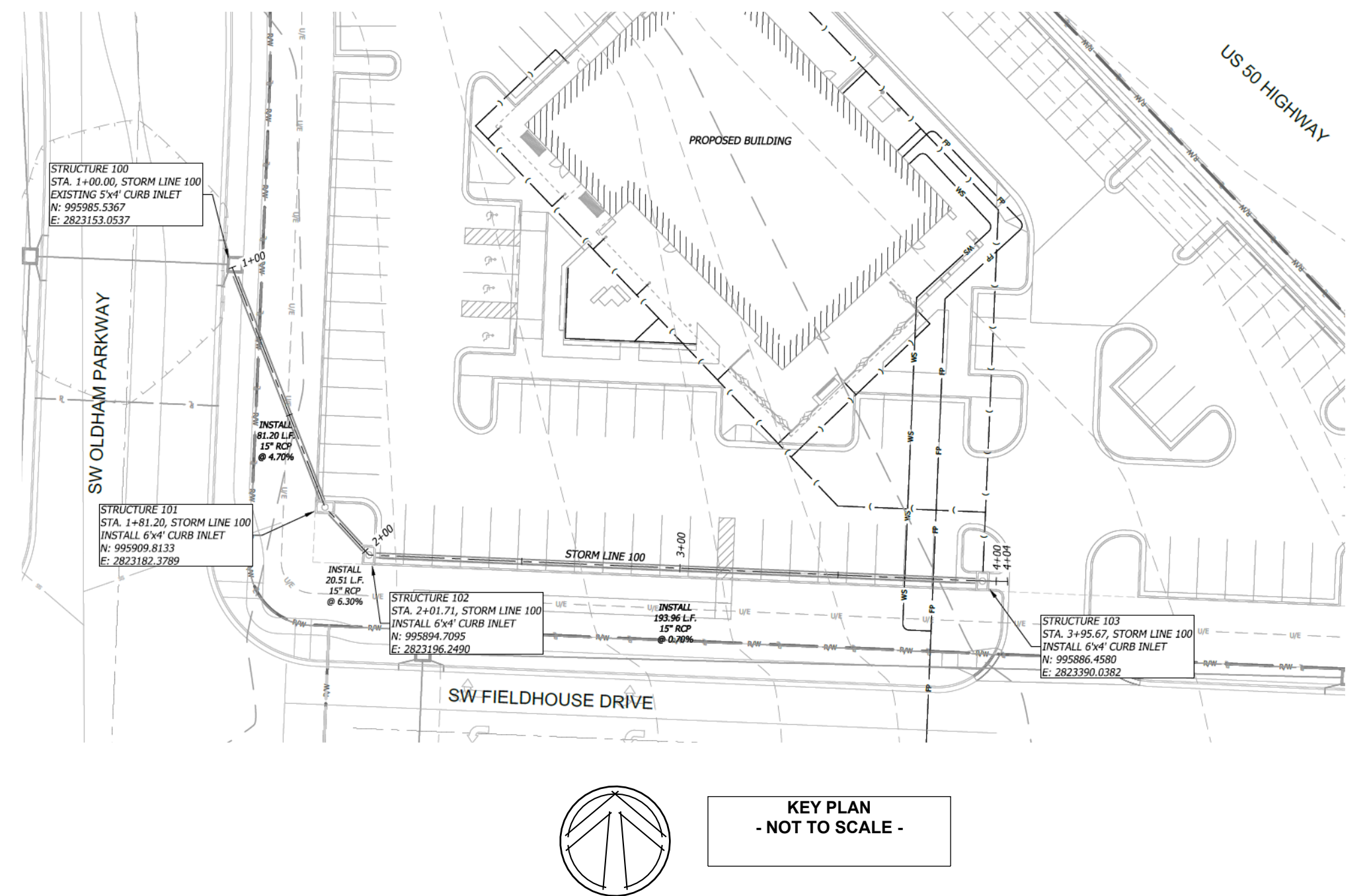


RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Lee's Summit Fire Department
Lee's Summit, Missouri

02/23/2026



Commercial Flexible Fire Sprinkler Drops

Unbraided Flexible Hose

1. Tube	2. Isolation Ring	3. Sealing Gasket	4. Nut	5. Nipple (T)	6. Reducer
---------	-------------------	-------------------	--------	---------------	------------

