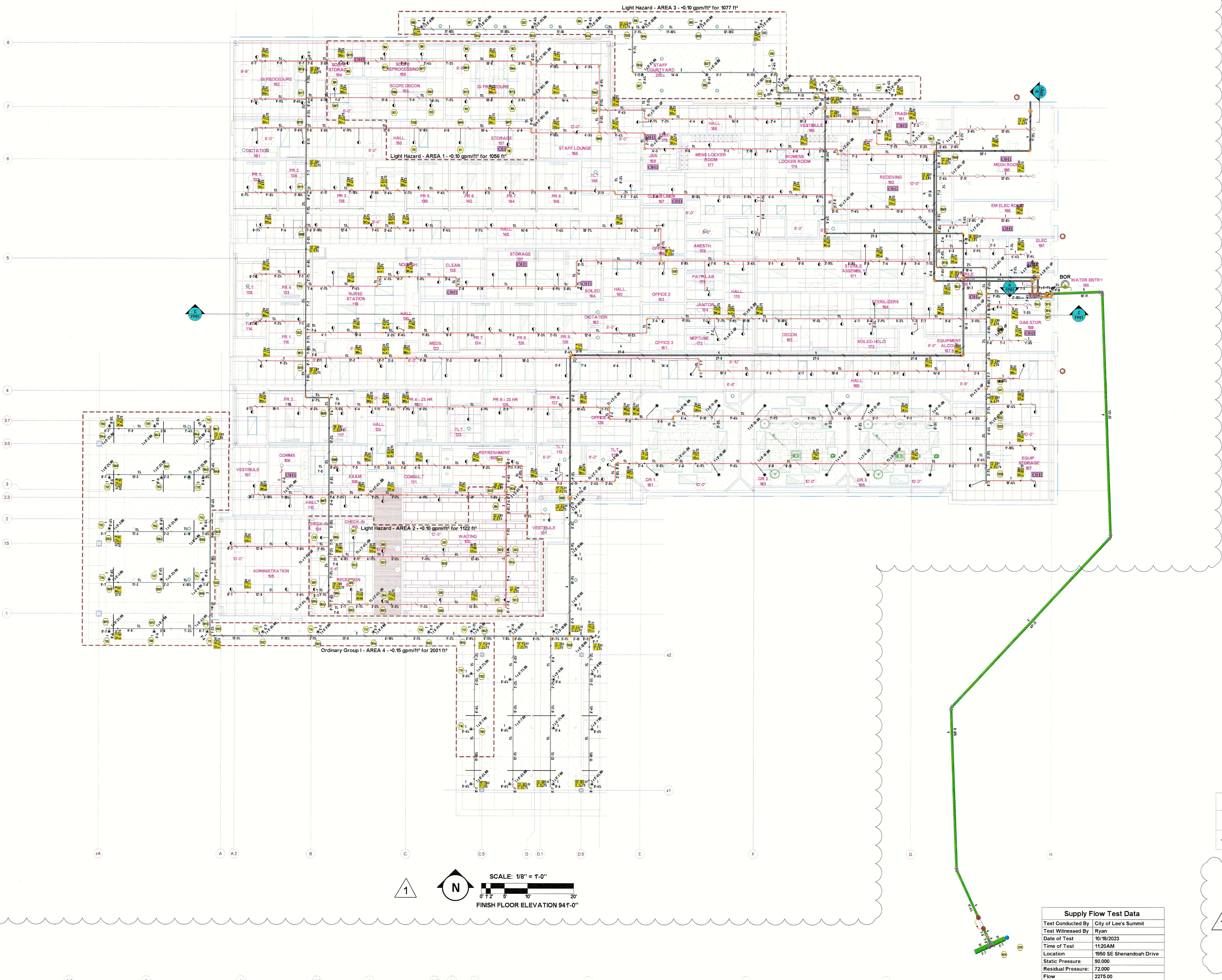
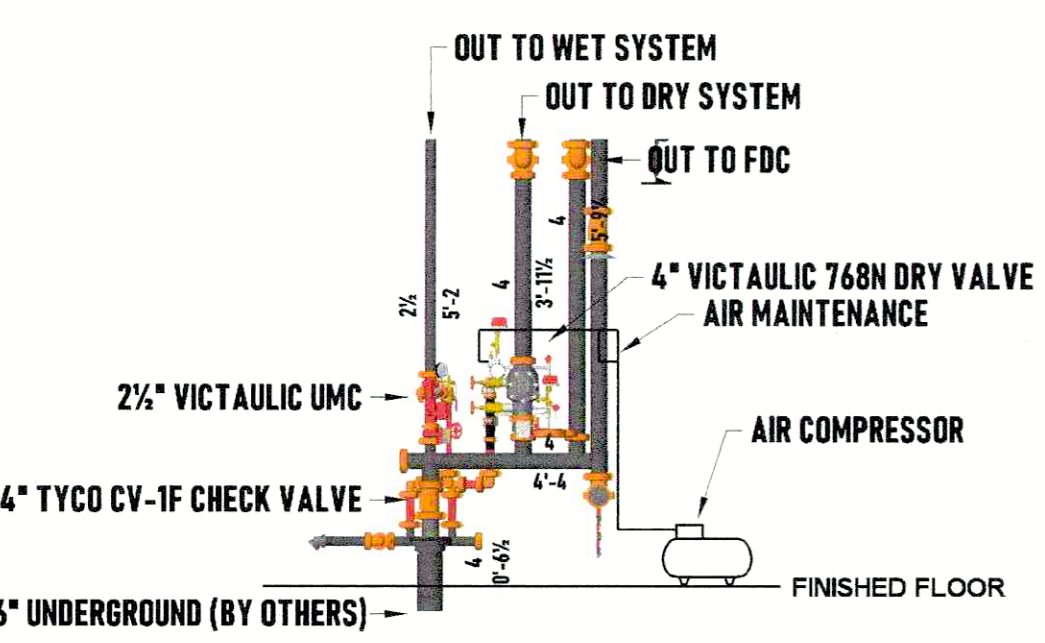


