

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND

BUILDING PERMIT

This is to certify that FREEDOM FIRE PROTECTION
of 209 Quaker Ridge Rd, Casco, ME 04015

For installation at 243 STATE ST

Job ID: 2011-07-1731-FAFS

CBL: 046 - - A - 001 - 001 - - - -

has permission to install an NFPA 13R supervised 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

A handwritten signature in blue ink, appearing to read "Bj. Anderson".

A circular blue ink stamp containing the number "58".

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.**

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

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Director of Planning and Urban Development
Penny St. Louis

Job ID: 2011-07-1731-FAFS
For installation of an NFPA 13R
supervised sprinkler system

For installation at:
243 STATE ST

CBL: 046 - - A - 001 - 001 - - - -

Conditions of Approval:

Application requires State Fire Marshal approval.

The sprinkler system shall be installed in accordance with NFPA 13R.

Fire department connection shall be 2 ½". The Fire Department will require Knox locking caps on all Fire Department Connections on the exterior of the building.

System acceptance and commissioning must be coordinated with alarm and suppression system contractors and the Fire Department. Call 874-8703 to schedule.

Installation of a sprinkler or fire alarm system requires a Knox Box to be installed per city ordinance.

A sprinkler supervisory system shall be provided in accordance with NFPA 101, *Life Safety Code*, and NFPA 72, *National Fire Alarm and Signaling Code*. Sprinkler supervisory systems shall monitor for water flow and sprinkler supervisory signals via an approved fire alarm panel to central station. One smoke detector shall be located over the panel, a manual pull station located at the front door, and an audible water flow alarm provided.

A separate Fire Alarm Permit is required.

Sprinkler protection shall be maintained. Where the system is to be shut down for maintenance or repair, the system shall be checked at the end of each day to insure the system has been placed back in service.

City of Portland, Maine - Building or Use Permit Application

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

Job No: 2011-07-1731-FAFS	Date Applied: 7/19/2011	CBL: 046 - - A - 001 - 001 - - - - -	
Location of Construction: 243 STATE ST	Owner Name: PETER C DUGAS	Owner Address: 243 STATE ST PORTLAND, ME - MAINE 04101	Phone:
Business Name:	Contractor Name: Freedom Fire Protection Inc - William Wales	Contractor Address: 209 Quaker Ridge Road, Casco, ME 04105	Phone: 671-8639
Lessee/Buyer's Name:	Phone:	Permit Type: Sprinkler System	Zone: R-6
Past Use: Four (4) Residential Dwelling Units	Proposed Use: Same: Four Residential Dwelling Units - to install a fire suppression system	Cost of Work: \$19,000.00	CEO District:
		Fire Dept: <input checked="" type="checkbox"/> Approved w/conditions <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: Type:
		Signature: <i>[Signature]</i> (58)	Signature:
Proposed Project Description: Fire suppression system		Pedestrian Activities District (P.A.D.)	

Permit Taken By: Lannie	Zoning Approval
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<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building Permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False informatin may invalidate a building permit and stop all work.</p>	<p>Special Zone or Reviews</p> <p><input type="checkbox"/> Shoreland</p> <p><input type="checkbox"/> Wetlands</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input type="checkbox"/> Site Plan</p> <p><input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MIM</p> <p>Date: <i>[Signature]</i> 7/19/11</p>	<p>Zoning Appeal</p> <p><input type="checkbox"/> Variance</p> <p><input type="checkbox"/> Miscellaneous</p> <p><input type="checkbox"/> Conditional Use</p> <p><input type="checkbox"/> Interpretation</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Denied</p> <p>Date:</p>	<p>Historic Preservation</p> <p><i>within</i></p> <p><input type="checkbox"/> Not in Dist or Landmark</p> <p><input type="checkbox"/> Does not Require Review</p> <p><input type="checkbox"/> Requires Review</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Approved w/Conditions</p> <p><input type="checkbox"/> Denied</p> <p>Date: <i>my exterior work requires a separate review & approval</i></p>
	CERTIFICATION		

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the appication is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
------------------------	---------	------	-------

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE	DATE	PHON
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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.

