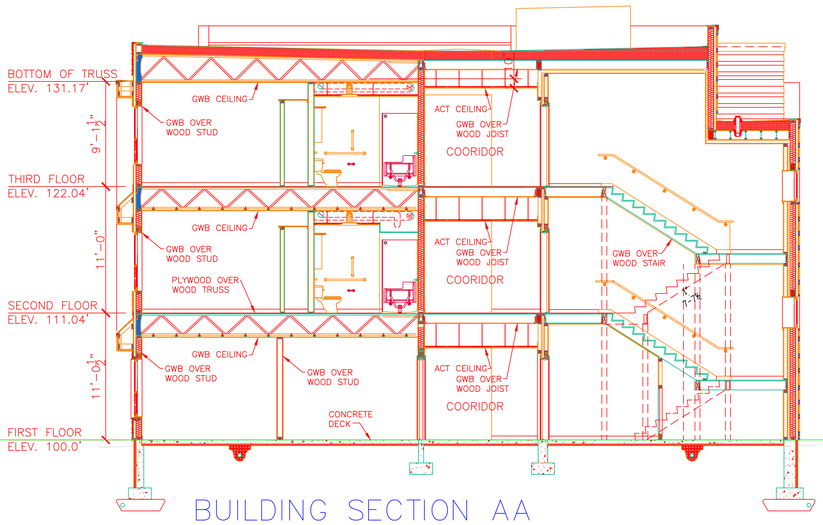
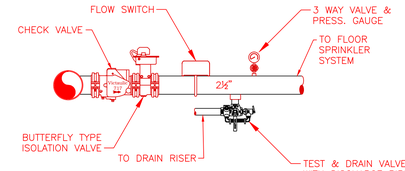


BUILDING SECTION AA

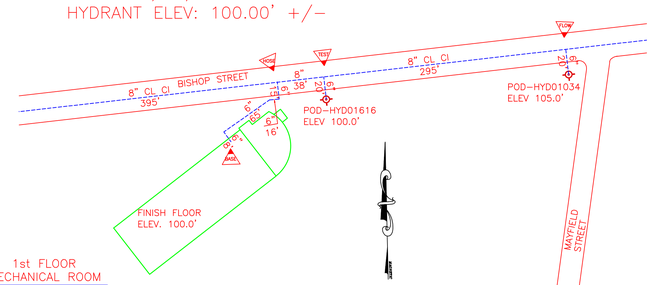
SCALE: 3/16" = 1'-0"



FLOOR ZONE CONTROL DETAIL

NOT TO SCALE

WATER DATA
STATIC 70 PSI
RESIDUAL 66 PSI
FLOW 1363 GPM
BY PORTLAND WATER DISTRICT
DATE 08/03/16 @ 11:05 AM
HYDRANT ELEV: 100.00' +/-



SITE PLAN

NOT TO SCALE

3rd FLOOR APARTMENT

HYDRAULIC DATA NAMEPLATE
This Building is protected by a hydraulically designed Automatic Sprinkler System
Location AREA-1
No. of Sprinkler 8
Basis of design
1. Density .10 gpm/ft²
2. Design area of discharge 900 ft²
System Demand
1. Water Flow Rate
@ Base 147.577 gpm
2. Residual Pressure
@ Base 52.991 psi
CUSHION = 12.156 psi

NOT MOST REMOTE

3rd FLOOR CONCEALED SPACE

HYDRAULIC DATA NAMEPLATE
This Building is protected by a hydraulically designed Automatic Sprinkler System
Location AREA-2
No. of Sprinkler 10
Basis of design
1. Density .10 gpm/ft²
2. Design area of discharge 1000 ft²
System Demand
1. Water Flow Rate
@ Base 157.504 gpm
2. Residual Pressure
@ Base 51.733 psi
CUSHION = 13.314 psi

NOT MOST REMOTE

1st FLOOR COMMON AREA

HYDRAULIC DATA NAMEPLATE
This Building is protected by a hydraulically designed Automatic Sprinkler System
Location AREA-3
No. of Sprinkler 15
Basis of design
1. Density .10 gpm/ft²
2. Design area of discharge LARGE ROOM ft²
System Demand
1. Water Flow Rate
@ Base 340.600 gpm
2. Residual Pressure
@ Base 55.048 psi
CUSHION = 7.848 psi

