Date: 06/17/15

WHARF STREET LEVEL

SCALE - 3/16"=1'-0"
TOTAL PROTECTED AREA = 1,850 SQFT

DESIGN AREA NUMBER 4

HYDRAULIC DESIGN CRITERIA
LOCATION= SECOND LEVEL TYPE OF SYSTEM=NFPA 13 WET AREA OF OPERATION= 1000-SQFT. NUMBER OF SPRINKLERS=15 DENSITY=.1 W/ HOSE DEMAND OF 100 GPM HAZARD CLASS=LIGHT HAZARD HEAD SPACING= 144 SQFT.
SYSTEM DEMAND INCLUDING HOSE @ BASE OF RISER= 394-GPM 96-PSI SAFETY MARGIN= 5-PSI

DESIGN AREA NUMBER 3

HYDRAULIC DESIGN CRITERIA
LOCATION= WHARF STREET LEVEL TYPE OF SYSTEM=NFPA 13 WET AREA OF OPERATION= 930-SQFT. NUMBER OF SPRINKLERS=11 DENSITY=.2 W/ HOSE DEMAND OF 250 GPM HAZARD CLASS=ORDINARY HAZARD HEAD SPACING= 100 SQFT.
SYSTEM DEMAND INCLUDING HOSE @ BASE OF RISER= 538-GPM 86-PSI SAFETY MARGIN= 5-PSI

SECOND FLOOR

SCALE - 3/16"=1'-0"
TOTAL PROTECTED AREA = 1,850 SQFT

PROJECT DESCRIPTION

BUILDING CONST:

THE BUILDING IS 4 LEVELS + LOFT + BASEMENT
CONSTRUCTED OF WOOD FRAMING, FIBERGLASS
INSULATION, AND GYP BOARD CONSTRUCTION.
STEEL PIPING ON ALL FLOORS

BUILDING OCCUPANCY:

THE BASEMENT WAS BUILT & DESIGNED FOR STORAGE
WHARF STREET FLOOR WAS BUILT AND DESIGNED FOR
RETAIL AND MERCANTILE SPACE
FORE STREET FLOOR WAS BUILT AND DESIGNED FOR
BAR AND RESTAURANT SPACE
SECOND FLOOR DESIGNED AND BUILT HALF
BAR AND HALF RESIDENTIAL SPACES
THIRD FLOOR AND LOFTS ARE DESIGNED AND BUILT
AS RESIDENTIAL SPACE ONLY

SPRINKLER SYSTEM DESIGN:

THIS IS A WET SYSTEM THROUGHOUT
THE SPRINKLER SYSTEM WAS DESIGNED TO MEET ALL APPLICABLE
CODES REGARDING NFPA 13 2010ed. SYSTEM.

MAIN DRAIN DETAIL

SCALE = N. T. S.

TEST HYDRANT #HYD00415
ELEVATION: 3' TO SLAB
STATIC: 101 PSI
RESIDUAL: 59 PSI
FLOW: 1342 GPM
DATE: 05-11-2013
SOURCE: PORTLAND WATER DISTRICT

BASEMENT LEVEL

SCALE - 3/16"=1'-0"
TOTAL PROTECTED AREA = 1,900 SQFT

FORE STREET LEVEL

SCALE- 3/16"=1'-0"
TOTAL PROTECTED AREA = 1,8505QFT

SPRINKLER SYSTEM COMPONENT DESCRIPTIONS

1. 2 1/2" SUPPLY (EXISTING)
2. WATER PRESSURE GAUGE
3. AMES200 BACK FLOW PREVENTER (EXISTING)
4. FLOW SWITCH
5. 2 1/2" FEED TO EXSISTING SYSTEM (EXISTING)
6. 2 1/2 SWING CHECK VALVE
7. 2 1/2" BUTTERFLY VALVE
8. 2 1/2" FEED TO NEW SYSTEM
9. CUT IN TEE FOR 416/420 FORE STREET

RISER DETAIL

SCALE = N.T.S.