Max. Temp.	226°F	Size & Length	Outer: 1/2", 3/4"
Max. Pressure	175 psi		Inner: 1" NPT
Min. Bend Radius	4"		Length: 20', 40', 60', 80'
K-Factors	1/2" Outlet: 5.6 3/4" Outlet: 8.0		

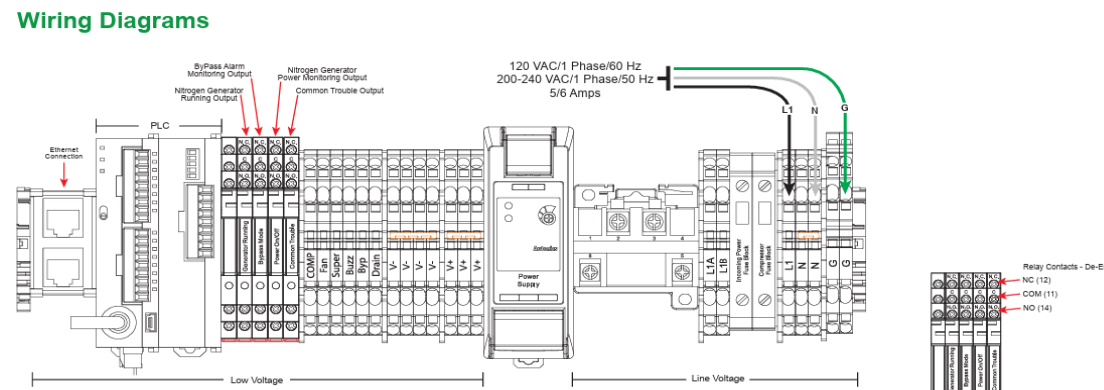
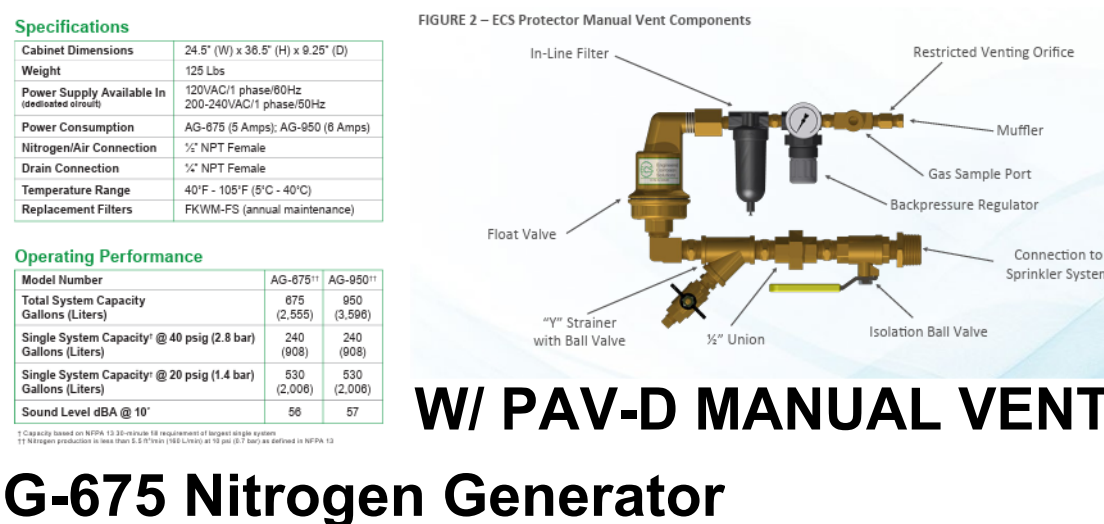
40" FLEX DROPS TO BE USED FOR CENTER OF TILE INSTALLATION

#1: 3/8" TOP BEAM CLAMP, 3/8" ALL THREAD ROD, SPLIT HANGER RING. PIPE IS MAINLY HUNG WITH THIS HANGER.