MOST REMOTE

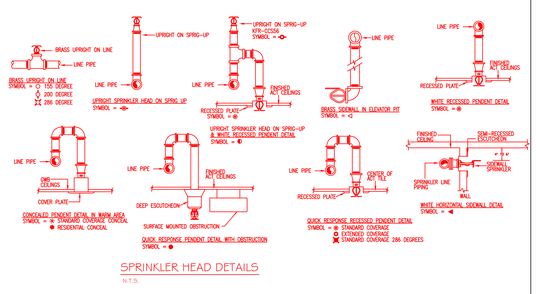
1st FLOOR MECHANICAL ROOM

HYDRAULIC DATA NAMEPLATE
This Building is protected by a hydraulically designed Automatic Sprinkler System
Location AREA-4
No. of Sprinkler 4
Basis of design
1. Density .20 gpm/ft²
2. Design area of discharge ENTIRE ft²
System Demand
1. Water Flow Rate
@ Base 74.393 gpm
2. Residual Pressure
@ Base 26.505 psi
CUSHION = 37.883 psi

NOT MOST REMOTE

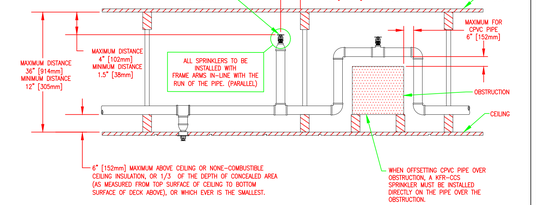
GENERAL NOTES:

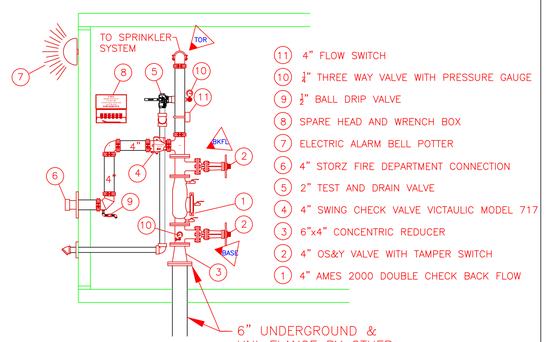
- IT IS THE BUILDING OWNERS RESPONSIBILITY TO PROVIDE ADEQUATE HEAT FOR ALL AREAS IN THE BUILDING PROTECTED BY WET SPRINKLER SYSTEMS AND FOR ALL WATER FILLED SUPPLY PIPES, VALVES AND SYSTEM RISERS IN ALL DRY PIPE SPRINKLER SYSTEMS.
- ALL NEW PIPING IS TO BE HYDROSTATICALLY TESTED AT NOT LESS THAN 200 PSI FOR 2 HOURS, OR AT 50 PSI IN EXCESS OF THE MAXIMUM PRESSURE, WHEN THE MAXIMUM PRESSURE TO BE MAINTAINED IS IN EXCESS OF 150 PSI. (PER NFPA 13)
- WHETHER OR NOT INDICATED ON DRAWINGS, THE FOLLOWING ITEMS ARE TO BE PROVIDED:
  . SPARE HEAD CABINET WITH WRENCH (NFPA 13).
  . PROVISIONS FOR FLUSHING CONNECTIONS AND DRAINING OF ALL PIPE.
  . INSPECTORS TEST CONNECTION SHALL BE PROVIDED FOR EACH SYSTEM
    A) FOR WET PIPE SYSTEMS SEE NFPA 13)
    B) FOR DRY PIPE SYSTEMS SEE NFPA 13)
  . AIR PRESSURE SHALL BE MAINTAINED ON ALL DRY PIPE SYSTEMS BY AN APPROVED AUTOMATIC AIR COMPRESSOR OR PLANT AIR SYSTEM. SPECIFICALLY APPROVED FOR AND CAPABLE OF AUTOMATICALLY MAINTAINING THE REQUIRED AIR PRESSURE.
  . WET PIPE SYSTEMS SHALL BE PROVIDED WITH A RELIEF VALVE NOT LESS THAN 1/2" IN SIZE. (NFPA 13).
- ALL PIPE 1" SHALL BE SCHEDULE 40 STEEL WITH MALLEABLE IRON FITTINGS.
- ALL PIPE 1½" AND LARGER, SHALL BE SCHEDULE 10 STEEL, WITH GROOVED COUPLINGS AND VICTAULIC" MECHANICAL FITTINGS OR EQUIVALENT.
- CPVC PIPE WILL BE USED ON THIS PROJECT. THE MAINS IN THE CORRIDORS SHALL BE SCHEDULE 10 STEEL, AND THE LINES SHALL BE CPVC.
- ALL MECHANICAL TRADES ARE TO COORDINATE THEIR WORK WITH SPRINKLER WORK AS SHOWN ON THESE PLANS.
- ALL HANGERS AND LOCATIONS ARE TO BE IN ACCORDANCE WITH N.F.P.A. 13.
- ALL SPRINKLER HEADS IN SUSPENDED CEILING TILES ARE TO BE LOCATED IN THE CENTER OF THE ACOUSTICAL CEILING PANEL.
- ALL PIPING IS TO BE PITCHED IN ACCORDANCE WITH N.F.P.A. 13.
- HYDRAULIC DATA REFERENCE POINTS: (25)
- CENTER LINE OF PIPE ABOVE FINISH FLOOR 12'-0" BELOW DECK (12")
- PROTECTIVE CAPS ARE TO REMAIN ON THE SPRINKLER HEADS UNTIL AFTER CEILINGS ARE INSTALLED.
- WHERE SURFACE MOUNTED OBSTRUCTIONS EXIST DEEP ESCUTCHEON SPRINKLER HEADS WILL BE INSTALLED.
- WORK IS LIMITED TO THE WORK SHOWN ON THESE DOCUMENTS.



