

DESIGN CRITERIA:
THERE IS NO HOSE ALLOWANCE IN CALCS. FLOW TEST IS @ BASE OF RISER

TIRE STORAGE:
PER NFPA-13, 2016 EDITION, TABLE 13.2.1 & FIG. 12.2.1 (EH)
(TIRES STORED ON TREAD, IN 3-TIER RACK, UP TO 8' HIGH)
0.29 GPM/SQ. FT. FOR ENTIRE AREA, UP TO 2500 SQ. FT.
(OUTSIDE HOSE ALLOWANCE = 500 GPM)

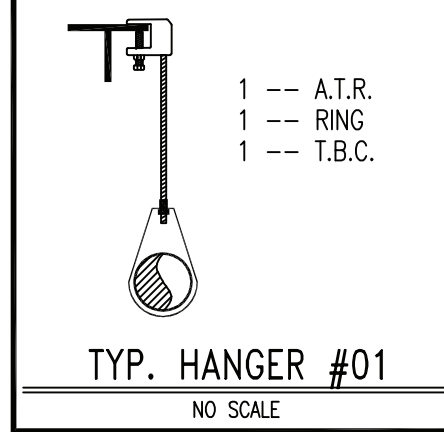
PARTS STORAGE:
PER NFPA-13, 2016 EDITION, TABLE 13.2.1 & FIG. 12.2.1 (CH2)
0.20 GPM/SQ. FT. FOR 1500 SQ. FT.
(OUTSIDE HOSE ALLOWANCE = 250 GPM)

CONSTRUCTION:
EXISTING STEEL JOISTS

PIPE TYPE:
NEW GR. PIPING TO BE SCHED 10
NEW 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 (IF 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
PER NFPA 13, SECTION 8.6.3.2.4, WITHIN SMALL ROOMS AS DEFINED IN SECTION 3.3.2.0, SPRINKLERS SHALL BE PERMITTED TO BE LOCATED NOT MORE THAN 9 FT. FROM ANY SINGLE WALL, AND SPRINKLER SPACING LIMITATIONS OF SECTION 8.6.3 AND AREA LIMITATIONS OF TABLE 8.6.2.2(a) SHALL NOT BE EXCEEDED. MAY MODIFY HEADS SHOWN ON THIS DRAWING TO COMPLY WITH THIS RULE.
CL = CENTER LINE OF PIPE BELOW TOP OF JOIST
EL = CENTER LINE OF PIPE ABOVE FINISHED FLOOR

