

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT

This is to certify that
FREEDOM FIRE PROTECTION
209 QUAKER RIDGE RD
CASCO, ME 04015

For installation at
10 ALTON ST

Job ID: 2012-06-4295-FAFS

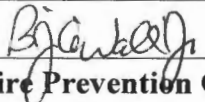
CBL: 168-K-008-001

has permission to install Maine Life Safety Sprinkler System

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statutes 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



PORTLAND MAINE

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

Director of Planning and Urban Development
Penny St. Louis

Job ID: 2012-06-4295-FAFS
install Maine Life Safety Sprinkler
System

For installation at:
10 ALTON ST

CBL: 168- K-008-001

Conditions of Approval:

Fire

The sprinkler system shall be installed in accordance with the Maine Life Safety Sprinkler Standard. A signed compliance letter will be required.

A separate sprinkler permit and approval is required from the State Fire Marshal's Office.

Sprinkler supervision shall be provided in accordance with NFPA 101, *Life Safety Code*, and NFPA 72, *National Fire Alarm and Signaling Code*.

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.


The Fire Department requires 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.

City ordinance requires a Knox Box for all structures with a sprinkler or fire alarm system.

City of Portland, Maine - Building or Use Permit Application

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

Job No: 2012-06-4295-FAFS	Date Applied: 6/20/2012	CBL: 168- K-008-001	
Location of Construction: 10 ALTON ST	Owner Name: ST. PETERS EPISCOPAL CHURCH	Owner Address: 10 ALTON ST PORTLAND, ME 04103	Phone:
Business Name:	Contractor Name: FREEDOM FIRE PROTECTION	Contractor Address: 209 QUAKER RIDGE RD CASCO MAINE 04015	Phone: (207) -671-8639
Lessee/Buyer's Name:	Phone:	Permit Type: FAFS	Zone: R-3
Past Use: Church offices on the 1 st floor and one dwelling unit on the 2 nd floor	Proposed Use: Same: Church offices and one dwelling unit – to install a fire suppression system	Cost of Work: \$12,000.00	CEO District:
		Fire Dept: 7/3/12 Signature: <i>B. Jewell</i> 	Inspection: Use Group: Type: Signature:
Proposed Project Description: WB fire suppression; multi unit		Pedestrian Activities District (P.A.D.)	
Permit Taken By: Brad		Zoning Approval	

<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 checked="" type="checkbox"/> MM</p> <p>Date: <i>OK 6/25/12</i></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><input checked="" 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>S</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 application 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	PHONE

Entered 6/20/12

(16)



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.

A 2012-06-4295-FAFS

Installation address: 10 Alton Street CBL: 168 K008

Exact location: (within structure) Basement, 1st Floor, and 2nd Floor

Type of occupancy(s) (NFPA & ICC): Maine Life Safety Revised 2012 (Office/Apartment)

Building owner: Bethany House Parish St Petrus Episcopal church

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

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

Installing contractor: Freedom Fire Protection 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: Maine Life Safety Edition: 2012

*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.

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).

COST OF WORK: <u>\$11,782.00</u>
PERMIT FEE: <u>\$140.00</u>
(\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000)
RECEIVED
JUN 19 2012
Dept. of Building Inspections City of Portland Maine

RECEIVED
JUN 20 2012
Dept. of Building Inspections
City of Portland Maine

Applicant signature: Mark Radziejewski Date: June 20, 2012



PORTLAND MAINE

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Receipts Details:

Tender Information: Check , Check Number: 17021

Tender Amount: 140.00

Receipt Header:

Cashier Id: bsaucier

Receipt Date: 6/20/2012

Receipt Number: 45169

Receipt Details:

Referance ID:	6961	Fee Type:	BP-Constr
Receipt Number:	0	Payment Date:	
Transaction Amount:	140.00	Charge Amount:	140.00
Job ID: Job ID: 2012-06-4295-FAFS - WB fire suppression; multi unit			
Additional Comments: 10 Alton St.			

