

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



# CITY OF PORTLAND BUILDING PERMIT

This is to certify that SPRINKLER SYSTEMS INC.  
of PO Box 1284, Lewiston, ME 04240

For installation at 901 WASHINGTON AVE  
JB Brown Office Building

Job ID: 2011-06-1254-NEWCOM

CBL: 170- F-001-001

has permission to install NFPA 13 supervised auto sprinkler 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

*Bjorn Daley* (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](mailto: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](http://www.portlandmaine.gov)*

Director of Planning and Urban Development  
Penny St. Louis

**Job ID: 2011-06-1254-NEWCOM**  
**install NFPA 13 supervised auto**  
**sprinkler**

**For installation at:**  
**901 WASHINGTON AVE**  
**JB Brown Office Building**

**CBL: 170- F-001-001**

## **Conditions of Approval:**

### **Fire**

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

A separate sprinkler permit 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 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.

# City of Portland, Maine - Building or Use Permit Application

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

Job No: 2011-06-1254-NEWCOM 2011-13519 FAFS	Date Applied: 11/29/2011	CBL: 170- F-001-001	
Location of Construction: 901 WASHINGTON AVE	Owner Name: J B & SONS BROWN	Owner Address: PO BOX 207 PORTLAND, ME 04112	Phone:
Business Name:	Contractor Name: SPRINKLER SYSTEMS INC	Contractor Address: PO BOX 1285, LEWISTON, ME 04240	Phone: 782-0104
Lessee/Buyer's Name:	Phone:	Permit Type: FAFS	Zone: C-56 (B-2 amended)
Past Use: Offices	Proposed Use: Same: Offices – to add a fire suppression system	Cost of Work: \$8,000.00	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: new 18, 250 sq. ft. office building		Pedestrian Activities District (P.A.D.)	

Permit Taken By: Lannie

## 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>	<b>Special Zone or Reviews</b> <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetlands <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan  <input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MM Date: <i>11/30/11</i>	<b>Zoning Appeal</b> <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date:	<b>Historic Preservation</b> <input checked="" type="checkbox"/> Not in Dist or Landmark <input type="checkbox"/> Does not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: <i>[Signature]</i>
	<b>CERTIFICATION</b>		

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 bis 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 PHONE



# 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.

2011067254

Installation address: 901 Washington Avenue CBL: 170-F-1 # 2011-13519

Exact location: (within structure) JB Brown Office Building

Type of occupancy(s) (NFPA & ICC): Light Hazard

Building owner: JB Brown & Sons, 81 West Commercial Street, Portland, ME 04101

Managing Supervisor (RMS): Scott E. Garland License No: 278

Supervisor phone: 775-1521 E-mail: scottssi@maine.rr.com

Installing contractor: Sprinkler Systems Inc. License No: 093

Contractor phone: 782-0104 E-mail: same as above

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: NFPA #13 Edition: 2007

\*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](http://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.

<b>COST OF WORK:</b> <u>\$8,000.00</u>
<b>PERMIT FEE:</b> <u>\$100.00</u>
( <small>\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000</small> )

RECEIVED

NOV 29 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: <u>[Signature]</u>	Date: <u>11-28-2011</u>
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# Sprinkler Systems, Inc.

P.O. Box 1285

Lewiston, ME 04243-1285

TO: CITY OF PORTLAND  
INSPECTIONS RM 315

# Letter of Transmittal

DATE	11-23-11	JOB #	11060
ATTENTION:	INSPECTIONS		
RE:	JB BROWN OFFICE BLDG 901 WASHINGTON AVENUE PORTLAND, ME		

**WE ARE SENDING YOU:**

Attached       Under separate cover via \_\_\_\_\_ the following items:

- Shop drawings     Prints     Plans     Samples     Specifications     Wavier or Liens  
 Copy of letter     Change order     Signed Contracts     See below \_\_\_\_\_

COPIES	DATE	NO.	DESCRIPTION
1c	9-20-11	1091	SPRINKLER SHOP DRAWING
1c	11-23-11	9758	STATE OF MAINE SPRINKLER PERMIT
1c	9-20-11	6065	HYDRAULIC CALCULATIONS PKG.
1c	—	—	PWD FLOW TEST MAP
1c	—	—	PORTLAND SPRINKLER PERMIT APPLICATION
1c	11-10-11	2942	8100 SPRINKLER PERMIT CHECK

**THESE ARE TRANSMITTED as checked below:**

- For your approval       Approved as submitted       Resubmit \_\_\_\_\_ copies for approval  
 For your use       Approved as noted       Submit \_\_\_\_\_ copies for distribution

**REMARKS:**

PLEASE RETURN 1 PERMIT.

