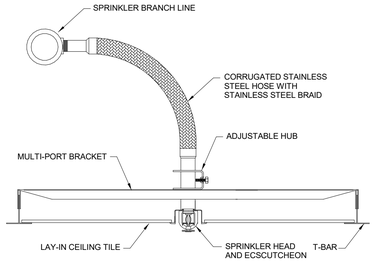


RECESSED SPRINKLER HEAD INSTALLATION DETAIL

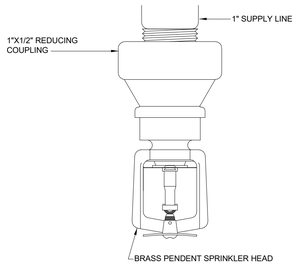
NTS



FLEXIBLE SPRINKLER DROP DETAIL

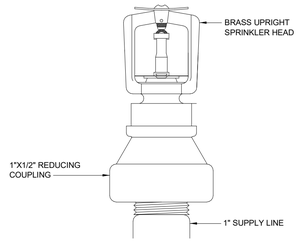
NTS

BASIS OF DESIGN: FLEXHEAD COMMERCIAL SPRINKLER HOSE FITTING



PENDANT SPRINKLER HEAD INSTALLATION DETAIL

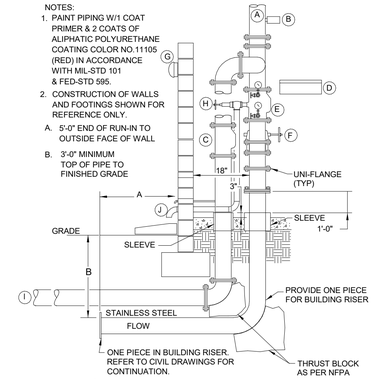
NTS



UPRIGHT SPRINKLER HEAD INSTALLATION DETAIL

NTS

NOTES:
1. PAINT PIPING W/1 COAT PRIMER & 2 COATS OF ALIPHATIC POLYURETHANE COATING COLOR NO.11105 (RED) IN ACCORDANCE WITH MIL-STD 101 & FED-STD 595.
2. CONSTRUCTION OF WALLS AND FOOTINGS SHOWN FOR REFERENCE ONLY.
   A. 5'-0" END OF RUN-IN TO OUTSIDE FACE OF WALL
   B. 3'-0" MINIMUM TOP OF PIPE TO FINISHED GRADE



INTERIOR WET PIPE FIRE RISER ENTRY DETAIL

NTS

SYMBOL KEY			
A	SUPPLY TO SPRINKLER	G	FIRE ALARM GONG MOUNTED ON EXTERIOR OF BUILDING
B	FLOW SWITCH	H	1 1/4" MAIN DRAIN - DRAIN TO 18" x 24" CONCRETE SPLASH BLK. SET ON FINISHED GRADE
C	SWING CHECK VALVE	I	4" TO FDC, BUILDINGS 1 AND 3 HAVE MULTIPLE ABOVE GROUND SIAMESE FDC CONNECTIONS.
D	SPARE SPRINKLER HEAD BOX, MOUNTED TO WALL	J	1/2" BALL DRIP DRAIN THRU WALL
E	SHOTGUN 90 RISER CHECK VALVE		
F	BUTTERFLY VALVE (WAFER TYPE WITH TAMPER SWITCH)		

FLORIDA 61G15-30 COMPLIANCE NOTE:

THE FIRE PROTECTION DESIGN FOR THIS PROJECT SHALL BE IN FULL ACCORDANCE WITH THE PROVISIONS OF THE FLORIDA ADMINISTRATIVE CODE, CHAPTER 61 G15-30. THE CONTRACTOR SHALL PROCURE THE SERVICES OF A QUALIFIED ENTITY WHO WILL PROVIDE SHOP DRAWINGS AND HYDRAULIC CALCULATIONS FOR THE PIPING AND SPRINKLER HEAD LAYOUT OF THE FIRE PROTECTION SYSTEM DESIGN BASED ON THE DESIGN INTENT OF THE CONTRACT DOCUMENTS. SHOP DRAWINGS SHALL BE PROVIDED TO THE EOR PRIOR TO SUBMISSION TO THE LOCAL AUTHORITY FOR APPROVAL.

