DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT



This is to certify that

DAWSON ERIC J & KRISTINE A DAWSON JTS/Freedom Fire Protection, Inc

PERMIT ID: 2012-65616

Located at

45 TIDE MILL RD

CBL: 212 A049001

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 clsoed-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 procured prior to occupancy.

Fire Prevention Officer

Code Enforcement Officer / Plan Reviewer

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

BUILDING PERMIT INSPECTION PROCEDURES Please call 874-8703 (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.

REQUIRED INSPECTIONS:

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.

City of Portland, Maine - B	uilding or Use Permi	t	Permit No:	Date Applied For:	CBL:					
389 Congress Street, 04101 Tel	: (207) 874-8703, Fax:	(207) 874-8716	201265616	212 A049001						
Location of Construction:	Owner Name:	0	wner Address:		Phone:					
45 TIDE MILL RD	DAWSON ERIC J &	KRISTINE A 4	5 TIDE MILL RE)	(207) 799-9025					
Business Name:	Contractor Name:	Co	ontractor Address:		Phone					
	Freedom Fire Protecti	on, Inc 2	09 Quaker Ridge	Road Casco	(207) 627-4109					
Lessee/Buyer's Name	Phone:	Pe	rmit Type:							
			Fire Suppression S	System						
Proposed Use:		Proposed	Project Description:							
Single Family		install N	FPA 13D sprinkle	er system.						
Dept: Zoning Status:	Approved	Reviewer:	Marge Schmucka	l Approval D	ate: 12/13/2012					
Note:				11	Ok to Issue:					
					01/01/0010					
•	Approved w/Conditions	Reviewer:	Ben Wallace Jr	Approval Da						
Note:					Ok to Issue:					
1) A copy of the required state spi	inkler permit with RMS si	ignoff shall be prov	vided prior to the	final inspection.						
2) All control valves shall be supe secured in the open position by		NFPA 13D. Pad l	ocks shall only be	installed on valves	designed to be					
3) The sprinkler system shall be installed in accordance with NFPA 13D.										

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City of P	ortland, Maine	- Building or Use	Permit Application	n P	'ermit No:	Issue Date	•	CBL:		
389 Congr	ress Street, 04101	Tel: (207) 874-8703	6 2012-65616				212 A049001			
Location of C	Construction:	Owner Name:	Own	ier Address:	Phone:					
45 TIDE N	MILL RD	DAWSON ER	CIC J & KRISTINE A	45	TIDE MILL R	(207) 799-9025				
Business Nan	ne:	Contractor Name	•	Con	tractor Address:			Phone		
		Freedom Fire	Protection, Inc	209	Quaker Ridge	Road Case	co	(207) 627-4109		
Lessee/Buyer	's Name	Phone:		Pern	nit Type:			Zone:		
				Fi	re Suppression	System		R2		
Past Use:		Proposed Use:		Per	mit Fee:	Cost of Wor	k:	CEO District:		
Single Fan	nily	Single Family					\$0.00	6		
				FIR	E DEPT:	Approved	INSPECTI			
						Denied	Use Group:	: Type:		
	. 1 1	21		1,	11/13 =	N/A				
undercon		12-09-4074		1,1	., -	-				
	oject Description:			a:	0.010	68				
SF Fire Su	ppression				ESTRIAN ACTI	ATTIES DIST	Signature:	D.)		
				red	ESTRIAN ACTI	VITTES DIS	IRICI (F.A.	(P.A.D.)		
				Acti	ion: Approv	ed App	proved w/Con	nditions Denied		
				Sign	nature:		Da	te:		
Permit Taken	Bv:	Date Applied For:			Zoning	Annrow	1		_	
bjs		12/13/2012		Zoning Appro				vai		
	armit application de	oes not preclude the	Special Zone or Revie	ws	Zonin	g Appeal		Historic Preservation		
	* *	g applicable State and	Shoreland		Variance			Not in District or Lands	mael	
	al Rules.	5 approved to the tare	Shoreland		Variance			Not ill District of Land	nauk	
	ng permits do not ir	Wetland		Miscellaneous			Does Not Require Review			
3. Buildi	or electrical work. ng permits are void six (6) months of tl	if work is not started	Flood Zone	☐ Conditio	Conditional Use					
False i	information may inv		Subdivision	Interpretation				Approved		
			Site Plan		☐ Approve	d		Approved w/Conditions	S	
			Maj Minor Minor		_ Denied			Denied		
			012	2						
			Date: 17/15/1	1	Date:		Date:			
			CERTIFICATION	NC						
		vner of record of the na								
		the owner to make this								
		a permit for work described thority to enter all areas								
	licable to such perm					10 0111	me p			
CICHARIDE	OF ARRIVANT		ADDECC			D. A remo		DUONE	_	
SIGNATURE	OF APPLICANT		ADDRESS	•		DATE	,	PHONE		