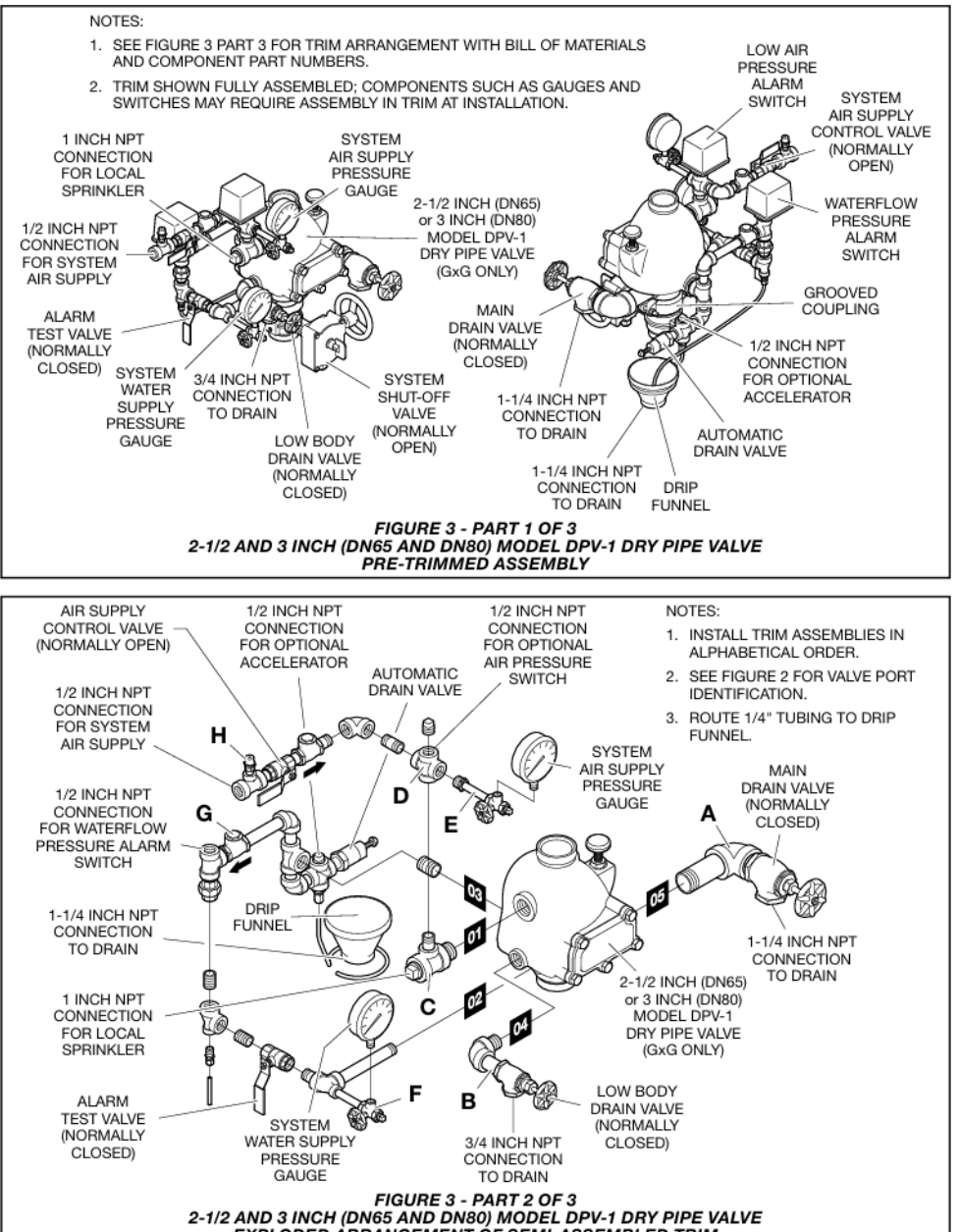
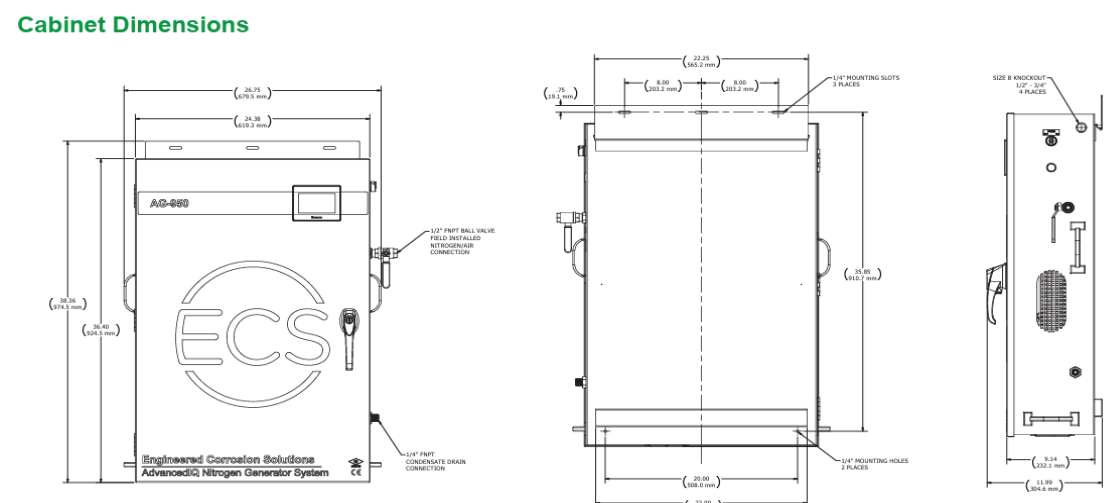
Hydraulic Information	
OCCUPANCY CLASSIFICATION	Ordinary Group I
DENSITY (gpm/ft ²)	0.15 for 1500ft ² (Actual 905ft ²)
QUICK RESPONSE REDUCTION	8'-0" Ceiling (40.0%) 900ft ²
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	13
K-FACTOR	5.6
TOTAL WATER REQUIRED	509.26
TOTAL PRESSURE REQUIRED	58.884
BASE OF RISER (gpm)	509.26
BASE OF RISER (psi)	58.884
SAFETY MARGIN (psi)	+11.979 (16.9%)

