DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT



This is to certify that
HIGH TECH FIRE PROTECTION CO, INC.
PO BOX 156
MINOT, ME 04258

For installation at 18 LUTHER ST LOT 15

Job ID: 2012-11-5416-FAFS

CBL: 087- Z-015-001

has permission to install NFPA 13D sprinkler system

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statues of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise closed-in. 48 HOUR NOTICE IS REQUIRED. A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be

Fire Prevention Officer

Code Enforcement Officer / Plan Reviewer

THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY PENALTY FOR REMOVING THIS CARD

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- Please read the conditions of approval that is attached to this permit!! Contact this
 office if you have any questions.
- Permits expire in 6 months. If the project is not started or ceases for 6 months.
- If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.

Final Fire

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.



PORTLAND MAINE

Strengthening a Remarkable City, Building a Community for Life . www.portlandmaine.gov

Director of Planning and Urban Development Jeff Levine

Job ID: 2012-11-5416-FAFS install NFPA 13D sprinkler system

For installation at: 18 LUTHER ST LOT 15

CBL: 087- Z-015-001

Conditions of Approval:

Fire

- 1. The sprinkler system shall be installed in accordance with NFPA 13D.
- 2. All control valves shall be supervised in accordance with NFPA 13D. Pad locks shall only be installed on valves designed to be secured in the open position by pad lock.
- 3. A copy of the required state sprinkler permit with RMS signoff shall be provided prior to the final inspection.

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, FAX: (207) 8716

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE

Job No:	Date Applied:		CBL:		1	
2012-11-5416-FAFS	11/16/2012		087- Z-015-001	L		
Location of Construction:	Owner Name:		Owner Address:		1	Phone:
26 LUTHER ST – LOT 15	Volunteers of Amer	ica –	14 MAINE STRE			
PEAKS ISLAND	Northern New England		BRUNSWICK, N	ME 04011		
Business Name:	Contractor Name:		Contractor Addr			Phone:
	HIGH TECH FIRE		84 HACKETT N			998-2551
	PROTECTION		POLAND, ME	04274		
Lessee/Buyer's Name:	Phone:		Permit Type:			Zone:
			Fire SUPPRESSI	ON		C-55
					· · · · · · · · · · · · · · · · · · ·	
Past Use:	Proposed Use:		Cost of Work:			CEO District:
New Single Family	Same: Single Family	Dwelling	\$6,000.00		4	7
Dwelling	to install a fire suppre		Fire Dept:	Approved	of conditions	Inspection: Use Group:
	system		12/2/13	Denied		Type:
			Signature:	ander). (58)	Signature:
Proposed Project Description	1:		Pedestrian Activ	ities District (P.A	.D.)	
water based fire suppressi	ion, lot #15					
mater basea me suppress	,					
Permit Taken By: Gayle				Zoning Appr	oval	
			one or Reviews	Zoning Appra		reservation
Permit Taken By: Gayle 1. This permit application of	loes not preclude the	Shorelan	nd	Zoning Appea	Historic P	
Permit Taken By: Gayle 1. This permit application of Applicant(s) from meeting	loes not preclude the	Shoreland Wetland	nd s one	Zoning Appea Variance Miscellaneous	Historic Pi Not in Di Does not	st or Landmark Require Review
Permit Taken By: Gayle 1. This permit application of Applicant(s) from meeting Federal Rules.	loes not preclude the ng applicable State and	Shoreland Wetland Flood Zo Subdivis	ad s one ion	Zoning Appea Variance Miscellaneous Conditional Us	Not in Dia Does not Requires	st or Landmark Require Review Review
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Permit Taken By: Gayle 1. This permit application of Applicant(s) from meetin Federal Rules. 2. Building Permits do not septic or electrial work. 3. Building permits are voic within six (6) months of	does not preclude the ng applicable State and include plumbing, d if work is not started the date of issuance.	Shoreland Wetland Flood Zo Subdivis Site Plan	nd s one cion	Zoning Appea Variance Miscellaneous Conditional Us Interpretation Approved Denied	Not in Di Does not Requires Approved Approved	st or Landmark Require Review Review I
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DATE

PHONE

2012 11 54/6 By Mail

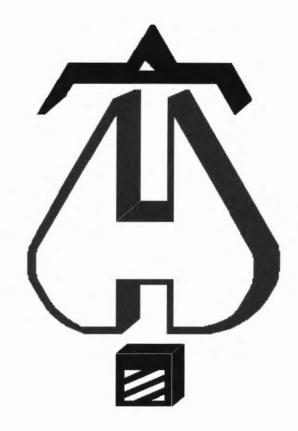


Water-Based Fire Suppression System Permit

If you or the property owner owes real estate or property taxes or user charges on any property within the city, payment arrangements must be made before permits of any kind are accepted.

