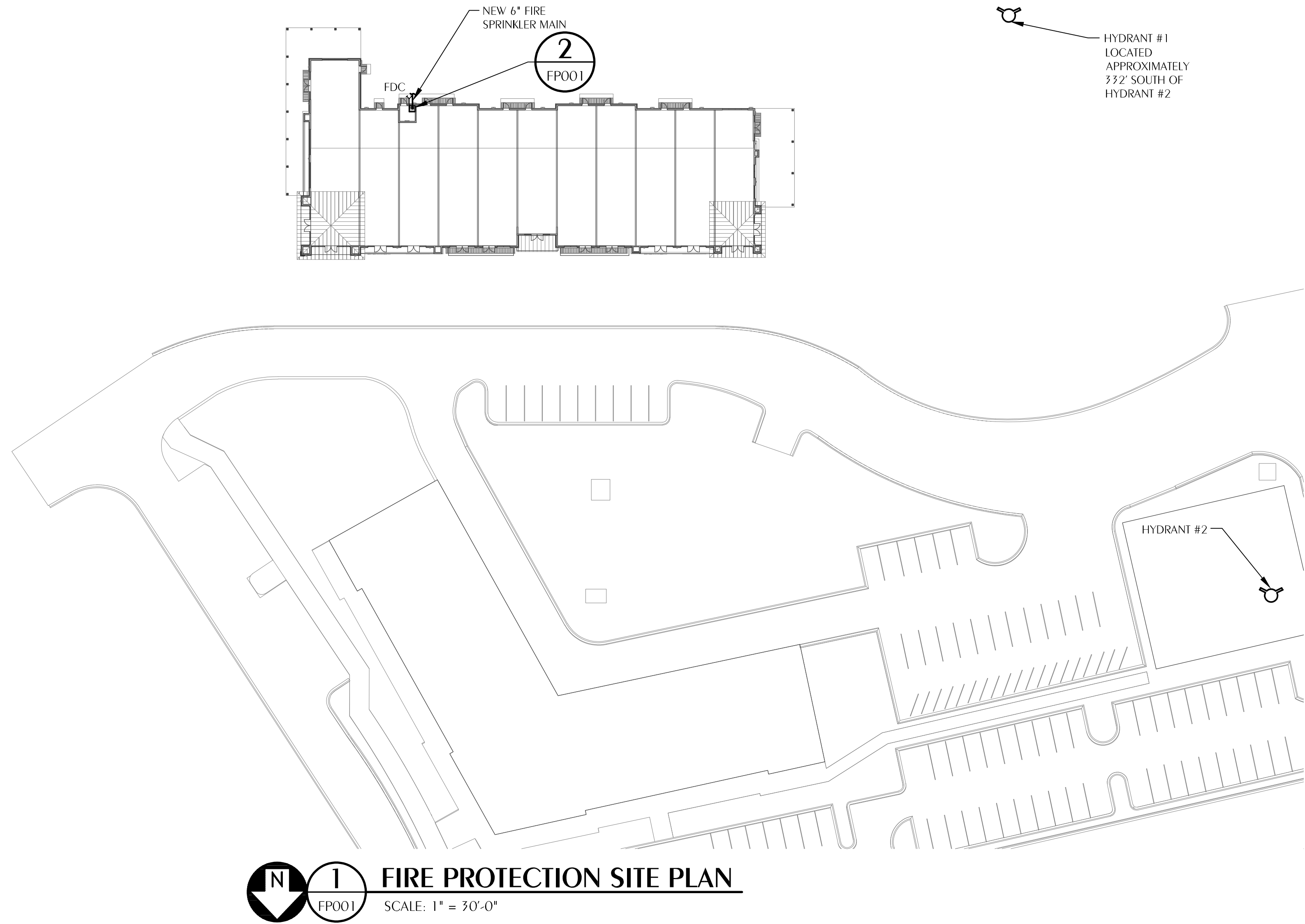
