Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 04/21/16

FIRE SPRINKLER PLAN – BUILDING "A"

SCALE: 1/8"=1'-0"
AREA PROTECTED: 4757 SQ.FT.
FINISH FLOOR ELEVATION : 112.33'
COLOR CODE:

Sprinkler Head Schedule

Symbol	Count	Thread	K-Factor	Description	Note
⊘	50	3/4"	8.0	200° RELIABLE F1FR 3/4" K=8.0 BRASS UPRIGHT R3622	on Sprig
50 = Total Number of Heads This Building					

HYDRAULIC–SYSTEM

THIS BUILDING IS PROTECTED BY A HYDRAULICALLY DESIGNED AUTOMATIC SPRINKLER SYSTEM.

LOCATION: BUILDING A
No. OF SPRINKLERS: 10 (CALCULATED)
BASIS OF DESIGN:
1. DENSITY (GPM/SQ.FT.) .2
2. DESIGNED AREA OF DISCHARGE (sq.ft.) 1086
SYSTEM DEMAND:
1. WATER FLOW RATE (GPM) 251.2
2. RESIDUAL PRESSURE AT THE BASE OF THE RISER 54.5 (PSI)

HYDRAULIC DATA NAMEPLATE

TO BE MOUNTED AT SYSTEM RISER

HANGER DETAILS

NOT TO SCALE

ALL HANGERS TO BE PROVIDED AND INSTALLED AS PER NFPA # 13
3/8" ROD FOR 1" TO 4" PIPE
1/2" ROD FOR 5" TO 8" PIPE

NOTE: BEAM CLAMP TO BE ATTACHED TO ANGLE OF STEEL JOIST AND/OR BEAM FLANGES

BRASS UPRIGHT ON SPRIG-UP
SYMBOL = ⊘

SPRINKLER HEAD DETAILS

NOT TO SCALE

HYDRAULIC–SYSTEM

THIS BUILDING IS PROTECTED BY A HYDRAULICALLY DESIGNED AUTOMATIC SPRINKLER SYSTEM.

LOCATION: BUILDING B
No. OF SPRINKLERS: 10 (CALCULATED)
BASIS OF DESIGN:
1. DENSITY (GPM/SQ.FT.) .2
2. DESIGNED AREA OF DISCHARGE (sq.ft.) 1040
SYSTEM DEMAND:
1. WATER FLOW RATE (GPM) 293
2. RESIDUAL PRESSURE AT THE BASE OF THE RISER 73.3 (PSI)

HYDRAULIC DATA NAMEPLATE

TO BE MOUNTED AT SYSTEM RISER

FIRE SPRINKLER PLAN – BUILDING "B"

SCALE: 1/8"=1'-0"
AREA PROTECTED: 8068 SQ.FT.
FINISH FLOOR ELEVATION : 112.0'
COLOR CODE:

Sprinkler Head Schedule

Symbol	Count	Thread	K-Factor	Description	Note
⊘	77	3/4"	8.0	200° RELIABLE F1FR 3/4" K=8.0 BRASS UPRIGHT R3622	on Sprig
77 = Total Number of Heads This Building					

VALVE RISER DETAIL "A"

NOT TO SCALE

LEGEND

1. 2½" GROOVED BUTTERFLY VALVE WITH TAMPER SWITCH
2. 2½" AMES COLT C200BFG BACKFLOW PREVENTER
3. 2½" POTTER FLOW SWITCH MODEL VSR-F (WIRED TO BUILDING ALARM SYSTEM)
4. WATER PRESSURE GAGE
5. 1¼" TEST-N-DRAIN VALVE PIPED TO EXTERIOR
6. 2½" GROOVED CHECK VALVE (SEE BLDG. "A" FLOOR PLAN)
7. ½" AUTO BALL DRIP AT BOTTOM (SEE BLDG. "A" FLOOR PLAN)
8. 4"x2½"x2½" SIAMESE FIRE DEPT. CONNECTION (SEE BLDG. "A" FLOOR PLAN)
9. 1¼" TEST & MAIN DRAIN OUTLET (SEE BLDG. "A" FLOOR PLAN)
10. SPARE SPRINKLER HEAD BOX

ALL ELECTRICAL WIRING BY OTHERS

VALVE RISER DETAIL "B"

