

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



# CITY OF PORTLAND BUILDING PERMIT

This is to certify that YANA & FERRALLY-PLOURDE

Located At 142 SHERIDAN ST

Job ID: 2011-03-676-ALTR

CBL: 013 - - J - 002 - 001 - - - -

has permission to install an NFPA 13D sprinkler system in the lower dwelling unit 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

*Bj. A. Wolf* (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.**

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: 2011-03-676-ALTR

Located At: 142 SHERIDAN ST

CBL: 013 - - J - 002 - 001 - - - -

## **Conditions of Approval:**

### **Zoning**

1. This is NOT an approval for an additional dwelling unit. You SHALL NOT add any additional kitchen equipment including, but not limited to items such as stoves, microwaves, refrigerators, or kitchen sinks, etc. without special approvals.
2. This property shall remain a two family dwelling. Any change of use shall require a separate permit application for review and approval.

### **Fire**

The sprinkler system shall be installed in accordance with NFPA 13D. A signed compliance letter will be required.

Accommodation shall be provided for future expansion of the sprinkler system to the other dwelling.

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

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

Job No: 2011-03-676-ALTR #2011-3865 FAFS	Date Applied: 8/24/2011	CBL: 013 - - J - 002 - 001 - - - - -	
Location of Construction: 142 SHERIDAN ST	Owner Name: SADIE BLISS & LAUGHLIN CHANLER	Owner Address: 142 SHERIDAN ST PORTLAND, ME - MAINE 04101	Phone:
Business Name:	Contractor Name: William Wales @ Freedom Fire Protection, Inc.	Contractor Address: 209 Quaker Ridge Rd., Casco, ME 04105	Phone: (207) 627-4109
Lessee/Buyer's Name:	Phone:	Permit Type: BLDG Sprinkler system	Zone: R-6
Past Use: Two Family Dwelling	Proposed Use: Same: Two Family Dwelling - to install water-based fire suppression system	Cost of Work: \$39,000.00	CEO District:
		Fire Dept: <input checked="" type="checkbox"/> Approved w/ conditions <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: Type:
Proposed Project Description: 142 Sheridan - FAFS		Signature: <i>[Signature]</i> (50)	
		Pedestrian Activities District (P.A.D.)	
Permit Taken By: Lannie		<b>Zoning Approval</b>	

<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><b>Special Zone or Reviews</b></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 MM</p> <p>Date: <i>ok with conditions</i></p>	<p><b>Zoning Appeal</b></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: <i>[Signature]</i></p>	<p><b>Historic Preservation</b></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>[Signature]</i></p>
	<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 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



# 2011-3865

# Water-Based Fire Suppression System Permit

+ x / s

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: 142 Sheridan Street CBL: 13 J 2

Exact location: (within structure) Lower Level Unit/ Parcel Sprinkled Building

Type of occupancy(s) (NFPA & ICC): Residence *legal 2 family*

Building owner: Sadie Bliss & Loc Chanler

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

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

Installing contractor: Freedom Fire protection, Inc License No: 295

Contractor phone: 207/627-4109 E-mail: \_\_\_\_\_

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: NFPA13D Edition: 2010

\*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.

**COST OF WORK: \$3,232.00**

**PERMIT FEE: \$70.00**

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

**RECEIVED**

MAY 24 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: Wm Wales Date: MAY 29 2011

**RECEIVED**  
MAY 24 2011  
Dept. of Building Inspections  
City of Portland Maine



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xx/s

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Applicant signature: Wm Wales Date: May 24 2011

RECEIVED  
MAY 24 2011  
Dept. of Building Inspections  
City of Portland Maine

# Freedom Fire Protection, Inc.

*Over 30 Years of Fire Protection Experience*  
209 Quaker Ridge Rd. Casco, Maine 04015  
Phone 207/627-4109 Fax 207/627-7340

May 24, 2011

Portland City Hall  
Third Floor Room 315  
Portland, Maine 04101

Attn: Captain Keith Gautreau

Ref: 142 Sheridan Street.  
Portland, Maine 04101

Subj: Fire Sprinkler Permit Review

Captain Gautreau

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

- Fire Suppression System Permit
- Permit Fee Check
- Full Size FFP Drawings FP-1
- CD-R disc with Drawing, Calculation Files State Permit
- Copy of The State Fire Marshal's Sprinkler Permit.

Regards,

William W. Wales



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



# 9516

**142 SHERIDAN STREET APARTMENT**

Located at: 142 SHERIDAN STREET  
 In the Town of: Portland  
 Occupancy/Use: APARTMENT  
 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 # 211171, 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 5/22/2011 for a fee paid of \$25.00

*This permit will expire at midnight on Friday, November 18, 2011*

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 for this job: Vess Timothy L.