Installation address: 243 State Street CBL: 46-A-1 legal 4 mit Bldg

Exact location: (within structure) Basement, First, Second, and Third levels

Type of occupancy(s) (NFPA & ICC): NFPA 13R

Building owner: Peter Dugas R-6

Managing Supervisor (RMS): Timothy Vess License No: 348

Supervisor phone: 207-627-4109 E-mail: wwales@maine.rr.com

Installing contractor: Freedom Fire Protection, Inc. License No: 295

Contractor phone: 207-671-8639 E-mail: wwales@maine.rr.com

The suppression work to be done will be: New: Renovation: Addition to existing system:

This is an amendment to an existing permit: Yes: NO: Permit no: _____

NFPA Standard this system is designed to: 13R Edition: 2007

11.9.11

*Non-NFPA systems are not approved for use within the City of Portland.

Download a new copy of this document from www.portlandmaine.gov/fire for every submittal. Attach all working 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.

Contractor shall verify location and type of all FDCs shall be approved in writing by the Fire Prevention Bureau.

COST OF WORK: \$18,210.00

PERMIT FEE: \$210.00

(\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000)

RECEIVED

JUL 19 2011

Dept. of Building Inspections
City of Portland Maine

Submit all information to the Building Inspections Department, 389 Congress Street, Room 315, Portland, Maine 04101.

Prior to acceptance of any fire protection system, a complete commissioning and acceptance test must be coordinated with all fire system contractors and the Fire Department, and proper documentation of such test(s) provided.

All installation(s) must comply with NFPA and the Fire Department Technical Standard(s).

Applicant signature: Mark Radziejewski Date: July 19, 2011

Entered + Paid



PORTLAND MAINE

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Receipts Details:

Tender Information: Check , Check Number: 1601
Tender Amount: 210.00

Receipt Header:

Cashier Id: bouellette
Receipt Date: 7/19/2011
Receipt Number: 5209

Receipt Details:

Referance ID:	2694	Fee Type:	BP-Constr
Receipt Number:	0	Payment Date:	
Transaction Amount:	210.00	Charge Amount:	210.00
Job ID: Job ID: 2011-07-1731-FAFS -			
Additional Comments:			

Thank You for your Payment!

Receipts Details:

Tender Information: Check , Check Number: 1601
Tender Amount: 210.00

Receipt Header:

Cashier Id: bouellette
Receipt Date: 7/19/2011
Receipt Number: 5209

Receipt Details:

Referance ID:
2694
Fee Type:
BP-Constr
Receipt Number:
0
Payment Date:

Transaction Amount:
210.00
Charge Amount:
210.00
Job ID: Job ID: 2011-07-1731-FAFS -
Additional Comments:

Thank You for your Payment!

Freedom Fire Protection, Inc.

30 Years of Fire Protection Experience

209 Quaker Ridge Road

Casco, Maine 04015

Phone (207) 627-4109 Fax (207) 627-7340

July 19, 2011

Portland City Hall
Third Floor Room #315
Portland, Maine 04101

Attention: Captain Chris Pirone

Ref: Dugas Residence
243 State Street
Portland, Maine 04101

Subject: Fire Sprinkler Plan Review

Enclosed please find for your review and comment the following sprinkler information.

- Fire Suppression System Permit
- Permit Fee check
- Freedom Fire Protections drawings FP1, FP2
- 1 set of 8-1/2 x 11 PDF sprinkler plans.
- Hydraulic Calculations Area #1 and Area #2.
- Copy of the State Fire Marshall's sprinkler permit.

Please get in touch with me to discuss any questions or if you need additional information.

