DESIGN DATA LEGEND ON FLOOR PLANS.
- 2D | REFER TO 61G15—32.003 COMPLIANCE NOTE #1 AND HYDRAULIC DESIGN DATA LEGEND ON FLOOR PLANS.
- 2E NEW 6" UNDERGROUND BUILDING FIRE SUPPLY MAIN CONNECTS TO NEW 6" SITE FIRE MAIN. SITE FIRE MAIN CONNECT TO EXISTING CITY MAIN AT STREET.
- FLOW TEST HAS BEEN REQUESTED HYDRANT LOCATION STATIC GAUGE PRESSURE 60 PSI
- RESIDUAL GAUGE PRESSURE 58 PSI

| FLOW RATE

CONTRACTOR SHALL PROVIDE A HARD COPY OF CURRENT FLOW TEST IF SHOP DRAWINGS ARE SUBMITTED IN AN EXCESS OF 150 DAYS OF DATE OF FLOW TEST. REFER TO SPECIFICATIONS FOR FLOW TEST REQUIREMENTS.

- ALL VALVES CONTROLLING WATER SUPPLY SHALL HAVE A RED TAMPER PROOF COVER WHICH WILL ACTIVATE AN ALARM OR TROUBLE SIGNAL WHEN ADJUSTED.
- VERIFY THAT UTILITY PURVEYOR CONTINUOUSLY MONITORS THE WATER SUPPLY FOR MICRO BIOLOGICAL CONTAMINANTS WHICH MAY CAUSE MICROBIAL INDUCED CORROSION.
- 21 BUILDING SPRINKLER SYSTEM IS ON A DEDICATED FIRE LOOP MAIN WITH A NEW BACKFLOW PREVENTOR.
- \mid 2J \mid ALL YARD AND INTERIOR FIRE PROTECTION COMPONENTS SHALL BE NEW U.L. LISTED AND FM APPROVED.
- FOR HIGH HAZARD OCCUPANCY CLASSIFICATIONS, STORAGE OCCUPANCIES, AND FACTORY OCCUPANCIES, AS DEFINED IN SECTIONS 307, 311, AND 306, RESPECTIVELY, OF THE FLORIDA BUILDING CODE, BUILDING, AND HIGH-RISE BUILDINGS, A DETERMINATION OF WHETHER A FIRE PUMP IS REQUIRED AND IF SO. THE SPECIFIC VOLUMETRIC FLOW AND PRESSURE RATING OF THE PUMP. THE FLORIDA BUILDING CODE IS INCORPORATED BY REFERENCE IN SUBSECTION 61G15-18.011(6), F.A.C. (NOT REQUIRED)
- A VERIFICATION OF WHETHER A FIREWATER STORAGE TANK IS REQUIRED ON SITE AND IF SO, A DETERMINATION OF THE SIZE AND CAPACITY REQUIRED. (NOT REQUIRED) OWNER'S CERTIFICATE. IN STORAGE OCCUPANCIES, THE OWNER'S INFORMATION CERTIFICATE IS REQUIRED FROM
- THE PROPERTY OWNER AS IT CLEARLY DEFINES THE STORAGE CONFIGURATION OF THE SPACE FOR THE SPACE FOR THE CURRENT AND FUTURE USE OF THE PROPERTY, AS REQUIRED BY THE CODES AND STANDARDS SET
- FORTH IN SUBSECTION 61G15-32.002(7), F.A.C. CONTRACTOR SUBMITTALS WHICH DEVIATE FROM THE ABOVE MINIMUM DESIGN PARAMETERS SHALL BE
- CONSIDERED MATERIAL DEVIATIONS AND REQUIRE SUPPLEMENTAL ENGINEERING APPROVAL AND DOCUMENTATION. IN THE EVENT THE ENGINEER OF RECORD PROVIDES MORE INFORMATION AND DIRECTION THAN IS ESTABLISHED
- ABOVE, HE OR SHE SHALL BE HELD RESPONSIBLE FOR TECHNICAL ACCURACY OF THE WORK IN ACCORDANCE WITH APPLICABLE CODES, STANDARDS, AND SOUND ENGINEERING PRINCIPLES.

WATER SUPPLY ANALYSIS INFORMATION

WATER SUPPLY ESTIMATE

0.2 GPM PER SQ. FT. x 1500 SQ. FT. -1.3 OVERAGE FACTOR -SUBTOTAL -

300 GPM 90 GPM 250 GPM 640 GPM

ROUNDED TO BE 650 GPM

PRESSURE MINIMUM HEAD PRESSURE - 7 PSI ELEVATION - 48 FT -20 PSI 7 PSI BACKFLOW DEVICE -SUBTOTAL -34 PSI @ 650 GPM PRESSURE -56 PSI

56 PSI - 34 PSI = 22 PSIAVAILABLE FOR PIPING LOSSES THEREFORE NO FIRE PUMP IS REQUIRED

FIRE PROTECTION SHEET LISTING

- LEGEND, GENERAL NOTES AND SCHEDULES
- FIRE PROTECTION SITE PLAN
- FIRST FLOOR AREA 100 FIRE PROTECTION PLAN
- FIRST FLOOR AREA 200 FIRE PROTECTION PLAN FIRST FLOOR AREA 300 FIRE PROTECTION PLAN
- FIRST FLOOR AREA 700 FIRE PROTECTION PLAN
- FIRST FLOOR AREA 800 FIRE PROTECTION PLAN SECOND FLOOR AREA 400 FIRE PROTECTION PLAN
- SECOND FLOOR AREA 500 FIRE PROTECTION PLAN
- SECOND FLOOR AREA 600 FIRE PROTECTION PLAN THIRD FLOOR AREA 900 FIRE PROTECTION PLAN
- THIRD FLOOR AREA 1000 FIRE PROTECTION PLAN
- FIRE PROTECTION SECTION FIRE PROTECTION DETAILS
- FIRE PROTECTION DETAILS
- FIRE PROTECTION DETAILS

FLOW TEST | STATIC | RESIDUAL | GPM CONDUCTED DATE | PRESSURE | PRESSURE | DISCHARGE 5/25/22 | 60 PSI | 58 PSI | 2675 GPM FLOW AT 20 PSI

0.10 GPM OVER 1500 SQ. FT.

100 GPM / DURATION 30 MINUTES

LIGHT HAZARD OCCUPANCY CLASSIFICATION A) CLASSROOMS, B) REST ROOMS, DESIGN AREAS C) GYMNASIUM. D) LOCKER ROOMS. D) TEACHER PLANNING, E) CORRIDOR 225 SQ. FT. PER SPRINKLER MAXIMUM COVERAGE TEMPERATURE RATING ORDINARY 155° DENSITY GPM/SQ. FT.

HYDRAULIC DESIGN DATA

FIRE PROTECTION PIPING

FP PIPING BELOW GRADE

CHECK VALVE

GATE VALVE

GLOBE VALVE

ANGLE VALVE

FLOW SWITCH

FLOW SWITCH

SIGHT GLASS

UNION JOINT

PRESSURE GAUGE

PRESSURE SWITCH

REDUCER WITH FLANGES

TAMPER SWITCH

BUTTERFLY VALVE WITH TAMPER SWITCH

PIPE SLEEVE FOR WALL PWNETRATION

FIRE DEPARTMENT SIAMESE CONNECTION (FDC)

STRAINER

 \multimap

->∞(--

HOSE STREAM

HYDRAULIC DESIGN DATA							
OCCUPANCY CLASSIFICATION	ORDINARY HAZARD GROUP 1						
DESIGN AREAS	A) ELECTRICAL ROOMS B) BOILER ROOM						
MAXIMUM COVERAGE	130 SQ. FT. PER SPRINKLER						
TEMPERATURE RATING	212*						
DENSITY GPM/SQ. FT.	0.15 GPM OVER 1500 SQ. FT.						
HOSE STREAM	250 GPM / DURATION 60-90 MINUTES						

HYDRAULIC DESIGN DATA

ORDINARY HAZARD GROUP 1 OCCUPANCY CLASSIFICATION A) MECHANICAL ROOMS. DESIGN AREAS B) CENTRAL RECEIVING C) STORAGE ROOMS (STORAGE LESS THAN 8' AND QUANTITY AND ARRANGEMENT NOT EXCEEDING THE LIMITATIONS OF MISCELLANEOUS STORAGE). D) CUSTODIAL ROOMS. E) IT/DATA ROOMS 130 SQ. FT. PER SPRINKLER MAXIMUM COVERAGE

HYDRAULIC DESIGN DATA

ORDINARY 155°

0.15 GPM OVER 1500 SQ. FT.

500 GPM / DURATION 90-120 MINUTES

250 GPM / DURATION 60-90 MINUTES

OCCUPANCY CLASSIFICATION EXTRA HAZARD GROUP 2 A) FLAMMABLE STORAGE DESIGN AREAS 100 SQ. FT. PER SPRINKLER MAXIMUM COVERAGE TEMPERATURE RATING DENSITY GPM/SQ. FT. 0.25 GPM OVER 1500 SQ. FT.

FLOW TEST DATA

GENERAL NOTES

REFER TO GENERAL NOTES FOR THIS DISCIPLINE

THE SPRINKLER SYSTEMS SHALL BE DESIGNED, AND

HYDRAULICALLY CALCULATED TO DETERMINE PIPE SIZES.

THE PIPE HYDRAULIC CALCULATIONS SHALL INCLUDE A SAFETY

MARGIN OF AT LEAST 10 PSI TO ALLOW FOR FUTURE GROWTH,

AND OR FLUCTUATIONS IN THE AVAILABLE WATER SUPPLY.