Thank You for your Payment!



... Fire Protection by Computer Design

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

Job Name : BETHANY HOUSE PARISH HC1
Building : 10 ALTON STREET
Location : PORTLAND, MAINE 04103
System : #1 AREA #1
Contract :
Data File : BETHANY HOUSE PARISH HC1.WXF

HYDRAULIC DESIGN INFORMATION SHEET

Name - BETHANY HOUSE PARISH OFFICE Date - 6/14/12
 Location - PORTLAND, MAINE 04103
 Building - 10 ALTON STREET System No. - #1 AREA #1
 Contractor - FREEDOM FIRE PROTECTION Contract No. -
 Calculated By - MICHAEL NOBLIT Drawing No. - FP-1
 Construction: (X) Combustible () Non-Combustible Ceiling Height 8'-6"
 OCCUPANCY - HOUSE

S Type of Calculation: ()NFPA 13 Residential ()NFPA 13R ()NFPA 13D
 Y Number of Sprinklers Flowing: ()1 ()2 ()4 (X)3
 S (X)Other MAINE LIFE SAFETY 2012

T ()Specific Ruling Made by Date

E
 M Listed Flow at Start Point - 14 Gpm System Type
 Listed Pres. at Start Point - 10.1 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 - 25'-6"Feet Size 1/2" K-Factor 4.4
 G Note: Temperature Rating 155
 N

Calculation Gpm Required 44.388 Psi Required 41.441 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:

L Source of Information:
 Y

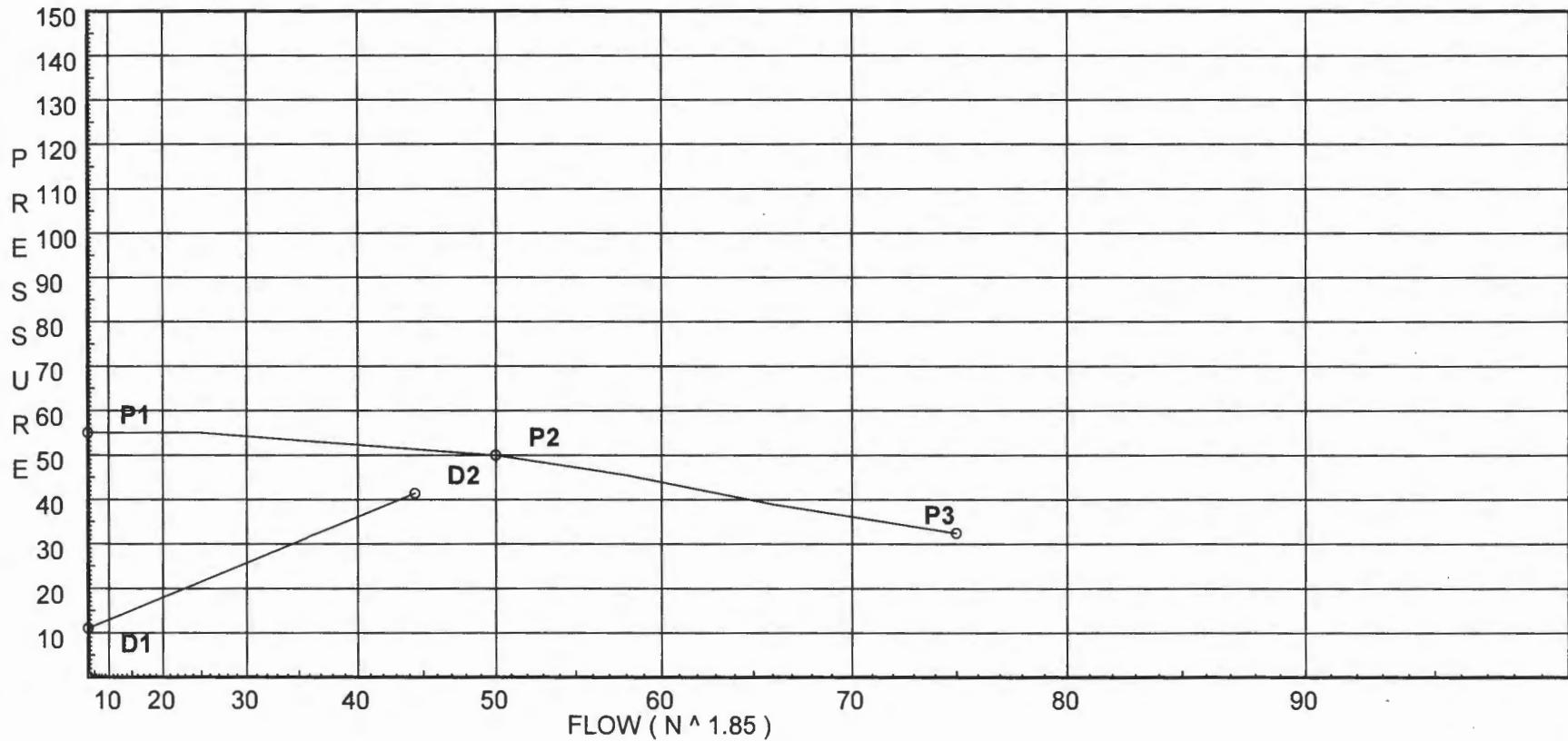
Water Supply Curve (C)

