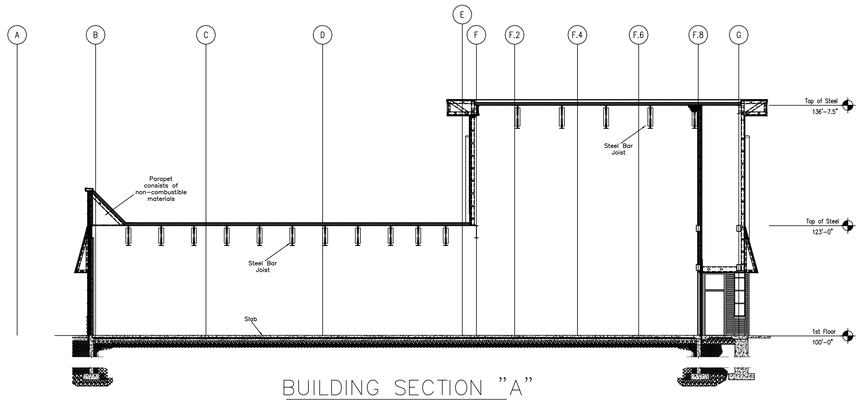
Approved for Code Compliance
Fire Prevention Officer
Date: 10/18/17




BUILDING SECTION "A"
SCALE: NTS
FINISH FLOOR ELEV. 100.0'

| HYDRAULIC DATA NAMEPLATE | |
|---|---|
| This Building is protected by a hydraulically designed Automatic Sprinkler System | |
| Location | AREA-1 |
| No. of Sprinkler | 11 |
| Basis of design | |
| 1. Density | .10 gpm/m² |
| 2. Design area of discharge | 900 m² |
| System Demand | |
| 1. Water Flow Rate | |
| @ Base/Pump | 185.224 gpm |
| 2. Residual Pressure | |
| @ Base/Pump | 41.662 psi |
| CUSHION = 54.343 psi | |

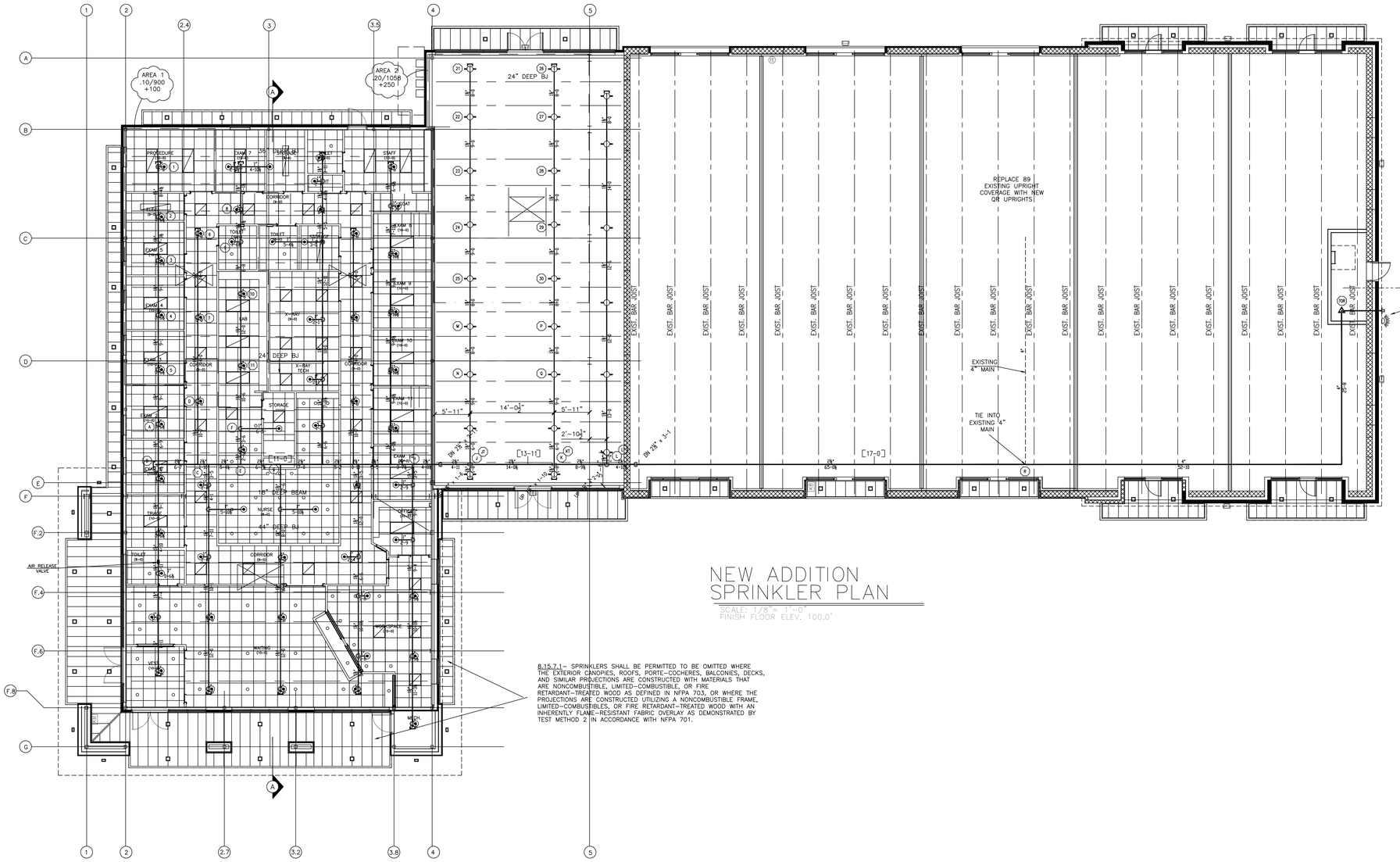
| HYDRAULIC DATA NAMEPLATE | |
|---|---|
| This Building is protected by a hydraulically designed Automatic Sprinkler System | |
| Location | AREA-2 |
| No. of Sprinkler | 10 |
| Basis of design | |
| 1. Density | .20 gpm/m² |
| 2. Design area of discharge | 1058 m² |
| System Demand | |
| 1. Water Flow Rate | |
| @ Base/Pump | 262.677 gpm |
| 2. Residual Pressure | |
| @ Base/Pump | 78.936 psi |
| CUSHION = 15.955 psi | |