DATE

PHONE

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE

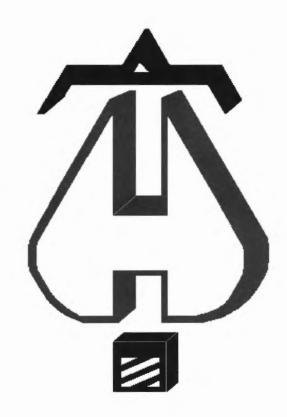
One- or Two-family Fire Sprinkler Permit

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.

Installation address: 45 Tide Mill Road, Dawson Residence
Building owner: Mike Cloutier Phone: 207-799-9025
Installer: Freedom Fire Protection, Inc. Phone: 207-627-4109
Total sq/ft of building floor space per unit: 5,700sq/ft X Single-family home
Sq/ft of sprinklered floor space per unit: 5,700sq/ft Two-family home
Is this a multipurpose piping system? Y / N Sprinkler piping uses Pex? Y / N
Sq/ft of sprinklered floor space per unit: 5,700sq/ft Two-family home Is this a multipurpose piping system? Y / N Sprinkler piping uses Pex? Y / N Water supply: Municipal Water Well pump X started water Other
Include electronic copy of approved State Sprinkler Frank plans: N To Follow Additional cost to the owner for the home fire prinkler system for each dwelling
Additional cost to the owner for the home fire prinkler system for each dwelling unit minus costs necessary for domestic needs (See below): A= \$10,500.00
Attach cost breakdown: N A City plumbing permit has been pulled:
Attach cost breakdown.
COST OF WORK: \$10,500.00 (A times number of units)
NO FEE REQUIRED

Additional information and Frequently asked questions about home fire sprinkler systems may be found at www.portlandmaine.gov/fireprevention.

Sprinkler system cost must deduct costs that would have been incurred if the system did not provide sprinkler service. In a well pump system it would include the difference between the well pump to be installed and the one that would have been installed if there were no sprinkler demand on the system. Includes additional piping and valves that are required only because of NFPA Standard 13D, and not already required for domestic needs. Includes cost of sprinkler heads and additional installation costs.