FREEDOM FIRE PROTECTION INC.
 BETHANY HOUSE PARISH HC1

Page 2
 Date 6/14/12

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 : 11.044
 D2 - System Flow : 44.3884
 D2 - System Pressure : 41.441
 Hose (Adj City) : _____
 Hose (Demand) : _____
 D3 - System Demand : 44.3884
 Safety Margin : 9.924



Fittings Used Summary

FREEDOM FIRE PROTECTION INC.
 BETHANY HOUSE PARISH HC1

Page 3
 Date 6/14/12

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
F	45° Elbow	1	1	1	1	2	2	3	3	3	4	5	7	9	11	13	17	19	21	24	28
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.
BETHANY HOUSE PARISH HC1

Page 4
Date 6/14/12

Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
103	25.5	4.4	10.1	na	13.98	0.05	0.001	10.1
102	25.5	4.4	10.47	na	14.24	0.05	0.001	10.1
101	25.5	4.4	13.5	na	16.17	0.05	0.001	10.1
7	25.5		15.4	na				
6	25.5		19.93	na				
5	25.5		21.95	na				
4	6.66		33.38	na				
3	6.66		34.48	na				
2	6.66		36.06	na				
1	0.0		40.84	na				
TEST	0.0		41.44	na				

The maximum velocity is 16.48 and it occurs in the pipe between nodes 101 and 7

Final Calculations - Hazen-Williams

FREEDOM FIRE PROTECTION INC.
BETHANY HOUSE PARISH HC1

Page 5
Date 6/14/12

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	***** Notes *****
103 to 102	13.98	1.049 120	1T 0.0	5.0 5.000	0.500 0.0	10.100 0.0	K Factor = 4.40
102 to 101	13.98	0.0671	0.0	5.500	0.369		Vel = 5.19
102 to 101	14.24	1.049 120	1F 1T	1.0 5.0	6.330 6.000	10.469 0.0	K Factor = 4.40
101 to 7	28.22	0.2461	0.0	12.330	3.034		Vel = 10.48
101 to 7	16.17	1.049 120	1F 0.0	1.0 1.000	2.330 0.0	13.503 0.0	K Factor = 4.40
7 to 6	44.39	0.5688	0.0	3.330	1.894		Vel = 16.48
7 to 6	0.0	1.38 120	0.0 0.0	30.330 0.0	15.397 0.0		
6 to 5	44.39	0.1496	0.0	30.330	4.537		Vel = 9.52
6 to 5	0.0	1.38 120	2E 0.0	6.0 6.000	7.458 0.0	19.934 0.0	
5 to 4	44.39	0.1496	0.0	13.458	2.013		Vel = 9.52
5 to 4	0.0	1.38 120	1E 0.0	3.0 3.000	18.916 0.0	21.947 8.160	
4 to 3	44.39	0.1496	0.0	21.916	3.278		Vel = 9.52
4 to 3	0.0	1.38 120	1T 0.0	6.0 6.000	1.330 0.0	33.385 0.0	
3 to 2	44.39	0.1495	0.0	7.330	1.096		Vel = 9.52
3 to 2	0.0	1.38 120	1E 0.0	3.0 3.000	7.583 0.0	34.481 0.0	
2 to 1	44.39	0.1496	0.0	10.583	1.583		Vel = 9.52
2 to 1	0.0	1.38 120	1S 0.0	7.0 7.000	5.660 0.0	36.064 2.884	
1 to TEST	44.39	0.1496	0.0	12.660	1.894		Vel = 9.52
1 to TEST	0.0	1.38 120	1E 0.0	3.0 3.000	1.000 0.0	40.842 0.0	
TEST	44.39	0.1498	0.0	4.000	0.599		Vel = 9.52
	0.0						
	44.39				41.441		K Factor = 6.90



... Fire Protection by Computer Design

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

Job Name : BETHANY HOUSE PARISH HC2
Building : 10 ALTON STREET
Location : PORTLAND, MAINE 04103
System : #1 AREA #2
Contract :
Data File : BETHANY HOUSE PARISH HC2.WXF

HYDRAULIC DESIGN INFORMATION SHEET

Name - BETHANY HOUSE PARISH OFFICE Date - 6/14/12
 Location - PORTLAND, MAINE 04103
 Building - 10 ALTON STREET System No. - #1 AREA #2
 Contractor - FREEDOM FIRE PROTECTION Contract No. -
 Calculated By - MICHAEL NOBLIT Drawing No. - FP-1
 Construction: (X) Combustible () Non-Combustible Ceiling Height 8'-6"
 OCCUPANCY - HOUSE

S Type of Calculation: ()NFPA 13 Residential ()NFPA 13R ()NFPA 13D
 Y Number of Sprinklers Flowing: ()1 ()2 ()4 (X)3
 S (X)Other MAINE LIFE SAFETY
 T ()Specific Ruling Made by Date
 E
 M Listed Flow at Start Point - 14 Gpm System Type
 Listed Pres. at Start Point - 10.1 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 - 16'-0"Feet Size 1/2" K-Factor 4.4
 G Note: Temperature Rating 155
 N

Calculation Gpm Required 43.195 Psi Required 46.110 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