FIRE PROTECTION NOTE:

PIPE SIZE SHOWN IS ESTIMATED AND NEEDS TO BE VERIFIED BY HYDRAULIC CALCULATIONS. FINAL PIPE SIZES SHALL BE PROVIDED BY THE FIRE PROTECTION CONTRACTORS ENGINEER OF RECORD.

FIRE PROTECTION NOTES

DESCRIPTION OF WORK : THE EXTENT OF WORK INCLUDES ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY TO COMPLETE THE SYSTEM AS SPECIFIED HEREIN IN ACCORDANCE WITH NFPA 13, 14, 20 AND 24, THE EIGHTH EDITION OF FFPC 2023 AND ALL APPLICABLE LOCAL CODES AND REGULATIONS. THE SYSTEM SHALL BE FULLY TESTED, CLEANED AND LEFT IN A COMPLETE AND OPERATIONAL STATUS. OBTAIN ALL PERMITS AND PAY ALL RELATED EXPENSES. ALL WORK IS A NEW SPRINKLER SYSTEM UNLESS INDICATED OTHERWISE.

PIPING AND SPRINKLER HEADS SHALL BE ROUTED, LOCATED AND/OR RELOCATED AS REQUIRED PER NFPA-13: HOWEVER, ACTUAL PLACEMENT SHALL BE VERIFIED BY CONFIRMING EXACT LOCATION OF STRUCTURES AND OTHER UTILITIES IN THE FIELD AND BY CAREFUL LAYOUT PRIOR TO EXECUTION OF THE WORK. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND SHOULD NOT BE SCALED.

PIPE, FITTINGS AND VALVES : STEEL PIPE ASTM A 135, PIPE SIZE 2" AND SMALLER SHALL BE SCHEDULE 40 BLACK STEEL WITH THREADED CAST IRON BLACK FITTINGS, PIPE SIZE 2-1/2" AND LARGER SHALL BE SCHEDULE 10 BLACK STEEL ROLL GROOVED WITH GROOVED COUPLINGS AND FITTINGS, MECHANICAL TEES AND WELDED OUTLETS. DRAIN PIPING SHALL BE SCHEDULE 40 WITH THREADED CAST IRON BLACK FITTINGS, NFPA 13 SPECIFIED WALL THICKNESS FOR 2-1/2" THRU 4" SIZE. CAST IRON THREADED FLANGES: ASME B16.4, CLASS 125, RAISED GROUND FACE, BOLT HOLES SPOT FACED. CAST IRON THREADED FITTINGS: ASME B16.4, CLASS 125, STANDARD PATTERN, WITH THREADS ACCORDING TO ASME B1.20.1, 175 PSI RATED. MALLEABLE IRON THREADED FITTINGS: ASME B16.3, CLASS 150, STANDARD PATTERN, WITH THREADS ACCORDING TO ASME B1.20.1. STEEL FITTINGS: ASTM A 234 / A 234M, SEAMLESS OR WELDED; ASME B16.9, BUTTWELDING, OR ASME B16.11, SOCKET WELDING TYPE FOR WELDED JOINTS. GROOVED END FITTINGS FOR STEEL PIPE: UL LISTED AND FM APPROVED ASTM A 536, GRADE 65-45-12 DUCTILE IRON OR ASTM A 47 GRADE 32510 MALLEABLE IRON, WITH GROOVES OR SHOULDERS DESIGNED TO ACCEPT GROOVED COUPLINGS. FLANGED JOINTS FOR DUCTILE IRON PIPE AND DUCTILE IRON OR CAST IRON FITTINGS: AWWA C115 DUCTILE IRON OR GRAY IRON PIPE FLANGES, RUBBER GASKETS, AND HIGH STRENGTH STEEL BOLTS AND NUTS. COUPLINGS FOR GROOVED END STEEL PIPE AND GROOVED END FERROUS FITTINGS: UL 213, AWWA C606, ASTM A 536 DUCTILE IRON OR ASTM A 47 MALLEABLE IRON HOUSING, WITH ENAMEL FINISH. INCLUDE SYNTHETIC RUBBER GASKET WITH CENTRAL CAVITY, PRESSURE RESPONSIVE DESIGN, ASTM A 183 CARBON STEEL BOLTS AND NUTS TO SECURE GROOVED PIPE AND FITTINGS. GENERAL: UL LISTED AND/OR FM APPROVED SERVICE VALVES WITH 175 PSIG NON-SHOCK MINIMUM WORKING PRESSURE RATING, GATE VALVES: UL 262, CAST BRONZE, THREADED ENDS, SOLID WEDGE, OUTSIDE SCREW AND YOKE, RISING STEM, PROVIDE INDICATING (BUTTERFLY OR BALL) VALVES TYPE, BRONZE BODY WITH THREADED ENDS, AND INTEGRAL INDICATING DEVICE, INDICATOR SHALL BE VISUAL AND ELECTRICAL 115 VOLTS A.C., PRE-WIRED 2 CIRCUIT, SUPERVISORY SWITCH.