LoT15

Installation address: 26 Luther Street - Peaks Island	CBL: 087 7 015
Exact location: (within structure) Entire Structure	C'-55
Type of occupancy(s) (NFPA & ICC): Single Family Resident	ial
Building owner: Volunteers of America - Northern New E	England - 14 Mans St Ste 3
Managing Supervisor (RMS): Jeremy A Foss	License No: 808 Sunswell, W
Supervisor phone: (207) 998-2551	E-mail: JFoss@fairpoint.net 64 0
Installing contractor: High Tech Fire Protection	License No: 102
Contractor phone: (207) 998-2551	E-mail: HTFP@fairpoint.net
The suppression work to be done will be: New: Renova	tion: Addition to existing system:
This is an amendment to an existing permit: Yes: NO	Permit no:
NFPA Standard this system is designed to: 13D	Edition: 2010
*Non-NFPA systems are not approved for use within the City of Portland.	COST OF WORK: \$6,000
Download a new copy of this document from	PERMIT FEE: \$80
www.portlandmaine.gov/fire for every submittal. Attach all working	(\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000)
documents and complete approved submittals as may be required by	
the State Fire Marshal's Office on electronic PDF's in addition to	
full sized plans.	RECEIVED
Contractor shall verify location and type of all FDCs shall	NOV 10 2012
be approved in writing by the Fire Prevention Bureau.	Cent of a
Submit all information to the Building Inspections Department, 389 Cong	City of Portland, Maine Maine Rest Street, Room 315, Portland, Maine Maine
Prior to acceptance of any fire protection system, a complete commissi	ioning and acceptance test must be coordinated with
all fire system contractors and the Fire Department, and proper document	entation of such test(s) provided.
All installation(s) must comply with NFPA and the Fire Department T	echnical Standard(s).
Applicant signature:	Date: 10/02/2012



. . . Fire Protection by Computer Design

HIGH TECH FIRE PROTECTION 84 HACKETT MILLS ROAD POLAND, ME 04274 998-2551

Job Name : Second Floor Calc.