HIGH TECH FIRE PROTECTION
P.O. BOX 156
MINOT, ME. 04258-0258
TEL:(207) 998-2551 FAX:(207) 998-4187
MAINE LICENSE # 102

GENERAL CONTRACTOR ON RECORD:
LANDRY & FRENCH
RANDY MARTIN
219-0680

SPECIAL APPLICATIONS:

NO.	DESCRIPTION:
1.	FIRE CAULK WALL PENETRATION WHERE REQUIRED TO MEET BUILDING SPECIFIC RATINGS.

LEGEND:

- RN PIPE RISER UP
- DN PIPE RISER DOWN
- PROPOSED STEEL
- SYSTEM RISER
- HYDRAULIC CALC. POINT

DESIGN NOTES:

ALL PIPING 1 1/2" & LARGER TO BE SCHEDULE 10 WITH GROOVED FITTINGS.

ALL PIPING 1 1/4" & SMALLER TO BE SCHEDULE 40 WITH APPROPRIATE FITTING.

POSITION, LOCATION, SPACING, AND USE OF SPRINKLERS SHALL BE IN ACCORDANCE WITH NFPA 13.

POSITION, LOCATION, SPACING, AND USE OF HANGERS SHALL BE IN ACCORDANCE WITH NFPA 13.

HYDRAULIC CALCULATION PROCEDURES HAVE BEEN DONE IN ACCORDANCE WITH NFPA 13. (SEE PLANS FOR LOCATION OF REMOTE AREAS, HYDRAULIC REFERENCE POINTS, AND SYSTEM DEMANDS.)

HIGH TECH FIRE PROTECTION IS TO BEGIN WORK AT 2 1/2" EXISTING FEED INSIDE OF BUILDING.

DIMENSIONS AND LOCATIONS GIVEN FOR SPRINKLER HEADS AND PIPE MAY VARY TO ACCOMMODATE ACTUAL FIELD CONDITIONS.

OWNER TO PROVIDE ADEQUATE HEAT THROUGHOUT BUILDING TO PREVENT WATER FILLED PIPING AND EQUIPMENT FROM FREEZING TEMPERATURES.

ALL MECHANICAL, ELECTRICAL AND PLUMBING TRADES TO COORDINATE THEIR WORK WITH SPRINKLER CONTRACTOR.

ALL ELECTRIC WORK IS TO BE DONE BY OTHERS.

HEAD LEGEND:

GLOBE
MODEL GL5601
93 /155°
K=5.6
1/2" WHITE PENDENT
MAX SPACING 10X12

GLOBE
MODEL GL5615
5 /200°
K=5.6
1/2" BRASS UPRIGHT
DEFLECTORS 1" TO 12" BELOW
NON-COMBUSTIBLE CEILINGS
12X12 MAX SPACING

GLOBE
MODEL GL5641
2 /200°
K=5.6
1" DRY HORIZONTAL SIDEWALL
DEFLECTORS 4" TO 6" BELOW
NON-COMBUSTIBLE CEILINGS
12X12 MAX SPACING

GLOBE
MODEL GL5626
4 /155°
K=5.6
1/2" HORIZONTAL SIDEWALL
DEFLECTORS 4" TO 6" BELOW
NON-COMBUSTIBLE CEILINGS
14X14 MAX SPACING

GLOBE
MODEL GL5635
1 /155°
K=5.6
1/2" WHITE PENDENT
MAX SPACING 12X12

OR APPROVED EQUAL

TOTAL HEADS ON THIS SHEET 105

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

REVISIONS:
NO. DATE: DESCRIPTION:

DATE: MAY 22, 2015
DESIGNER: ED PENNELL
CHECKED BY: E.POULIN / J.FOSS
NICET LEVEL: RMS808 III 126801

LOCATION:
420 FORE STREET
PORTLAND, ME

DRAWING TITLE:
420 FORE STREET
BASEMENT THROUGH
SECOND FLOOR

FIRE PROTECTION PLAN
(NFPA 13 2010ed.)

DRAWING NO.:
FP-01