SPRINKLER HEADS: PROVIDE AUTOMATIC HEAT-RESPONSIVE GLASS BULB SPRINKLER HEADS, INSTALL SPRINKLERS IN A UNIFORM, CONSISTENT MANNER IN ORDER TO LINE UP EACH AREA, IN THE "CENTER" OF THE CEILING TILE.

SPRINKLER CABINETS : FINISHED STEEL CABINET AND HINGED COVER, WITH 6 SPARE SPRINKLERS PLUS SPRINKLER WRENCH, SUITABLE FOR WALL MOUNTING.

ALARM DEVICES : VERIFY IF REQUIRED. PROVIDE NEW DEVICES IF REQUIRED AS BASED ON PRE-BID FIELD INVESTIGATION. COORDINATE WITH ELECTRICAL (OR FIRE ALARM) CONTRACTOR TO PROVIDE CONNECTIONS TO FIRE ALARM SYSTEM IF REQUIRED.

PIPING INSTALLATIONS: DEVIATIONS FROM APPROVED "WORKING PLANS" FOR SPRINKLER PIPING REQUIRE WRITTEN APPROVAL FROM AUTHORITY HAVING JURISDICTION. FILE WRITTEN APPROVAL WITH THE ENGINEER PRIOR TO DEVIATING FROM APPROVED "WORKING PLANS". INSTALL UNION OR FLANGE ADJACENT TO EACH VALVE. INSTALL HANGER AND SUPPORT SPACING AND LOCATIONS FOR STEEL PIPING JOINED WITH GROOVED MECHANICAL COUPLINGS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS FOR RIGID SYSTEMS PER NFPA 13.

FIELD QUALITY CONTROL: FLUSH, TEST AND INSPECT SPRINKLER PIPING SYSTEMS ACCORDING TO NFPA 13 CHAPTER "SYSTEM ACCEPTANCE". REPORT TEST RESULTS PROMPTLY AND IN WRITING TO ARCHITECT AND TO THE AUTHORITY HAVING JURISDICTION.

CLEANING: CLEAN DIRT AND DEBRIS FROM SPRINKLERS. REPLACE SPRINKLERS HAVING PAINT OTHER THAN FACTORY FINISH WITH NEW SPRINKLERS. CLEANING AND REUSE OF PAINTED SPRINKLERS IS PROHIBITED.

SPRINKLER SYSTEM BASIS OF DESIGN:

CLASSIFICATION	LIGHT HAZARD
TYPE	WET PIPE SPRINKLER SYSTEM
SPRINKLER HEAD MANUFACTURER/MODEL	TYCO, SERIES TY
TEMPERATURE RATING	155°F UNLESS OTHERWISE NOTED
STATIC PRESSURE	SEE PERFORMANCE CRITERIA
RESIDUAL PRESSURE/FLOW	SEE PERFORMANCE CRITERIA

NOTES:

1. SYSTEM DESIGN SHALL BE HYDRAULICALLY CALCULATED PER NFPA-13.
2. PROVIDE 200°F TEMPERATURE SPRINKLER HEADS IN THE MECHANICAL, ELECTRICAL EQUIPMENT ROOMS.
3. COORDINATE CEILING MOUNTED SPRINKLER HEADS WITH OTHER DEVICES (LIGHTS, DIFFUSERS, ACCESS PANELS, ETC.). SEE ARCHITECTURAL CEILING PLANS FOR LOCATIONS OF ALL DEVICES.
4. ALL MATERIALS AND EQUIPMENT SHALL BE UL AND/OR FACTORY MUTUAL APPROVED WHERE APPLICABLE.

FLORIDA 61G15-32.004 FIRE PROTECTION PERFORMANCE CRITERIA

DATE:	3-02-2026
PROJECT LOCATION:	OKEECHOBEE, FL
PROJECT NAME:	LAKEFRONT BOY'S SCHOOL
AUTHORITY HAVING JURISDICTION:	OKEECHOBEE FIRE DEPARTMENT

1 SYSTEM INSTALLED TO BE A WET PIPE FIRE SPRINKLER SYSTEM FOR INDOOR AREAS.

2A POINT OF SERVICE - SEE FIRE PROTECTION SITE PLAN THIS SHEET.

2B ALL DESIGNS SHALL CONFORM TO NFPA-13

2C INDICATED ON "FP" SHEETS

2D DESIGN APPROACH:

SYSTEM TYPE	WET PIPE
CONSTRUCTION TYPE	NON-COMBUSTIBLE / OBSTRUCTED
HAZARD TYPE	LIGHT HAZARD
DESIGN DENSITY	0.10 GPM/SQFT
COVERAGE AREA	1,500 SQ FT
DEVICE TEMPERATURE RATING (F)	ORDINARY DEGREE
PROTECTION AREA PER SPRINKLER (FT^2)	130 SQ FT
SPACING FOR SPRINKLER HEADS (FT)	PER NFPA 13

2E CHARCTERISTICS FOR WATER SUPPLY ARE INDICATED ON DRAWING FP1

2F FLOW TEST RESULTS:

DATE OF TEST:	--
TIME OF TEST:	-- AM
TEST PERFORMED BY:	--
TEST ELEVATION:	UNKNOWN
STATIC PRESSURE @ 0 FLOW	-- PSI
FLOW RATE AT RESIDUAL PRESSURE:	---- @ -- PSI
HYDRANT BUTT COEFFECIENT:	.90
LOCATION OF TEST IN RELATION TO POINT OF SERVICE:	-- --

2G PROVIDE WATERFLOW ALARM DEVICE & TAMPERING DEVICE CONNECTED TO THE FIRE ALARM SYSTEM.

2H LATEST REPORT OF WATER QUALITY FROM CITY OF OKEECHOBEE, MIC TREATMENT IS NOT REQUIRED AT THIS TIME.

2I BACKFLOW DEVICES AS SPECIFIED.

2J SEE THIS FP SHEET FOR SPECIFICATIONS ON EQUIPMENT.

2K FIRE PUMP IS REQUIRED FOR THIS PROJECT.

2L FIREWATER STORAGE TANK IS NOT REQUIRED FOR THIS PROJECT.

2M BUILDING OCCUPANCY IS NOT STORAGE, THEREFORE OWNER'S CERTIFICATE IS NOT REQUIRED

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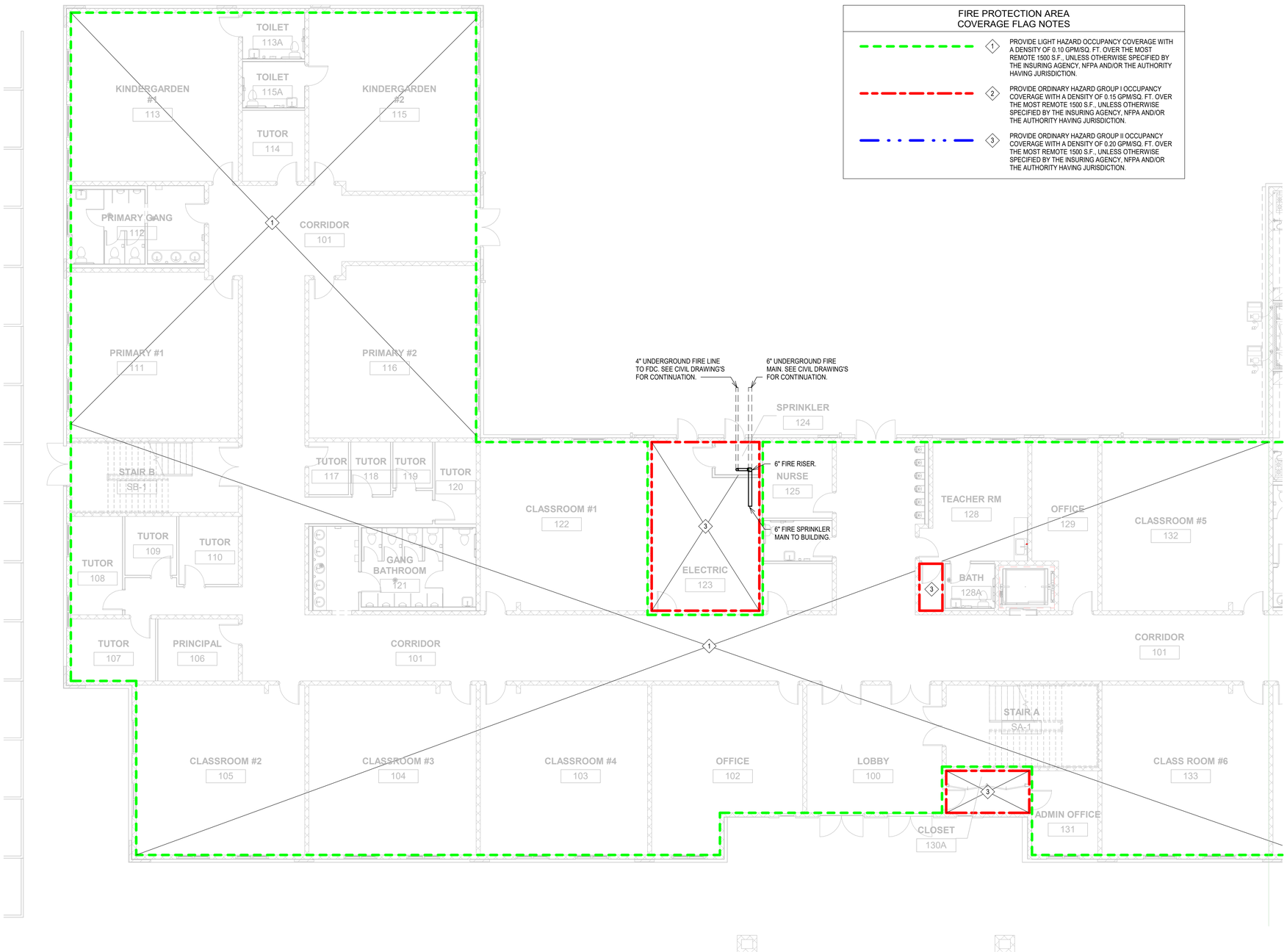
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FIRE PROTECTION SCHEDULES, DETAILS, AND NOTES

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KEITH M. PRZECLAWSKI, PE
PE #82393

DATE: 03/05/2025
SCALE: 12" = 1'-0"
PROJ. NO. : 250265
DESIGNED BY: BJG
DRAWN BY: BJG
CHECKED BY: KMP
DRAWING NO.: FP001



FIRE PROTECTION AREA COVERAGE FLAG NOTES

1. PROVIDE LIGHT HAZARD OCCUPANCY COVERAGE WITH A DENSITY OF 0.10 GPM/SQ. FT. OVER THE MOST REMOTE 1500 S.F., UNLESS OTHERWISE SPECIFIED BY THE INSURING AGENCY, NFPA AND/OR THE AUTHORITY HAVING JURISDICTION.
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1 FIRE PROTECTION 1ST FLOOR PLAN-SIDE A
SCALE: 1/8" = 1'-0"