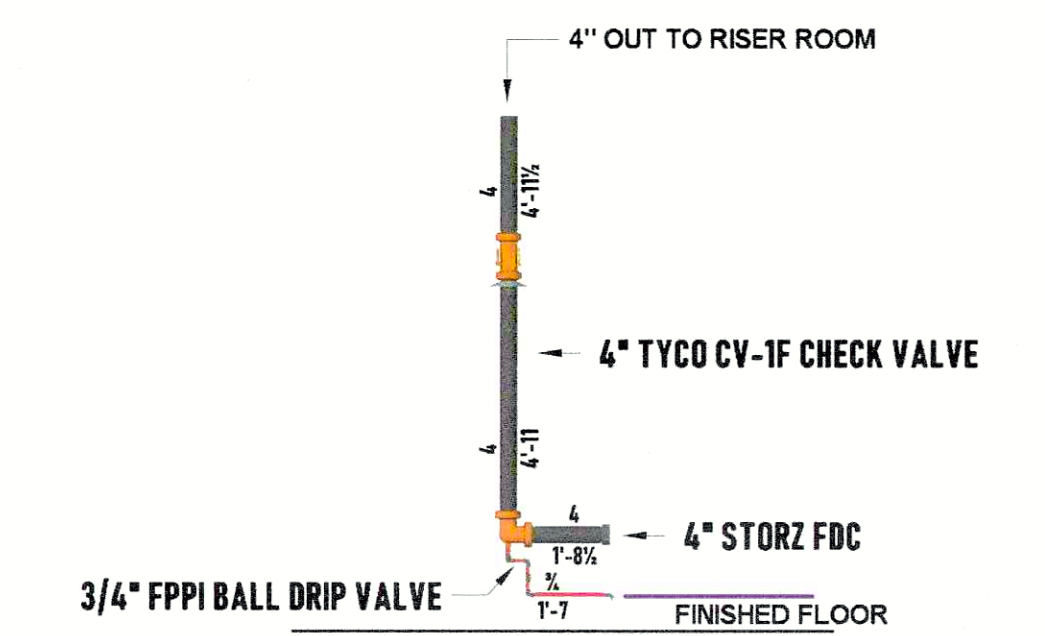


GENERAL NOTES:

