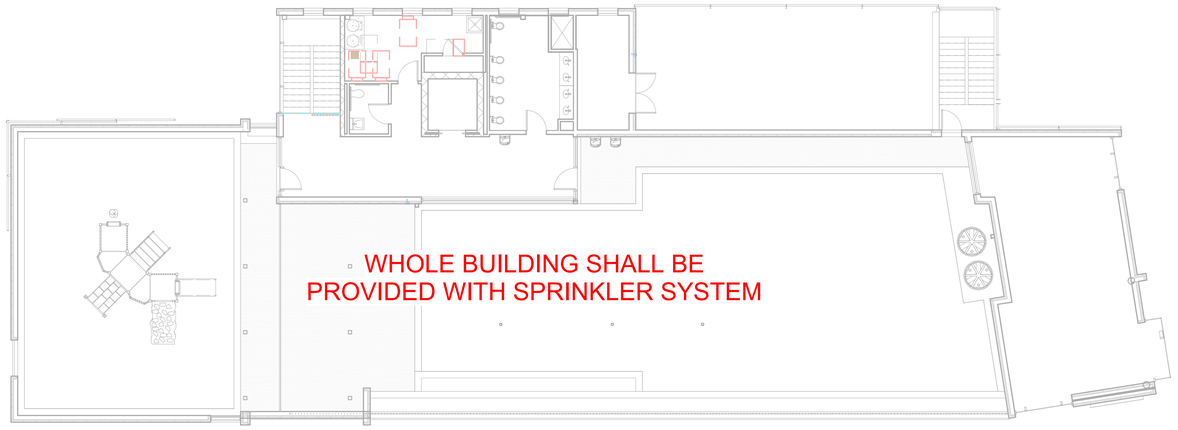
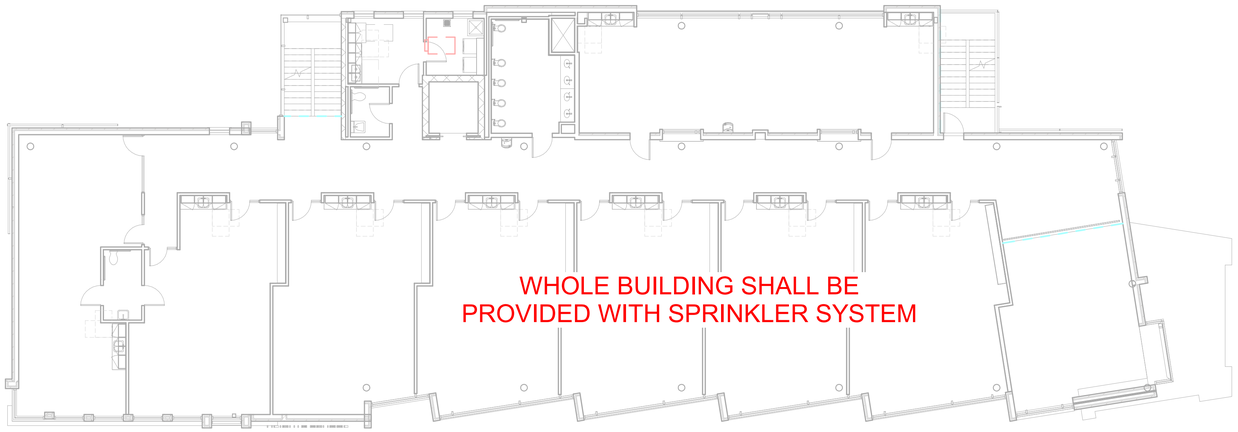
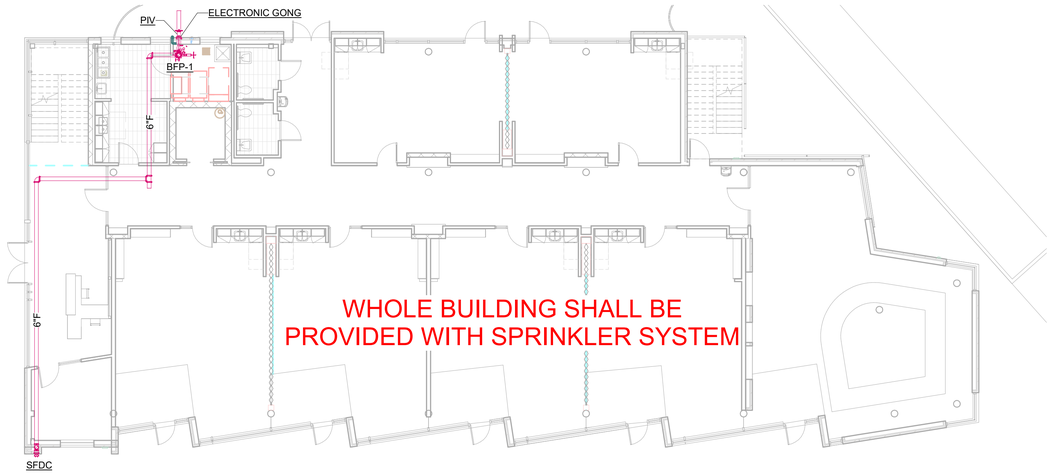