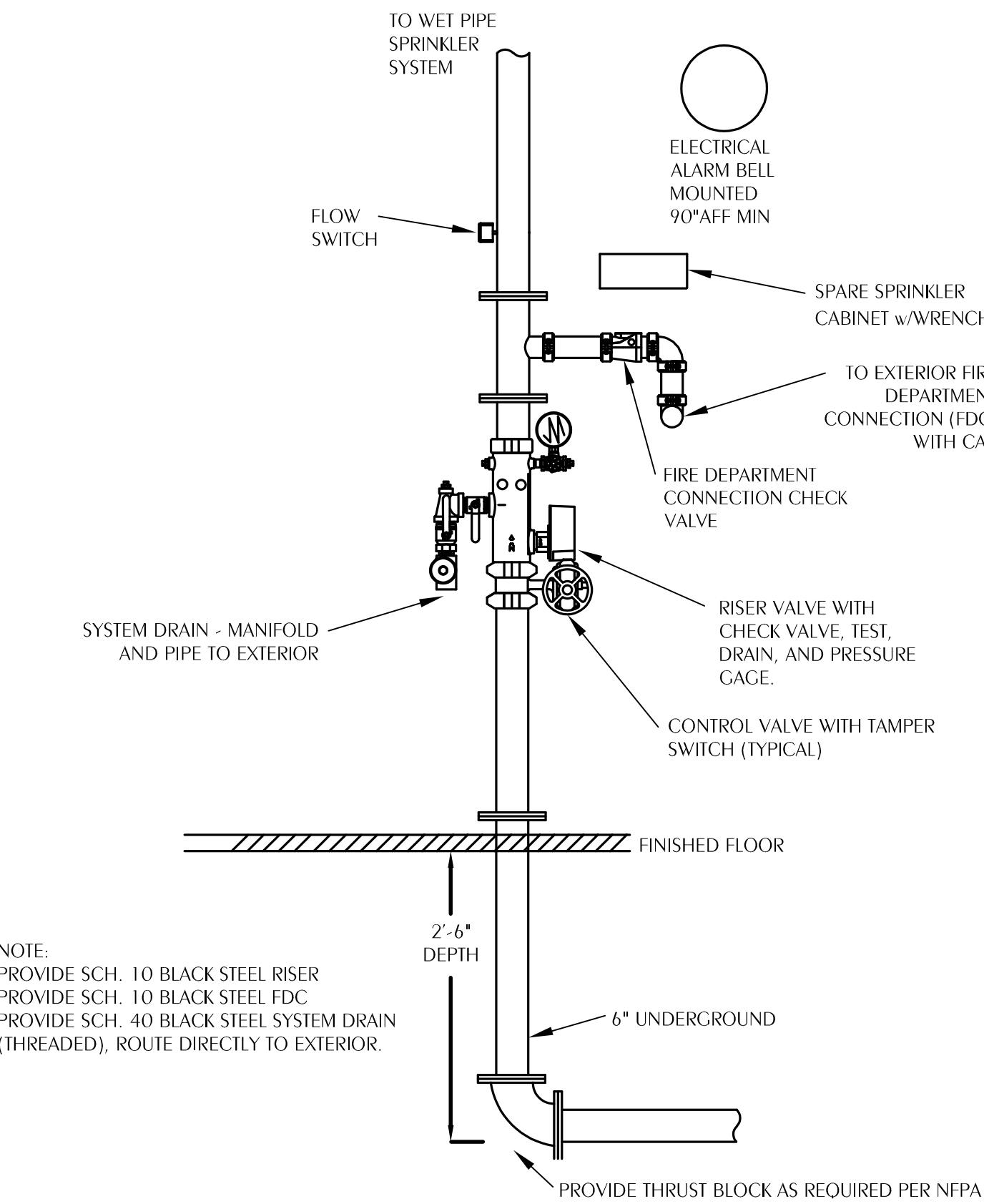