SPRINKLER HEAD DETAILS

N.T.S.

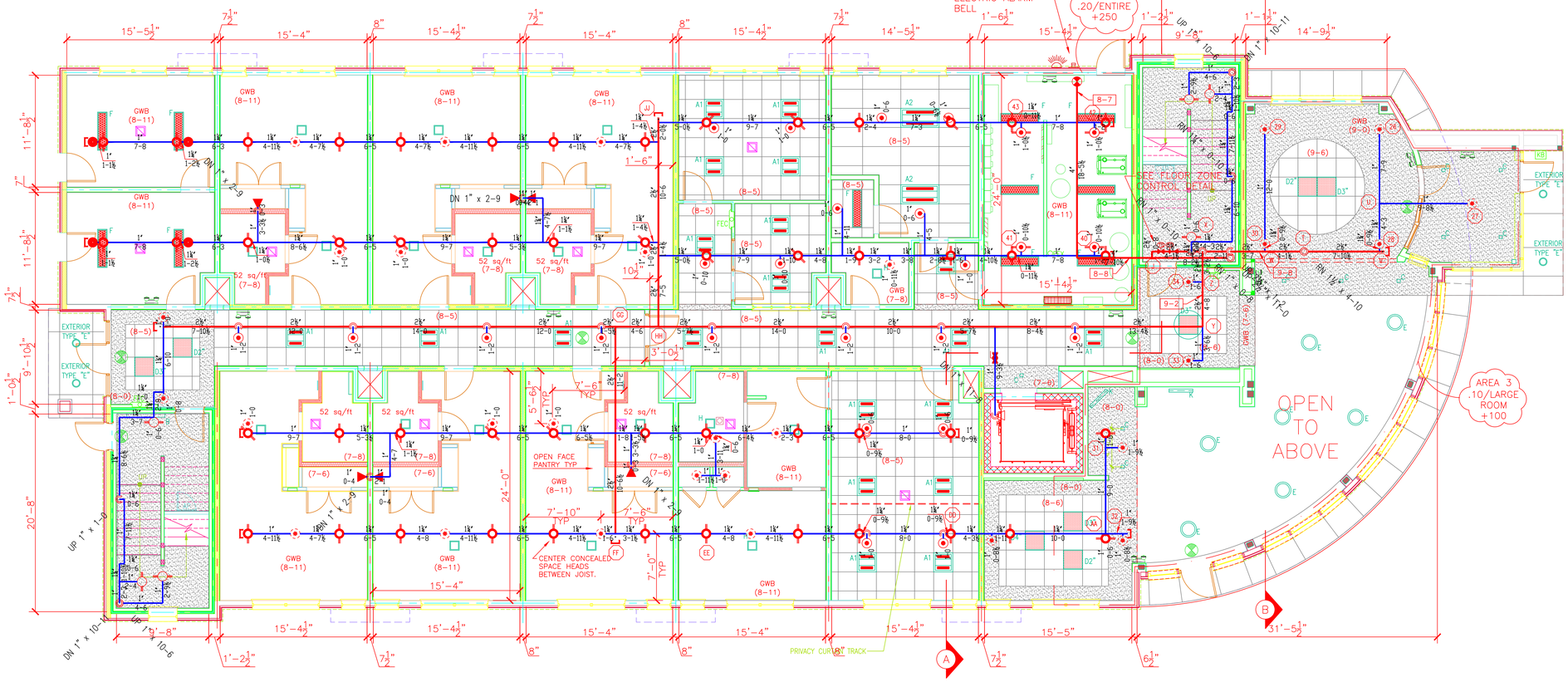




RISER DETAIL & LEGEND

NOT TO SCALE

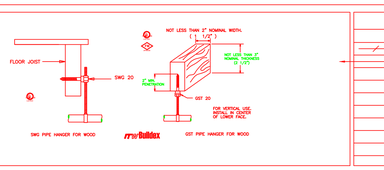
SUBMITTAL COPY



FIRST FLOOR SPRINKLER PLAN

SCALE: 3/16" = 1'-0"
FINISH FLOOR ELEV. 100.0'