ONLY. CONTRACTOR SHALL PROVIDE A LOOP OR GRIDDED

SPRINKLER MAINS ARE SHOWN FOR COORDINATION PURPOSES

ALL SPRINKLERS ARE TO BE CENTER OF TILE UNLESS NOTED

ALL PIPING 2-1/2" OR LARGER TO BE SCHEDULE 10 PIPE

ALL PIPING 2" OR SMALLER TO BE SCHEDULE 40 PIPE UNLESS

ALL ARM OVERS ARE TO BE 1" SCHEDULE 40 PIPE UNLESS

)) IT IS THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR TO COORDINATE HIS WORK WITH ALL OTHER TRADES, AS WELL AS

THE ARCHITECTURAL AND STRUCTURAL FEATURES OF THE

PROVIDE AUXILIARY DRAIN IN PIPING WHERE AN EXCESS OF 5

MEETING UNSPRINKLERED CONCEALED SPACE REQUIREMENTS OF

GALLONS OF WATER IS TRAPPED. COORDINATE DISCHARGE

12) PROVIDE SPRINKLER COVERAGE ABOVE CEILING IN AREAS NOT

3) CONTRACTOR SHALL CREATE A FULL SET OF COORDINATION

DRAWINGS WITH ALL DISCIPLINES PRIOR TO INSTALLATION OF

SPRINKLER SYSTEM LAYOUT AS REQUIRED TO PROVIDE MINIMUM

REFER TO SPECIFICATIONS.

10 PSI MARGIN OF SAFETY.

OTHERWISE (2' X 2' TILES).

UNLESS NOTED OTHERWISE.

LOCATION WITH ARCHITECT.

SPRINKLER SYSTEM.

NOTED OTHERWISE.

NOTED OTHERWISE.

IOHNSON, LEVINSON RAGAN, DAVILA, INC. West Palm Beach, Florida 33401 (561) 689-2303 (561) 689-2302 Fax

> 10-21-22 BAR

Comm. No: 22046.00 Date: Drawn: Revisions No. Date Note

THE MINIMUM BUILDING CODES

Jason A. Carpentier, P.E. 75336 Michael P. Linden, P.E. 58094 ©2022 HARVARD JOLLY, INC LEGEND. GENERAL **NOTES AND** SCHEDULES

FP0.1

JLRD No. 122106

7 | 3 | 1

5 | 3

Revisions

No. Date Note

To the best of My knowledge, the

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WIT THE MINIMUM BUILDING CODES.

Jason A. Carpentier, P.E. 75336 Michael P. Linden, P.E. 58094 ©2022 HARVARD JOLLY, INC.

FIRE PROTECTION SITE PLAN

FP0.2



JOHNSON, LEVINSON RAGAN, DAVILA, INC. 1450 Centrepark Boulevard, Suite 350 West Palm Beach, Florida 33401 (561) 689-2303 (561) 689-2302 Fax

K-8 SCHOOL "OO"
ST. JOHNS COUNTY S
1455 TWIN CREEKS DRIVE,
ST. AUGUSTINE FI OPION 7

Comm. No: 22046.00

PLAN NOTES

(2) INSPECTORS TEST ASSEMBLY, SEE DETAIL

3 FIRE MAIN ROUTED ABOVE CEILING

5 SIDEWALL HEADS, 200° TEMPERATURE AT BOTTOM OF ELEVATORS SHAFT.

6 6" FIRE LINE ENTRY. SEE ENTRY DETAIL. LINE MAY BE RESIZED UPON COMPLETION OF HYDRAULIC CALCULATIONS

1 UPRIGHT HEADS REQUIRED

4 SIDEWALL HEADS REQUIRED

AREA 800 7 BUILDING 4 7

BUILDING 6 4

Date: 10-21-22 BAR

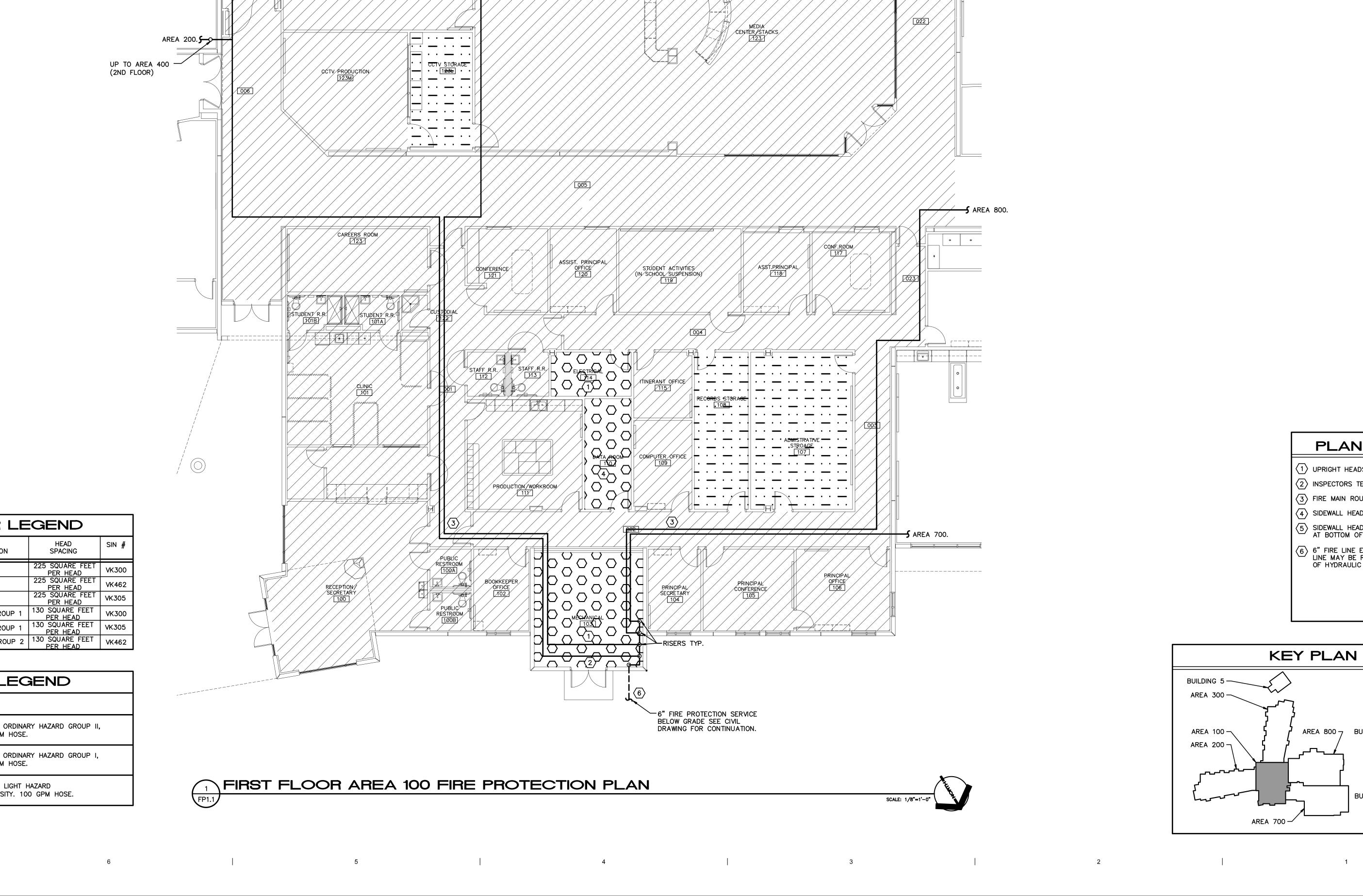
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No. Date Note

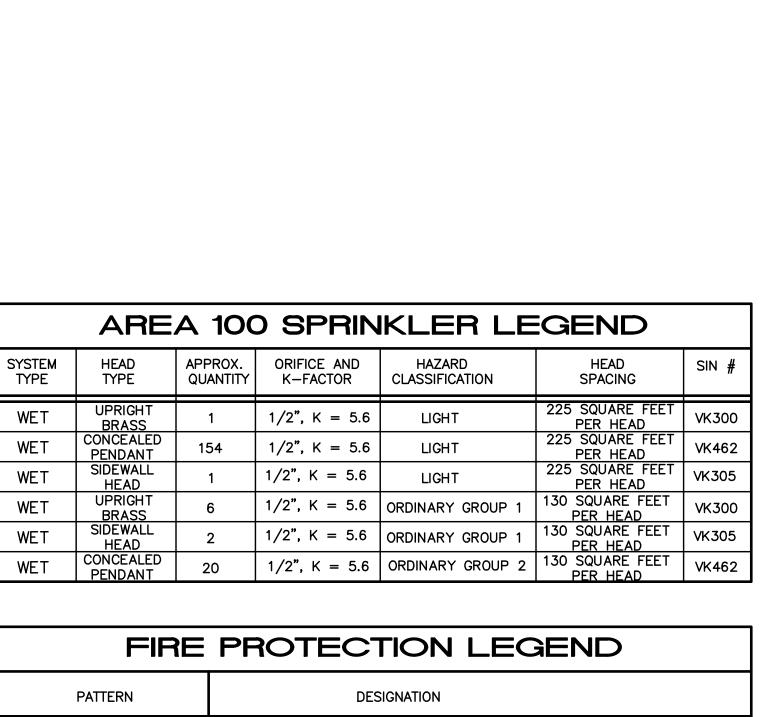
Jason A. Carpentier, P.E. 75336 Michael P. Linden, P.E. 58094 ©2022 HARVARD JOLLY, INC. FIRST FLOOR AREA 100 FIRE

PROTECTION PLAN

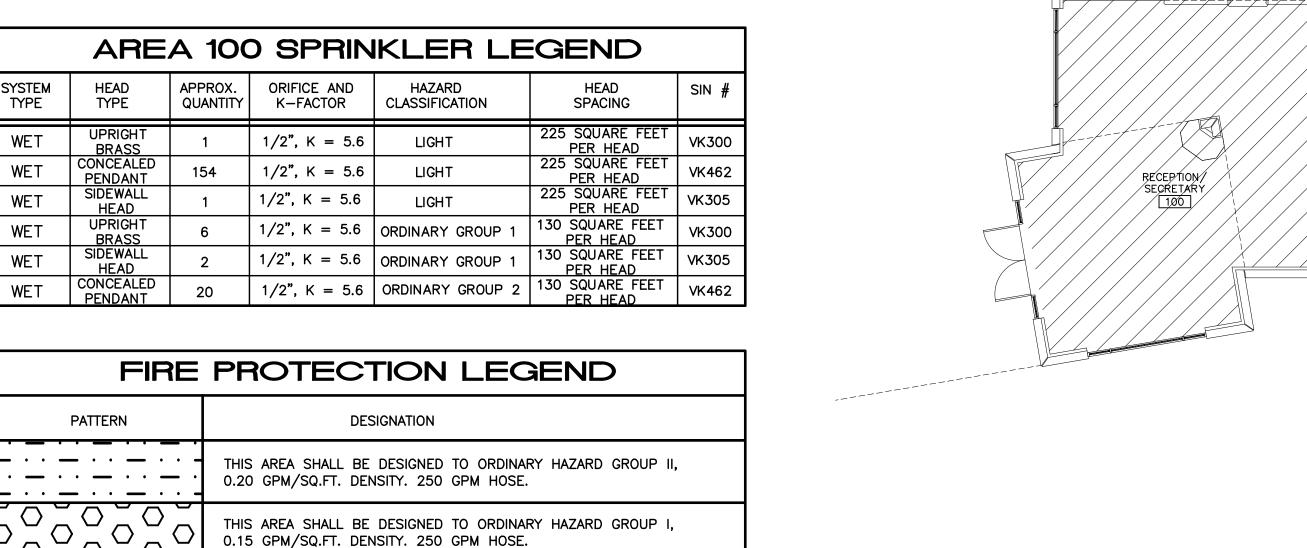
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-∫ AREA 700.



FIRE	FIRE PROTECTION LEGEND					
PATTERN DESIGNATION						
	THIS AREA SHALL BE DESIGNED TO ORDINARY HAZARD GROUP II, 0.20 GPM/SQ.FT. DENSITY. 250 GPM HOSE.					
	THIS AREA SHALL BE DESIGNED TO ORDINARY HAZARD GROUP I, 0.15 GPM/SQ.FT. DENSITY. 250 GPM HOSE.					
THIS AREA SHALL BE DESIGNED TO LIGHT HAZARD OCCUPANCY, 0.10 GPM/SQ.FT. DENSITY. 100 GPM HOSE.						



UP TO AREA 400 — (2ND FLOOR)



UP TO AREA 600 (2ND FLOOR)
AND AREA 900 (3RD FLOOR)

005

STUDENT ACTIVITIES (IN SCHOOL SUSPENSION)

6" FIRE PROTECTION SERVICE BELOW GRADE SEE CIVIL DRAWING FOR CONTINUATION.

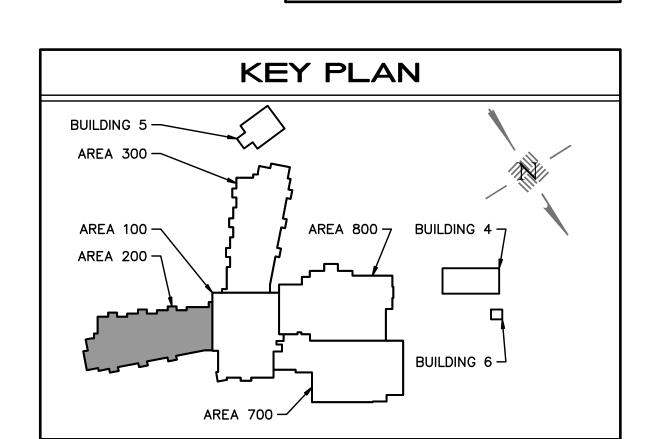
— UP TO AREA 500 (2ND FLOOR)
AND AREA 1000 (3RD FLOOR)



AREA 200 SPRINKLER LEGEND								
SYSTEM TYPE	HEAD TYPE	APPROX. QUANTITY	ORIFICE AND K-FACTOR	HAZARD CLASSIFICATION	HEAD SPACING	SIN #		
WET	UPRIGHT BRASS	4	1/2", K = 5.6	LIGHT	225 SQUARE FEET PER HEAD	VK300		
WET	CONCEALED PENDANT	100	1/2", K = 5.6	LIGHT	225 SQUARE FEET PER HEAD	VK462		
WET	UPRIGHT BRASS	6	1/2", K = 5.6	ORDINARY GROUP 1	130 SQUARE FEET PER HEAD	VK300		
WET	SIDEWALL HEAD	1	1/2", K = 5.6	ORDINARY GROUP 1	130 SQUARE FEET PER HEAD	VK305		
WET	CONCEALED PENDANT	12	1/2", K = 5.6	ORDINARY GROUP 2	130 SQUARE FEET PER HEAD	VK462		

FIRE	FIRE PROTECTION LEGEND			
PATTERN DESIGNATION				
THIS AREA SHALL BE DESIGNED TO ORDINARY HAZARD GROUP II, 0.20 GPM/SQ.FT. DENSITY. 250 GPM HOSE.				
	THIS AREA SHALL BE DESIGNED TO ORDINARY HAZARD GROUP I, 0.15 GPM/SQ.FT. DENSITY. 250 GPM HOSE.			
THIS AREA SHALL BE DESIGNED TO LIGHT HAZARD OCCUPANCY, 0.10 GPM/SQ.FT. DENSITY. 100 GPM HOSE.				

FIRST FLOOR AREA 200 FIRE PROTECTION PLAN



В	K-8 SCF ST. JOF 1455 TWIN ST. AUGU
	Comm. No: 22046.00
	Date: 10-21-22
	Drawn: BAR
	Revisions
	No. Date Note
_	

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITHE MINIMUM BUILDING CODES.

Jason A. Carpentier, P.E. 75336
Michael P. Linden, P.E. 58094
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FIRST FLOOR

AREA 200 FIRE

PROTECTION PLAN

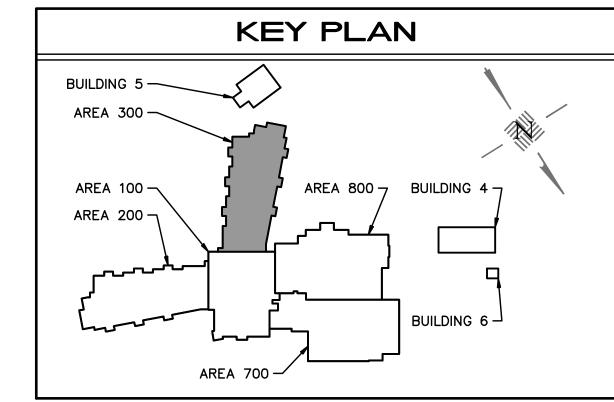
FP1.2



AREA 300 SPRINKLER LEGEND								
SYSTEM TYPE	HEAD TYPE	APPROX. QUANTITY	ORIFICE AND K-FACTOR	HAZARD CLASSIFICATION	HEAD SPACING	SIN #		
WET	UPRIGHT BRASS	4	1/2", K = 5.6	LIGHT	225 SQUARE FEET PER HEAD	VK300		
WET	CONCEALED PENDANT	100	1/2", K = 5.6	LIGHT	225 SQUARE FEET PER HEAD	VK462		
WET	UPRIGHT BRASS	6	1/2", K = 5.6	ORDINARY GROUP 1	130 SQUARE FEET PER HEAD	VK300		
WET	SIDEWALL HEAD	1	1/2", K = 5.6	ORDINARY GROUP 1	130 SQUARE FEET PER HEAD	VK305		
WET	CONCEALED PENDANT	12	1/2", K = 5.6	ORDINARY GROUP 2	130 SQUARE FEET PER HEAD	VK462		

FIRE	FIRE PROTECTION LEGEND				
PATTERN	DESIGNATION				
	THIS AREA SHALL BE DESIGNED TO ORDINARY HAZARD GROUP II, 0.20 GPM/SQ.FT. DENSITY. 250 GPM HOSE.				
	THIS AREA SHALL BE DESIGNED TO ORDINARY HAZARD GROUP I, 0.15 GPM/SQ.FT. DENSITY. 250 GPM HOSE.				
	THIS AREA SHALL BE DESIGNED TO LIGHT HAZARD OCCUPANCY, 0.10 GPM/SQ.FT. DENSITY. 100 GPM HOSE.				

FP1.3 FIRST FLOOR AREA 300 FIRE PROTECTION PLAN



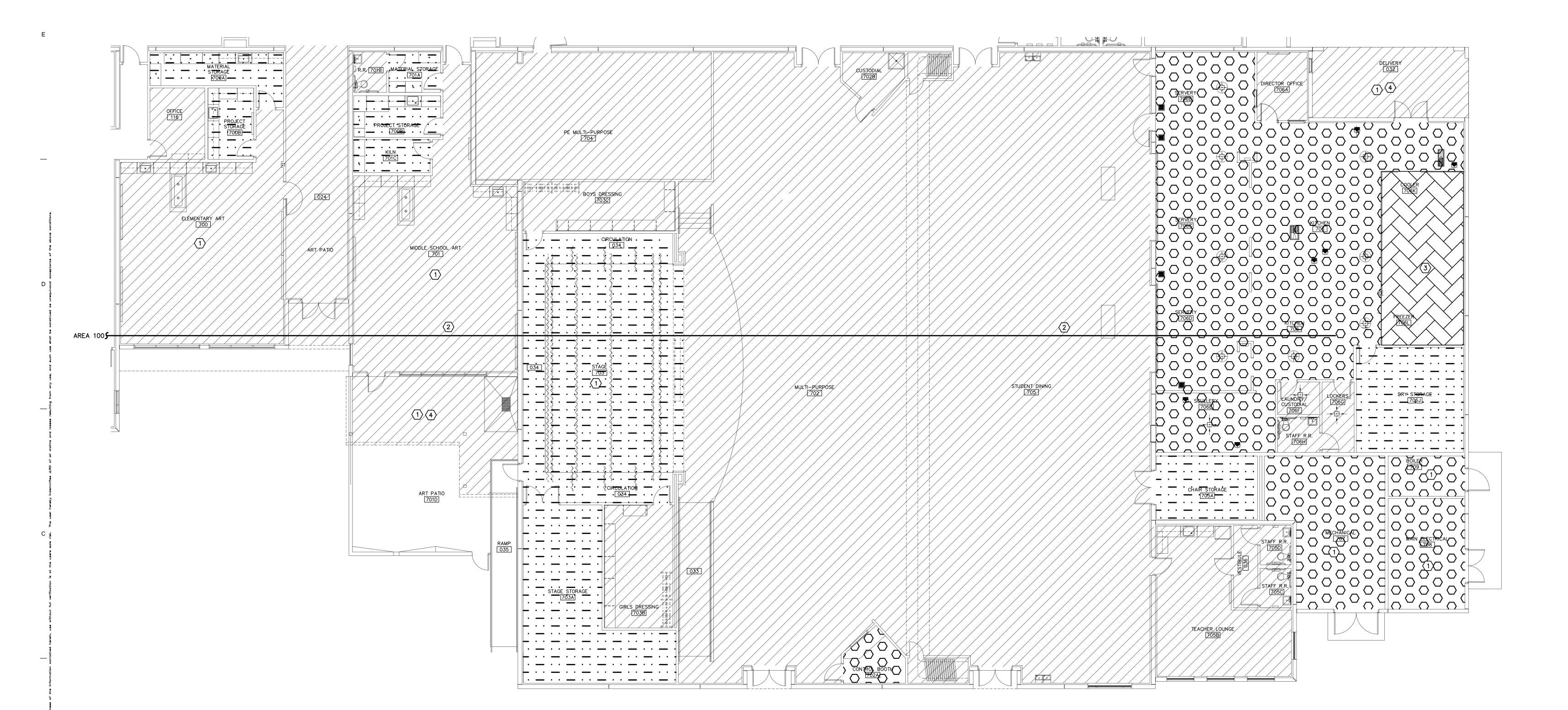
SCALE: 1/8"=1'-0"

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Michael P. Linden, P.E. 58094
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FIRST FLOOR
AREA 300 FIRE
PROTECTION PLAN

FP1.3

JIRD No. 122106





5 4

	,	(0
PLAN NOTES		K-8 9
RIGHT HEADS REQUIRED	В	<u> </u>
RE MAIN ROUTED ABOVE CEILING		Comm. N
Y TYPE HEAD REQUIRED FOR		Date:
EEZER/COOLER		Drawn:
RE PROTECTION PIPING EXPOSED TO TSIDE ELEMENTS SHALL BE		
LVANIZED, SPRINKLER HEADS SHALL TEFLON COATED HEADS.		No. Date

KI	EY PLAN
BUILDING 5	$\overline{}$
AREA 300	~
	}
AREA 100 —	(AREA 800 7 B)
AREA 200	<u> </u>
	۶ ۱
AREA 700	

WET	UPRIGHT BRASS	18	1/2", K = 5.6	LIGHT	225 SQUARE FEET PER HEAD	VK300
WET	CONCEALED PENDANT	62	1/2", K = 5.6	LIGHT	225 SQUARE FEET PER HEAD	VK462
WET	UPRIGHT BRASS	8	1/2", K = 5.6	ORDINARY GROUP 1	130 SQUARE FEET PER HEAD	VK300
WET	CONCEALED PENDANT	26	1/2", K = 5.6	ORDINARY GROUP 1	130 SQUARE FEET PER HEAD	VK462
WET	CONCEALED PENDANT	16	1/2", K = 5.6	ORDINARY GROUP 2	130 SQUARE FEET PER HEAD	VK462
WET	UPRIGHT BRASS	12	1/2", K = 5.6	ORDINARY GROUP 2	130 SQUARE FEET PER HEAD	VK300
			ROTEC	TION LEC		
	PATTERN		DES	SIGNATION		
THIS AREA SHALL BE DESIGNED TO ORDINARY HAZARD GROUP II, 0.20 GPM/SQ.FT. DENSITY. 250 GPM HOSE.				,		
	000	/ \		DESIGNED TO ORDINAI NSITY. 250 GPM HOSE.	•	
		/ /		DESIGNED TO LIGHT F PM/SQ.FT. DENSITY. 10		

THIS AREA SHALL BE DESIGNED TO LIGHT HAZARD, 0.10

GPM/SQ.FT. DENSITY. (DRY TYPE HEAD)

AREA 700 SPRINKLER LEGEND

HAZARD CLASSIFICATION

HEAD SPACING

VK300

ORIFICE AND K-FACTOR

APPROX. QUANTITY

SYSTEM TYPE

HEAD TYPE

	_ _
KEY PLAN	
BUILDING 5	
AREA 300	
AREA 200 - AREA 200 - BUILDING 4	
AREA 700	

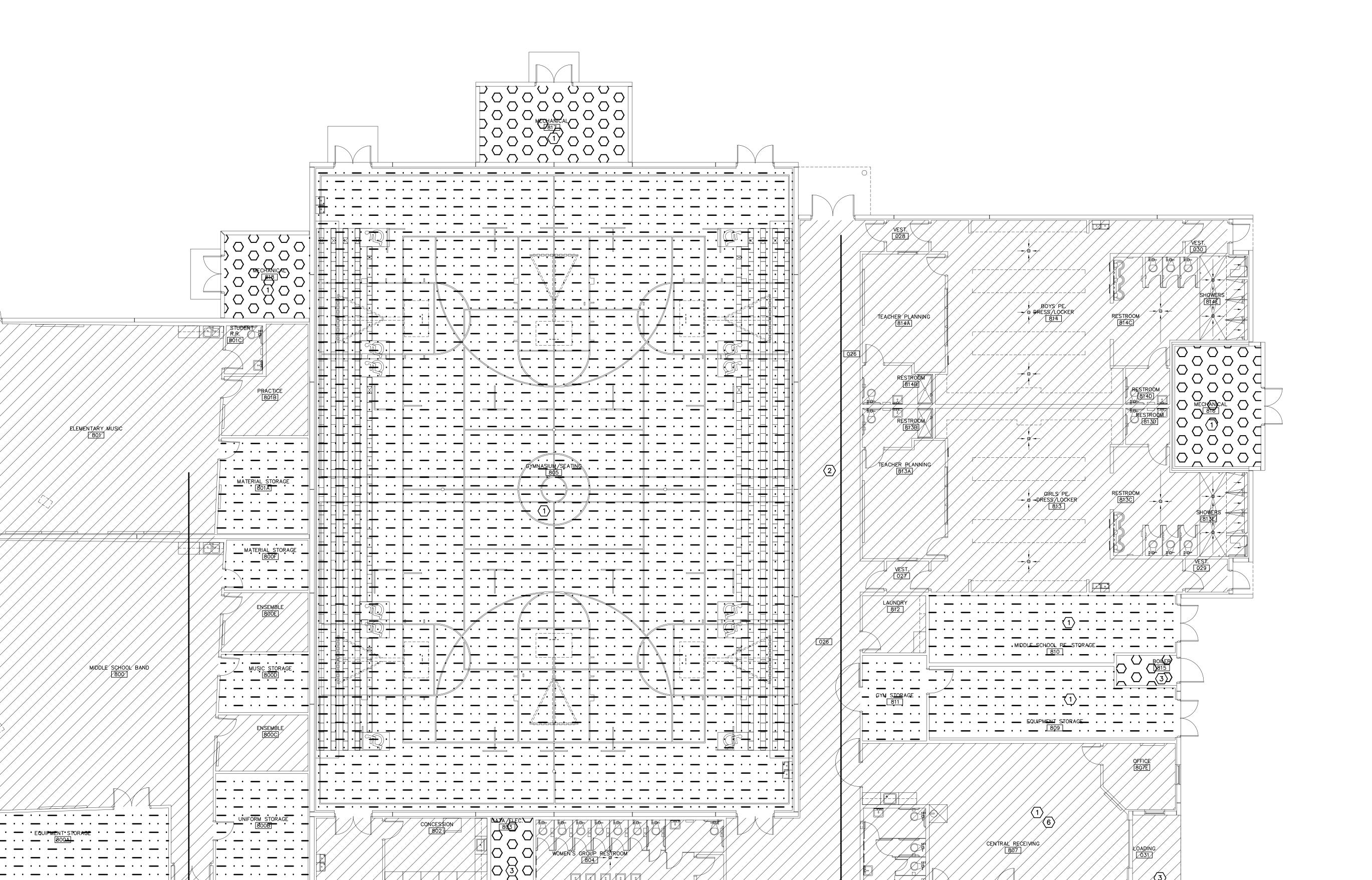
No: 22046.00 10-21-22 BAR Revisions

JOHNSON, LEVINSON RAGAN, DAVILA, INC.

1450 Centrepark Boulevard, Suite 350 West Palm Beach, Florida 33401 (561) 689-2303 (561) 689-2302 Fax

THE MINIMUM BUILDING CODES.

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) A N I	NIOT	
PLAN	NO	

- 1) UPRIGHT HEADS REQUIRED WITH PROTECTED CAGES. $\langle 2 \rangle$ FIRE MAIN ROUTED ABOVE CEILING
- 3 SIDEWALL HEADS REQUIRED FIRE PROTECTION PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE GALVANIZED, SPRINKLER HEADS SHALL BE TEFLON COATED HEADS.
- 6" FIRE LINE ENTRY. SEE ENTRY DETAIL. LINE MAY BE RESIZED UPON

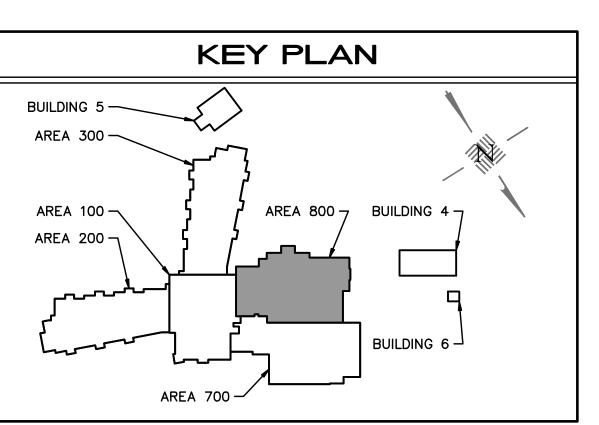
COMPLETION OF HYDRAULIC CALCULATIONS.	
6 FIRE PROTECTION PIPING IN THIS IS EXPOSED AND SHALL BE PAIL RED. HEADS SHALL BE UPRIGHT PROTECTED CAGES AROUND SPENDERS	WITH

	AREA 800 SPRINKLER LEGEND								
SYSTEM TYPE	HEAD TYPE	APPROX. QUANTITY	ORIFICE AND K-FACTOR	HAZARD CLASSIFICATION	HEAD SPACING	SIN #			
WET	UPRIGHT BRASS	8	1/2", K = 5.6	LIGHT	225 SQUARE FEET PER HEAD	VK300			
WET	CONCEALED PENDANT	64	1/2", K = 5.6	LIGHT	225 SQUARE FEET PER HEAD	VK462			
WET	SIDEWALL HEAD	1	1/2", K = 5.6	LIGHT	225 SQUARE FEET PER HEAD	VK305			
WET	UPRIGHT BRASS	6	1/2", K = 5.6	ORDINARY GROUP 1	130 SQUARE FEET PER HEAD	VK300			
WET	SIDEWALL HEAD	1	1/2", K = 5.6	ORDINARY GROUP 1	130 SQUARE FEET PER HEAD	VK305			
WET	CONCEALED PENDANT	12	1/2", K = 5.6	ORDINARY GROUP 2	130 SQUARE FEET PER HEAD	VK462			
WET	UPRIGHT BRASS	50	1/2", K = 5.6	ORDINARY GROUP 2	130 SQUARE FEET PER HEAD	VK300			

FIRE	FIRE PROTECTION LEGEND				
PATTERN	PATTERN DESIGNATION				
	THIS AREA SHALL BE DESIGNED TO ORDINARY HAZARD GROUP II, 0.20 GPM/SQ.FT. DENSITY. 250 GPM HOSE.				
	THIS AREA SHALL BE DESIGNED TO ORDINARY HAZARD GROUP I, 0.15 GPM/SQ.FT. DENSITY. 250 GPM HOSE.				
	THIS AREA SHALL BE DESIGNED TO LIGHT HAZARD OCCUPANCY, 0.10 GPM/SQ.FT. DENSITY. 100 GPM HOSE.				

FP1.5 FIRST FLOOR AREA 800 FIRE PROTECTION PLAN

6 | 5 | 2



THE MINIMUM BUILDING CODES.

Comm. No: 22046.00

Date: 10-21-22

No. Date

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FP1.5



Comm. No: 22046.00

10-21-22

KEY PLAN

AREA 600 —

AREA 500 —

AREA 400 -

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PROTECTION PLAN FP2.1

JLRD No. 122106



5 | 3

WET UPRIGHT BRASS 4 1/2", K = 5.6 LIGHT 225 SQUARE FEET PER HEAD VK300

WET CONCEALED PENDANT 100 1/2", K = 5.6 LIGHT 225 SQUARE FEET PER HEAD VK462

WET UPRIGHT BRASS 10 1/2", K = 5.6 ORDINARY GROUP 1 130 SQUARE FEET PER HEAD VK300

WET SIDEWALL HEAD 1 1/2", K = 5.6 ORDINARY GROUP 1 130 SQUARE FEET PER HEAD VK305

WET CONCEALED PENDANT 12 1/2", K = 5.6 ORDINARY GROUP 2 130 SQUARE FEET PER HEAD VK462

FIRE PROTECTION LEGEND

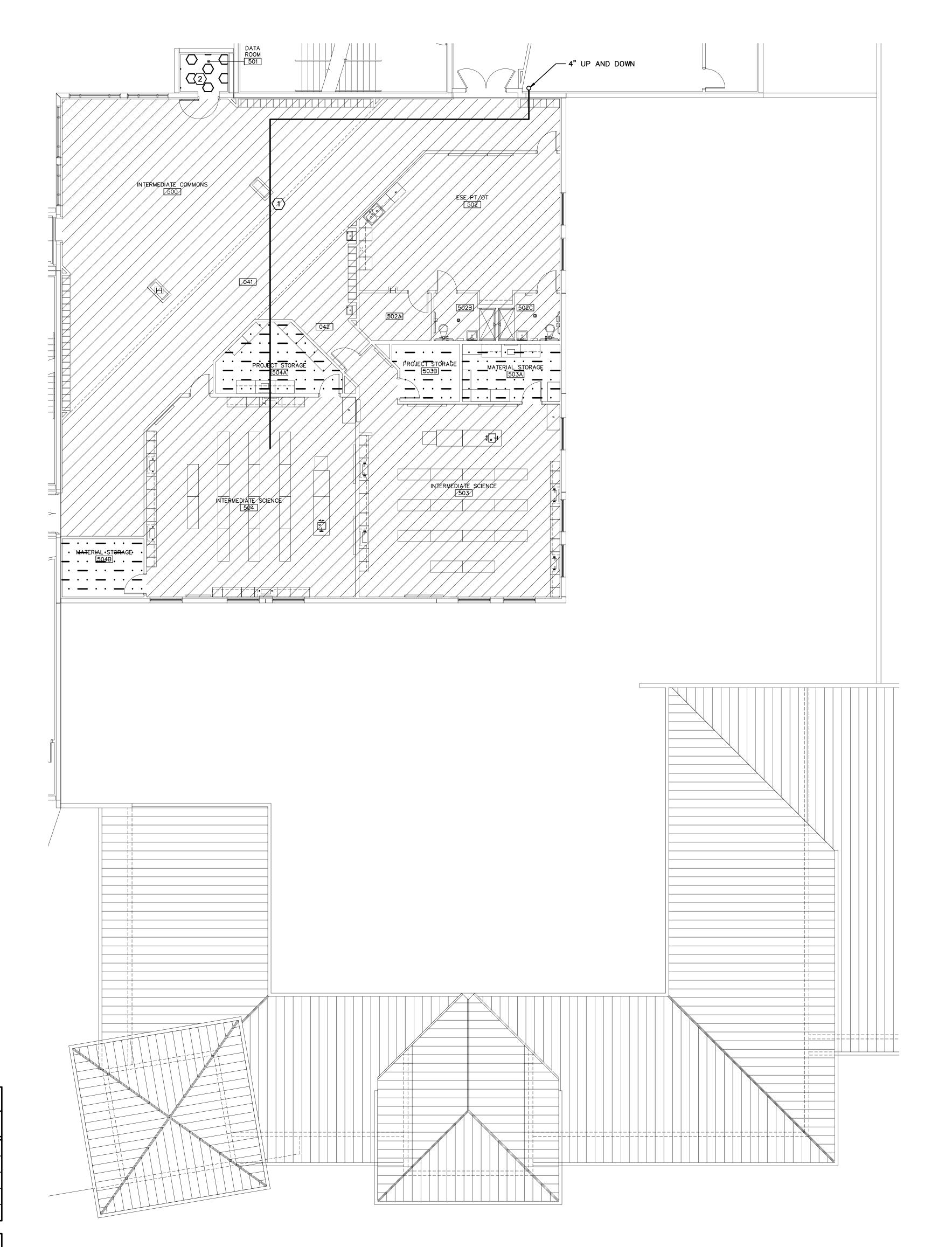
PATTERN

DESIGNATION

THIS AREA SHALL BE DESIGNED TO ORDINARY HAZARD GROUP II, 0.20 GPM/SQ.FT. DENSITY. 250 GPM HOSE.

THIS AREA SHALL BE DESIGNED TO ORDINARY HAZARD GROUP I, 0.15 GPM/SQ.FT. DENSITY. 250 GPM HOSE.

THIS AREA SHALL BE DESIGNED TO LIGHT HAZARD OCCUPANCY, 0.10 GPM/SQ.FT. DENSITY. 100 GPM HOSE.