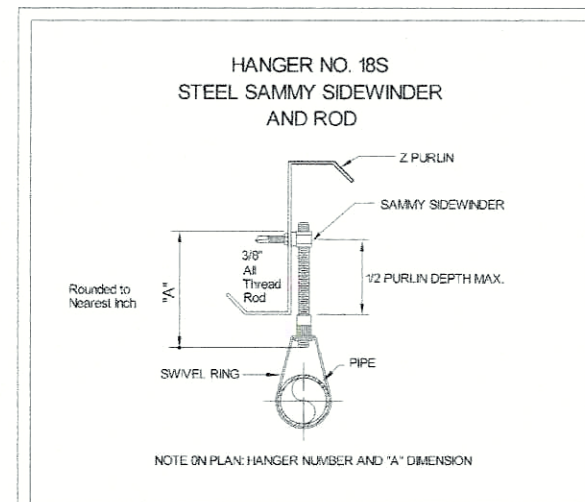
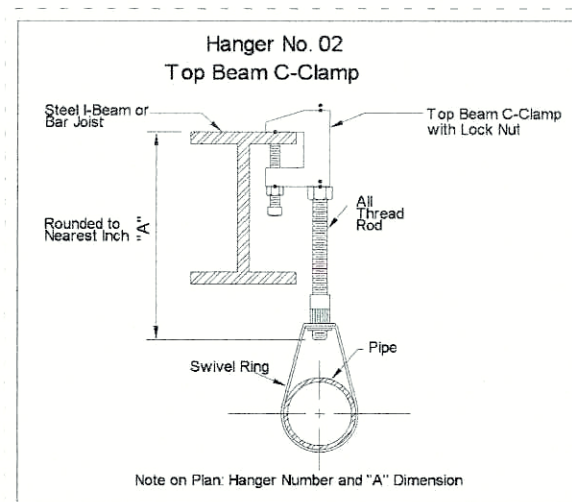
- THE SYSTEMS SHALL CONFORM WITH THE REQUIREMENTS OF NFPA 13, 2016.
- ALL THREADED PIPING / PIPING 2" & SMALLER SHALL BE SCHEDULE 40, BLACK/GALV. STEEL. ALL GROOVED PIPING 2 1/2" AND LARGER SHALL BE SCHEDULE 40, BLACK/GALV. STEEL.
- FITTINGS FOR 1" THRU 1 1/2" SHALL BE DUTILE IRON THREADED OR ARE TO BE GROOVED WITH STANDARD TAKE-OUTS OR WELDED OUTLETS AS INDICATED ON THE DRAWING. FITTINGS FOR 2" AND LARGER ARE TO BE GROOVED WITH FIRELOCK TAKE-OUTS OR WELDED OUTLETS AS INDICATED ON THE DRAWING. ALL WELDS ARE TO BE SHOP WELDED.
- PIPE LENGTHS ON DRAWING ARE SHOWN AS OUT LENGTH DIMENSIONS.
- ALL SECTIONS OF TRAPPED PIPING SHALL HAVE AUXILIARY DRAINS WHERE REQUIRED PER NFPA 13.
- ALL HANGERS ARE TO BE IN CONFORMANCE WITH NFPA 13.
- PENETRATIONS THRU FIRE WALLS SHALL BE FIRE CAULKED AS REQUIRED.
- THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE HEAT TO PREVENT THE WATER IN THE PIPING FROM FREEZING.
- AMERICAN FIRE SPRINKLER CORP. IS NOT CONTRACTED TO PROVIDE THE ALARM WIRING OR THE CENTRAL STATION ALARM SYSTEM.
- ALL DRY SYSTEM PIPING SHALL BE SLOPED PER NFPA 13.



