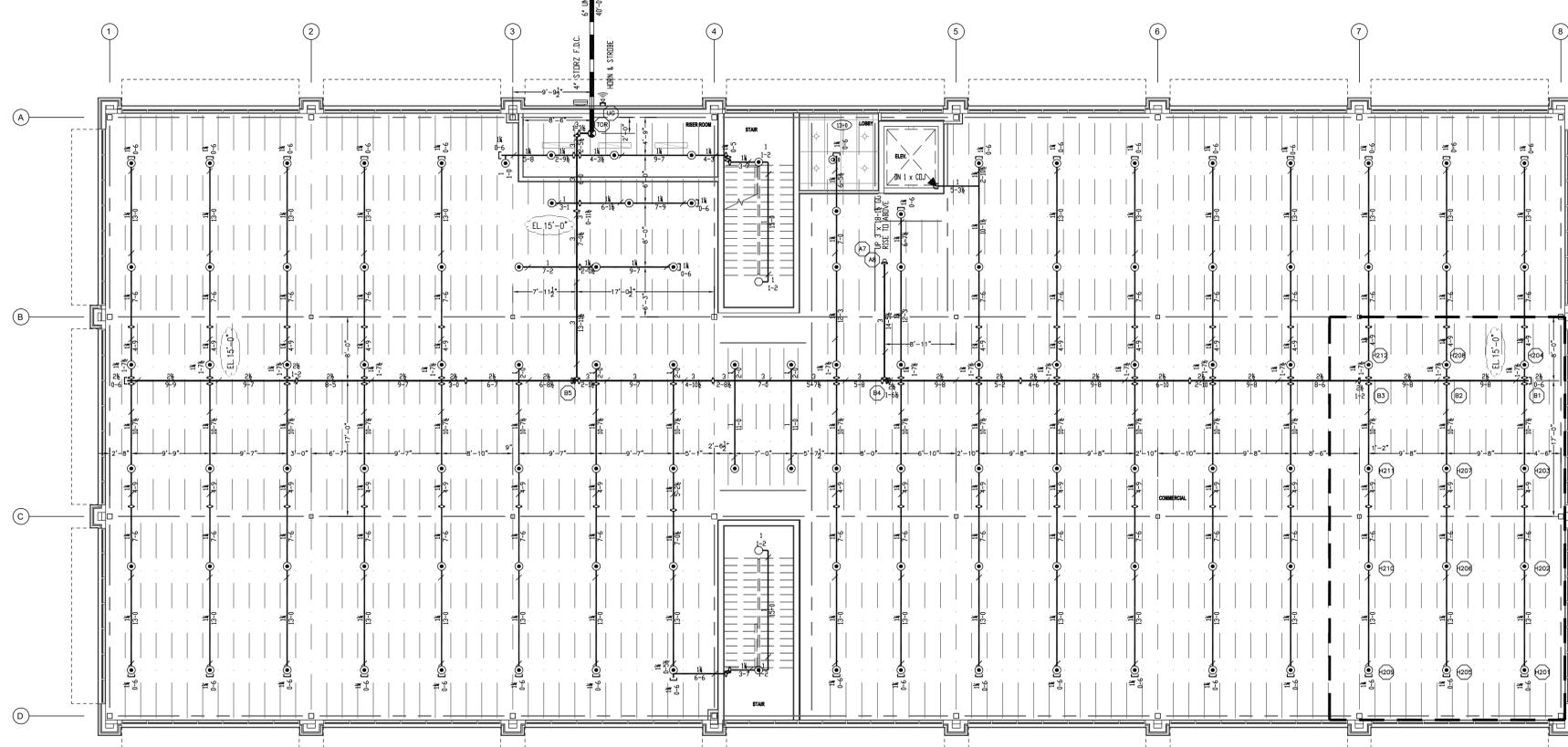


**2nd FLOOR**  
 F.F. EL. 18'-0"  
 ALL HANGERS TO BE SPACED PER NFPA - 13 (SEE CHART)  
 ALL HANGERS TO BE CUI  
 ALL SPRINGS TO BE 1" x CUI  
 PENDENT HEADS TO BE ON 4" ARGCO FLEX DROPS

**OPERATING AREA 1**  
 0.20 GPM/50 FT OVER 1500 SQ FT  
 0.15 GPM/50 FT UP TO 1500 SQ FT  
 DOWN & UP TO 1500 SQ FT

**\* FLOW TEST DATA \***  
 STATIC: 115 PSI  
 RESIDUAL: 70 PSI  
 FLOW: 1501 GPM  
 DATE: 8-3-2025  
 LOCATION: LOOPED CITY MAIN  
 ELEV: SAME AS THE F.F.  
 SOURCE: G.M. FIRE PROTECTION



**1st FLOOR**  
 F.F. EL. 0'-0"  
 BS/CI = 12'-4"  
 ALL HANGERS TO BE SPACED PER NFPA - 13 (SEE CHART)  
 ALL HANGERS TO BE CUI  
 ALL SPRINGS TO BE 1" x CUI  
 PENDENT HEADS TO BE ON 4" ARGCO FLEX DROPS  
 \* SYSTEM PIPING TO BE @ EL. 15'-0" UNLD. \*