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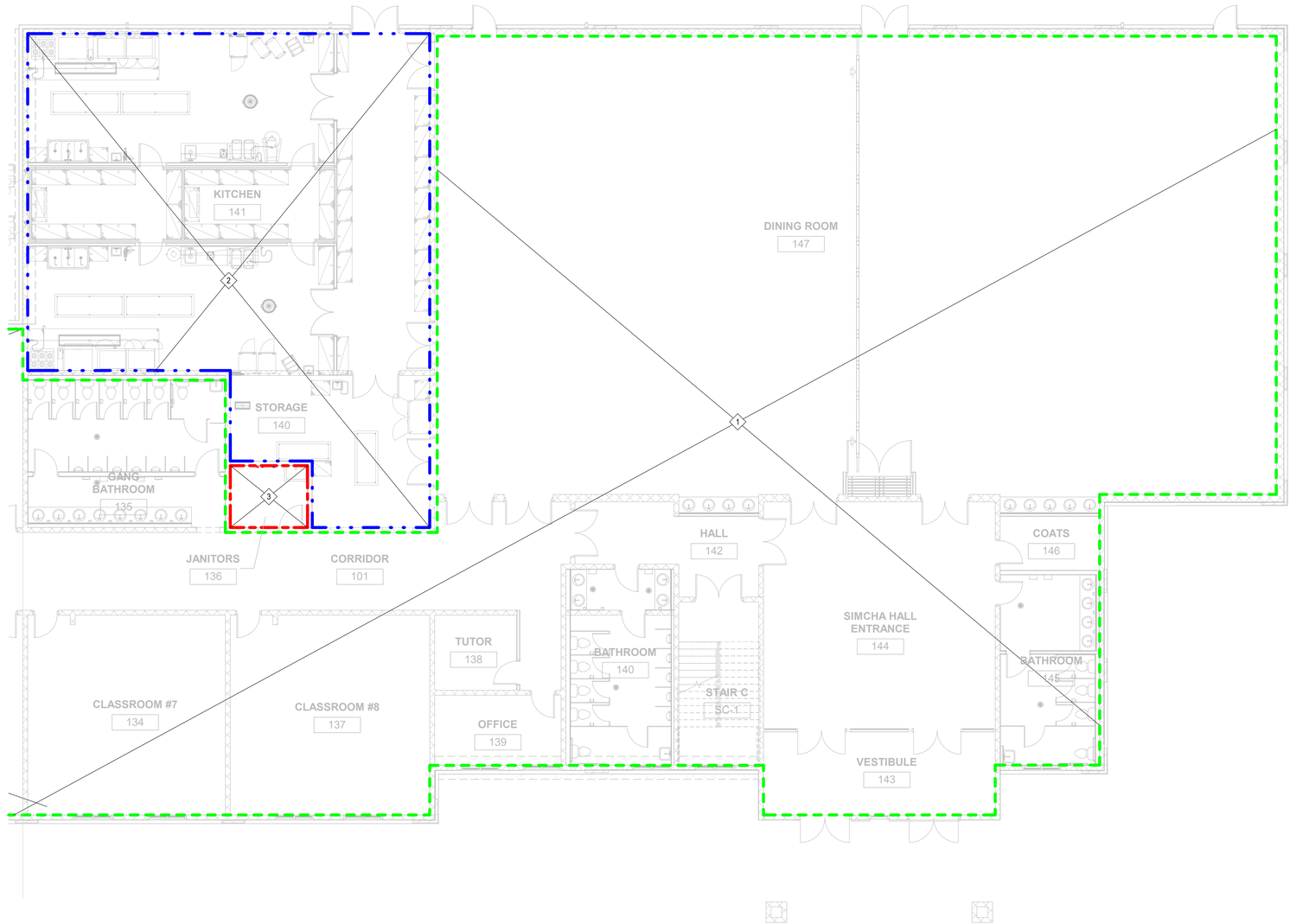