A RISER DETAIL
SCALE: 1/4" = 1'-0"



B FDC DETAIL
SCALE: 1/4" = 1'-0"

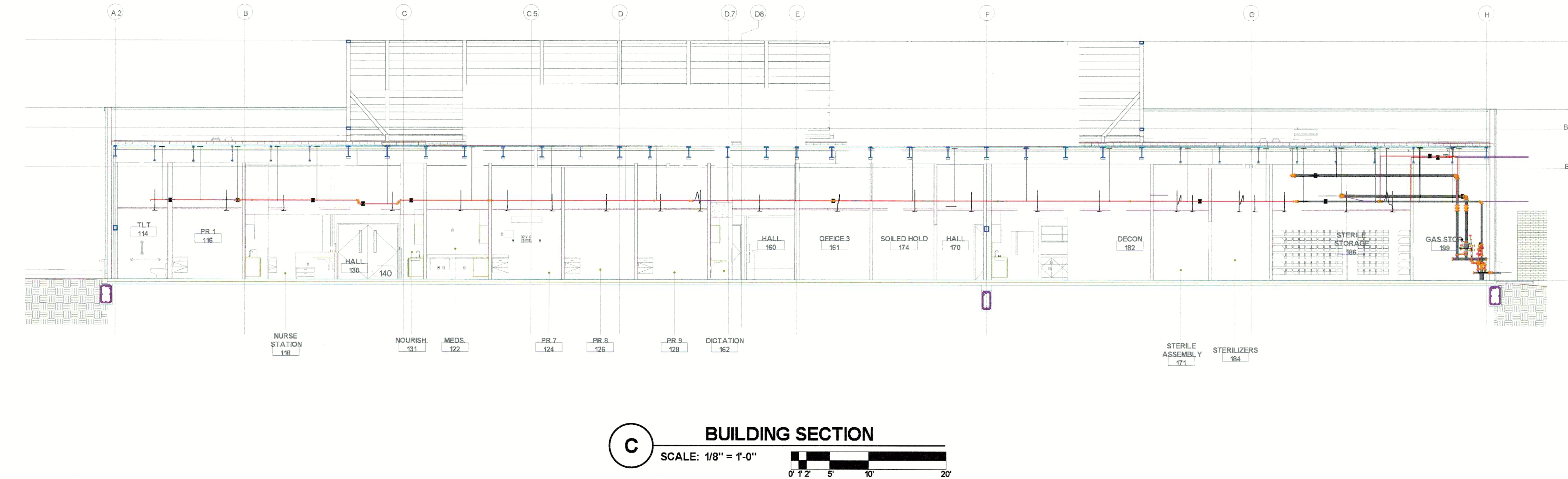


MAXIMUM DISTANCE BETWEEN HANGERS										
NOMINAL PIPE SIZE (in)	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	5"
STEEL PIPE EXCEPT THREADED LIGHTWALL	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0

Sprinkler Legend									
Symbol	Quantity	Manufacturer	SIN	K-Factor	Type	Size	Finish	Temperature	Note
●	166	Viking	VK4621	5.6	Pendent	1/2"	Chrome	200 °F	CONCEALED
○	12	Viking	VK4621	5.6	Pendent	1/2"	Chrome	200 °F	W/ SEALING CVR PLT
○	49	Viking	VK3001	5.6	Upright	1/2"	Brass	200 °F	
▲	49	Reliable	RA5114	5.6	Pendent	1/2"	Brass	212 °F	CONCEALED
Total = 239									