Regards,

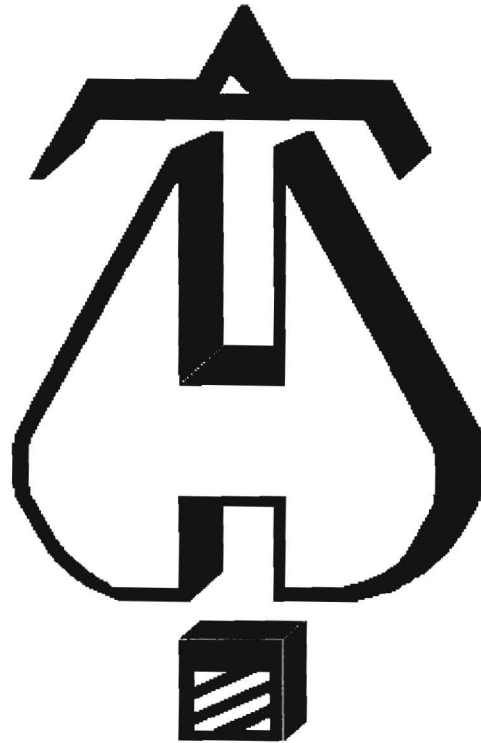
William Wales

(O) 207-627-4109

(F) 207-627-7340

(C) 207-671-8639

E-mail wwales@maine.rr.com



... Fire Protection by Computer Design

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

Job Name : 243 STATE STREET HC1
Building : 243 STATE STREET
Location : PORTLAND, MAINE 04101
System : #1 AREA #1
Contract :
Data File : 243 State Street HC.WXF

HYDRAULIC DESIGN INFORMATION SHEET

Name - 243 STATE STREET Date - 7/12/11
 Location - PORTLAND, MAINE 04101
 Building - 243 STATE STREET System No. - #1 AREA #1
 Contractor - FREEDOM FIRE PROTECTION Contract No. -
 Calculated By - MICHAEL NOBLIT Drawing No. - FP-2
 Construction: (X) Combustible () Non-Combustible Ceiling Height VARIES
 OCCUPANCY - APARTMENTS

S Type of Calculation: (X)NFPA 13 Residential (X)NFPA 13R ()NFPA 13D
 Y Number of Sprinklers Flowing: ()1 (X)2 ()4 ()
 S ()Other
 T ()Specific Ruling Made by Date
 E
 M Listed Flow at Start Point - 16 Gpm System Type
 Listed Pres. at Start Point - 14.5 Psi (X) Wet () Dry
 D MAXIMUM LISTED SPACING 14 x 14 () Deluge () PreAction
 E Domestic Flow Added - 0 Gpm Sprinkler or Nozzle
 S Additional Flow Added - 0 Gpm Make TYCO Model LFII
 I Elevation at Highest Outlet - 39'-4"Feet Size 1/2" K-Factor 4.2
 G Note: Temperature Rating 155
 N

Calculation Gpm Required 32.351 Psi Required 48.696 At Test
 Summary C-Factor Used: Overhead 120 Underground

W Water Flow Test: Pump Data: Tank or Reservoir:
 A Date of Test - Rated Cap. 50 Cap.
 T Time of Test - @ Psi 50 Elev.
 E Static (Psi) - Elev.
 R Residual (Psi) - Other Well
 Flow (Gpm) - Proof Flow Gpm
 S Elevation -
 P Location:
 P
 L Source of Information:
 Y

Water Supply Curve (C)

FREEDOM FIRE PROTECTION INC.
243 STATE STREET HC1

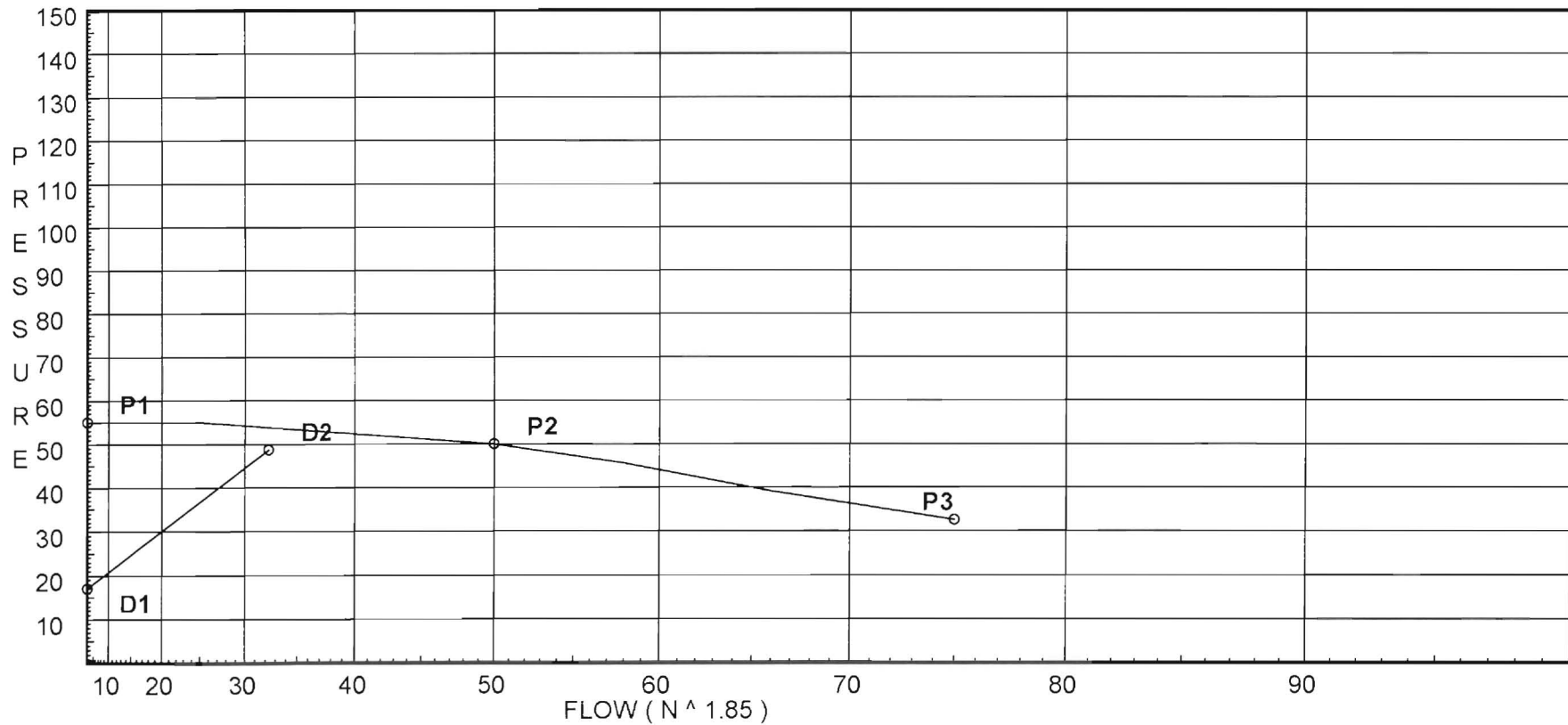
Page 2
Date 7/12/11

Pump Data:

P1 - Pump Churn Pressure : 55
 P2 - Pump Rated Pressure : 50
 P2 - Pump Rated Flow : 50
 P3 - Pump Pressure @ Max Flow : 32.5
 P3 - Pump Max Flow : 75

Demand:

D1 - Elevation : 17.034
 D2 - System Flow : 32.3506
 D2 - System Pressure : 48.696
 Hose (Adj City) : _____
 Hose (Demand) : _____
 D3 - System Demand : 32.3506
 Safety Margin : 5.123



Fittings Used Summary

FREEDOM FIRE PROTECTION INC.
243 STATE STREET HC1

Page 3
Date 7/12/11

Fitting Legend		½	¾	1	1¼	1½	2	2½	3	3½	4	5	6	8	10	12	14	16	18	20	24
Abbrev.	Name																				
E	90° Standard Elbow	2	2	2	3	4	5	6	7	8	10	12	14	18	22	27	35	40	45	50	61
S	Generic Swing Check Vlv	4	5	5	7	9	11	14	16	19	22	27	32	45	55	65	76	87	98	109	130
T	90° Flow Thru Tee	3	4	5	6	8	10	12	15	17	20	25	30	35	50	60	71	81	91	101	121