MOST REMOTE

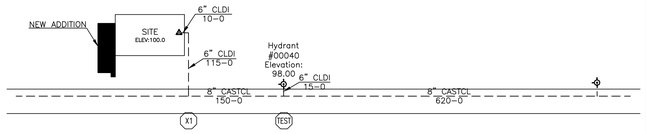
## GENERAL NOTES:

- 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 1 1/4" AND LARGER, SHALL BE SCHEDULE 10 STEEL, WITH GROOVED COUPLINGS AND VICTAULIC" MECHANICAL FITTINGS OR EQUIVALENT.
- 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 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.
- THE SCOPE OF WORK UNDER THIS CONTRACT IS TO DESIGN AND INSTALL A WET SPRINKLER SYSTEM PER NFPA 13.

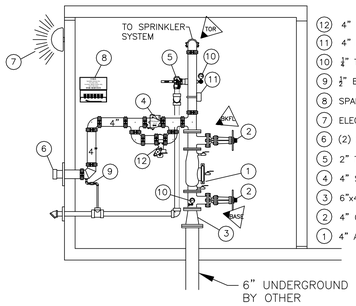
WATER DATA
STATIC 98 PSI
RESIDUAL 92 PSI
FLOW 1528 GPM
BY PORTLAND WATER DISTRICT
DATE 5/31/16
HYDRANT ELEV: 98.00' +/-




NEW ADDITION
SPRINKLER PLAN
SCALE: 1/8" = 1'-0"
FINISH FLOOR ELEV. 100.0'




SITE PLAN
SCALE: "NTS"
FINISH FLOOR ELEV. 100.0'

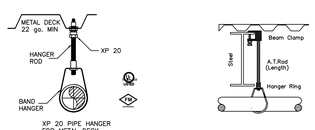



(12) 4" BUTTERFLY VALVE
(11) 4" FLOW SWITCH
(10) 1/2" THREE WAY VALVE WITH PRESSURE GAUGE
(9) 1/2" BALL DRIP VALVE
(8) SPARE HEAD AND WRENCH BOX
(7) ELECTRIC ALARM BELL POTTER
(6) (2) 2 1/2" FIRE DEPARTMENT CONNECTION ON A SINGLE BACK PLATE
(5) 2" TEST AND DRAIN VALVE
(4) 4" SWING CHECK VALVE VICTAULIC MODEL 717
(3) 6"x4" CONCENTRIC REDUCER
(2) 4" OS&Y VALVE WITH TAMPER SWITCH
(1) 4" AMES 2000 DOUBLE CHECK BACK FLOW

RISER DETAIL & LEGEND
NOT TO SCALE

SUBMITTAL COPY

1. Type of Hazard OH2/LIGHT
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




XP 20 PIPE HANGER FOR METAL DECK

HANGER DETAILS
N.T.S.

| HANGERS | |
|---|---|
| | AS SHOWN IN DETAIL |

| ABBREVIATIONS | |
|---|---|
| B | Bottom of Beam |
| D | Bottom of Deck |
| P | Bottom of Pipe |
| HV | Hose Valve |
| N & C | Nipple and Cap |
| NC | 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 | RA1425 | BRONZE | UPRIGHT | 200° F | 1/2" | 1/2" | 5.6 | 24 |
| | RELIABLE | F1FR 56 | RA1414 | WHITE | SEMI-RECESSED PENDENT | 155° F | 1/2" | 1/2" | 5.6 | 58 |
| | | | | | | | | | TOTAL → | 79 |

| SUBMITTALS | | |
|---|---|---|
| SENT TO | | |
| DATE SENT 03/30/12 | | DATE RECEIVED |
| I S O | | |
| F M | | |
| L M | | |
| I R I | | |
| L A | | |
| STATE FIRE | ● | |
| LOCAL FIRE | ● | |
| LOCAL WATER | | |
| OWNER | ● | |

LICENSE# 093
R.M.S.# 278
PERMIT # ????

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

# 191 MARGINAL WAY RETAIL
191 MARGINAL WAY
PORTLAND, ME 04101

CONTRACT WITH LANDRY/FRENCH CONSTRUCTION

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

| REVISIONS | | |
|---|---|---|
| NO. | DATE | DESCRIPTION |
| | | |

| | |
|---|---|
| SCALE | AS NOTED |
| DRAWN BY | RDO |
| CHECKED BY | SEG |
| DATE | 7/31/2017 |
| TOTAL SPKRS ON JOB | 82 |
| SHEET# | 1 of 1 |
| JOB# | 17082 |