FIRE PROTECTION SITE PLAN
SCALE: 1" = 30'-0"



WET PIPE RISER DETAIL
SCALE: NONE

SYSTEM ENGINEERING SUMMARY	
AREA SERVICED (WET PIPE)	16120 SF
AREA SERVICED (DRY PIPE)	0 SF
HYDRAULICALLY MOST REMOTE AREA	1500 SF
HAZARD CLASSIFICATION OF REMOTE AREA	ORD. II
SYSTEM DESIGN FLOW RATE (INDOOR)	390 GPM
OUTSIDE HOSE STREAM DEMAND	250 GPM
TOTAL WATER DEMAND	542.5 GPM
WATER PRESSURE DATA	
END HEAD PRESSURE	7.0 PSI
ELEVATION LOSS	8.66 PSI
OUTSIDE FRICTION LOSS	3.46 PSI
BACK FLOW PREVENTOR	5 PSI
SAFETY FACTOR	10 PSI
AVAILABLE INSIDE FRICTION LOSS	20 PSI

LEGEND	
FW	FIRE WATER SUPPLY (SITE)
PW	POTABLE WATER SUPPLY
WM	WATER MAIN
FW(E)	EXISTING FIRE WATER SUPPLY
	FIRE SPRINKLER MAIN
	FIRE RISER
FDC	FIRE DEPARTMENT CONNECTION
	FIRE HYDRANT

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 2019 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 2019 EDITION OF 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 NON-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.

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. THE CONTRACTOR 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. PER NFPA 13.
- 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.
- 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.

DESIGN CRITERIA

THE 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 OCTOBER 22, 2024, PROVIDED BY CENTURY FIRE PROTECTION. CURRENT FLOW TEST DATA IS UNABLE TO BE OBTAINED BEFORE PERMIT AND WILL BE ISSUED AS AN ADDENDUM.

HYDRANT #1:

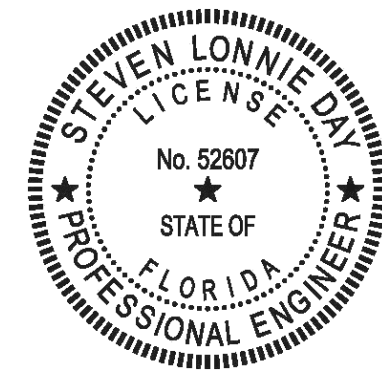
STATIC = 62 PSI

RESIDUAL = 54 PSI

HYDRANT #2:

FLOWING: 1061 GPM

COEFFICIENT 0.09"



Steven L. Day, State of Florida, Professional Engineer, License No. 52607
This item has been digitally signed and sealed by Steven L. Day on the date indicated here.
07/02/2026
Signature must be verified on any electronic copies.



Florida CA Number: 27825
Steven L. Day, PE
Florida License Number: 52607
850.526.3447 / 334.209.0212
Project Number: 2026-023



Design - Build Contractor

230 West 5th Street
Panama City, FL 32401
(850) 215-5540

**SPEC 2 AT WEST BAY TOWN
CENTER**

8411 WEST BAY PKWY
PANAMA CITY BEACH, FL 32413

REVISION

#	DESCRIPTION	DATE

Designed By:

SLD

Drawn By:

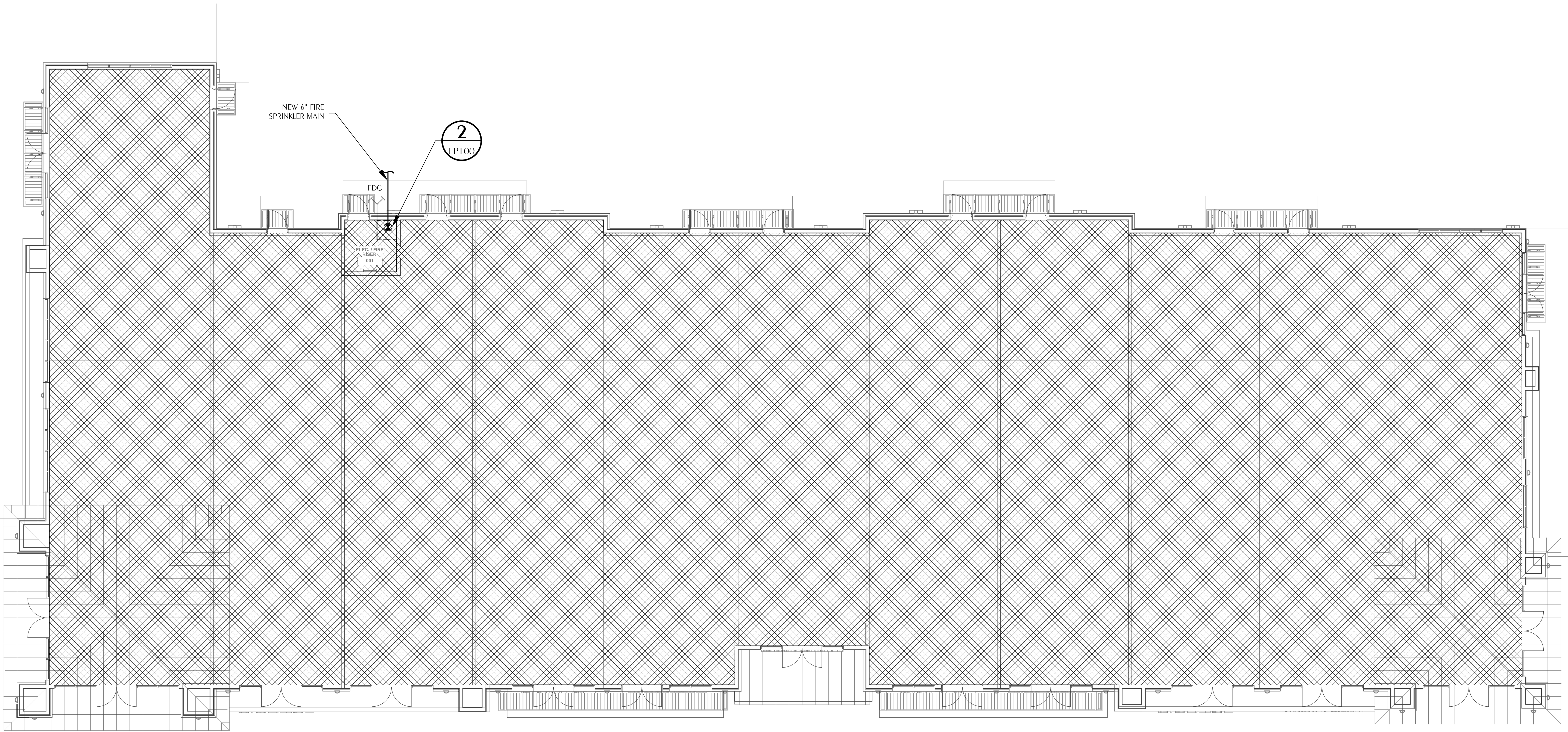
TLC

**FIRE PROTECTION
SITE PLAN- LEGEND,
DETAILS, AND NOTES**

FP001

07/02/2026

HAZARD CLASSIFICATION	
	LIGHT HAZARD
	ORDINARY HAZARD GROUP 1
	ORDINARY HAZARD GROUP 2



FIRE PROTECTION NEW WORK FLOOR PLAN

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



Florida CA Number: 27825
Steven L. Day, PE
Florida License Number: 52807
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Project Number: 2026-023



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CENTER**

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REVISION

#	DESCRIPTION	DATE

Designed By:
SLD

Drawn BY:
TLC

**FIRE PROTECTION
NEW WORK FLOOR
PLAN**

FP100

07/02/2026

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