Pressure / Flow Summary - STANDARD

FREEDOM FIRE PROTECTION INC.
243 STATE STREET HC1

Page 4
Date 7/12/11

Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req
101	39.33	4.2	15.17	na	16.36	0.05	0.001	14.5
102	39.33	4.2	14.5	na	15.99	0.05	0.001	14.5
9	39.33		14.97	na				
8	39.33		15.66	na				
7	39.33		21.55	na				
6	39.33		22.1	na				
5	29.33		27.77	na				
4	29.33		30.19	na				
3	7.66		41.88	na				
2	7.66		44.07	na				
1	1.0		48.18	na				
TEST	0.0		48.7	na				

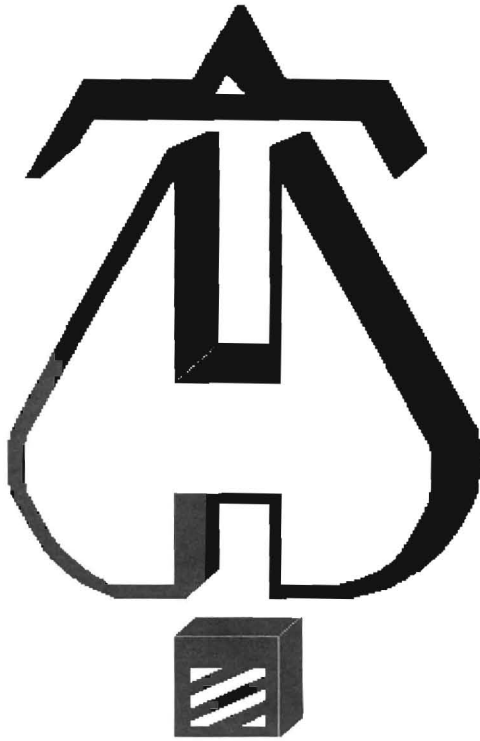
The maximum velocity is 12.01 and it occurs in the pipe between nodes 8 and 7

Final Calculations - Hazen-Williams

FREEDOM FIRE PROTECTION INC.
243 STATE STREET HC1

Page 5
Date 7/12/11

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	***** Notes *****
101	16.36	1.049	1T 5.0	0.500	15.168		K Factor = 4.20
to		120	0.0	5.000	0.0		
8	16.36	0.0898	0.0	5.500	0.494		Vel = 6.07
	0.0						
	16.36				15.662		K Factor = 4.13
102	15.99	1.049	1T 5.0	0.500	14.500		K Factor = 4.20
to		120	0.0	5.000	0.0		
9	15.99	0.0860	0.0	5.500	0.473		Vel = 5.94
9	0.0	1.049	0.0	8.000	14.973		
to		120	0.0	0.0	0.0		
8	15.99	0.0861	0.0	8.000	0.689		Vel = 5.94
8	16.36	1.049	1E 2.0	11.583	15.662		
to		120	1T 5.0	7.000	0.0		
7	32.35	0.3167	0.0	18.583	5.886		Vel = 12.01
7	0.0	1.38	1T 6.0	0.660	21.548		
to		120	0.0	6.000	0.0		
6	32.35	0.0833	0.0	6.660	0.555		Vel = 6.94
6	0.0	1.38	1T 6.0	10.000	22.103		
to		120	0.0	6.000	4.331		
5	32.35	0.0833	0.0	16.000	1.333		Vel = 6.94
5	0.0	1.38	2E 6.0	17.083	27.767		
to		120	1T 6.0	12.000	0.0		
4	32.35	0.0833	0.0	29.083	2.423		Vel = 6.94
4	0.0	1.38	1T 6.0	21.660	30.190		
to		120	0.0	6.000	9.385		
3	32.35	0.0833	0.0	27.660	2.305		Vel = 6.94
3	0.0	1.38	1T 6.0	20.330	41.880		
to		120	0.0	6.000	0.0		
2	32.35	0.0833	0.0	26.330	2.194		Vel = 6.94
2	0.0	1.38	1S 7.0	7.660	44.074		
to		120	0.0	7.000	2.884		
1	32.35	0.0834	0.0	14.660	1.222		Vel = 6.94
1	0.0	1.38	0.0	1.000	48.180		
to		120	0.0	0.0	0.433		
TEST	32.35	0.0830	0.0	1.000	0.083		Vel = 6.94
	0.0						
	32.35				48.696		K Factor = 4.64



... Fire Protection by Computer Design

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

Job Name : 243 STATE STREET HC2
Building : 243 STATE STREET
Location : PORTLAND, MAINE 04101
System : #1 AREA #2
Contract :
Data File : 243 State Street HC2.WXF

HYDRAULIC DESIGN INFORMATION SHEET

Name - 243 STATE STREET Date - 7/12/11
 Location - PORTLAND, MAINE 04101
 Building - 243 STATE STREET System No. - #1 AREA #2
 Contractor - FREEDOM FIRE PROTECTION Contract No. -
 Calculated By - MICHAEL NOBLIT Drawing No. - FP-2
 Construction: (X) Combustible () Non-Combustible Ceiling Height 10'-0"
 OCCUPANCY - APARTMENTS

S Type of Calculation: (X)NFPA 13 Residential (X)NFPA 13R ()NFPA 13D
 Y Number of Sprinklers Flowing: ()1 ()2 ()4 (X)3
 S ()Other
 T ()Specific Ruling Made by Date
 E
 M Listed Flow at Start Point - 16 Gpm System Type
 Listed Pres. at Start Point - 14.5 Psi (X) Wet () Dry
 D MAXIMUM LISTED SPACING 16 x 16 () Deluge () PreAction
 E Domestic Flow Added - 0 Gpm Sprinkler or Nozzle
 S Additional Flow Added - 0 Gpm Make TYCO Model LFII
 I Elevation at Highest Outlet - 29'-4"Feet Size 1/2" K-Factor 4.2
 G Note: Temperature Rating 155
 N

Calculation Gpm Required 49.344 Psi Required 44.081 At Test
 Summary C-Factor Used: Overhead 120 Underground

W Water Flow Test: Pump Data: Tank or Reservoir:
 A Date of Test - Rated Cap. 50 Cap.
 T Time of Test - @ Psi 50 Elev.
 E Static (Psi) - Elev.
 R Residual (Psi) - Other Well
 Flow (Gpm) - Proof Flow Gpm
 S Elevation -
 P Location:
 P
 L Source of Information:
 Y

Water Supply Curve (C)