	AREA 500 SPRINKLER LEGEND							
SYSTEM TYPE	HEAD TYPE	APPROX. QUANTITY	ORIFICE AND K-FACTOR	HAZARD CLASSIFICATION	HEAD SPACING	SIN #		
WET	CONCEALED PENDANT	38	1/2", K = 5.6	LIGHT	225 SQUARE FEET PER HEAD	VK462		
WET	SIDEWALL HEAD	1	1/2", K = 5.6	ORDINARY GROUP 1	130 SQUARE FEET PER HEAD	VK305		
WET	CONCEALED PENDANT	6	1/2", K = 5.6	ORDINARY GROUP 2	130 SQUARE FEET PER HEAD	VK462		

FIRE PROTECTION LEGEND				
PATTERN	DESIGNATION			
	THIS AREA SHALL BE DESIGNED TO ORDINARY HAZARD GROUP II, 0.20 GPM/SQ.FT. DENSITY. 250 GPM HOSE.			
	THIS AREA SHALL BE DESIGNED TO ORDINARY HAZARD GROUP I, 0.15 GPM/SQ.FT. DENSITY. 250 GPM HOSE.			
	THIS AREA SHALL BE DESIGNED TO LIGHT HAZARD OCCUPANCY, 0.10 GPM/SQ.FT. DENSITY. 100 GPM HOSE.			



7 4 5





JOHNSON, LEVINSON RAGAN, DAVILA, INC.

CONSULTING ENGINEERS

1450 Centrepark Boulevard, Suite 350
West Palm Beach, Florida 33401
(561) 689-2303 (561) 689-2302 Fax

S SCHOOL "OU"

JOHNS COUNTY SCHOOL DISTRICT - BID # 2

TWIN CREEKS DRIVE,

Comm. No: 22046.00

Date: 10-21-22

Drawn: BAR

Revisions

No. Date Note

PLAN NOTES

1 FIRE MAIN ROUTED ABOVE CEILING

2 SIDEWALL HEADS REQUIRED

KEY PLAN

AREA 600 —

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SECOND FLOOR
AREA 500 FIRE
PROTECTION PLAN

FP2.2



7 | 5 | 2

PLAN NOTES

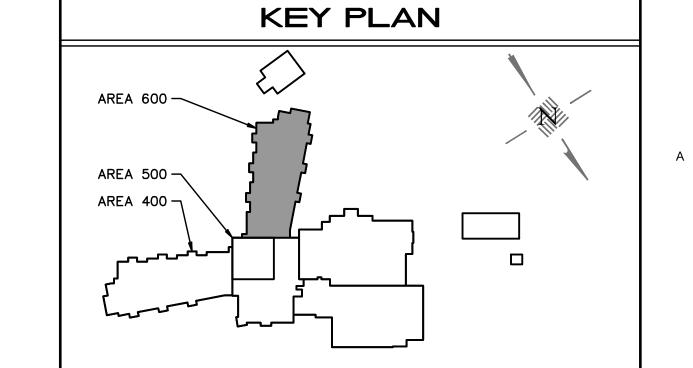
1 UPRIGHT HEADS REQUIRED
2 FIRE MAIN ROUTED ABOVE CEILING
3 SIDEWALL HEADS REQUIRED

	AREA 600 SPRINKLER LEGEND						
SYSTEM TYPE	HEAD TYPE	APPROX. QUANTITY	ORIFICE AND K-FACTOR	HAZARD CLASSIFICATION	HEAD SPACING	SIN #	
WET	UPRIGHT BRASS	6	1/2", K = 5.6	LIGHT	225 SQUARE FEET PER HEAD	VK300	
WET	CONCEALED PENDANT	100	1/2", K = 5.6	LIGHT	225 SQUARE FEET PER HEAD	VK462	
WET	UPRIGHT BRASS	8	1/2", K = 5.6	ORDINARY GROUP 1	130 SQUARE FEET PER HEAD	VK300	
WET	SIDEWALL HEAD	2	1/2", K = 5.6	ORDINARY GROUP 1	130 SQUARE FEET PER HEAD	VK305	
WET	CONCEALED PENDANT	12	1/2", K = 5.6	ORDINARY GROUP 2	130 SQUARE FEET PER HEAD	VK462	

FIRE	FIRE PROTECTION LEGEND				
PATTERN	PATTERN DESIGNATION				
THIS AREA SHALL BE DESIGNED TO ORDINARY HAZARD GROUP II, 0.20 GPM/SQ.FT. DENSITY. 250 GPM HOSE.					
	THIS AREA SHALL BE DESIGNED TO ORDINARY HAZARD GROUP I, 0.15 GPM/SQ.FT. DENSITY. 250 GPM HOSE.				
	THIS AREA SHALL BE DESIGNED TO LIGHT HAZARD OCCUPANCY, 0.10 GPM/SQ.FT. DENSITY. 100 GPM HOSE.				

	SECOND FLOOR AREA 600 FIRE PROTECTION PLAN
FP2.3	

7 | 5 | 2



K-8 SCHOOL "OO"

K-8 SCHOOL "OO"

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Date: 10-21-22

Drawn: BAR

Revisions

No. Date Note

ST. AUGUSTINE, FLORIDA 33

JOHNSON, LEVINSON RAGAN, DAVILA, INC.

2022-

BID

DISTRICT

SCHOOL

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SECOND FLOOR

AREA 600 FIRE

PROTECTION PLAN

FP2.3



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SCHO K-8 SCHOOL "OO"
ST. JOHNS COUNTY S
1455 TWIN CREEKS DRIVE,
ST. AUGUSTINE, FLORIDA 2

Comm. No: 22046.00 Date:

PLAN NOTES

1 UPRIGHT HEADS REQUIRED

3 SIDEWALL HEADS REQUIRED

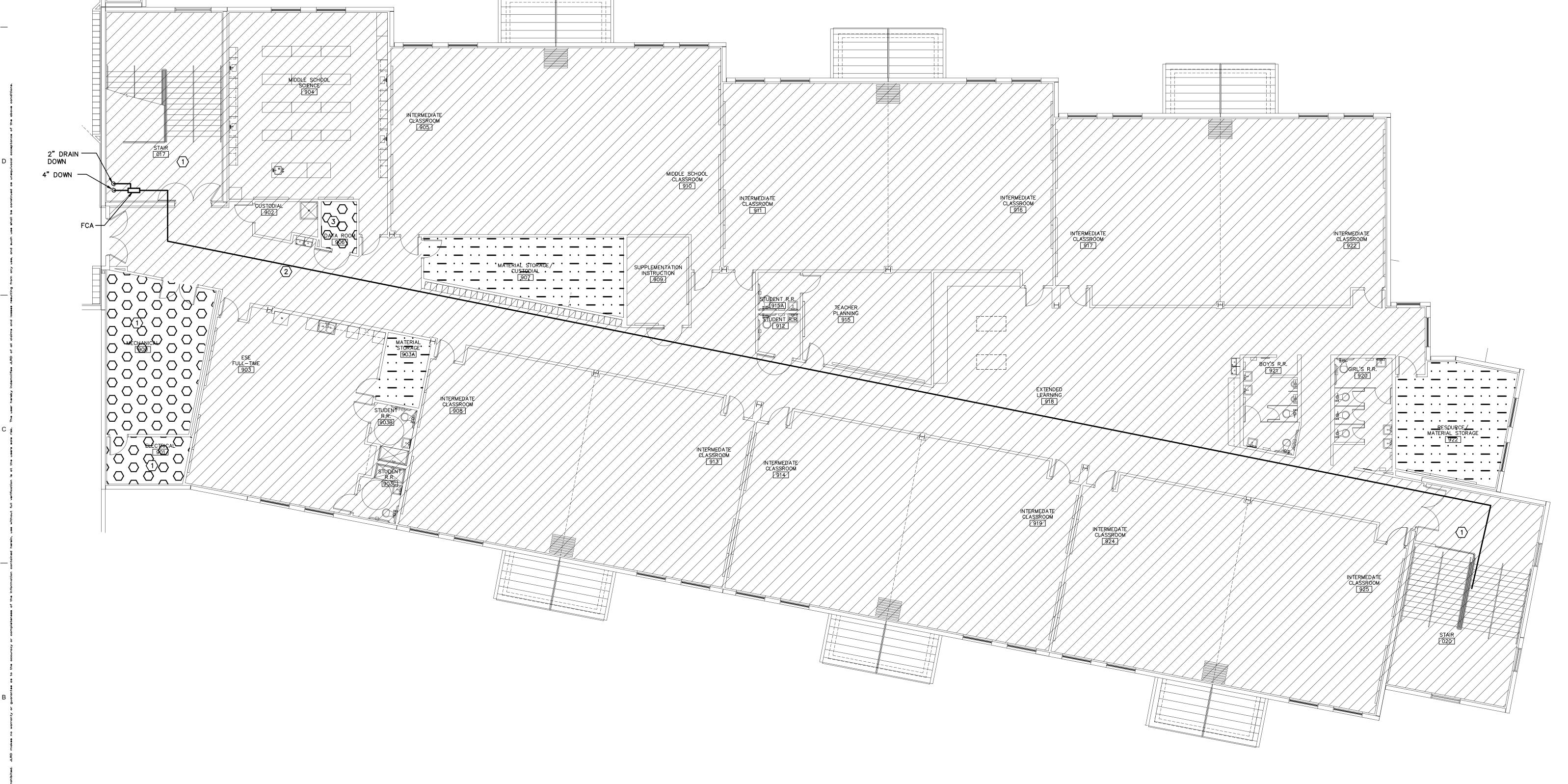
2 FIRE MAIN ROUTED ABOVE CEILING

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No. Date

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PROTECTION PLAN FP3.1



7 | 5 | 3

AREA 900 SPRINKLER LEGEND APPROX. QUANTITY ORIFICE AND K-FACTOR HEAD SPACING SIN # HAZARD CLASSIFICATION SYSTEM TYPE WET UPRIGHT 6 1/2", K = 5.6 LIGHT 225 SQUARE FEET PER HEAD VK300

