

SYSTEM DESIGN SUMMARY
 CALCULATED AREA: AREA 1
 OCCUPANCY: WAREHOUSE
 HAZARD: 0-0
 AREA / SPRINKLER: 400
 DENSITY: 0.20 GPM / SQFT (1.4X)
 AREA OF OPERATION: 500 SQFT
 NUMBER OF OPERATING HEADS: 6
 SYSTEM DEMAND: 145.144 GPM @ 142.82 PSI
 + TEST
 INSIDE HOSE DEMAND: N/A GPM
 OUTSIDE HOSE DEMAND: 750 GPM
 SPRINKLER HEAD: RELIABLE GFR VELO ECH R6853
 ORifice: 3/4"
 K FACTOR: 14
 TEMPERATURE: 72"
 NOTE:
 CALCULATION DATA FILE:

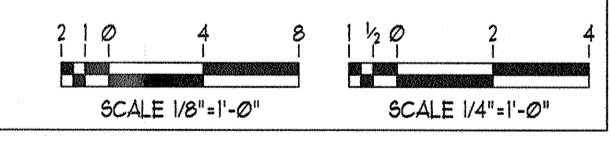
*SEE PAGE 1 FOR GENERAL NOTES



FIRE SPRINKLER EAST

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

REVIEWING AUTHORITY	L&S FIRE DEPT.
HEADS THIS SHEET	88
TOTAL HEADS FOR JOB	260
SCALE	1/8" = 1'-0"
DRAWN BY	DANIAL LOGSTON
REVISION DATE	4-4-2024
DATE DRAWN	1-16-2024
CONTRACT NUMBER	J-2351
DRAWING NUMBER	4 OF 4



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CONSTRUCTION:
 INSULATED METAL DECK ROOF ON STEEL BEAMS 4 BAR 2016 * ELEV. AS NOTED ON PLAN
PIPE TYPE:
 SCREWED 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 130 SQFT/HEAD SPACING, 750 GPM FOR HOSE ALLOWANCE.

FLOW TEST DATA:
 STATIC: 105 PSI
 RESIDUAL: 76 PSI
 W/ 2500 GPM
 CONDUCTED BY LS WATER ON 8-10-2023 @ 10:20AM
 HYDRANTS 014-011 AND 014-013

DATE	REVISION
4-15-2024	SYSTEM NOW INCLUDES 50% SAFETY

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

Symbol	Count	NPT	Orif.	Make	Model	Finish	Style	Temp.	K ²	SIN
⊕	78	3/4"	3/4"	RELIABLE	SR	BRAS6	UPRIGHT GFR VELO ECH	212	14	R6853
⊕	10	1/2"	1/2"	VKNG	GR	BRAS6	HOR SIDEWALL	212	5.6	VK325