FREEDOM FIRE PROTECTION INC.
243 STATE STREET HC2

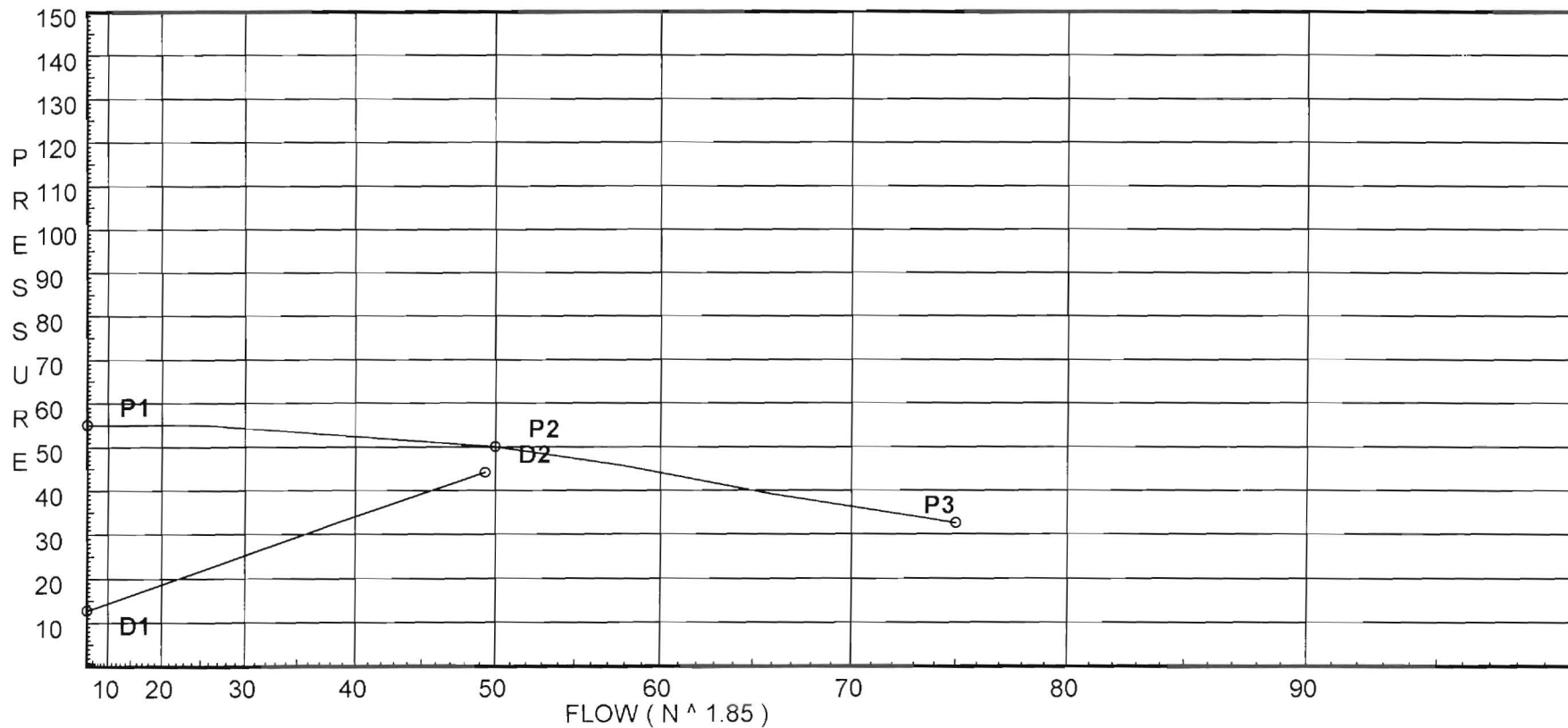
Page 2
Date 7/12/11

Pump Data:

P1 - Pump Churn Pressure : 55
P2 - Pump Rated Pressure : 50
P2 - Pump Rated Flow : 50
P3 - Pump Pressure @ Max Flow : 32.5
P3 - Pump Max Flow : 75

Demand:

D1 - Elevation : 12.703
D2 - System Flow : 49.3439
D2 - System Pressure : 44.081
Hose (Adj City) : _____
Hose (Demand) : _____
D3 - System Demand : 49.3439
Safety Margin : 6.086



Fittings Used Summary

FREEDOM FIRE PROTECTION INC.
243 STATE STREET HC2

Page 3
Date 7/12/11

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

Pressure / Flow Summary - STANDARD

FREEDOM FIRE PROTECTION INC.
243 STATE STREET HC2

Page 4
Date 7/12/11

Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req
201	29.33	4.2	15.61	na	16.59	0.05	0.001	14.5
27	29.33		17.24	na				
26	29.33		17.36	na				
203	29.33	4.2	14.5	na	15.99	0.05	0.001	14.5
202	29.33	4.2	15.92	na	16.76	0.05	0.001	14.5
25	29.33		16.62	na				
24	29.33		17.05	na				
23	29.33		17.43	na				
22	29.33		19.16	na				
21	17.67		29.24	na				
20	17.67		31.43	na				
2	7.66		37.91	na				
1	1.0		43.47	na				
TEST	0.0		44.08	na				