1. Type of Hazard LIGHT/ORDINARY
2. Deflector Distance PER SPEC
3. Pipe Type Used BLK SCH 10/40
4. Sprinkler Area PER SPEC
5. Type of Construction NON COMBUSTIBLE
6. Maximum Spacing Allowed PER NFPA 13
7. PIPE SIZING METHOD: PIPE SCHEDULE ☐ HYDRAULICALLY CALCULATED ■
8. ALL HANGERS AND LOCATIONS TO BE IN ACCORDANCE WITH N.F.P.A. PAMPHLET NO. 13
9. HIGH DEGREE TEMPERATURE SPRINKLER HEADS TO BE INSTALLED IN ACCORDANCE WITH N.F.P.A. PAMPHLET NO. 13



HANGER DETAILS

N.T.S.

HANGERS

AS SHOWN IN DETAIL

ABBREVIATIONS

B	Bottom of Beam
BD	Bottom of Deck
P	Bottom of Pipe
HV	Hose Valve
N & C	Nipple and Cap
NIC	Not in Contract
NTS	Not to Scale
OBJ	Open Bar Joists
PRV	Pressure Red Valve
RM	Roof Manifold
SP	Standpipe
TOB	Top of Beam
TOP	Top of Pipe
TOS	Top of Steel
UON	Unless Otherwise Noted
CL	Centerline
NAS	No Automatic Sprinklers
OTA	Open to Above

CONTRACT RESPONSIBILITIES

ITEM	FPC	OTHERS
STREET CONN		●
UGD. MAIN		●
EXCAVATION		●
FLUSHING		●
WIRING		●
PAINTING		●
TAMPER SWITCHES	●	
FLOW SWITCHES	●	
STREET CONN		●

SPRINKLER HEAD LEGEND

SYMBOL	MAKE	MODEL	SIN	FINISH	TYPE	TEMP	NPT	ORIFICE	K-FACTOR	TOTAL
	RELIABLE	F1FR 56	RA1414	WHITE	SEMI-REC PENDENT SEMI-REC PENDENT	155° F	1/2"	1/2"	5.6	37
	RELIABLE	F1FR 56	RA1414	WHITE	PENDENT	200° F	1/2"	1/2"	5.6	4
	RELIABLE	F1FR 56	RA1414	WHITE	PENDENT	155° F	1/2"	1/2"	5.6	7
	RELIABLE	GS 56	RA3415	WHITE	CONCEAL	165° F	1/2"	1/2"	5.6	97
	RELIABLE	F1FR 56	RA1425	BRONZE	UPRIGHT	200° F	1/2"	1/2"	5.6	11
	RELIABLE	KFR-CCS	RA4454	BRONZE	UPRIGHT	212° F	1/2"	1/2"	5.6	153
	RELIABLE	F1FR 56	RA1435	WHITE	HORIZ SIDEWALL	155° F	1/2"	1/2"	5.6	30
	RELIABLE	F1FR 56	RA1435	BRONZE	HORIZ SIDEWALL	200° F	1/2"	1/2"	5.6	1
								TOTAL →		340

SUBMITTALS

SENT TO		DATE RECEIVED
DATE SENT 08/15/16		
I S O		
F M		
L M		
I R I		
L A		
STATE FIRE	●	
LOCAL FIRE	●	
LOCAL WATER		
OWNER	●	

LICENSE# 093 442
R.M.S.#
PERMIT # ????

SPRINKLER SYSTEMS INC.
P.O. BOX 1285
LEWISTON MAINE
04243-1285

72 BISHOP STREET APARTMENT
PORTLAND, MAINE 04101

CONTRACT WITH GREAT FALLS

SYSTEM TYPE	
WET	■
DRY	☐
DELUGE	☐
PREACTION	☐
ME. LIFE	☐
HYDRO-PRO	☐

REVISIONS			
NO.	DATE	DESCRIPTION	

SCALE AS NOTED
DRAWN BY JJP
CHECKED BY CDS
DATE 05/15/2016
TOTAL SPKRS ON JOB 340
SHEET# 1 of 3
JOB# 16049