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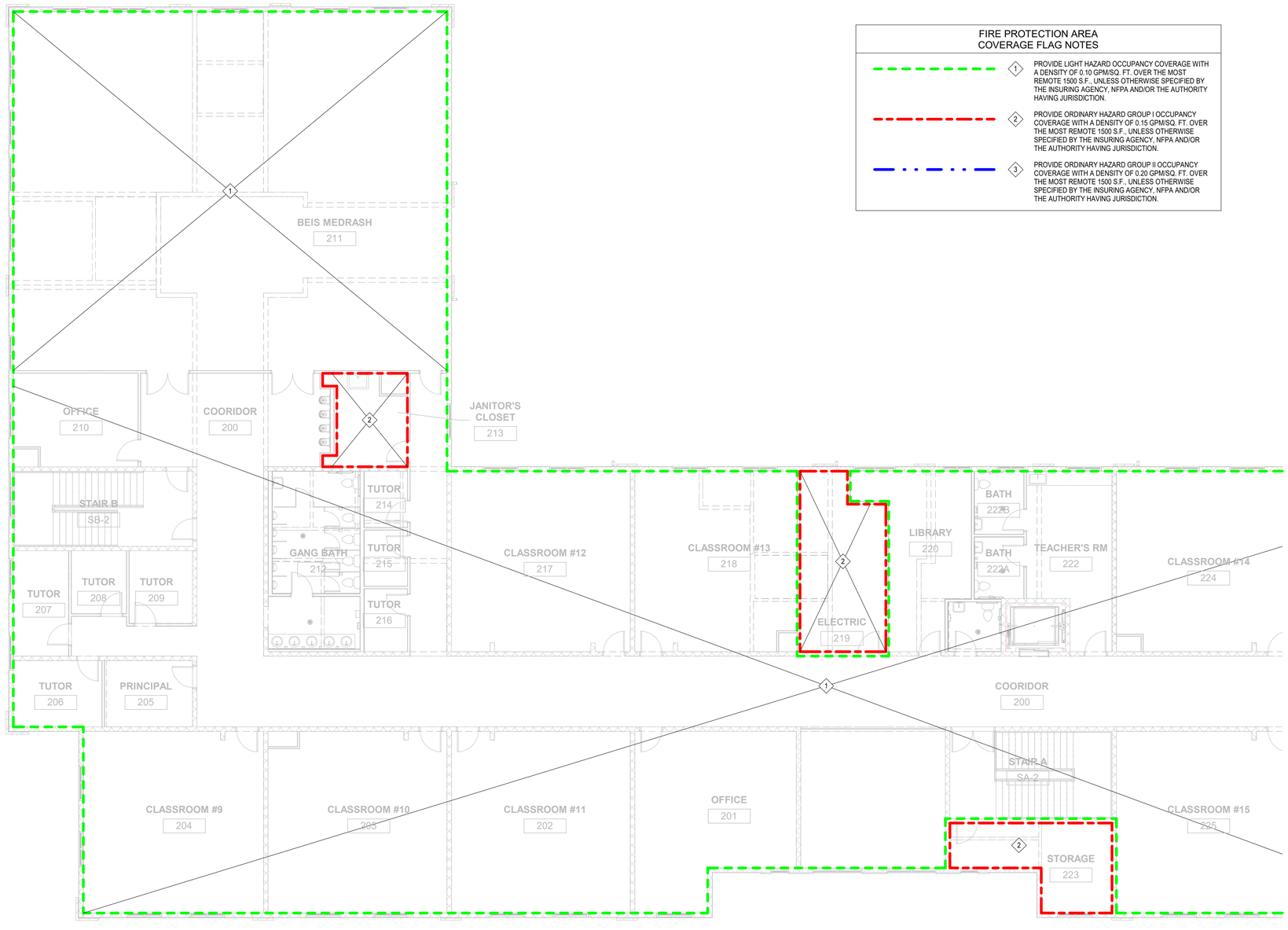
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