. . . Fire Protection by Computer Design

FREEDOM FIRE PROTECTION INC. 209 QUAKER RIDGE ROAD CASCO, MAINE 04015 207-627-4109

Job Name : ERIC DAWSON RESIDENCE

Building : 45 TIDE MILL ROAD

Location : PORTLAND, MAINE 04102

System: #1 AREA #1

Contract

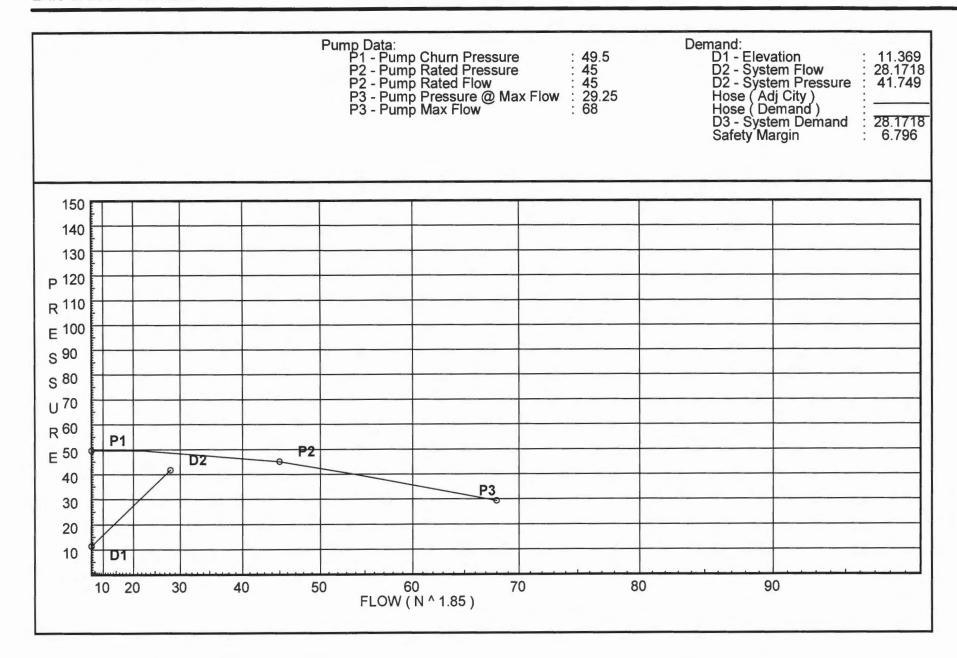
Data File : ERIC DAWSON RESIDENCE HC.WXF

HYDRAULIC DESIGN INFORMATION SHEET

```
Name - ERIC DAWSON RESIDENCE
                                                                                    Date - 12/6/12
Location - PORTLAND, MAINE 04102
Building - 45 TIDE MILL ROAD
                                                                        System No. - #1 AREA #1
Contractor - FREEDOM FIRE PROTECTION
                                                                        Contract No. -
                                                                        Drawing No. - FP-2
Calculated By - MICHAEL NOBLIT Donstruction: (X) Combustible ( ) Non-Combustible
                                                                             Ceiling Height 8'-0"
OCCUPANCY - HOUSE
     Type of Calculation: (X)NFPA 13 Residential ()NFPA 13R (X)NFPA 13D
S
     Number of Sprinklers Flowing: ()1 (X)2 ()4 ()
Y
     ()Other
S
     ( )Specific Ruling
                                                          Made by
                                                                                       Date
T
     Listed Flow at Start Point - 14 Gpm
Listed Pres. at Start Point - 10.1 Psi
MAXIMUM LISTED SPACING 14' x 14'

Compared to the start Point - 10 of the start Point - 14 Gpm

(X) Wet () Dry
() Deluge () PreAction
() Sprinkler or Nozzle
() Model LFII
E
M
D
   Domestic Flow Added - 0 Gpm Sprinkler or Nozzle
Additional Flow Added - 0 Gpm Make TYCO Model LFII
E.
S
     Elevation at Highest Outlet - 26'-3"Feet Size 1/2"
                                                                                      K-Factor 4.4
Ι
      Note:
                                                                Temperature Rating 155
G
Calculation Gpm Required 28.172 Psi Required 41.749 At Test
                                                 Overhead 150
                                                                                 Underground
Summary
                  C-Factor Used:
                                             Pump Data:
                                                                             Tank or Reservoir:
W
     Water Flow Test:
     Date of Test -
                                           Rated Cap. 45
                                                                          Cap.
Α
     Time of Test -
                                            @ Psi
                                                        45
                                                                          Elev.
Т
   Static (Psi) -
                                            Elev.
E
                                             Other
                                                                                    Well
R Residual (Psi) -
     Flow (Gpm)
                                                                            Proof Flow Gpm
S
     Elevation
P
      Location:
Ρ
    Source of Information:
Τ.
```



Fittings Used Summary

	EDOM FIRE PROTECTION DAWSON RESIDENCE		; .																age 3	3 12/6/12	2
	Legend v. Name	1/2	3/4	1	11/4	1½	2	2½	3	3½	4	5	6	8	10	12	14	16	18	20	24
E S T	90' Standard Elbow Generic Swing Check Vlv 90' Flow Thru Tee	2 4 3	2 5 4	2 5 5	3 7 6	4 9 8	5 11 10	6 14 12	7 16 15	8 19 17	10 22 20	12 27 25	14 32 30	18 45 35	22 55 50	27 65 60	35 76 71	40 87 81	45 98 91	50 109 101	61 130 121

