

GENERAL NOTES

- IT IS NOTED THAT SOME AREAS WILL BE REQUIRED TO BE PROTECTED AS ORDINARY HAZARD (MECHANICAL ROOMS, ETC.) THESE AREAS HAVE BEEN IDENTIFIED BY A DIFFERENT HATCHING PATTERN THEN THE LIGHT HAZARD AREAS ON THE PLANS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN CURRENT WATER FLOW DATA AND DESIGN SPRINKLER SYSTEMS ACCORDINGLY. SHALL OBTAIN CURRENT WATER FLOW DATA AND DESIGN MODIFICATIONS ACCORDINGLY.
- MAINTAIN THE INTEGRITY OF ALL FIRE RATED ASSEMBLIES AND ACOUSTICAL ASSEMBLIES.
- CONTRACTOR SHALL COORDINATE SYSTEM DESIGN WITH ALL OTHER TRADES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING INSPECTOR'S TEST LOCATIONS IN ACCORDANCE WITH NFPA 13 AND THE AUTHORITY HAVING JURISDICTION.
- ALL PIPING SHALL OBSERVE PROPER PITCH. PROVIDE DRAINS FOR LOW POINTS.
- THE SPRINKLER SYSTEM SHALL BE ARRANGED FOR FLUSHING. READILY REMOVABLE FITTINGS SHALL BE PROVIDED AT THE END OF ALL CROSSMAINS.
- PIPE HANGERS SHALL BE INSTALLED AS REQUIRED BY NFPA 13 FOR SUPPORTING SPRINKLER PIPING. NO OTHER PIPING OR DEVICES SHALL BE ATTACHED TO THE SPRINKLER HANGER SYSTEM UNLESS THE HANGER HAS BEEN DESIGNED TO CARRY THE ADDITIONAL LOAD.
- THIS CONTRACT DOES NOT INCLUDE ANY MATERIAL OR DEVICE TO IMPROVE THE STRUCTURAL STRENGTH OF THE BUILDING TO ENABLE IT TO CARRY THE LOAD OF THE FIRE PROTECTION SYSTEM.
- ALL UNDERGROUND PIPING SHALL BE DUCTILE IRON WITH FITTINGS AND JOINTS PER NFPA 13. TEFLON TAPE SHALL BE ADDED TO ALL MALE THREADS OF PIPE AS A JOINING COMPOUND.
- ALL ABOVE GROUND WET SPRINKLER PIPE THAT IS THREADED SHALL BE SCHEDULE 40 BLACK WITH BLACK CAST/MALEABLE IRON FITTINGS WITH JOINTS PER NFPA 13. TEFLON TAPE SHALL BE ADDED TO ALL MALE THREADS OF PIPE AS A JOINING COMPOUND. CPVC PIPING IS NOT ACCEPTABLE.
- ALL ABOVE GROUND WET SYSTEM SPRINKLER PIPE THAT IS WELDED OR ROLL-GROOVED SHALL BE SCHEDULE 10 BLACK WITH BLACK CAST/MALEBLE IRON FITTINGS WITH JOINTS PER NFPA 13. CPVC PIPING IS NOT ACCEPTABLE.
- TRENCHING SHALL BE PERFORMED BY HAND WHERE THERE IS THE POSSIBILITY OF ENCOUNTERING OBSTACLES OR EXISTING UTILITY LINES. WHERE CLEAR AND UNOBSTRUCTED AREAS ARE TO BE EXCAVATED, APPROPRIATE MACHINE EXCAVATION METHODS MAY BE EMPLOYED. PROVIDE PROPER BACKFILL AS REQUIRED PER SPECIFICATIONS.
- INSTALL SPRINKLER HEADS CENTER OF TILE IN ACOUSTICAL CEILINGS. HEAD LOCATIONS SHALL BE GUIDED BY ARCHITECTURAL ELEMENTS FOR OTHER CEILING TYPES.
- DO NOT LOCATE INSPECTORS TEST LOCATIONS OR DRAINS IN FINISHED OR OTHER FINISHED SPACES. INDICATE ALL LOCATIONS ON SHOP DRAWINGS.
- REFER TO MECHANICAL DRAWINGS FOR FIRE WALL PIPE PENETRATION DETAILS.
- SITE PIPING BEYOND 5'-0" OUTSIDE OF BUILDING SHOWN FOR REFERENCE ONLY. REFER TO CIVIL PLANS FOR BACK FLOW PREVENTER WITH FIRE DEPARTMENT CONNECTION.
- SITE PIPING SHOWN FOR REFERENCE ONLY. REFER TO CIVIL SITE UTILITY PLANS FOR SITE PIPING, BACK FLOW PREVENTER, FIRE DEPARTMENT CONNECTION, AND HYDRANT LOCATIONS.
- FLEXIBLE CONNECTIONS TO SPRINKLER HEADS ARE NOT ALLOWED.
- EXPOSED FIRE PIPING SHALL BE PAINTED RED.
- AFTER FLUSHING SYSTEM. TEST FIRE SPRINKLER PIPING HYDROSTATICALLY. FOR PERIOD OF 24 HOURS, AT NOT LESS THAN 200 PSI OR AT 50 PSI IN EXCESS OF MAXIMUM STATIC PRESSURE WHEN MAXIMUM STATIC PRESSURE IS IN EXCESS OF 150 PSI. CHECK SYSTEM FOR LEAKAGE OF JOINTS. MEASURE HYDROSTATIC PRESSURE AT LOW POINT OF EACH SYSTEM OR ZONE BEING TESTED.
- SUBMIT MANUFACTURER'S TECHNICAL PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR: RETAIN OR DELETE AS REQUIRED, PIPE AND FITTINGS, BASIC PIPE SUPPORTS AND HANGERS, BASIC VALVES, SPECIAL VALVES, PRESSURE GAUGES, AUTOMATIC SPRINKLERS, & CABINETS. PREPARE WORKING (SHOP) DRAWINGS OF FIRE PROTECTION SYSTEMS INDICATING PIPE SIZES, PIPE LOCATIONS, PIPE ELEVATIONS, FITTINGS, SHUTOFFS, HANGERS, EQUIPMENT, AND COORDINATION WITH OTHER BUILDING SYSTEMS. SUBMITTAL SHALL SHOW ALL REQUIREMENTS PER NFPA-13.
- PROVIDE SIGNED AND SEALED LAYOUT DRAWINGS AND HYDRAULIC CALCULATIONS FOR DOE SUBMITTAL AFTER APPROVAL BY ENGINEER AND LOCAL AHJ.