WET CONCEALED PENDANT 100 1/2", K = 5.6 LIGHT 225 SQUARE FEET PER HEAD VK462

WET UPRIGHT BRASS 8 1/2", K = 5.6 ORDINARY GROUP 1 130 SQUARE FEET PER HEAD VK300

WET SIDEWALL HEAD 2 1/2", K = 5.6 ORDINARY GROUP 1 130 SQUARE FEET PER HEAD VK305

WET CONCEALED PENDANT 12 1/2", K = 5.6 ORDINARY GROUP 2 130 SQUARE FEET PER HEAD VK462

FIRE	PROTECTION LEGEND
PATTERN	DESIGNATION
	THIS AREA SHALL BE DESIGNED TO ORDINARY HAZARD GROUP II, 0.20 GPM/SQ.FT. DENSITY. 250 GPM HOSE.
	THIS AREA SHALL BE DESIGNED TO ORDINARY HAZARD GROUP I, 0.15 GPM/SQ.FT. DENSITY. 250 GPM HOSE.
	THIS AREA SHALL BE DESIGNED TO LIGHT HAZARD OCCUPANCY, 0.10 GPM/SQ.FT. DENSITY. 100 GPM HOSE.

3rd FLOOR AREA 900 FIRE PROTECTION PLAN

6 | 5 | 2

KEY PLAN AREA 900 — AREA 1000 —

BUSINESS LAB/ ASSØC. CLASSROØM 1002

3rd FLOOR AREA 1000 FIRE PROTECTION PLAN

6 | 5 | 2

SCALE: 1/8"=1'-0"

	AREA 1000 SPRINKLER LEGEND							
SYSTEM TYPE	HEAD TYPE	APPROX. QUANTITY	ORIFICE AND K-FACTOR	HAZARD CLASSIFICATION	HEAD SPACING	SIN #		
WET	UPRIGHT BRASS	2	1/2", K = 5.6	LIGHT	225 SQUARE FEET PER HEAD	VK300		
WET	CONCEALED PENDANT	34	1/2", K = 5.6	LIGHT	225 SQUARE FEET PER HEAD	VK462		
WET	SIDEWALL HEAD	2	1/2", K = 5.6	LIGHT	225 SQUARE FEET PER HEAD	VK305		
WET	SIDEWALL HEAD	2	1/2", K = 5.6	ORDINARY GROUP 1	225 SQUARE FEET PER HEAD	VK305		
WET	CONCEALED PENDANT	5	1/2", K = 5.6	ORDINARY GROUP 2	130 SQUARE FEET PER HEAD	VK462		

FIRE	PROTECTION LEGEND
PATTERN	DESIGNATION
	THIS AREA SHALL BE DESIGNED TO ORDINARY HAZARD GROUP II, 0.20 GPM/SQ.FT. DENSITY. 250 GPM HOSE.
	THIS AREA SHALL BE DESIGNED TO ORDINARY HAZARD GROUP I, 0.15 GPM/SQ.FT. DENSITY. 250 GPM HOSE.
	THIS AREA SHALL BE DESIGNED TO LIGHT HAZARD OCCUPANCY, 0.10 GPM/SQ.FT. DENSITY. 100 GPM HOSE.

PLAN NOTES

1 FIRE MAIN ROUTED ABOVE CEILING

igg(2igg) SIDEWALL REQUIRED IN THIS AREA. (3) UPRIGHT HEADS REQUIRED IN THIS AREA.

KEY PLAN AREA 900 — AREA 1000 -

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM BUILDING CODES.

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JOHNSON, LEVINSON RAGAN, DAVILA, INC.

SCHOOL

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Date: 10-21-22

Drawn: BAR

No. Date

BAR

Note

FP3.2

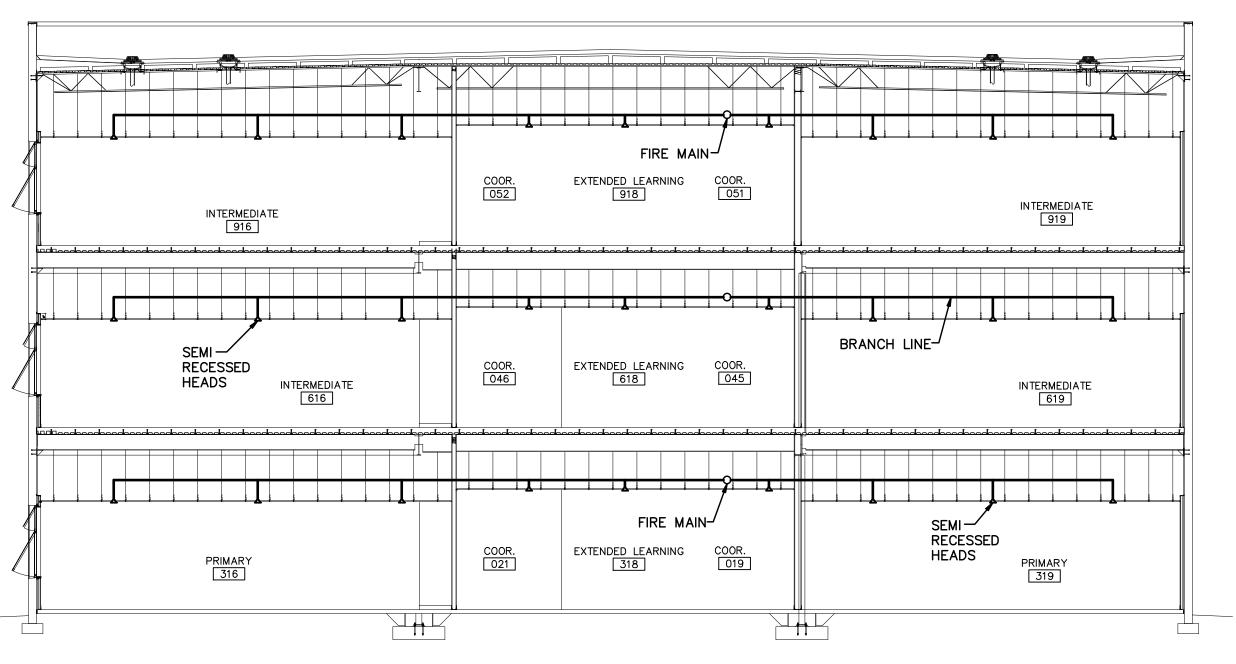
Comm. No: 22046.00 Date: 10-21-22 No. Date Note

THE MINIMUM BUILDING CODES.

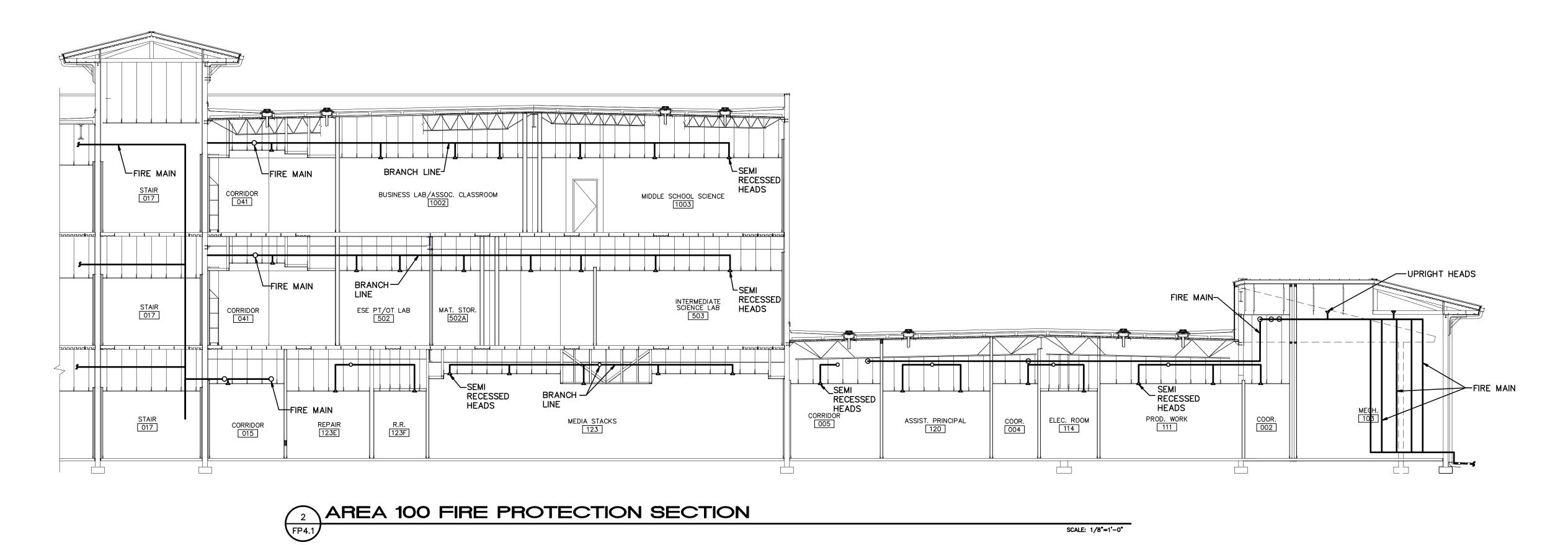
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FIRE PROTECTION SECTION