Pressure / Flow Summary - STANDARD

FREEDOM FIRE PROTECTION INC. ERIC DAWSON RESIDENCE

Page 4 Date 12/6/12

Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
404	00.05	4.4	10.1		12.09	0.05	0.001	10.1
101	26.25	4.4	10.1	na	13.98	0.05	0.001	10.1
14	26.25		10.45	na				
13	18.166		14.37	na				
12	18.166		14.74	na				
102	26.25	4.4	10.4	na	14.19	0.05	0.001	10.1
11	26.25		10.76	na				
10	18.166		14.69	na				
9	18.166		15.13	na				
8	18.166		15.96	na				
7	18.166		18.88	na				
6	18.166		22.52	na				
5	18.166		23.81	na				
4	6.5		32.31	na				
3	6.5		33.99	na				
			35.87	na				
2	6.5							
1	0.0		41.5	na				
TEST	0.0		41.75	na				

The maximum velocity is 10.46 and it occurs in the pipe between nodes 4 and 3

FREEDOM FIRE PROTECTION INC.

ERIC DAWSON RESIDENCE

Page 5 Date 12/6/12

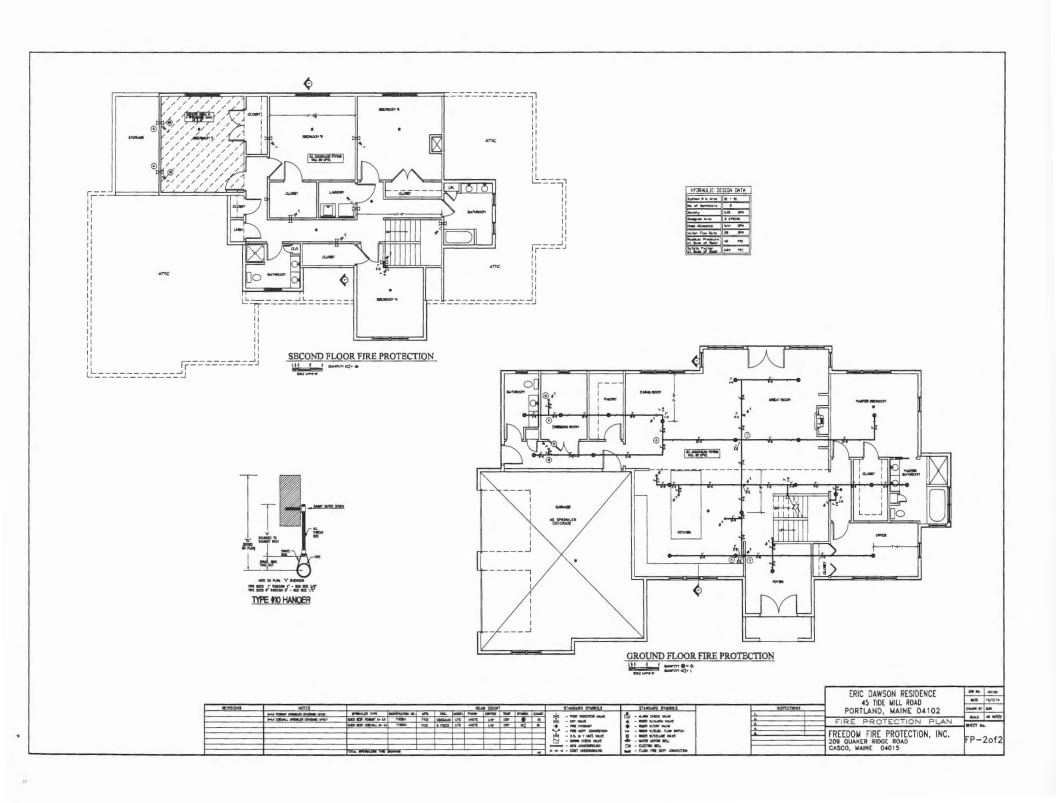
Hyd. Ref.	Qa	Dia. "C"		ting or	Pipe Ftng's	Pt Pe	Pt Pv	****** Notes *****
Point	Qt	Pf/Ft	Eq	v. Ln.	Total	Pf	Pn	
101	13.98	1.101 150	1T	9.563 0.0	0.500 9.562	10.100 0.0		K Factor = 4.40
to 14	13.98	0.0351		0.0	10.062	0.353		Vel = 4.71
14	0.0	1.101	1E	3.825	8.083	10.453		
to	40.00	150		0.0	3.825	3.501		Val = 4.74
13	13.98	0.0351	4.7	0.0 9.563	11.908	0.418 14.372		Vel = 4.71
13 to	0.0	1.101 150	1T	0.0	9.562	0.0		
12	13.98	0.0351		0.0	10.562	0.371		Vel = 4.71