Thank You,  
Scott B. Greenawald, JSE, PMS

SIGNED: \_\_\_\_\_

PMS-MEA



**State of Maine**  
**Department of Public Safety**  
**Fire Sprinkler System Permit**



# 9758

**J B Brown Offices**

Located at: 901 Washington Ave  
 In the Town of: Portland  
 Occupancy/Use: Offices  
 Type of System: NFPA 13

Permission is hereby given to:

**Sprinkler Systems, Inc.**  
 PO Box 1285  
 Lewiston, ME 042431285  
 Contractor License # 93

to begin installation according to plans submittal approved by the Office of State Fire Marshal. The submittal is filed under log # **2111419**, 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 **11/28/2011** for a fee paid of **\$100.00**

*This permit will expire at midnight on **Saturday, May 26, 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  
 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 11/23/14

RMS for this job: Garland Scott E.

RMS Signature: \_\_\_\_\_



# CITY OF PORTLAND, MAINE

Department of Building Inspections

## Original Receipt

11-24 20 11

Received from Sprinkler System

Location of Work 901 Washington St. 1364

Cost of Construction \$ \_\_\_\_\_ Building Fee: \_\_\_\_\_

Permit Fee \$ \_\_\_\_\_ Site Fee: \_\_\_\_\_

Certificate of Occupancy Fee: \_\_\_\_\_

Total: 130

Building (IL) \_\_\_\_\_ Plumbing (I5) \_\_\_\_\_ Electrical (I2) \_\_\_\_\_ Site Plan (U2) \_\_\_\_\_

Other Sprinkler

2 CKS 30  
100

CBL: \_\_\_\_\_

Check #: 27420 27421 Total Collected \$ 130

**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





... Fire Protection by Computer Design

Sprinkler Systems, Inc.  
2-4 Avon Street  
P.O. Box 1285  
Lewiston, Maine 04240  
207-782-0104

Job Name : JB BROWN OFFICE BLDG  
Building :  
Location : 901 WASHINGTON AVENUE, PORTLAND, MAINE 04103  
System : 1 OF 1  
Contract : 11060  
Data File : JBBROWNOFFBLDG11060.wxf

# Fittings Used Summary

Sprinkler Systems, Inc.  
JB BROWN OFFICE BLDG

Page 2  
Date 9-20-2011

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
G	Generic Gate Valve	0	0	0	0	0	1	1	1	1	2	2	3	4	5	6	7	8	10	11	13
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
Z	Generic Flow Switch	2	2	2	3	4	5	6	7	8	10	12	14	18	22	27	35	40	45	50	61
Zac	Ames 2000SS	Fitting generates a Fixed Loss Based on Flow																			

## Units Summary

Diameter Units      Inches  
 Length Units        Feet  
 Flow Units            US Gallons per Minute  
 Pressure Units       Pounds per Square Inch

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	***** Notes *****
TYP	33.00	1.049	1T 5.0	0.833	17.016		K Factor = 8.00
to		120	0.0	5.000	0.0		
DROP	33.0	0.3286	0.0	5.833	1.917		Vel = 12.25
	0.0					18.933	K Factor = 7.58
	33.00						
1	33.00	1.682	0.0	18.000	18.933		K Factor @ node DROP
to		120	0.0	0.0	0.0		
2	33.0	0.0329	0.0	18.000	0.593		Vel = 4.76
2	33.51	1.682	0.0	18.000	19.526		K Factor @ node DROP
to		120	0.0	0.0	0.0		
3	66.51	0.1206	0.0	18.000	2.170		Vel = 9.60
3	35.33	1.682	0.0	18.000	21.696		K Factor @ node DROP
to		120	0.0	0.0	0.0		
A	101.84	0.2652	0.0	18.000	4.774		Vel = 14.70
A	0.0	1.682	0.0	16.000	26.470		
to		120	0.0	0.0	0.0		
B	101.84	0.2651	0.0	16.000	4.242		Vel = 14.70
B	0.0	1.682	1T 9.9	47.333	30.712		
to		120	0.0	9.900	0.0		
C	101.84	0.2652	0.0	57.233	15.177		Vel = 14.70
	0.0						
	101.84					45.889	K Factor = 15.03
4	39.78	1.682	0.0	18.000	27.512		K Factor @ node DROP
to		120	0.0	0.0	0.0		
5	39.78	0.0466	0.0	18.000	0.839		Vel = 5.74
5	40.38	1.682	0.0	18.000	28.351		K Factor @ node DROP
to		120	0.0	0.0	0.0		
E	80.16	0.1703	0.0	18.000	3.065		Vel = 11.57
E	0.0	1.682	2E 9.9	21.417	31.416		
to		120	0.0	9.900	0.0		
F	80.16	0.1703	0.0	31.317	5.334		Vel = 11.57
F	0.0	1.682	1T 9.9	46.167	36.750		
to		120	0.0	9.900	0.0		
D	80.16	0.1703	0.0	56.067	9.549		Vel = 11.57
	0.0						
	80.16					46.299	K Factor = 11.78
C	101.84	2.635	0.0	13.750	45.889		
to		120	0.0	0.0	0.0		
D	101.84	0.0298	0.0	13.750	0.410		Vel = 5.99
D	80.16	2.635	0.0	53.750	46.299		
to		120	0.0	0.0	0.0		
G	182.0	0.0872	0.0	53.750	4.687		Vel = 10.71