NOT TO SCALE

LEGEND

1. 2½" GROOVED BUTTERFLY VALVE WITH TAMPER SWITCH
2. 2½" AMES COLT C200BFG BACKFLOW PREVENTER
3. 2½" POTTER FLOW SWITCH MODEL VSR-F (WIRED TO BUILDING ALARM SYSTEM)
4. WATER PRESSURE GAGE
5. 1¼" TEST-N-DRAIN VALVE PIPED TO EXTERIOR
6. 2½" GROOVED CHECK VALVE
7. ½" AUTO BALL DRIP AT BOTTOM
8. 4"x2½"x2½" SIAMESE FIRE DEPT. CONNECTION (SEE BLDG. "B" FLOOR PLAN)
9. 1¼" TEST & MAIN DRAIN OUTLET (SEE BLDG. "B" FLOOR PLAN)
10. SPARE SPRINKLER HEAD BOX

ALL ELECTRICAL WIRING BY OTHERS

WATER DATA

STATIC : 106 PSI
RESIDUAL: 80 PSI
FLOW : 978 GPM
ELEVATION: 110.0'
DATE: 9/13/2011
TIME: N/A

INFORMATION PROVIDED BY : PORTLAND WATER DISTRICT

NOTE: UNDERGROUND TO BE INSTALLED, TESTED AND FLUSHED BY OTHERS IN ACCORDANCE WITH NFPA # 24 (ALL UNDERGROUND PIPING TO BE DONE BY OTHERS).
EASTERN FIRE PROTECTION CO. TO START @ FLANGE INSIDE BUILDING (INSTALLED BY OTHERS).

PLOT PLAN

SCALE: N.T.S.

0 1" 2" 3"
0 8' 16' 24'
1/8"=1'-0"GRAPHIC SCALE

SECTION DETAIL 'A

NOT TO SCALE

GENERAL NOTES

ALL WIRING TO BE DONE BY OTHERS

SPRINKLER SYSTEM INSTALLATION TO COMPLY WITH NFPA PAMPHLET # 13R (2007 EDITION),

ALL DIMENSIONS ARE SHOWN FOR GENERAL LOCATION OF SPRINKLER HEADS ; PIPING MAY VARY TO SUIT ACTUAL FIELD CONDITIONS.

ACOUSTICAL CEILING TILE (ACT) TO BE LISTED NON-COMBUSTIBLE WITH UL FLAME SPREAD OF LESS THAN 25.

OCCUPANCY DESCRIPTION AND CLASSIFICATION:
TENANT SPACES: MERCANTILE ORDINARY HAZARD II
MECHANICAL SPACES: ORDINARY HAZARD I

STORAGE OF CLASS I–IV COMMODITIES TO A MAXIMUM HEIGHT OF 10'

OFG INDICATES OUTSIDE FACE OF GIRT.

⬡ = INDICATES HYDRAULIC REFERENCE POINTS.

F.F. ℄ INDICATES FINISH FLOOR UP TO CENTERLINE OF PIPE.

D ℄ INDICATES DECK DOWN TO CENTERLINE OF PIPE.

GENERAL NOTES	DATE	REVISIONS	REQUIRED APPROVALS		
SPRINKLER SYSTEM INSTALLATION TO COMPLY WITH NFPA PAMPHLET # 13 (2007)			OWNER / ARCHITECT	MARGINAL WAY CENTURY TIRE	FIRE SPRINKLER PLANS & DETAILS
BRANCH LINE PIPING (1") TO BE BLACK SCHEDULE 40 JOINED BY THREADED DUCTILE IRON FITTINGS			STATE FIRE MARSHAL	MARGINAL WAY, PORTLAND, MAINE	DWG. NO. 1 OF 1
MAIN & LINE PIPING (1½"–2½") TO BE SCHEDULE # 10 BLACK WITH GROOVED ENDS & WELDED OUTLETS JOINED BY MECHANICAL COUPLINGS			PORTLAND FIRE DEPARTMENT	CONTRACT WITH: NORTHEAST EQUIPMENT AND SUPPLY	JOB NUMBER 5378-15
OWNER TO PROVIDE SUFFICIENT HEAT THROUGHOUT BUILDING TO PREVENT FREEZING OF WATER FILLED SPRINKLER PIPING AND EQUIPMENT. (MIN 40° F)			DRAWN BY WAF NICET LEVEL CERT.# 095574	EASTERN FIRE PROTECTION	SCALE AS NOTED
			CHECKED BY JWD NICET LEVEL III CERT.# 116803	AUBURN/LEWISTON INDUSTRIAL AIRPARK, AUBURN, MAINE 04210	DATE 10/29/15
			CONTRACTOR LICENSE # 101		
			CONTRACTOR RMS # 368		