12	0.0	1.101	1T	9.563	21.330	14.743		
to	12.09	150 0.0351	1E	3.825 0.0	13.387 34.717	0.0 1.218		Vel = 4.71
8	13.98	0.0351		0.0	34,717	1.210		Vei - 4.71
	13.98					15.961		K Factor = 3.50
102	14.19	1.101	1T	9.563	0.500	10.398		K Factor = 4.40
to		150		0.0	9.562	0.0		
11	14.19	0.0361		0.0	10.062	0.363		Vel = 4.78
11 to	0.0	1.101 150	1E	3.825 0.0	8.083 3.825	10.761 3.501		
to 10	14.19	0.0361		0.0	11.908	0.430		Vel = 4.78
10	0.0	1.101	1T	9.563	2.660	14.692		
to		150		0.0	9.562	0.0		
9	14.19	0.0360		0.0	12.222	0.440		Vel = 4.78
9	0.0	1.101 150		0.0	23.000 0.0	15.132 0.0		
to 8	14.19	0.0360		0.0	23.000	0.829		Vel = 4.78
8	13.98	1.101	1T	9.563	13.166	15.961		
to		150		0.0	9.562	0.0		
7	28.17	0.1283		0.0	22.728	2.915		Vel = 9.49
7	0.0	1.101 150	1T	9.563 0.0	18.830 9.562	18.876 0.0		
to 6	28.17	0.1282		0.0	28.392	3.641		Vel = 9.49
6	0.0	1.101	1T	9.563	0.500	22.517		
to		150		0.0	9.562	0.0		
5	28.17	0.1282		0.0	10.062	1.290		Vel = 9.49
5	0.0	1.101	1T	6.328	11.500	23.807 5.053		
to 4	28.17	120 0.1937		0.0 0.0	6.328 17.828	3.454		Vel = 9.49
4	0.0	1.049	1T	5.0	1.830	32.314		
		120		0.0	5.000	0.0		
to 3	28.17	0.2454		0.0	6.830	1.676		Vel = 10.46
3	0.0	1.049	1E	2.0	5.660	33.990		
to 2	28.17	120 0.2452		0.0 0.0	2.000 7.660	0.0 1.878		Vel = 10.46