Building : Lot #15 Homestart Colonial Location : 26 Luther Street - Peaks Island

System : NFPA 13D Contract : 021312-3

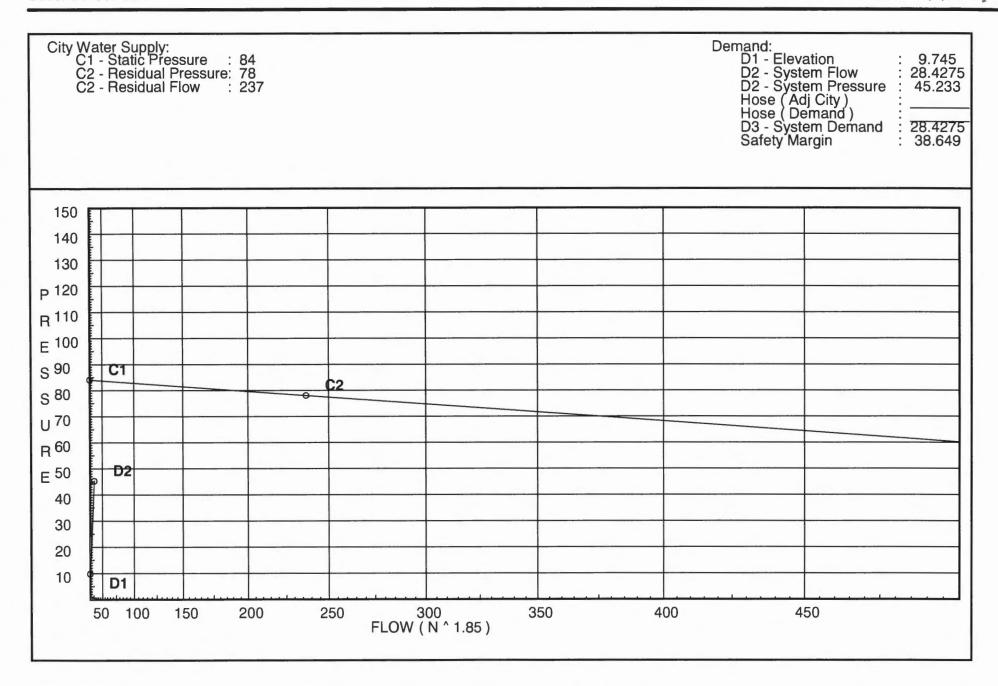
Data File : Second Floor Calc.wxf

Y

HYDRAULIC DESIGN INFORMATION SHEET

Date - 10/02/2012 Name - Second Floor Bedroom Calc. Location - 26 Luther Street - Peaks Island Building - Lot #15 Homestart Colonial System No. - NFPA 13D Contractor - High Tech Fire Protection Contract No. - 021312-3 Calculated By - Jeremy A Foss Drawing No. - FP-1.1 () Non-Combustible Ceiling Height 8'-0" Construction: (X) Combustible OCCUPANCY - Single Family Residential (X)NFPA 13D S Type of Calculation: ()NFPA 13 Residential ()NFPA 13R ()4 () Y Number of Sprinklers Flowing: ()1 (X)2 ()Other S ()Specific Ruling Т Made by Date Ε Listed Flow at Start Point - 14 System Type M Listed Pres. at Start Point - 10.2 Psi (X) Wet () Dry MAXIMUM LISTED SPACING 14' x 14' () Deluge () PreAction D Domestic Flow Added - 0 Gpm Sprinkler or Nozzle E Additional Flow Added Model F1 Res 44 - 0 Make Reliable S Gpm Elevation at Highest Outlet - 22.5 Feet Size 1/2" K-Factor 4.4 Ι Temperature Rating 155 G N Psi Required 46 At Test Calculation Gpm Required 29 Underground 140 C-Factor Used: Overhead 150 Summary Pump Data: Tank or Reservoir: W Water Flow Test: - 08/19/2004 Cap. Date of Test Rated Cap. A Time of Test @ Psi Elev. Т - 84 Elev. Ε Static (Psi) Well Residual (Psi) - 78 R Other - 237 Proof Flow Gpm Flow (Gpm) - 0 S Elevation Location: Test Hydrant Located at Corner of Island and Church Avenues Ρ P Source of Information: Portland Water District L

Date 10/2/2012



Fittings Used Summary

CPVC Tee-Branch

Generic Flow Switch

90' Flow Thru Tee

Wilkins 950XL

CPVC 90'Ell Harvel-Spears

	nd Floor Calc.	IION																	age (10/2/2012		
	Legend . Name	1/2	3/4	1_	11/4	11/2	2	21/2	3	3½	4	5	6	8	10	12	14	16	18	20	24	
E G	90' Standard Elbow Generic Gate Valve	2	2	2	3 1	4	5 1	6	7 1	8	10 2	12 2	14	18 4	22 5	27 6	35 7	40 8	45 10	50 11	61 13	

13

15

15

0

17

0

20

25

30

35

18

50

60

27

71

0

121

101

50

0

91

45

81

11

10

10

5

3

Fitting generates a Fixed Loss Based on Flow

4

12

12

12

Units Summary

N *

0 *

Т

Z

Zik

Inches Diameter Units Length Units Feet

Flow Units US Gallons per Minute Pounds per Square Inch Pressure Units

7 7

3 3

2 2

Note: Fitting Legend provides equivalent pipe lengths for fittings types of various diameters. Equivalent lengths shown are standard for actual diameters of Sched 40 pipe and CFactors of 120 except as noted with *. The fittings marked with a * show equivalent lengths values supplied by manufacturers based on specific pipe diameters and CFactors and they require no adjustment. All values for fittings not marked with a * will be adjusted in the calculation for CFactors of other than 120 and diameters other than Sched 40 per NFPA.

Pressure / Flow Summary - STANDARD

HIGH TECH FIRE PROTECTION Second Floor Calc.

Page 4 Date 10/2/2012

Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
201	22.5	4.4	10.2	na	14.05	0.05	196	10.2
A1	14.5		14.2	na				
A2	14.5		14.67	na				
A3	13.5		15.39	na				
A4	13.5		15.92	na				
202	22.5	4.4	10.67	na	14.38	0.05	196	10.2
A5	14.5		14.69	na				
A6	14.5		14.99	na				
A7	13.5		15.72	na				
A8	13.5		16.23	na				
A9	13.5		18.56	na				
A10	4.5		24.13	na				
TOR	4.5		29.17	na				
BOR	1.0		32.56	na				
BASE	1.0		43.89	na				
H1	3.0		43.91	na				
H2	-1.0		45.65	na				
H3	-11.0		49.99	na				
H4	0.0		45.23	na				
TEST	0.0		45.23	na				

The maximum velocity is 10.55 and it occurs in the pipe between nodes A10 and TOR

