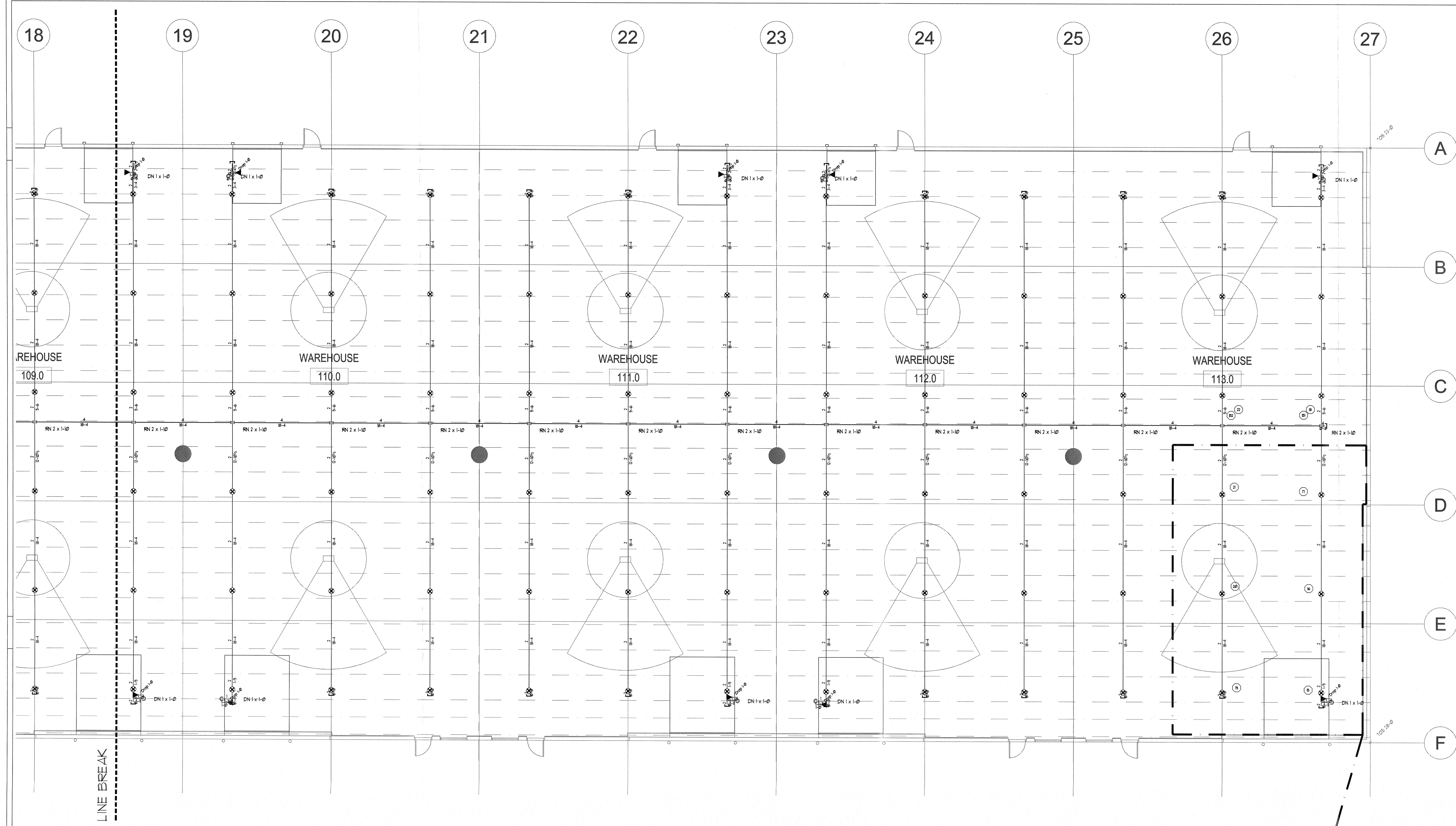




SYSTEM DESIGN SUMMARY
CALCULATED AREA: AREA 9
OCCUPANCY: WAREHOUSE
HAZARD: QCS
AREA / SPRINKLER: 400
DENSITY: 0.20 GPM / SQFT (MAX)
AREA OF OPERATION: 1600 SQFT
NUMBER OF OPERATING HEADS: 6
SYSTEM DEMAND: 145.164 GPM @ 88.6 PSI
+ 1.5 PSI
INSIDE HOSE DEMAND: N/A GPM
OUTSIDE HOSE DEMAND: 250 GPM
SPRINKLER HEAD RELIABLE GPM VELO ECHN R6563
ORifice: 3/4"
K-FACTOR: 14
TEMPERATURE: 22"
NOTE:
CALCULATION DATA FILE:

*SEE PAGE 1 FOR GENERAL NOTES

CONSTRUCTION:
INSULATED METAL DECK ROOF ON STEEL BEAMS 4 BAR JOIST 4 ELEV. AS NOTED ON PLAN
PIPE TYPE:
SCHEDULE 40 AND SMALLER TO BE SCH. 40 PIPE WELDED 1" AND LARGER TO BE SCH. 40 PIPE
DESIGN CRITERIA:
PER NFPA 13, ORDINARY HAZARD OR II, 0.20 GPM/SQFT FOR 1600 SQFT, OPERATING
MAX 130 SOFTHEAD SPACINGS + 250 GPM FOR HOSE ALLOWANCE

FLOW TEST DATA:	
STATIC:	105 PSI
RESIDUAL:	76 PSI
W:	2500 GPM
CONDUCTED BY:	1.5 WATER
ON:	8-10-2023 10:20AM
HYDRANTS:	014-011 AND 014-013

DATE	REVISION

Symbols	
Symbol	Description
○	Hydraulic Reference Points
⊖	Elev. Below Top of Steel
⊕	Elev. Above Finished Floor
+ rctd 0'-0"	Elev. of Top of Steel
(C-0)	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-
⊖	18	3/4"	3/4"	RELIABLE	SR	BRASS	UPRIGHT GPR VELO ECHN	22"	14
⊕	10	1/2"	1/2"	YKING	GR	BRASS	HOR SIDEWALL	220"	5.6

NOTICE OF NONRESPONSIBILITY
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FIRE SPRINKLER EAST

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

REVIEWING AUTHORITY
LS FIRE DEPT.
HEADS THIS SHEET
28
TOTAL HEADS FOR JOB
260
SCALE
1/8" = 1'-0"

DANIEL LOGSTON
REVISION DATE
4-4-2024
DATE DRAWN
1-16-2024
CONTRACT NUMBER
J-2351
DRAWING NUMBER
4 OF 4

ADVANTAGE
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