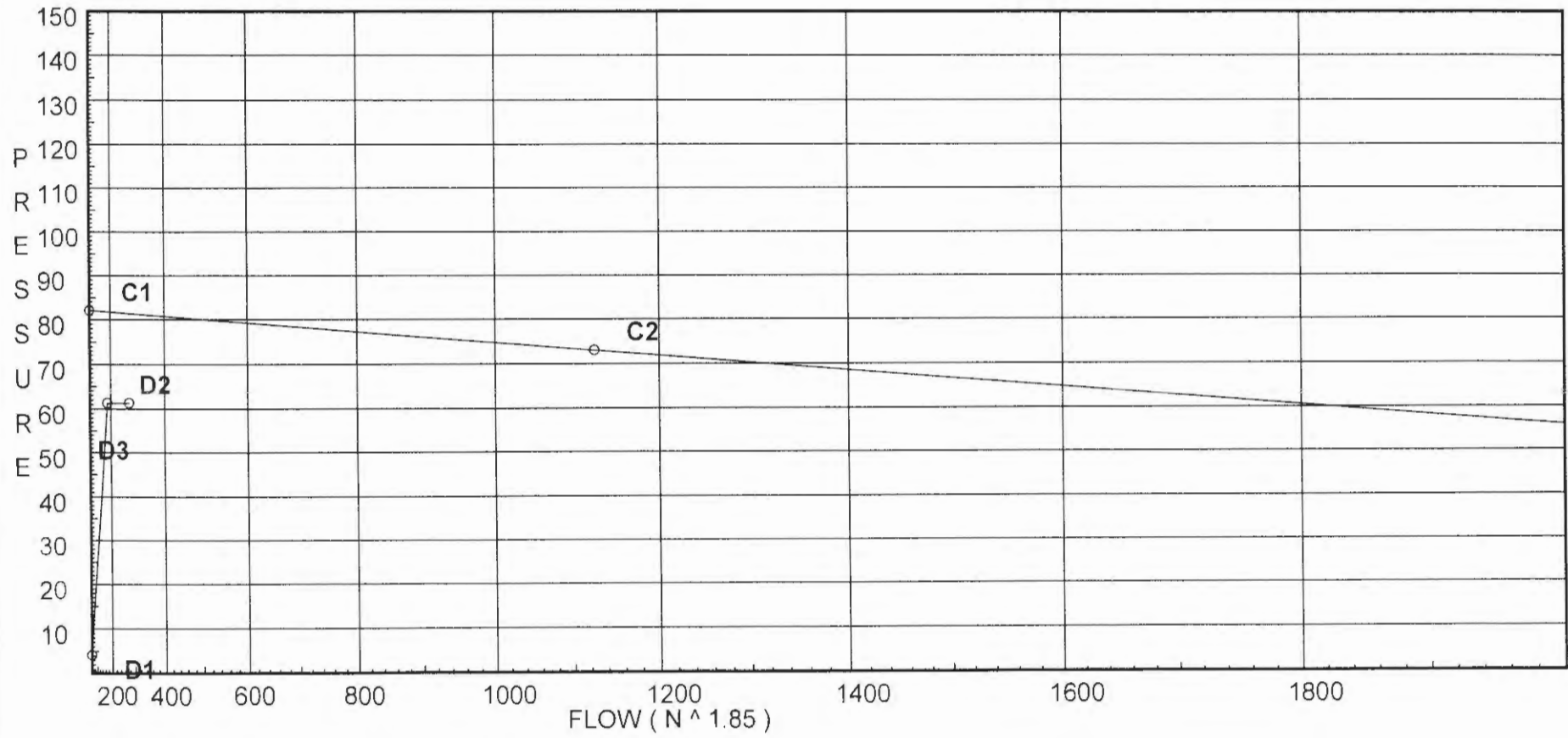
# Water Supply Curve (C)

Sprinkler Systems, Inc.  
JB BROWN OFFICE BLDG

Page 6  
Date 9-20-2011

City Water Supply:  
C1 - Static Pressure : 82  
C2 - Residual Pressure: 73  
C2 - Residual Flow : 1125

Demand:  
D1 - Elevation : 4.133  
D2 - System Flow : 182.003  
D2 - System Pressure : 61.312  
Hose ( Adj City ) :  
Hose ( Demand ) : 100  
D3 - System Demand : 282.003  
Safety Margin : 19.992



Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	***** Notes *****
G to RT	0.0 182.0	2.635 120 0.0872	2E 16.474	1.833 16.474	50.986 0.0		
RT to RB	0.0 182.0	2.635 120 0.0872	1Z 8.237 1Zac 0.0	7.792 8.237	52.583 5.965		Vel = 10.71 * Fixed loss = 2.59
RB to X1	0.0 182.0	6.16 140 0.0010	1E 20.084 1G 4.304	70.000 67.425	59.946 0.0		Vel = 10.71
X1 to HOSE	0.0 182.0	6.16 140 0.0010	2E 40.168 1G 4.304	315.000 87.509	60.090 0.0		Vel = 1.96
HOSE to TEST	100.00 282.0	12.34 140 0.0001	1F 20.316	500.000 20.316	60.512 0.758		Qa = 100 Vel = 0.76
	0.0 282.00					61.312	K Factor = 36.01

Pressure / Flow Summary - STANDARD

Sprinkler Systems, Inc.  
 JB BROWN OFFICE BLDG

Page 3  
 Date 9-20-2011

Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
TYP	0.0	8	17.02	na	33.0	0.1	330	17.0
1	70.542	K = K @ DROP	18.93	na	33.0			
2	70.542	K = K @ DROP	19.53	na	33.51			
3	70.542	K = K @ DROP	21.7	na	35.33			
A	70.542		26.47	na				
B	70.542		30.71	na				
4	70.542	K = K @ DROP	27.51	na	39.78			
5	70.542	K = K @ DROP	28.35	na	40.38			
E	70.542		31.42	na				
F	70.542		36.75	na				
C	70.542		45.89	na				
D	70.542		46.3	na				
G	70.542		50.99	na				
RT	70.542		52.58	na				
RB	62.75		59.95	na				
X1	62.75		60.09	na				
HOSE	62.75		60.51	na	100.0			
TEST	61.0		61.31	na				

The maximum velocity is 14.7 and it occurs in the pipe between nodes 3 and A

Hydraulic Design Information Sheet

Name - JB BROWN OFFICE BUILDING Date - 9-20-2011  
 Location - 901 WASHINGTON AVENUE, PORTLAND, MAINE 04103  
 Building - System No. - 1 OF 1  
 Contractor - PC CONST. Contract No. - 11060  
 Calculated By - SCOTT E. GARLAND Drawing No. - 1 OF 1  
 Construction: ( ) Combustible (X) Non-Combustible Ceiling Height - 9-0  
 Occupancy - OFFICES - LIGHT HAZARD

S (X) NFPA 13 (X) Lt. Haz. Ord.Haz.Gp. ( ) 1 ( ) 2 ( ) 3 ( ) Ex.Haz.  
 Y ( ) NFPA 231 ( ) NFPA 231C ( ) Figure Curve

S Other

T Specific Ruling Made By Date

E  
 M Area of Sprinkler Operation - 900 System Type Sprinkler/Nozzle  
 Density - .10 (X) Wet Make RELIABLE  
 D Area Per Sprinkler - 18 X 18 ( ) Dry Model F1FREC  
 E Elevation at Highest Outlet - 70.542 ( ) Deluge Size 17/32 X 3/4  
 S Hose Allowance - Inside - ( ) Preaction K-Factor 8.0  
 I Rack Sprinkler Allowance - ( ) Other Temp.Rat.155 DEG  
 G Hose Allowance - Outside - 100  
 N

Note DESIGN AREA #1 - OPEN OFFICE

Calculation Flow Required - 182.003 Press Required - 59.946 AT BASE OF RISER  
 Summary C-Factor Used: 120 Overhead 140 Underground

W Water Flow Test: Pump Data: Tank or Reservoir:  
 A Date of Test - 11/29/1994 Cap. -  
 T Time of Test - Rated Cap.- Elev.-  
 E Static Press - 82 @ Press -  
 R Residual Press - 73 Elev. - Well  
 Flow - 1125 Proof Flow  
 S Elevation - 61.0

U Location - ON PHEASANT HILL ROAD, 500'-0" FROM THE BUILDING

L Source of Information - PORTLAND WATER DISTRICT

C Commodity Class Location  
 O Storage Ht. Area Aisle W.  
 M Storage Method: Solid Piled % Palletized % Rack  
 M  
 ( ) Single Row ( ) Conven. Pallet ( ) Auto. Storage ( ) Encap.  
 S R ( ) Double Row ( ) Slave Pallet ( ) Solid Shelf ( ) Non  
 T A ( ) Mult. Row ( ) Open Shelf

O C  
 R K Flue Spacing Clearance:Storage to Ceiling  
 A Longitudinal Transverse

G  
 E Horizontal Barriers Provided: