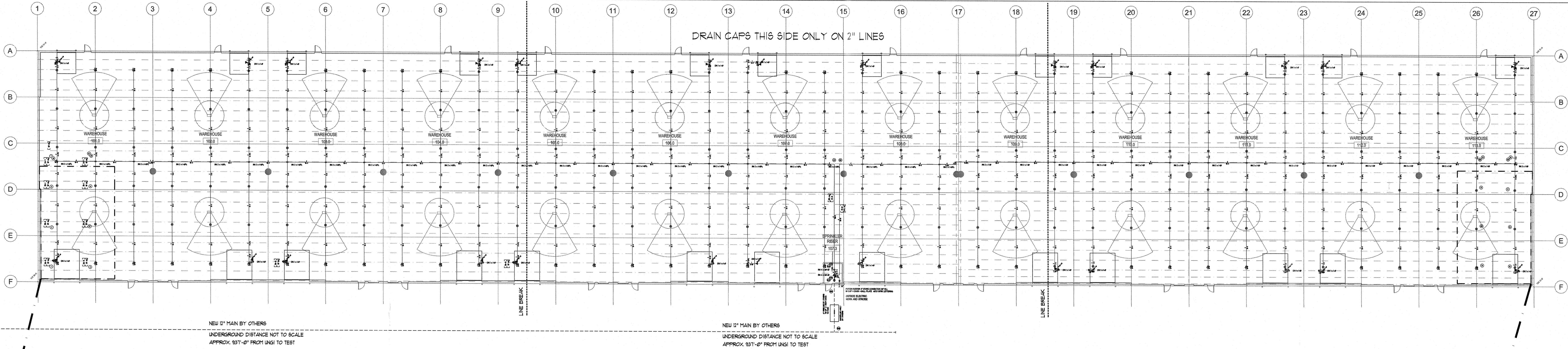




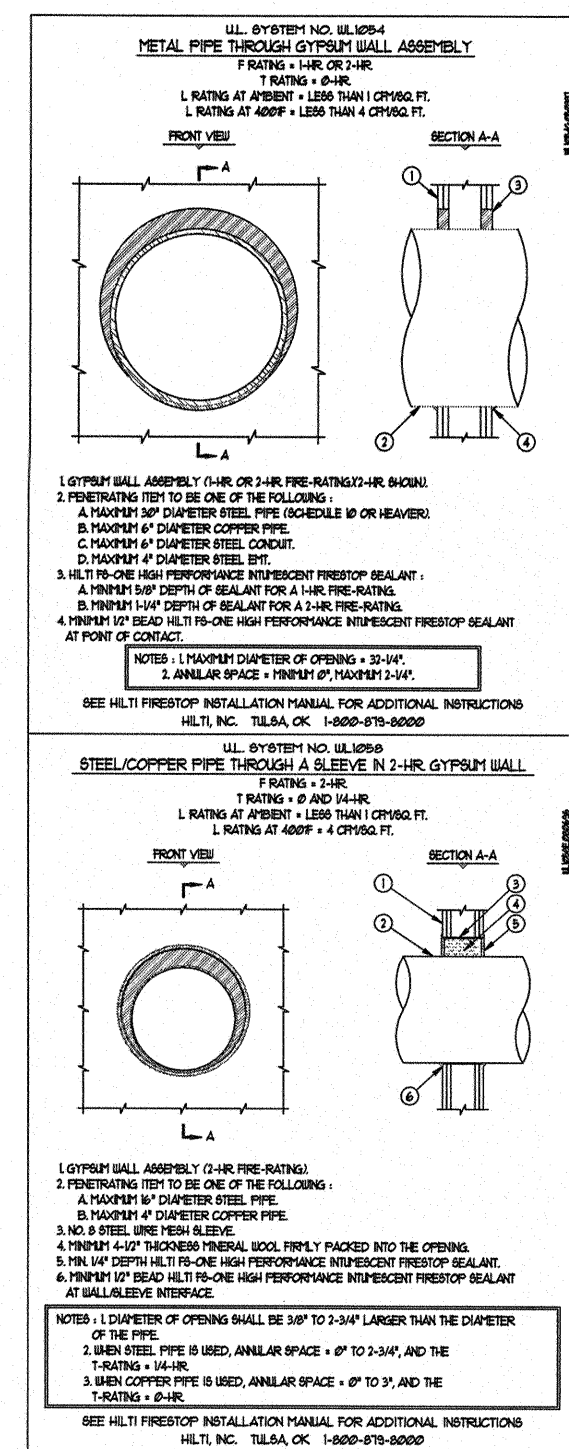
SYSTEM DESIGN SUMMARY
CALCULATED AREA: AREA 1
OCCUPANCY: WAREHOUSE
HAZARD: CH
AREA / SPRINKLER: 400
DENSITY: 0.20 GPM / SQFT (MAX)
AREA OF OPERATION: 500 SQFT
NUMBER OF OPERATING HEADS: 6
SYSTEM DEMAND: 140.564 GPM @ 88.671 PSI
TEST
INSIDE HOSE DEMAND: N/A GPM
OUTSIDE HOSE DEMAND: 750 GPM
SPRINKLER HEAD: RELIABLE GFR VELO ECON R6593
ORifice: 3/4"
K FACTOR: 14
TEMPERATURE: 22°
NOTE:
CALCULATION DATA FILE:

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N.T.S.-FOR REFERENCE ONLY

GENERAL NOTES

- THE SYSTEM DESIGN CRITERIA COMPLIES WITH THE REQUIREMENTS OF NFPA 13 2016 EDITION.
- ALL PIPING SHALL CONFORM WITH THE REQUIREMENTS OF NFPA 13 2016 EDITION.
- ALL FITTINGS SHALL CONFORM WITH THE REQUIREMENTS OF NFPA 13 2016 EDITION.
- ALL HANGERS SHALL CONFORM TO THE REQUIREMENTS OF NFPA 13 2016 EDITION.
- FITTINGS FOR 1" THRU 2" SHALL BE CAST IRON THREADED. FITTINGS FOR 2 1/2" THRU 4" PIPING ARE TO BE GROOVED OR WELDED OUTLETS.
- LENGTHS OF PIPING 1" THRU 2" ARE SHOWN AS THREAD TO THREAD UNLESS NOTED AS: G - GROOVE OR C - CENTER. 2 1/2" THRU 4" PIPE LENGTHS ARE SHOWN AS CENTER TO CENTER UNLESS NOTED AS: G - GROOVE, W - WELD, F - FACE OR FLANGE OR T - THREAD.
- ALL SECTIONS OF TRAPPED PIPING SHALL HAVE AUXILIARY DRAINS WHERE REQUIRED.
- THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE HEAT TO PREVENT THE PIPING FROM FREEZING.
- ALL SWITCHBOARDS, PANEL BOARDS, DISTRIBUTION BOARDS AND MOTOR CONTROL CENTERS SHALL BE PROTECTED FROM DAMAGE BY OTHERS.



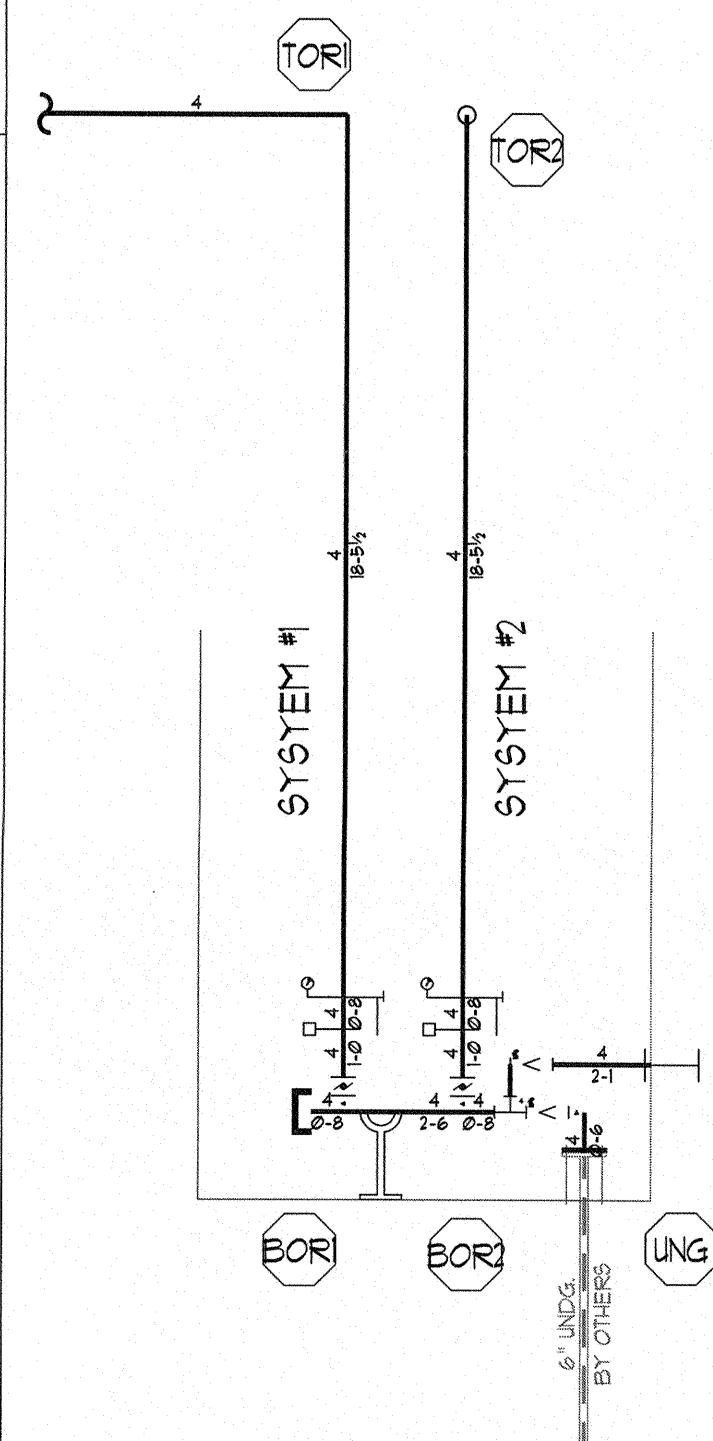
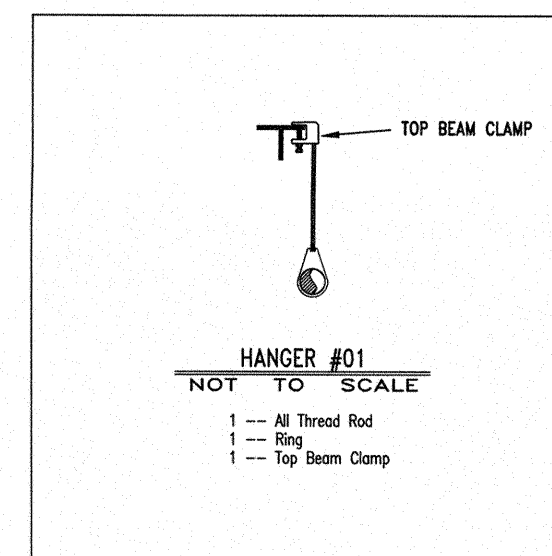
HANGER SPACING TABLE

HANGER SPACING FOR STEEL PIPE (SCH. 40)

PIPE SIZE	HANGER SPACING
1", 1 1/4"	12'
1 1/2" & LARGER	15'

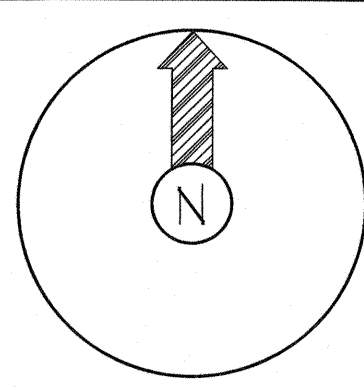
HANGER SPACING FOR STEEL PIPE (THINWALL)

PIPE SIZE	HANGER SPACING
1" - 3"	12'
4" & LARGER	15'



POTTER ROEMER 4" x 5" STORZ CONNECTION 30° ELL
W/ CAP & CHAIN + WALL PLATE AUTO SPRK LETTERING
4" DRAIN 90° W/BALL DRIP
12CT. HEAD BOX
WATER GAUGE X 2
2" TEST & DRAIN X 2
4" FLOW SWITCH X 2
4" BUTTERFLY VALVE X 2
4" CHECK VALVE X 2
1 1/2" X 4" GR FLANGE

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



CONSTRUCTION:
INSULATED METAL DECK ROOF ON STEEL BEAMS 4 BAR JOIST @ ELEV. AS NOTED ON PLAN
PIPE TYPE:
SCHEDULE 2" AND SMALLER TO BE SCH. 40 PIPE WELDED 2" AND LARGER TO BE SCH. 40 PIPE
DESIGN CRITERIA:
PER NFPA 13, ORDINARY HAZARD GR II, 0.20 GPM/SQFT FOR 500 SQFT OPERATING
MAX 90 SQFT HEAD SPACING + 750 GPM FOR HOSE ALLOWANCE.

FLOW TEST DATA:
STATIC: 105 PSI
RESIDUAL: 16 PSI
W/ 2300 GPM
CONDUCTED BY: L.S. WATER
ON 8-10-2023 10:30AM
HYDRANTS 014-011 AND 014-013

DATE	REVISION

Symbol	Description
○	Hydraulic Reference Points
E: 0'-0"	Elev. Below Top of Steel
EL: 0'-0"	Elev. Above Finished Floor
+ 0'-0" 0'-0"	Elev. of Top of Steel
(P)	Ceiling Height
—	Denotes Hanger Location
o	Rise up or down
ALL PIPE CUTS ARE CENTER TO CENTER	

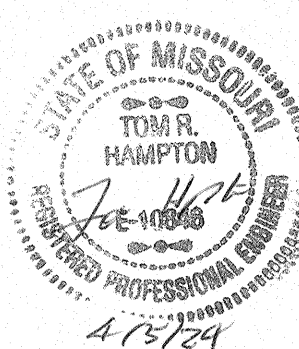
Sprinkler Head Summary										
Symbol	Count	NPT	Orif.	Make	Model	Finish	Style	Temp.	K=	SIN
⊗	260	3/4"	3/4"	RELIABLE	SR	BRASS	UPRIGHT GFR VELO ECON	22°	14	R6593
◀	26	1/2"	1/2"	Viking	QR	BRASS	HCR SIDEWALL	200°	5/6	VK305

NOTICE OF NONRESPONSIBILITY
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ADVANTAGE FIRE PROTECTION SYSTEMS, INC.

FIRE SPRINKLER SITE/RISER PLAN

LAKEWOOD BUSINESS CENTER
LOT 1
NE MAGUIRE BLVD.
LEE'S SUMMIT, MO 64064

ADVANTAGE
FIRE PROTECTION SYSTEMS INC.
"We are your Advantage"
404B N.W. 11th Street
Blue Springs, MO. 64015
Tel. (816) 224-3400



REVIEWING AUTHORITY
L.S. FIRE DEPT.
HEADS THIS SHEET
260
TOTAL HEADS FOR JOB
260
SCALE
1/4" = 1'-0"
DRAWN BY
DANIEL LOGSTON
REVISION DATE
4-4-2024
DATE DRAWN
1-16-2024
CONTRACT NUMBER
J-2351
DRAWING NUMBER
1 OF 4