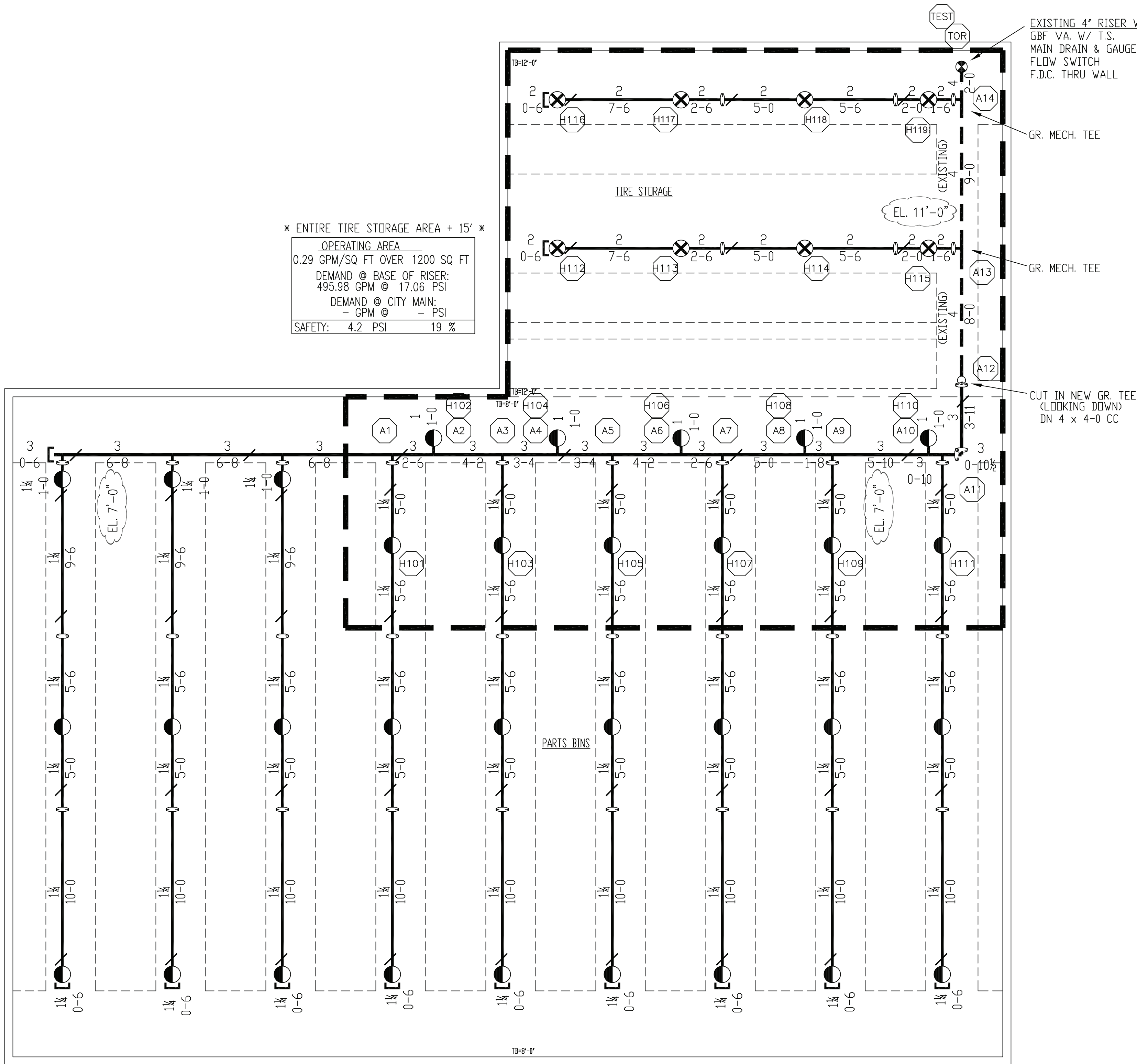
Maximum Distance between Hangers (ft.-in.) Per NFPA-13									
NOMINAL PIPE SIZE	1 1/2"	1 1/2"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"
STEEL PIPE EXCEPT THREADED LIGHTWALL	12'-0"	12'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"
THREADED LIGHTWALL	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	N/A	N/A	N/A
STEEL PIPE	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	N/A	N/A	N/A
CPVC	6'-0"	6'-6"	7'-0"	8'-0"	9'-0"	10'-0"	N/A	N/A	N/A



* FLOW TEST DATA *

STATIC: 82 PSI
RESIDUAL: 55 PSI
FLOW: 320 GPM

DATE: 4-21-2025
LOCATION: BASE OF RISER
ELEV.: 1' ABOVE F.F.
SOURCE: GOAL FIRE PROTECTION
(THIS IS A CALCULATED FLOW TEST BASED ON CURRENT TEST)
(CITY HYDRANTS IN AREA DO NOT ALLOW FOR A FLOW TEST)



* ENTIRE TIRE STORAGE AREA + 15' *

OPERATING AREA
0.29 GPM/SQ. FT. OVER 1200 SQ. FT.
DEMAND @ BASE OF RISER:
495.98 GPM @ 17.06 PSI
DEMAND @ CITY MAIN:
- GPM @ - PSI
SAFETY: 4.2 PSI 19 %

UNDER MEZZ.
F.F. EL. 0'-0"
HANGERS TO BE SPACED PER NFPA-13 (CDJ)
PENDENTS NEAR HEAT SOURCES TO BE INT. OR HIGH TEMP.
SPRIGS TO BE 1 x CDJ

Job: **BOB SIGHT FORD**
UNDER MEZZ. PARTS STORAGE
610 NW BLUE PKWY
LEE'S SUMMIT, MO

4-28-2025

MISSOURI PE COA #2016025677

Engineering, LLC

1624 N Glen Elyn
Independence, MO 64056
816-516-9540

SHEET 1 OF 1

SPRINKLER LEGEND

Symbol	Description
○	Hydraulic Reference Points
○	Elev. Below Top of Steel
○	Elev. Above Finished Floor
○	Elev. of Top of Steel
○	Ceiling Height
○	Denotes Hanger Location
○	Rise up or down

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 F.M. Approved.

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Drawing Title

Contract No.

Drawn By: B & K

Scale: 1/4" = 1'-0"

Date: 4-21-2025

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