WATER BASED SPRINKLER SYSTEM REQUIREMENTS

- THE POINT OF SERVICE AND BACKFLOW PREVENTER ARE SHOWN FOR REFERENCE ONLY. REFER TO THE CIVIL SITE UTILITY PLAN FOR FURTHER INFORMATION.
- THE BUILDING SHALL BE FULLY SPRINKLED IN ACCORDANCE WITH THE MOST RECENT EDITION OF NFPA 13 AND LOCAL CODES.
- REFER TO PLAN SHEETS AND HAZARD CLASSIFICATION LEGEND FOR HAZARD CLASSIFICATION OF EACH ROOM OR AREA.
- THE NEW SYSTEMS SHALL SHALL BE HYDRAULICALLY CALCULATED IN ACCORDANCE WITH NFPA 13.
LIGHT HAZARD: 0.10 GPM/SF, MAX 225 SF PER HEAD, 15 FT MAX NOMINAL SPACING; ORDINARY TEMPERATURE RATING HEADS.
ORDINARY HAZARD GROUP 1: 0.15 GPM/SF, MAX 130 SF PER HEAD, 15 FT MAX NOMINAL SPACING; INTERMEDIATE TEMPERATURE RATING HEADS.
ORDINARY HAZARD GROUP 2: 0.20 GPM/SF, MAX 130 SF PER HEAD, 15 FT MAX NOMINAL SPACING; INTERMEDIATE TEMPERATURE RATING HEADS.

FOR ADDITIONAL REQUIREMENTS, REFER TO DESIGN CRITERIA NOTES ON THIS SHEET.
- THE POINT OF SERVICE CONNECTION IS A CIRCULATING MAIN.
- REFER TO DESIGN CRITERIA NOTES ON THIS SHEET FOR FLOW TEST DATA.
- REFER TO WET PIPE RISER DETAIL FOR VALVE AND SUPERVISION REQUIREMENTS.
- MICROBIAL INDUCED CORROSION IS NOT ANTICIPATED IN THIS PROJECT.
- REFER TO CIVIL SITE UTILITY DRAWINGS FOR BACKFLOW PREVENTER. MAXIMUM DESIGN PRESSURE DROP SHALL NOT EXCEED 5 PSI.
- REFER TO DIVISION 21 SPECIFICATIONS FOR QUALITY AND PERFORMANCE SPECIFICATIONS OF ALL FIRE PROTECTION COMPONENTS.
- NO FIRE PUMP IS REQUIRED.
- NO ON SITE FIREWATER STORAGE TANK IS REQUIRED.
- REFER TO CIVIL DRAWINGS FOR FORWARD FULL TEST PROVISIONS.

DESIGN CRITERIA

EACH BUILDING SYSTEM SHALL BE HYDRAULICALLY DESIGNED WITH NO INSIDE HOSE STREAM ALLOWANCE AND FIRE PROTECTION SPRINKLER DENSITY VALUES AS FOLLOWS:

LIGHT HAZARD = 0.10 GPM/SF WITH A MAXIMUM OF 225 SF COVERAGE PER SPRINKLER

ORDINARY HAZARD GROUP 1 = 0.15 GPM/SF WITH A MAXIMUM OF 130 SF COVERAGE PER SPRINKLER

ORDINARY HAZARD GROUP 2 = 0.20 GPM/SF WITH A MAXIMUM OF 130 SF COVERAGE PER SPRINKLER

THE SPRINKLER DESIGN SHALL BE BASED ON THE MOST HYDRAULICALLY DEMANDING 1500 SF. THE CONTRACTOR IS ALLOWED TO REDUCE THE DESIGN AREA BASED ON THE USE OF QUICK RESPONSE SPRINKLERS AND CEILING HEIGHT IN ACCORDANCE WITH NFPA 13.

THE DESIGN OF THE SPRINKLER SYSTEM SHALL BE BASED UPON WATER SUPPLY INFORMATION OBTAINED BY THE SPRINKLER CONTRACTOR AND WITNESSED BY THE AUTHORITY HAVING JURISDICTION. WATER SUPPLY SHALL BE PRESUMED AVAILABLE AT THE POINT OF CONNECTION OF THE FIRE MAIN TO THE WATER SUPPLY SYSTEM. THE FOLLOWING FLOW TEST DATA WAS OBTAINED BY THE ENGINEER ON MAY 28, 2025, PROVIDED BY SEAGO FIRE PROTECTION & PANAMA CITY FIRE DEPARIMANT.

HYDRANT #1:

STATIC =60 PSI

RESIDUAL = 52 PSI

HYDRANT #2:

FLOWING: 750.6 GPM

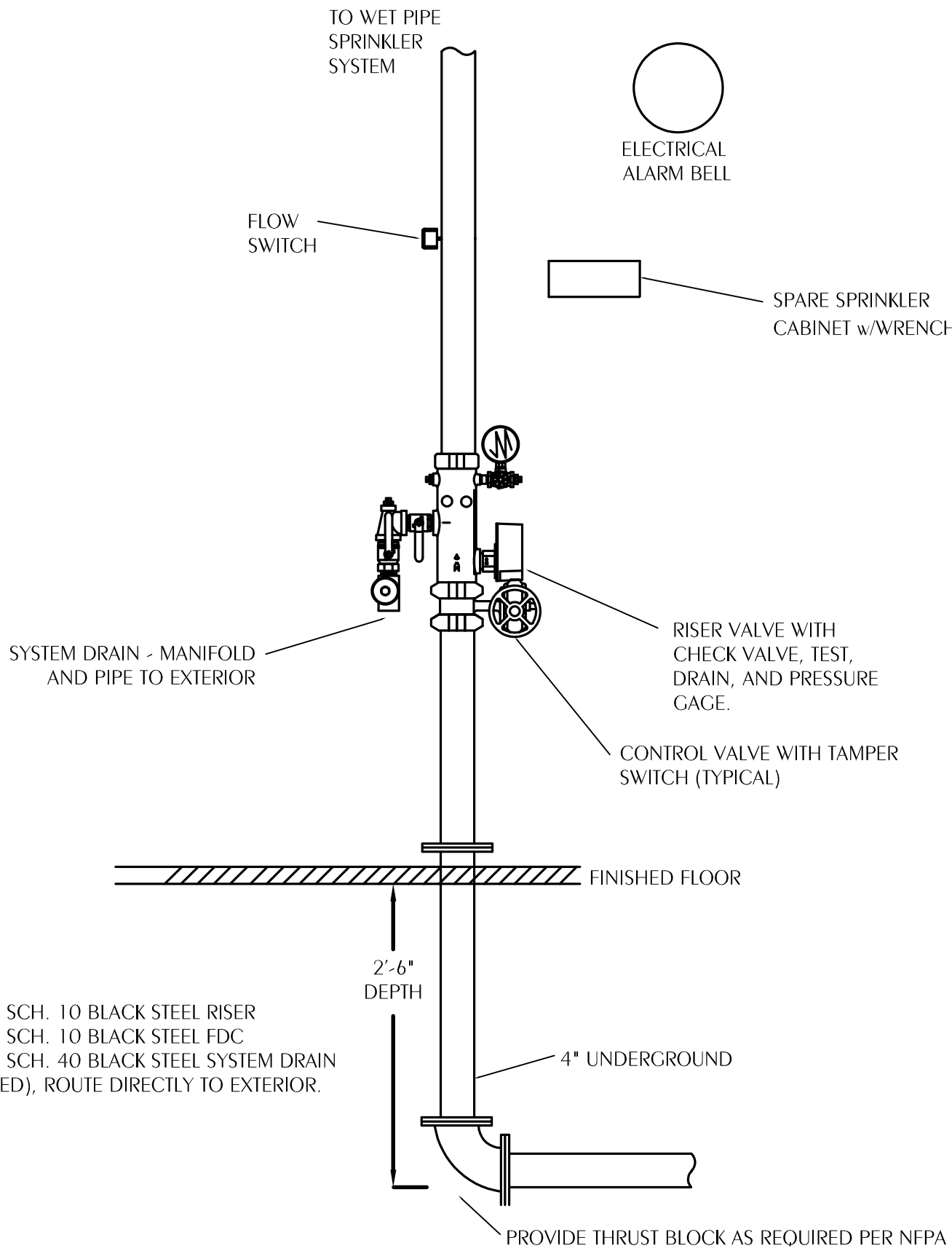
COEFFICIENT 0.9*

SYSTEM ENGINEERING SUMMARY

AREA SERVICED (WET PIPE)	14178 SF
AREA SERVICED (DRY PIPE)	0 SF
HYDRAULICALLY MOST REMOTE AREA	1500 SF
HAZARD CLASSIFICATION OF REMOTE AREA	LIGHT HAZARD
SYSTEM DESIGN FLOW RATE (INDOOR)	195 GPM
OUTSIDE HOSE STREAM DEMAND	100 GPM
TOTAL WATER DEMAND	295 GPM
WATER PRESSURE DATA	
END HEAD PRESSURE	7.0 PSI
ELEVATION LOSS	8.23 PSI
OUTSIDE FRICTION LOSS	2.76 PSI
BACK FLOW PREVENTOR	5 PSI
SAFETY FACTOR	10 PSI
AVAILABLE INSIDE FRICTION LOSS	20 PSI

LEGEND

---	FIRE	FW	FIRE WATER SUPPLY (SITE)
---	WM	WM	POTABLE WATER SUPPLY
---	WM	WM	WATER MAIN
---	FW(E)	FW(E)	EXISTING FIRE WATER SUPPLY
---			FIRE SPRINKLER MAIN
---			FIRE RISER
---			FIRE DEPARTMENT CONNECTION
---			FIRE DEPARTMENT CONNECTION
---			ROOF HYDRANT



NOTE:
PROVIDE SCH. 10 BLACK STEEL RISER
PROVIDE SCH. 10 BLACK STEEL FDC
PROVIDE SCH. 40 BLACK STEEL SYSTEM DRAIN (THREADED), ROUTE DIRECTLY TO EXTERIOR.