Page 5 Date 10/2/2012

Hyd. Ref.	Qa Dia. "C"	Fitting or	Pipe Ftng's	Pt Pe	Pt Pv	****** Notes *****
Point	Qt Pf/Ft	Eqv. Ln.	Total	Pf	Pn	
					-	
201	14.05 1.101	1N 7.0	8.000	10.200		K Factor = 4.40
to A1	150.0 14.05 0.0354	0.0 0.0	7.000 15.000	3.465 0.531		Vel = 4.73
A1	0.0 1.101	1N 7.0	1.500	14.196		VCI - 4.70
to	150.0	10 5.0	12.000	0.0		
A2	14.05 0.0354	0.0	13.500	0.478		Vel = 4.73
A2	0.0 1.101	1N 7.0	1.000	14.674		
to	150.0	0.0	7.000	0.433		
A3	14.05 0.0355	0.0	8.000	0.284		Vel = 4.73
A3	0.0 1.101	20 10.0	4.900	15.391		
to A4	150.0 14.05 0.0354	0.0 0.0	10.000 14.900	0.0 0.527		Vel = 4.73
A4	0.0 1.101	0.0	8.800	15.918		VOI = 1.70
to	150.0	0.0	0.0	0.0		
A8	14.05 0.0355	0.0	8.800	0.312		Vel = 4.73
	0.0					
	14.05			16.230		K Factor = 3.49
*P						
202	14.38 1.101	1N 7.0	8.000	10.674		K Factor = 4.40
to	150.0	0.0	7.000	3.465		Vel = 4.85
A5	14.38 0.0369	0.0	15.000	0.553		Vei = 4.65
A5 to	0.0 1.101 150.0	1N 7.0 0.0	1.000 7.000	14.692 0.0		
A6	14.38 0.0370	0.0	8.000	0.296		Vel = 4.85
A6	0.0 1.101	1N 7.0	1.000	14.988		
to	150.0	0.0	7.000	0.433		
A7	14.38 0.0370	0.0	8.000	0.296		Vel = 4.85
A7	0.0 1.101	20 10.0	3.900	15.717		
to	150.0	0.0	10.000	0.0 0.513		Vel = 4.85
A8	14.38 0.0369	0.0 2N 14.0	13.900 3.900	16.230		Vei = 4.00
A8 to	14.05 1.101 150.0	0.0	14.000	0.0		
A9	28.43 0.1304	0.0	17.900	2.334		Vel = 9.58
A9	0.0 1.101	1E 3.825	9.000	18.564		
to	150.0	0.0	3.825	3.898		
A10	28.43 0.1304	0.0	12.825	1.672		Vel = 9.58
A10	0.0 1.049	2E 4.0	16.200	24.134		
to	120.0	0.0 0.0	4.000 20.200	0.0 5.038		Vel = 10.55
TOR	28.43 0.2494		3.500	29.172		VOI - 10.00
TOR to	0.0 1.049 120.0	1Z 2.0 1E 2.0	4.000	1.516		
BOR	28.43 0.2495	0.0	7.500	1.871		Vel = 10.55

HIGH-TECH FIRE PROTECTION Second Floor Calc.

Page 6 Date 10/2/2012

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitti o Eqv	_	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	****** Notes *****
BOR to	0.0	1.049 120.0	1Zik 1E	0.0 2.0	3.000 2.000	32.559 10.086		* Fixed loss = 10.086
BASE	28.43	0.2492		0.0	5.000	1.246		Vel = 10.55
	0.0 28.43					43.891		K Factor = 4.29
*P								
BASE to	28.43	1.72 150.0	1E 1G	3.087 0.617	50.000 9.879	43.891 -0.866		
H1	28.43	0.0148	1T	6.174	59.879	0.889		Vel = 3.93
H1 to H2	0.0 28.43	8.27 140.0 0.0	1T	55.354 0.0 0.0	450.000 55.354 505.354	43.914 1.732 0.005		Vel = 0.17
H2 to H3	0.0	8.23 100.0 0.0	1E	14.92 0.0 0.0	750.000 14.920 764.920	45.651 4.331 0.012		Vel = 0.17
H3 to	0.0	12.34 140.0		0.0	360.000 0.0	49.994 -4.764		
H4	28.43	0.0	15	0.0 20.084	360.000 15.000	0.0 45.230		Vel = 0.08
H4 to TEST	0.0 28.43	6.16 140.0 0.0	1E 1G 1T	4.304 43.037	67.425 82.425	0.0 0.003		Vel = 0.31
. 201	0.0 28.43	3.0				45.233		K Factor = 4.23



PORTLAND MAINE

Strengthening a Remarkable City, Building a Community for Life . www.portlandmaine.gov

Receipts Details:

Tender Information: Check , BusinessName: HighTech Fire Protection, Check Number: 18355\$80.00

Tender Amount: 80.00

Receipt Header:

Cashier Id: gguertin

Receipt Date: 11/16/2012 Receipt Number: 50317

Receipt Details:

Referance ID:	8768	Fee Type:	BP-Constr
Receipt Number:	0	Payment	
		Date:	
Transaction	80.00	Charge	80.00
Amount:		Amount:	

Job ID: Job ID: 2012-11-5416-FAFS - water based fire suppression

Additional Comments: 26 Luther St.

Thank You for your Payment!