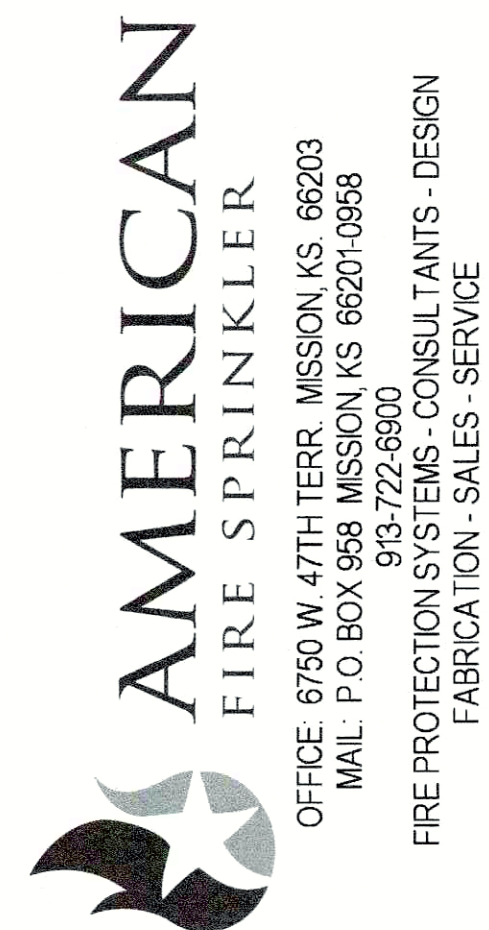
Supply Flow Test Data									
Test Conducted By: City of Lee's Summit									
Test Witnessed By: Ryan									
Date of Test: 10/16/2023									
Time of Test: 11:20AM									
Location: 1950 SE Shenandoah Drive									
Static Pressure: 90.000									
Residual Pressure: 72.000									
Flow: 2275.00									

LOCATION PLAN



Hydraulic Information									
OCCUPANCY CLASSIFICATION: Light Hazard - AREA 1 - 0.10 for 1500 ft² (Actual 1056 ft²)									
QUICK RESPONSE REDUCTION: 9'-0" Ceiling (40.0%) 900 ft²									
TOTAL HOSE STREAMS: 100.00									
TOTAL HEADS FLOWING: 13									
K-FACTOR: 5.6									
TOTAL WATER REQUIRED: 345.67									
TOTAL PRESSURE REQUIRED: 48.330									
BASE OF RISER (gpm): 211.57									
BASE OF RISER (psi): 35.721									
SAFETY MARGIN (psi): +40.215 (44.9%)									
Hydraulic Information									
OCCUPANCY CLASSIFICATION: Light Hazard - AREA 2 - 0.10 for 1500 ft² (Actual 1056 ft²)									
QUICK RESPONSE REDUCTION: 9'-0" Ceiling (40.0%) 900 ft²									
TOTAL HOSE STREAMS: 100.00									
TOTAL HEADS FLOWING: 11									
K-FACTOR: 5.6									
TOTAL WATER REQUIRED: 284.07									
TOTAL PRESSURE REQUIRED: 51.690									
BASE OF RISER (gpm): 184.07									
BASE OF RISER (psi): 38.053									
SAFETY MARGIN (psi): +37.801 (42.3%)									
Hydraulic Information									
OCCUPANCY CLASSIFICATION: Ordinary Group I - AREA 4 - 0.15 for 1950 ft² (Actual 2001 ft²)									
QUICK RESPONSE REDUCTION: 12'-0" Ceiling (37.0%) 945 ft²									
TOTAL HOSE STREAMS: 250.00									
TOTAL HEADS FLOWING: 22									
K-FACTOR: 5.6									
TOTAL WATER REQUIRED: 724.43									
TOTAL PRESSURE REQUIRED: 78.414									
BASE OF RISER (gpm): 474.43									
BASE OF RISER (psi): 82.945									
SAFETY MARGIN (psi): +114.19 (13.0%)									

PESTAMP:



PAY ITEM: SPR
REVIEWING AUTHORITY: OWNER / CITY
HEADS THIS SHEET: 239
DRAWN BY: ALEC MOBLEY
DATE: 11-20-2023
REVISION DATE: 03-21-2024
SCALE: AS SHOWN
CONTRACT: 4333CK
DWG #: FP01

SHEET: 1 OF 1