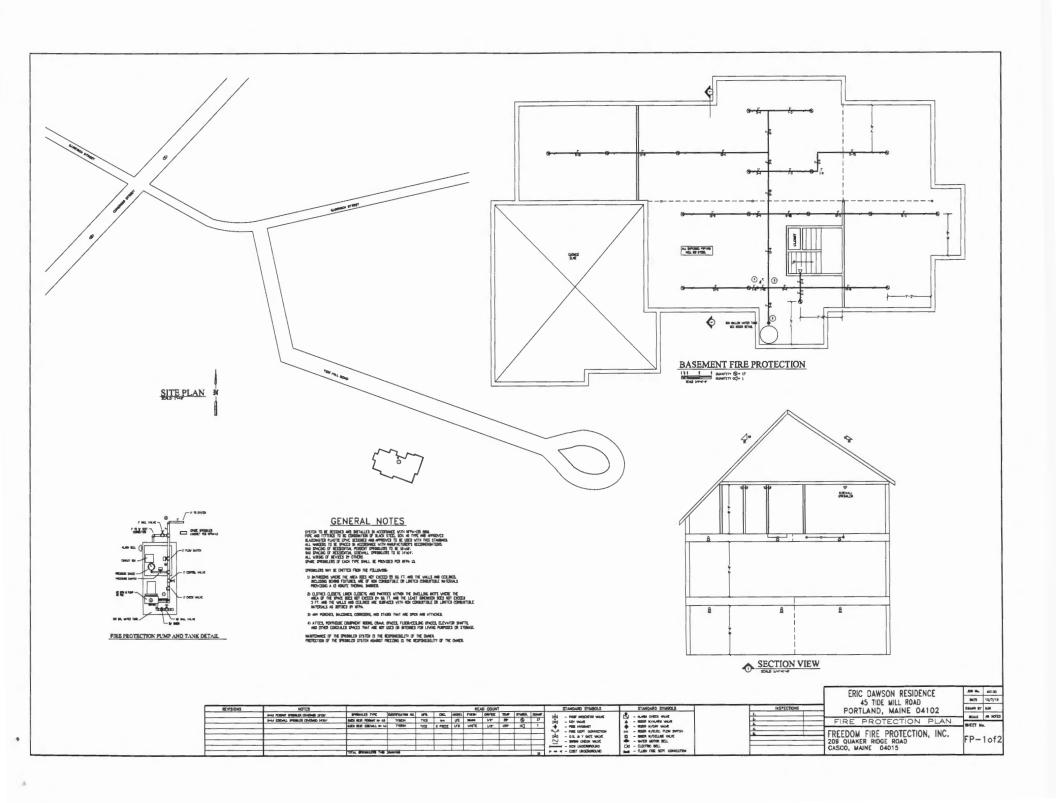
Final Calculations - Standard

FREEDOM FIRE PROTECTION INC. ERIC DAWSON RESIDENCE

Page 6 Date 12/6/12

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft		ting or v. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
2	0.0	1.049	1S	5.0	6.500	35.868				
to		120		0.0	5.000	2.815				
1	28.17	0.2453		0.0	11.500	2.821		Vel = 10	0.46	
1	0.0	1.049		0.0	1.000	41.504				
to		120		0.0	0.0	0.0				
TEST	28.17	0.2450		0.0	1.000	0.245		Vel = 10	0.46	
	0.0									
	28.17					41.749		K Facto	r = 4.36	







State of Maine Department of Public Safety

Fire Sprinkler System Permit



10385

ERIC DAWSON RESIDENCE

Located at:

45 TIDE MILL ROAD

In the Town of: Portland

Occupancy/Use: HOME

Type of System: NFPA 13D

Permission is hereby given to:

Freedom Fire Protection, Inc.

209 Quaker Ridge Road

Casco, ME 04015

Contractor License # 295

to begin installation according to plans submittal approved by the Office of State Fire Marshal. The submittal is filed under log # 2121560, and no departure from the application submittal shall be made without prior approval in writing. This permit is issued under the provisions of Title 32, Chapter 20, Section 12004-I. Nothing herein shall excuse the holder of this permit from failure to comply with local ordinances, zoning laws, o other pertinent legal restrictions. This permit shall be displayed at the construction site or be made readily available.

This permit was issued on 12/12/2012 for a fee paid of \$25.00

This permit will expire at midnight on Monday, June 10, 2013

The expiration date applies only if the installation has not begun by that date and no permission has been granted to extend the date. Once installation begins, then the permit is valid for however long it takes to complete the installation, assuming that the work is fairly continuous.

John E. Morris Commissioner

The type of Fire Department Connection and its location is to be according to the Local Fire Department

Within 30 days of the completion of a new fire sprinkler system or an addition to an existing fire sprinkler system, a fire sprinkler system contractor shall provide to the Office of State Fire Marshal a copy of this permit signed and dated by the certified Responsible Managing Supervisor representing that the fire sprinkler system has been installed according to specifications of the approved plan to the best of the supervisor's knowledge, information, and belief. This requirement is part of the sprinkler law, and neglect of this duty is grounds to not renew the contractor's license to do work in the State of Maine. All renewed sprinkler licenses are good for two years and expire on a June 30th.

Job completed,	tested and verified by date of
RMS Signature:_	

RMS for this job: Vess Timothy L.