Hydraulic Information	
OCCUPANCY CLASSIFICATION	Light Storage
DENSITY (gpm/ft ²)	0.10 for 1500ft ² (Actual 1440ft ²)
TOTAL HOSE STREAMS	100.00
DRY CAPACITY	56.30gpm
TOTAL HEADS FLOWING	9
K-FACTOR	11.2
TOTAL WATER REQUIRED	321.87
TOTAL PRESSURE REQUIRED	62.873
BASE OF RISER (gpm)	321.87
BASE OF RISER (psi)	62.873
SAFETY MARGIN (psi)	+8.841 (12.5%)

Supply Flow Test Data	
Test Conducted By	Lee's Summit
Date of Test	12-9-25
Location	South-West Oldham Xing
Hydrant Numbers	038-192
Static Pressure	72.000
Residual Pressure	56.000
Flow	2127.00

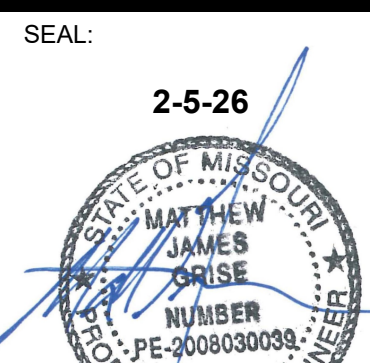


Description	Normally Open Contact Connections	Normally Closed Contact Connections
Manager Generator Running Output (Alarm)	Relay LED Connections	Relay LED Connections
Manager Generator Monitoring Output	Relay LED Connections	Relay LED Connections
Manager Generator Power Monitoring Output	Relay LED Connections	Relay LED Connections
Common Trouble Monitoring Output	Relay LED Connections	Relay LED Connections



System Capacity (gpm @ 4.0 psi)	Model Number	Average CFM*	Motor HP	Voltage (volts)	Amperage (amps)	Recommended Wire Size (AWG)	Unit Weight (lbs)
120	OLR12016AC	1.46	1/4	115	3.3	16	29
250	OLR25033AC	3.03	1/2	115	7.2	12	53
400	OLR40050AC	4.85	3/4	115	11.2	10	85
500	OLR50075AC	6.08	1	115	14.0	10	105
600	OLR600100AC	7.28	1 1/2	115	16.8	10	145
915	OLR915150AC	11.10	1 1/2	115	25.0	10	210
1225	OLR1225200AC	14.85	2	208-208	11.0	12	70