The maximum velocity is 10.58 and it occurs in the pipe between nodes 23 and 22

Final Calculations - Hazen-Williams

FREEDOM FIRE PROTECTION INC.
243 STATE STREET HC2

Page 5
Date 7/12/11

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	***** Notes *****
201	16.59	1.049	4E 8.0	9.750	15.608		K Factor = 4.20
to		120	0.0	8.000	0.0		
27	16.59	0.0921	0.0	17.750	1.635		Vel = 6.16
27	0.0	1.38	1E 3.0	2.000	17.243		
to		120	0.0	3.000	0.0		
26	16.59	0.0242	0.0	5.000	0.121		Vel = 3.56
26	0.0	1.38	0.0	2.830	17.364		
to		120	0.0	0.0	0.0		
23	16.59	0.0244	0.0	2.830	0.069		Vel = 3.56
	0.0						
	16.59				17.433		K Factor = 3.97
203	15.99	1.049	1E 2.0	9.500	14.500		K Factor = 4.20
to		120	1T 5.0	7.000	0.0		
202	15.99	0.0861	0.0	16.500	1.420		Vel = 5.94
202	16.76	1.38	1E 3.0	5.250	15.920		K Factor = 4.20
to		120	0.0	3.000	0.0		
25	32.75	0.0852	0.0	8.250	0.703		Vel = 7.02
25	0.0	1.38	1E 3.0	2.000	16.623		
to		120	0.0	3.000	0.0		
24	32.75	0.0852	0.0	5.000	0.426		Vel = 7.02
24	0.0	1.38	0.0	4.500	17.049		
to		120	0.0	0.0	0.0		
23	32.75	0.0853	0.0	4.500	0.384		Vel = 7.02
23	16.59	1.38	1T 6.0	3.500	17.433		
to		120	0.0	6.000	0.0		
22	49.34	0.1819	0.0	9.500	1.728		Vel = 10.58
22	0.0	1.38	1T 6.0	21.660	19.161		
to		120	0.0	6.000	5.050		
21	49.34	0.1820	0.0	27.660	5.033		Vel = 10.58
21	0.0	1.38	1E 3.0	3.000	29.244		
to		120	1T 6.0	9.000	0.0		
20	49.34	0.1819	0.0	12.000	2.183		Vel = 10.58
20	0.0	1.38	1T 6.0	5.830	31.427		
to		120	0.0	6.000	4.335		
2	49.34	0.1819	0.0	11.830	2.152		Vel = 10.58
2	0.0	1.38	1S 7.0	7.660	37.914		
to		120	0.0	7.000	2.884		
1	49.34	0.1820	0.0	14.660	2.668		Vel = 10.58
1	0.0	1.38	0.0	1.000	43.466		
to		120	0.0	0.0	0.433		
TEST	49.34	0.1820	0.0	1.000	0.182		Vel = 10.58
	0.0						

Final Calculations - Standard

FREEDOM FIRE PROTECTION INC.
 243 STATE STREET HC2

Page 6
 Date 7/12/11

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
	49.34				44.081		K Factor =	7.43	



State of Maine
Department of Public Safety
Fire Sprinkler System Permit



9579

DUGAS RESIDENCE

Located at: 243 STATE STREET
 In the Town of: Portland
 Occupancy/Use: APARTMENTS
 Type of System: NFPA 13R

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 # **2111238**, 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, or other pertinent legal restrictions. This permit shall be displayed at the construction site or be made readily available.

This permit was issued on **7/18/2011** for a fee paid of **\$100.00**

*This permit will expire at midnight on **Saturday, January 14, 2012***

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
 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 for this job: Vess Timothy L.

RMS Signature: _____



CITY OF PORTLAND, MAINE
Department of Building Inspections

Original Receipt

7.19. 20 11

Received from

Freedom Fire

Location of Work

243 State

Cost of Construction \$ _____ Building Fee: _____

Permit Fee \$ _____ Site Fee: _____

Certificate of Occupancy Fee: _____

Total: 210

Building (IL) _____ Plumbing (IS) _____ Electrical (I2) _____ Site Plan (U2) _____

Other Fire

CBL: 46-A1

Check #: 1601

Total Collected \$ 210

**No work is to be started until permit issued.
Please keep original receipt for your records.**

Taken by: [Signature]

WHITE - Applicant's Copy
YELLOW - Office Copy
PINK - Permit Copy