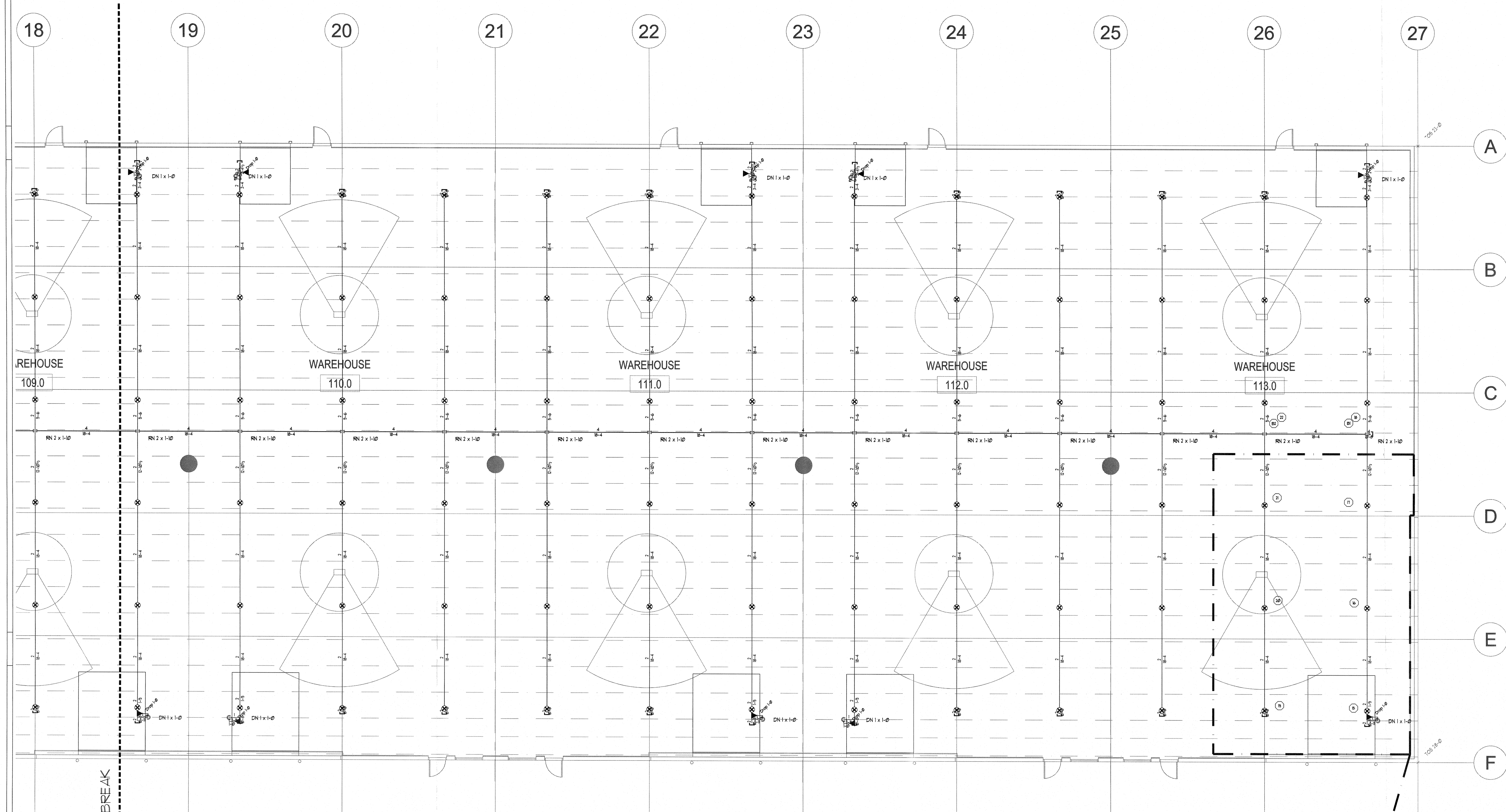


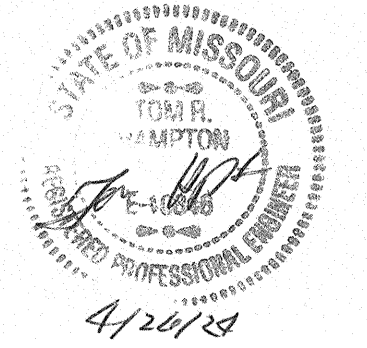


SYSTEM DESIGN SUMMARY
CALCULATED AREA: AREA 1
OCCUPANCY: WAREHOUSE
HAZARD: Q10
AREA / SPRINKLER: 400
DENSITY: 0.20 GPM / SQFT (144K)
AREA OF OPERATION: 500 SQFT
NUMBER OF OPERATING HEADS: 6
SYSTEM DEMAND: 145.144 GPM @ 342 PSI
+ TEST
INSIDE HOSE DEMAND: N/A GPM
OUTSIDE HOSE DEMAND: 750 GPM
SPRINKLER HEAD: RELIABLE GFR VELO ECH R6953
ORifice: 3/4"
K FACTOR: 14
TEMPERATURE: 72°
NOTE:
CALCULATION DATA FILE:

*SEE PAGE 1 FOR GENERAL NOTES

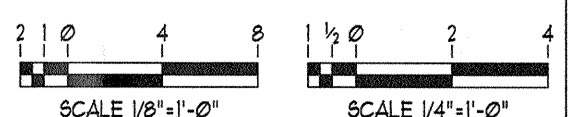
RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Lee's Summit Fire Department
Lee's Summit, Missouri
05/03/2024



FIRE SPRINKLER EAST

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

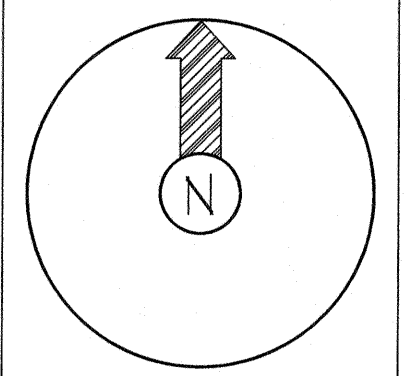


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ADVANTAGE FIRE PROTECTION SYSTEMS, INC.

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

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



CONSTRUCTION:
INSULATED METAL DECK ROOF ON STEEL BEAMS 4 BAR JOIST @ 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 OR 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 @ 10:30AM
HYDRANTS 014-011 AND 014-013

4-15-2024	SYSTEM NOW INCLUDES 3PM SAFETY
DATE	REVISION

Symbol	Description
○	Hydraulic Reference Points
⊖	Elev. Below Top of Steel
⊕	Elev. Above Finished Floor
⊕	Elev. of Top of Steel
⊕	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
⊗	78	3/4"	3/4"	RELIABLE	SR	BRASS	UPRIGHT GFR VELO ECHO	72°	14	R6953
◀	10	1/2"	1/2"	VKING	QR	BRASS	HOR SIDEWALL	220°	5.6	VC325