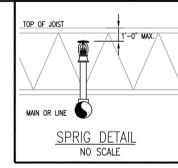
**OPERATING AREA 2**  
 0.20 GPM/50 FT OVER 1500 SQ FT  
 0.15 GPM/50 FT UP TO 1500 SQ FT  
 DOWN & UP TO 1500 SQ FT

**DESIGN CRITERIA:**  
 PER NFPA-13, 2016 EDITION, ORDINARY HAZARD GR. II:  
 0.20 GPM/50 FT. FOR 1500 SQ. FT.  
 OUTSIDE HOSE ALLOWANCE = 250 GPM

**PIPE TYPE:**  
 ALL WELDED/GROOVED PIPING TO BE SCHED. 40  
 ALL THREADED PIPING TO BE SCHED 40

**GENERAL NOTES:**  
 ALL FITTINGS CONFORM TO SECTION 2-4 OF NFPA PAMPHLET 13.  
 VALVES ON CONNECTIONS TO WATER SUPPLIES, SECTIONAL CONTROL VALVES AND OTHER VALVES IN SUPPLY PIPES TO SPRINKLERS SHALL BE SUPERVISED OPEN BY AN APPROVED METHOD.  
 IT IS THE OWNERS RESPONSIBILITY TO PROVIDE ADEQUATE HEAT TO KEEP THE SPRINKLER SYSTEM FROM FREEZING.  
 ALL ELECTRICAL WIRING OF ALARM BELLS, FLOW SWITCHES AND TAMPER SWITCHES OF REQUIRED TO BE DONE BY OTHERS.  
 THE SPRINKLER SYSTEM TO BE INSTALLED IN ACCORDANCE WITH NFPA 13.  
 HANGERS TO BE SPACED TO MEET NFPA REQUIREMENTS  
 EL = CENTER LINE OF PIPE ABOVE FINISHED FLOOR

**CONSTRUCTION:**  
 STEEL BEAMS & JOISTS



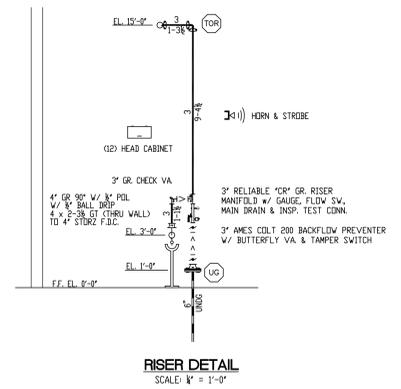
MAXIMUM DISTANCE BETWEEN HANGERS (ft-in) PER NFPA-13	NOMINAL PIPE SIZE	1 1/2"	2"	2 1/2"	3"	4"	4 1/2"	6"
STEEL PIPE EXCEPT THREADED LIGHTWALL	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0
THREADED LIGHTWALL	12-0	12-0	12-0	12-0	12-0	N/A	N/A	N/A
STEEL PIPE	6-0	6-6	7-0	8-0	8-0	10-0	N/A	N/A
CPVC	6-0	6-6	7-0	8-0	8-0	10-0	N/A	N/A

TEMP	DIFFERENTIAL	K-FACTOR	COEFFICIENT
200°	1/2"	5.6	230
200°	1/2"	5.6	2
200°	1/2"	5.6	7
200°	1/2"	5.6	1

SYMBOL	DESCRIPTION
○	Hydraulic Reference Points
○	Elev. Below Top of Steel
○	Elev. Above Finished Floor
+	CEILING HEIGHT
○	Device, Hanger, Location
○	Rise up or down



DATE	REVISIONS	CONTRACT NO.	DRAWN BY	SCALE	TOTAL SHEETS
				1/8" = 1'-0"	240

- Plan Notes**
- All Pipe Locations are to be Field Measured Prior to Fabrication and Installation by Sprinkler Contractor.
  - All Pipe Dimensions Shown are Center to Center.
  - High Temperature Heads are to be Field Located Where Required.
  - All Pipes and Hangers are to be Installed per NFPA #13.
  - Hangers are to be U.L. Listed and P.M. Approved.

**Job: THE VILLAGE AT DISCOVERY**  
**LOT 1**  
**221 NE ALURA WAY**  
**LEES SUMMIT, MO**

8-25-2025  
 MISSOURI STATE OF MISSOURI  
 CHRISTOPHER T. GROSS  
 NUMBER: 16-201503844  
 MISSOURI PROFESSIONAL ENGINEER

MISSOURI PE COA #2016025677  
**Engineering, LLC**  
 1624 N Glen Elyn  
 Independence, MO 64056  
 816-516-9540

**Goal Fire Protection, LLC**  
 20920 147th Street  
 Basehor, KS. 66007  
 (913) 441-3390

**SHEET 1 OF 1**