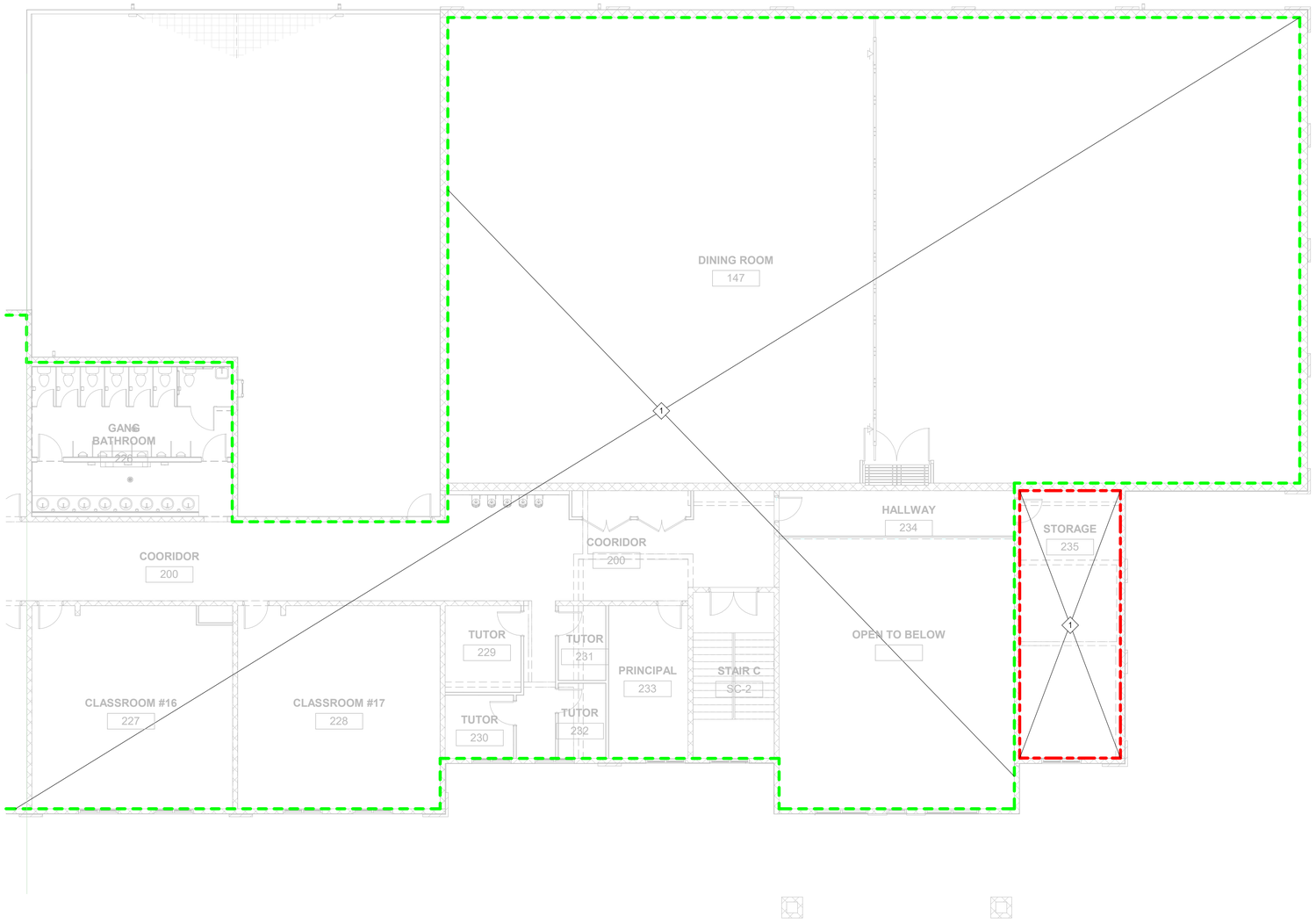
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