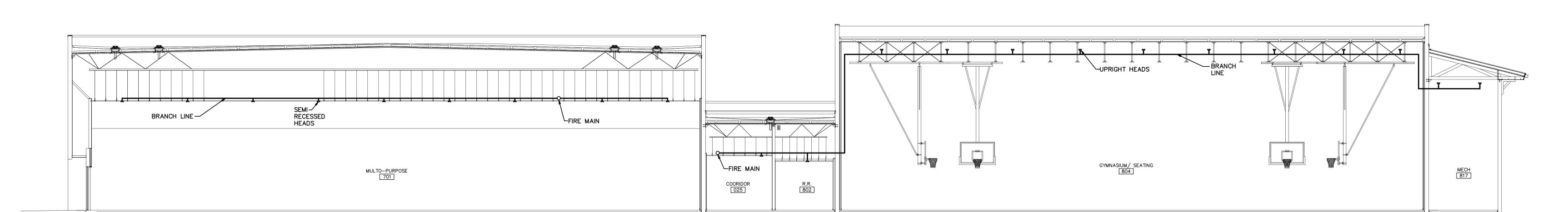
FP4.1







7 | 5 | 2



SCALE: 1/8"=1'-0"

5 | 3

7 | 5 | 2



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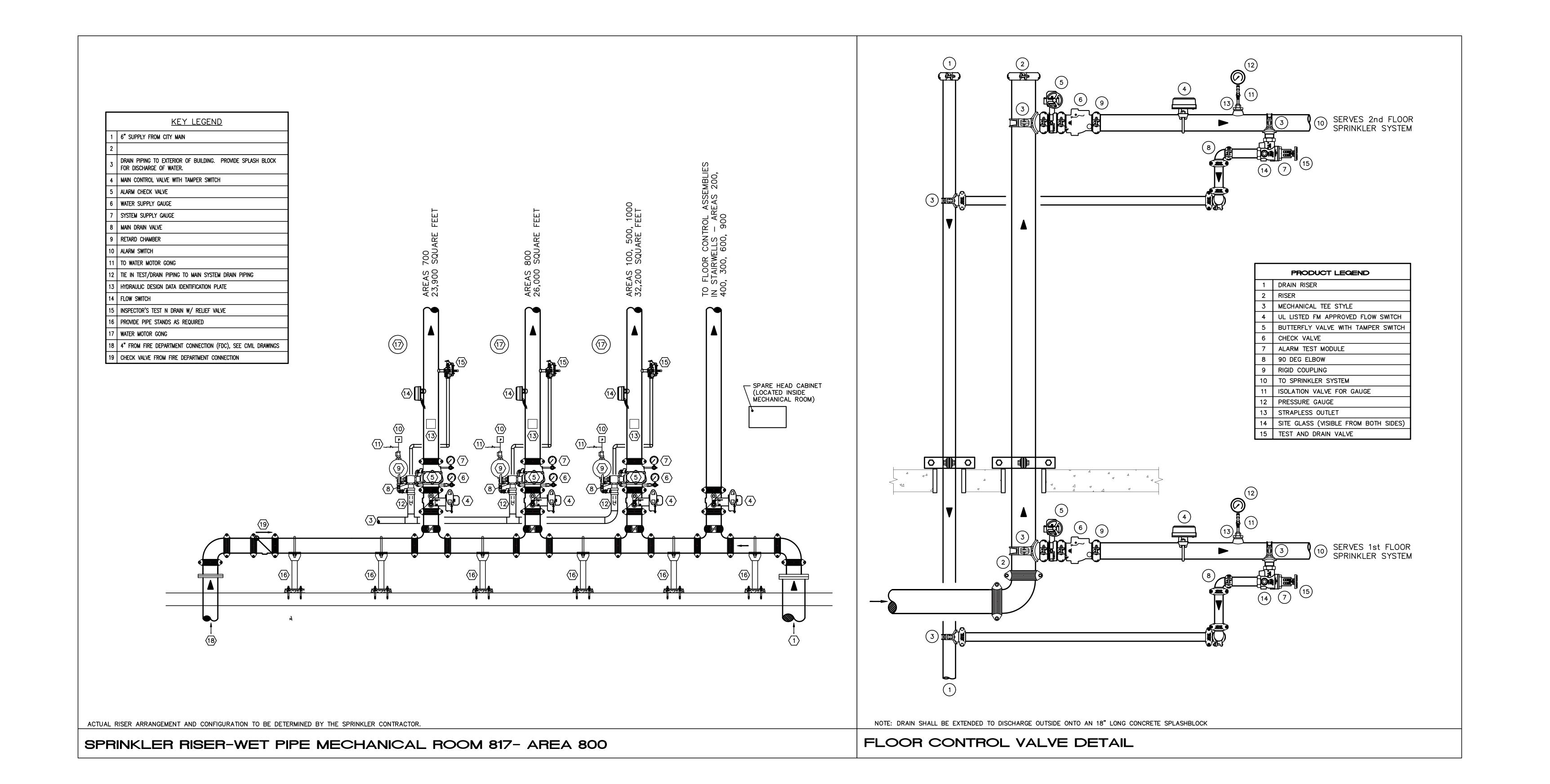
Comm. No: 22046.00 Date: 10-21-22 Drawn: BAR Revisions No. Date

THE MINIMUM BUILDING CODES.

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DETAILS

FP5.1



7 4 1 5

HARVARD • JOLLY
ARCHITECTURE

CHOOL "OO"
OHNS COUNTY SCHOOL DISTRICT - BI
WIN CREEKS DRIVE,

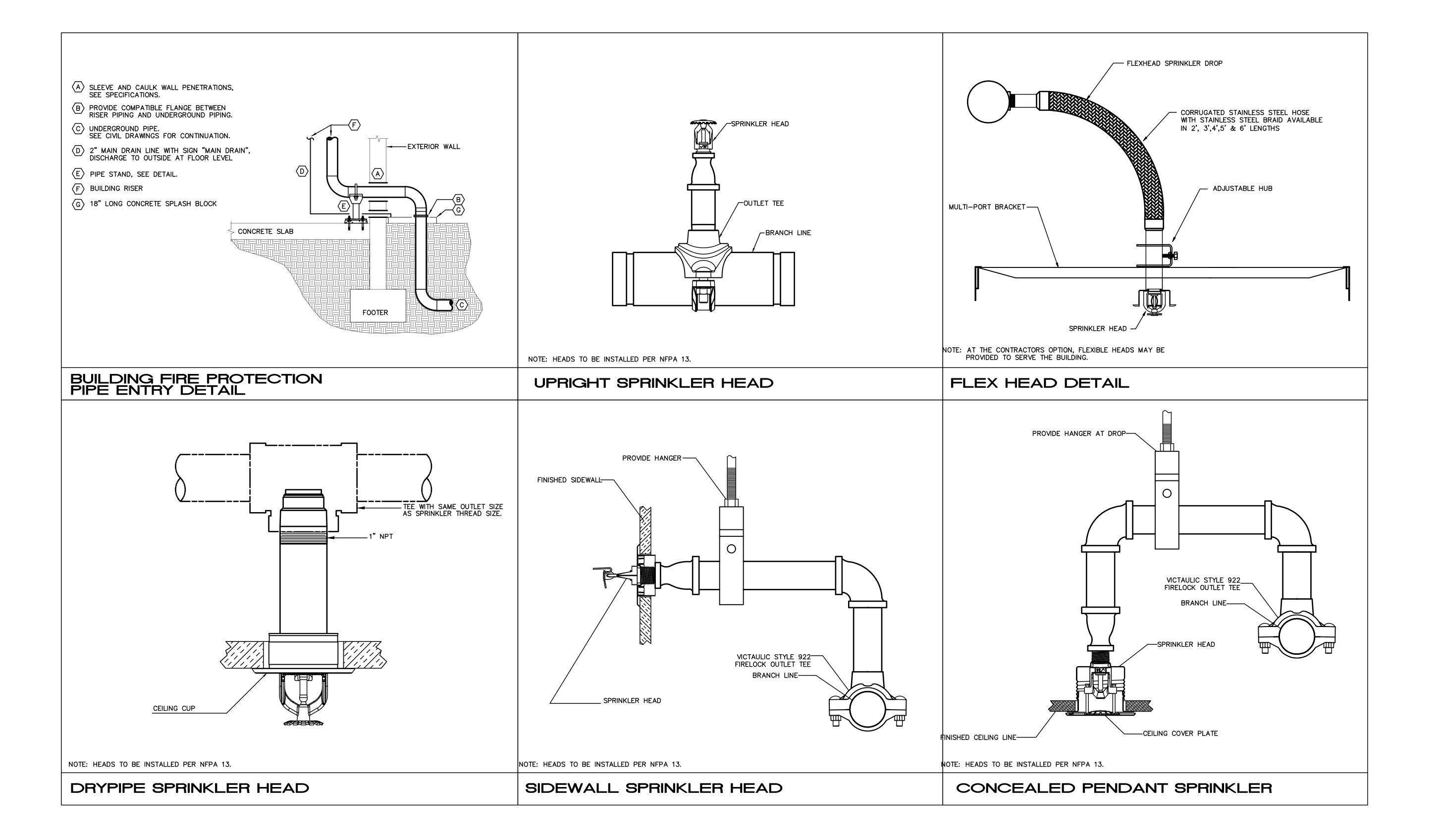
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No.	Date	Note

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FIRE PROTECTION DETAILS

FP5.2



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PLANS AND SPECIFICATIONS COMPLY WITH
THE MINIMUM BUILDING CODES.

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DETAILS

FP5.3