FLOOR PLAN - LEVEL 3 - FIRE PROTECTION 3
3/32" = 1'-0"



FLOOR PLAN - LEVEL 2 - FIRE PROTECTION 2
3/32" = 1'-0"



FLOOR PLAN - LEVEL 1 - FIRE PROTECTION 1
3/32" = 1'-0"

PLUMBING FIXTURE SCHEDULE

[1. FIXTURES LISTED BELOW ARE SUBJECT TO OWNER AND/OR ARCH. APPROVAL] - [2. REFER TO ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.]

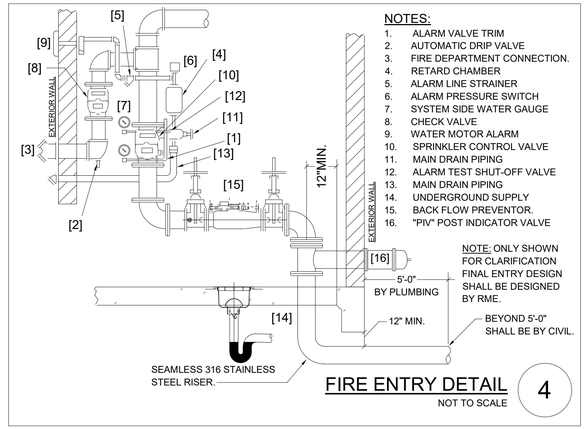
TAG	FIXTURE NAME	PROVIDE THE FOLLOWING SIZE BRANCH CONNECTION TO THE DISTRIBUTION MAIN - UNLESS OTHER WISE SPECIFIED					MAKE, MODEL AND DESCRIPTION
		TRAP	WASTE	VENT	CW	HW	
BFP-1	DOUBLE CHECK DETECTOR ASSEMBLIES	-	-	-	6"	-	774DCDA WATTS DOUBLE CHECK DETECTOR ASSEMBLY SHALL CONSIST OF TWO POSITIVE SEATING CHECK VALVES LOCATED BETWEEN TWO RESILIENT SEATED SHUTOFFS WITH A HYDRAULICALLY BALANCED BYPASS LINE AND FOUR TEST COCKS. THE MAIN VALVE BODY SHALL BE MANUFACTURED FROM 300 SERIES STAINLESS STEEL TO PROVIDE CORROSION RESISTANCE. THE CHECK VALVES SHALL BE OF THERMOPLASTIC CONSTRUCTION WITH STAINLESS STEEL HINGE PINS, CAM ARM AND CAM BEARING. THE CHECK VALVES SHALL UTILIZE A SINGLE TORSION SPRING DESIGN TO MINIMIZE PRESSURE DROP THROUGH THE ASSEMBLY. THE CHECK VALVES SHALL BE MODULAR AND SHALL SEAL TO THE MAIN VALVE BODY BY THE USE OF AN O-RING. THERE SHALL BE NO BRASS OR BRONZE PARTS USED WITHIN THE CHECK VALVE ASSEMBLY. THE CHECK VALVE SEATS SHALL BE OF MOLDED THERMOPLASTIC CONSTRUCTION. THE USE OF SEAT SCREWS AS A RETENTION METHOD IS PROHIBITED. ALL INTERNAL PARTS SHALL BE ACCESSIBLE THROUGH A SINGLE COVER ON THE VALVE ASSEMBLY. THE VALVE COVER SHALL BE HELD IN PLACE THROUGH THE USE OF A SINGLE GROOVED STYLE TWO-BOLT COUPLING. THE BYPASS LINE SHALL BE HYDRAULICALLY SIZED TO ACCURATELY MEASURE LOW FLOW. THE BYPASS LINE SHALL CONSIST OF A METER, A SMALL DIAMETER DOUBLE CHECK ASSEMBLY WITH TEST COCKS AND ISOLATION VALVES. THE BYPASS LINE DOUBLE CHECK VALVE SHALL HAVE TWO INDEPENDENTLY OPERATING MODULAR POPPET CHECK VALVES, AND TOP MOUNTED TEST COCKS.