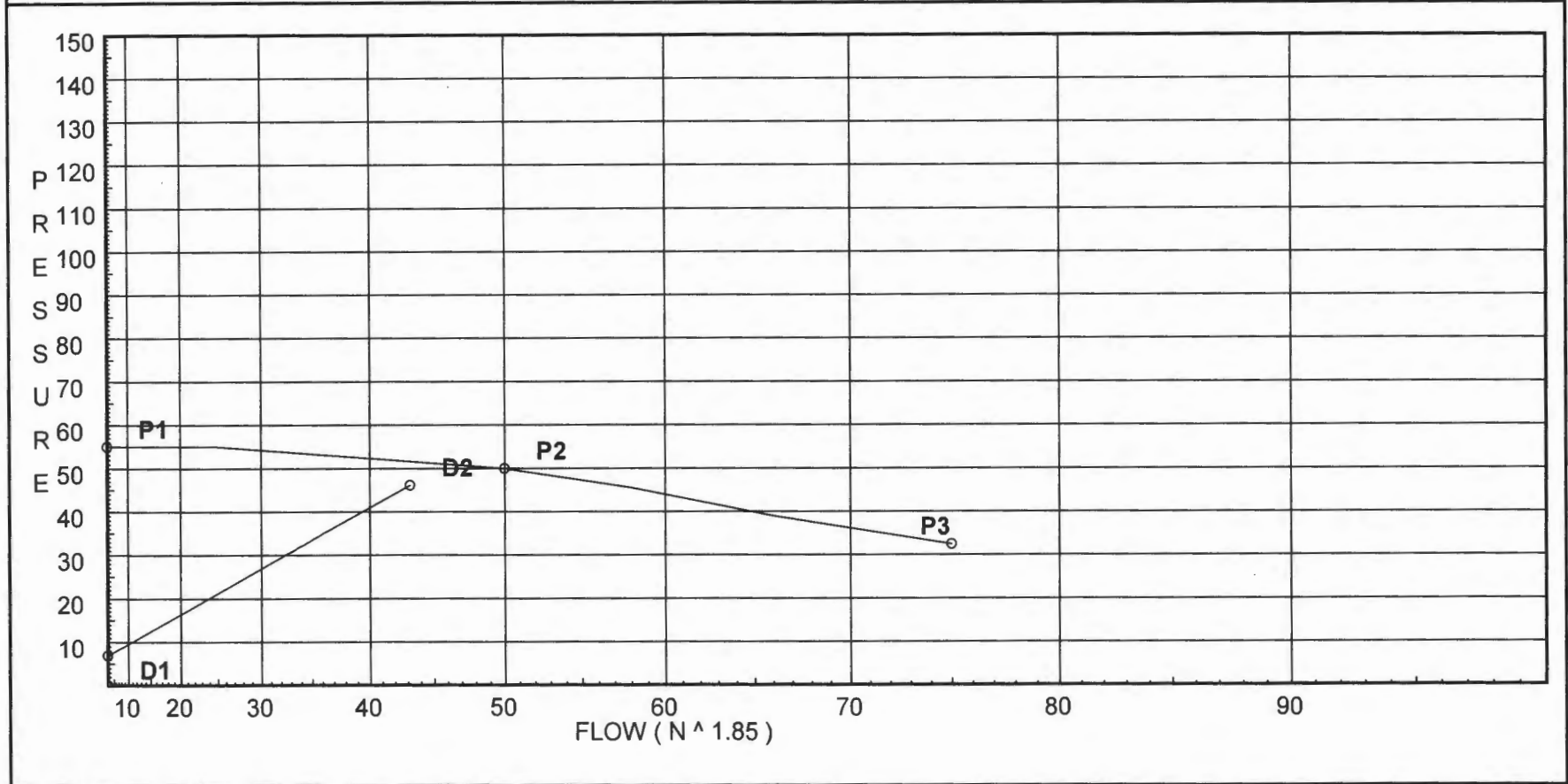
Water Supply Curve (C)

FREEDOM FIRE PROTECTION INC.
 BETHANY HOUSE PARISH HC2

Page 2
 Date 6/14/12

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 : 6.930
 D2 - System Flow : 43.1951
 D2 - System Pressure : 46.110
 Hose (Adj City) : _____
 Hose (Demand) : _____
 D3 - System Demand : 43.1951
 Safety Margin : 5.527



Fittings Used Summary

FREEDOM FIRE PROTECTION INC.
 BETHANY HOUSE PARISH HC2

Page 3
 Date 6/14/12

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	
F	45° Elbow	1	1	1	1	2	2	3	3	3	4	5	7	9	11	13	17	19	21	24	28	
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.
 BETHANY HOUSE PARISH HC2

Page 4
 Date 6/14/12

Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
201	16.0	4.4	10.84	na	14.49	0.05	0.001	10.1
202	16.0	4.4	11.2	na	14.72	0.05	0.001	10.1
203	16.0	4.4	10.1	na	13.98	0.05	0.001	10.1
24	16.0		11.24	na				
23	16.0		16.96	na				
22	16.0		21.73	na				
21	16.0		28.54	na				
20	16.0		32.49	na				
4	6.66		38.31	na				
3	6.66		39.35	na				
2	6.66		40.86	na				
1	0.0		45.54	na				
TEST	0.0		46.11	na				