WET PIPE RISER DETAIL

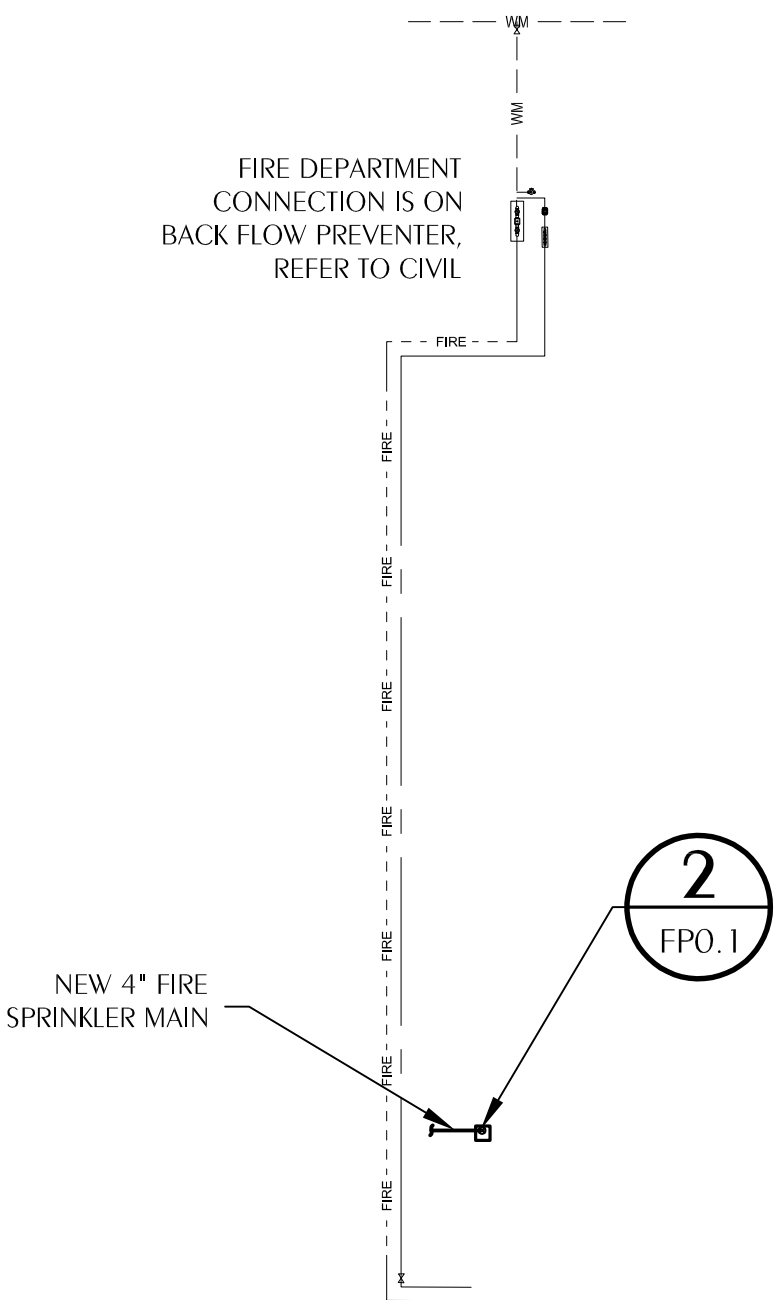
SCALE: 1/8" = 1'-0"



FIRE PROTECTION SITE PLAN

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

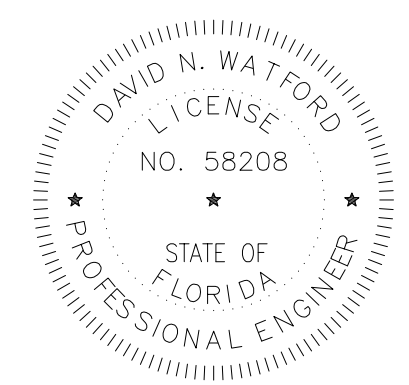
11TH STREET



ROSENWALD CLASSROOM BUILDING

ROSENWALD ACADEMY
924 BAY AVENUE, PANAMA CITY, FL 32401

FOR BAY DISTRICT SCHOOLS - 1311 BALBOA AVE., PANAMA CITY, FL 32401



Drawn By:
TLC

REVISION

#	Description	Date

FIRE PROTECTION
SITE PLAN

06/06/2025

FPO.1



ROSENWALD

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