1. 6" NEW FIRE LINE BY OTHERS. HYDROSTATIC & FLUSHING INSPECTIONS PERFORMED PER NFPA AND AHJ STANDARDS. NFPA INSPECTION FORMS TO BE FILLED OUT BY INSTALLING CONTRACTOR.
2. 6" SPLIT FLANGE & BOLT PACK ATTACHED TO FIRELINE ABOVEGROUND SPIGOT FLANGE TERMINATING 1'-6" ABOVE FINISHED FLOOR.
3. 6" X 2-1/2" CONCENTRIC REDUCER.
4. 2-1/2" DERRINGER 30 BFP DOUBLE CHECK DETECTOR. PER LEE'S SUMMIT STANDARDS. ALARM WIRING AND MONITORING BY OTHERS.
5. 2-1/2" FLUSHING T WITH CAP.
6. 2-1/2" FLOW SWITCH. ALARM WIRING AND MONITORING BY OTHERS.
7. WATER PRESSURE GAUGE ASSEMBLY.
8. 2" GROOVED AGF TEST N DRAIN WITH 1/2" PRV & K5.6 ORIFICE.
9. 2" GALVANIZED 45 ON SYSTEM DRAIN PIPED TO EXTERIOR.
10. 2-1/2" TEE TO FDC AND DRY RISER.
11. FDC 30 DEGREE 4" STORZ.
12. BFP FLUSHING T CAPPED.
13. DRY PIPE VALVE 2-1/2" (TYCO DPV-1 PRE TRIM) W/ AG675 NITROGEN GENERATOR & PAV-D VENT CONTROLLER & GENERAL AIR COMPRESSOR (OLR12016AC), 37 GALLON CAPACITY.
14. GENERAL INFORMATION SIGNAGE. INSTALL VALVE ID SIGNS.
15. SPARE HEAD BOX WITH WRENCH PER NFPA13 6.2.9.
16. MANUAL AIR VENT NEAR HIGHEST POINT IN SYSTEM PER NFPA13 8.16.6 (1" GLOBE VALVE WITH PLUG).



Sprinkler Legend											
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Type	Size	Response	Finish	Temperature	Note
	Viking		VK3021	52	5.6	Pendent	1/2	Quick	Chrome	175°F	
	Viking		VK3001	30	5.6	Upright	1/2	Quick	Brass	175°F	
	Tyco		TY3235 Dry	7	5.6	Pendent	1	Quick	Chrome	175°F	Dry
	Tyco		TY3335 DRY	4	5.6	Horizontal Sidewall	1	Quick	Chrome	175°F	
	Viking		VK532 EC	3	11.2	Upright	3/4	Quick	Brass	175°F	
				Total = 96							
TOS= TOP OF STEEL FDC= FIRE DEPARTMENT CONNECTION						FT= FOOT BLD= BUILDING FF= FINISHED FLOOR GPM= GALLONS PER MINUTE PSI= POUNDS PER SQAURE INCH					

1. FIRE SPRINKLER DESIGN PER NFPA 13 2016 EDITION.
2. OWNER SHALL MAINTAIN SYSTEM PER NFPA 25.
3. ALL MATERIALS USED SHALL COMPLY WITH SPECIFIED REQUIREMENTS.
4. CONTINUOUS CENTRAL MONITORING OF ALARM COMPONENTS PER NFPA 72 SHALL BE BY OTHERS.
5. ALL ALARM AND ELECTRICAL WORK ASSOCIATED WITH INSTALLED COMPONENTS SHALL BE BY OTHERS.
6. ALL UNDERGROUND WORK BY OTHERS. FIRE LINE SHALL BE FLUSHED PER NFPA 24 REQUIREMENTS OVER AND ABOVE LOCAL WATER JURISDICTION REQUIREMENTS. NFPA TEST PAPERS FILLED OUT AND SIGNED BY INSTALLER SHALL BE SUBMITTED TO GENERAL CONTRACTOR PRIOR TO THE ABOVEGROUND SYSTEM BEING PUT INTO SERVICE.
7. ANY PAINTING OF PIPE BY OTHERS.
8. CONDITIONING OF BUILDING ENVELOPE TO PREVENT WATER FREEZING IN PIPES SHALL BE BY OTHERS BEFORE AND AFTER OCCUPANCY.
9. ANY LABELING OF PIPE BY OTHERS.
10. PIPE WITH GROOVED ENDS SHOULD BE SCHEDULE 10.
11. PIPE WITH THREADED ENDS SHOULD BE SCHEDULE 40.

REVISIONS:
SCALE: 1/8" = 1'



DRAWN BY: DB
DATE: 2-5-26
JOB #: NC1505
SHEET NO: 1 OF 1

JOB NAME: Q39 Lee's Summit
Lee's Summit Mo Oldham Village
CONTRACTOR: Centric Build
620 W Pennway St #100, Kansas City, MO 64108