The maximum velocity is 16.04 and it occurs in the pipe between nodes 24 and 23

Final Calculations - Hazen-Williams

FREEDOM FIRE PROTECTION INC.
BETHANY HOUSE PARISH HC2

Page 5
Date 6/14/12

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	14.49	1.049	1T 5.0	0.500	10.841		K Factor = 4.40
to		120	0.0	5.000	0.0		
24	14.49	0.0716	0.0	5.500	0.394		Vel = 5.38
	0.0						
	14.49				11.235		K Factor = 4.32
202	14.72	1.049	0.0	0.500	11.198		K Factor = 4.40
to		120	0.0	0.0	0.0		
24	14.72	0.0740	0.0	0.500	0.037		Vel = 5.46
	0.0						
	14.72				11.235		K Factor = 4.39
203	13.98	1.049	3E 6.0	10.916	10.100		K Factor = 4.40
to		120	0.0	6.000	0.0		
24	13.98	0.0671	0.0	16.916	1.135		Vel = 5.19
24	29.22	1.049	1E 2.0	8.583	11.235		
to		120	0.0	2.000	0.0		
23	43.2	0.5409	0.0	10.583	5.724		Vel = 16.04
23	0.0	1.049	2F 2.0	6.830	16.959		
to		120	0.0	2.000	0.0		
22	43.2	0.5408	0.0	8.830	4.775		Vel = 16.04
22	0.0	1.049	0.0	12.583	21.734		
to		120	0.0	0.0	0.0		
21	43.2	0.5408	0.0	12.583	6.805		Vel = 16.04
21	0.0	1.38	2E 6.0	21.750	28.539		
to		120	0.0	6.000	0.0		
20	43.2	0.1422	0.0	27.750	3.947		Vel = 9.27
20	0.0	1.38	1E 3.0	9.500	32.486		
to		120	0.0	3.000	4.045		
4	43.2	0.1422	0.0	12.500	1.777		Vel = 9.27
4	0.0	1.38	1T 6.0	1.330	38.308		
to		120	0.0	6.000	0.0		
3	43.2	0.1423	0.0	7.330	1.043		Vel = 9.27
3	0.0	1.38	1E 3.0	7.583	39.351		
to		120	0.0	3.000	0.0		
2	43.2	0.1422	0.0	10.583	1.505		Vel = 9.27
2	0.0	1.38	1S 7.0	5.660	40.856		
to		120	0.0	7.000	2.884		
1	43.2	0.1423	0.0	12.660	1.801		Vel = 9.27
1	0.0	1.38	1E 3.0	1.000	45.541		
to		120	0.0	3.000	0.0		
TEST	43.2	0.1422	0.0	4.000	0.569		Vel = 9.27
	0.0						
	43.20				46.110		K Factor = 6.36

Final Calculations - Standard

FREEDOM FIRE PROTECTION INC.
BETHANY HOUSE PARISH HC2

Page 6
Date 6/14/12

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
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CITY OF PORTLAND, MAINE

Department of Building Inspections

Original Receipt

6/21 20 12

Received from Freedom Fire Protect

Location of Work 10 Altan
Fire Suppression

Cost of Construction \$ _____ Building Fee: _____

Permit Fee \$ _____ Site Fee: _____

Certificate of Occupancy Fee: _____

Total: 140 —

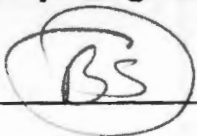
Building (IL) ___ Plumbing (IS) ___ Electrical (I2) ___ Site Plan (U2) ___

Other _____

CBL: _____

Check #: 17021 Total Collected \$ 140 —

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

Taken by: 

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