FIRE PROTECTION NOTES

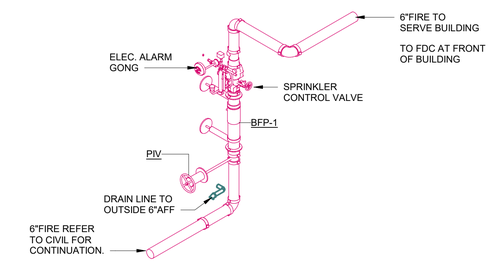
1. HYDRAULIC CALCULATIONS AND FINAL FIRE PUMP SELECTION ARE THE RESPONSIBILITY OF THE TEXAS LICENSED RME (REGISTER MANAGING EMPLOYEE). THE ENTIRE BUILDING, WHETHER HATCHED OR NOT WILL BE THEIR RESPONSIBILITY. THE NOTED HATCHED AREAS ARE TO BE USED AS STARTING POINT FOR THE BID AND ARE UNDERSTOOD TO REQUIRE A SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH NFPA 13 OR NFPA 13R, AND THE LOCAL CITY/COUNTY REQUIREMENTS. PRIOR TO ANY INSTALLATION OR ROUGH IN, THE PLUMBING CONTRACTOR WILL COORDINATE WITH THE GENERAL CONTRACTOR AND ALL OTHER TRADES INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING. CLOSE COORDINATION WITH THE ARCHITECT MUST BE MADE IN LOCATIONS WITH EXPOSED CEILINGS. THE CONTRACTOR WILL REVIEW THE BOOK SPECIFICATIONS ALL OTHER REQUIREMENTS MUST BE REVIEWED WITH ALL SECTIONS OF THE SPECIFICATIONS PRIOR TO BID.
2. THE CONTRACTOR IS RESPONSIBLE FOR FULL AND COMPLETE DESIGN AND SYSTEM IN ACCORDANCE WITH ALL LOCAL AND STATE REGULATIONS AND CODES. THE ENGINEERS CONSTRUCTION DRAWINGS AND DETAILS ARE ONLY TO BE USED AS A GUIDELINE AND FOR THE OVERVIEW OF THE SCOPE OF WORK.
3. AT A MINIMUM THE NOTED AREAS ARE TO RECEIVE A WET PIPING SYSTEM (OR A DRY PIPE SYSTEM IF INDICATED) WHICH IS IN COMPLIANCE WITH THE HAZARD REQUIREMENTS OF THE CODE.
4. THE ALL VISIBLE FIRE PIPING SHALL BE PAINTED RED.
5. DEVELOP AND SUBMIT FOR REVIEW AND APPROVAL IN THE FORM OF SHOP DRAWINGS AND CUTSHEETS ALL CALCULATIONS REQUIRED TO BE REVIEWED BY THE LOCAL AHJ, INSURANCE PROVIDER AND BOOK SPECIFICATIONS.

MATERIAL LEGEND

1. **FIRE PROTECTION SYSTEM:**
   SCHEDULE 40 BLACK STEEL PIPE WITH CLASS 150 BLACK MALLEABLE IRON SCREWED FITTINGS. PIPING 2 1/2" AND LARGER SHALL BE JOINED WITH VICTAULIC FITTINGS UTILIZING ROLL GROOVES. VICTAULIC REDUCING COUPLINGS "FIT" OR "PRESS FIT" SYSTEMS AND STRAP TYPE MECHANICAL TEES SHALL NOT BE USED.



FIRE ENTRY DETAIL 4
NOT TO SCALE



3D-RISER - FIRE PROTECTION 4

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ISSUES AND REVISIONS

NO	DATE	DESCRIPTION
A	07-22-2019	ISSUED FOR PERMIT
B	08-16-2019	ISSUED FOR BID

STATE OF TEXAS
DAVIA ANN GERNAND
109903
LICENSED
PROFESSIONAL ENGINEER
16 AUG 2019

GH SCHOOL
4724 N MAIN STREET

SHEET TITLE
FIRE PROTECTION

SHEET NUMBER
FP101

PROJECT # 19.02

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