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





**. . . Fire Protection by Computer Design**

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

Job Name : 142 SHERIDAN STREET APARTMENT  
Building : 142 SHERIDAN STREET  
Location : PORTLAND, MAINE 04101  
System : #1 AREA #1  
Contract :  
Data File : 142 SHERIDAN STREET APARTMENT HC.WXF

HYDRAULIC DESIGN INFORMATION SHEET

Name - 142 SHERIDAN STREET APARTMENT Date - 5/19/11  
Location - PORTLAND, MAINE 04101  
Building - 142 SHERIDAN 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'-0"  
OCCUPANCY - APARTMENT

S Type of Calculation: (X)NFPA 13 Residential ( )NFPA 13R (X)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 - 14 Gpm System Type  
Listed Pres. at Start Point - 11.1 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 - 18'-0"Feet Size 1/2" K-Factor 4.2  
G Note: Temperature Rating 155  
N

Calculation Gpm Required 28.181 Psi Required 56.316 At Test  
Summary C-Factor Used: Overhead 150 Underground 150

W Water Flow Test: Pump Data: Tank or Reservoir:  
A Date of Test - 8/26/91 Rated Cap. Cap.  
T Time of Test - @ Psi Elev.  
E Static (Psi) - 64 Elev.  
R Residual (Psi) - 0 Other Well  
Flow (Gpm) - 1198 Proof Flow Gpm  
S Elevation -

P Location:  
P  
L Source of Information: PORTLAND WATER DISTRICT  
Y

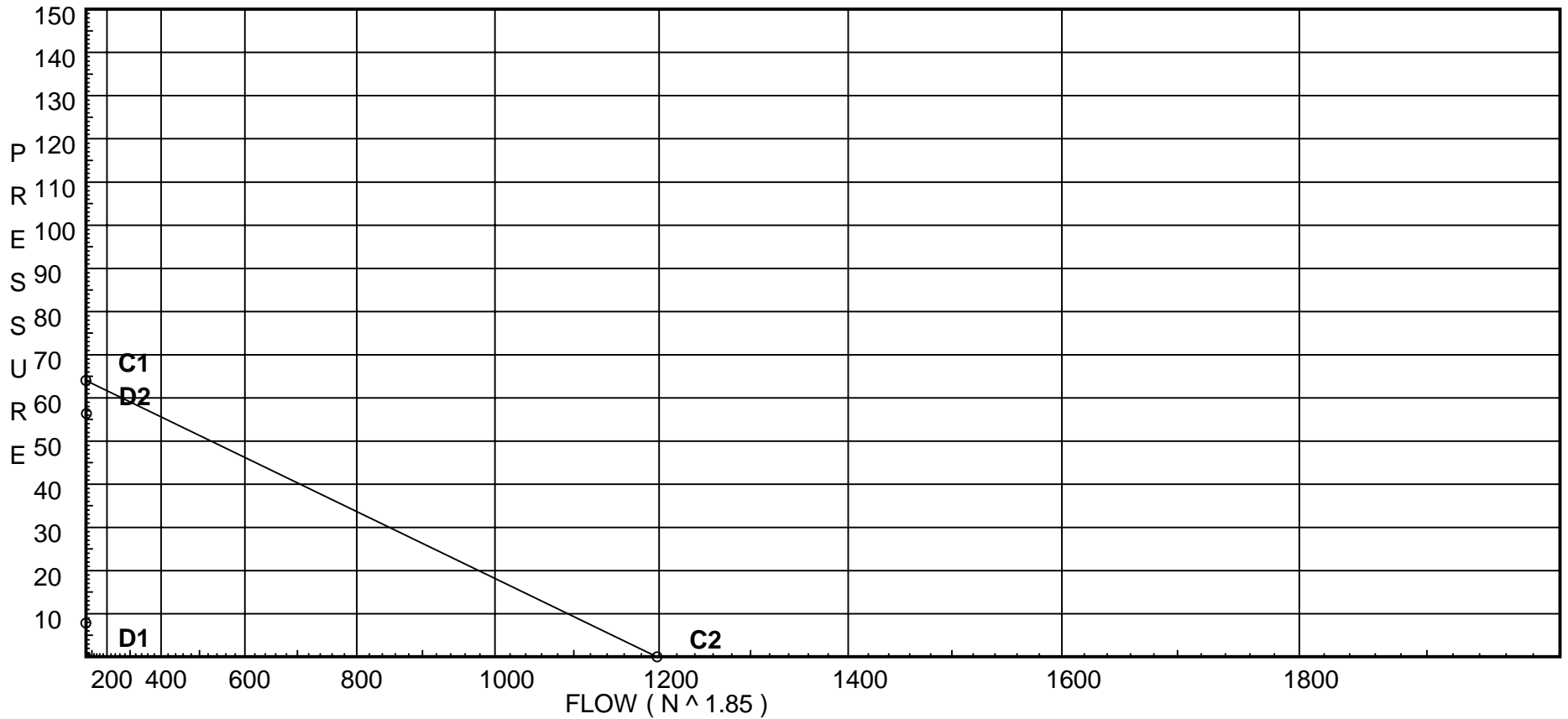
# Water Supply Curve (C)

FREEDOM FIRE PROTECTION INC.  
142 SHERIDAN STREET APARTMENT

Page 2  
Date 5/19/11

City Water Supply:  
C1 - Static Pressure : 64  
C2 - Residual Pressure: 0  
C2 - Residual Flow : 1198

Demand:  
D1 - Elevation : 7.796  
D2 - System Flow : 28.1813  
D2 - System Pressure : 56.316  
Hose ( Adj City ) : \_\_\_\_\_  
Hose ( Demand ) : \_\_\_\_\_  
D3 - System Demand : 28.1813  
Safety Margin : 7.622



# Fittings Used Summary

FREEDOM FIRE PROTECTION INC.  
142 SHERIDAN STREET APARTMENT

Page 3  
Date 5/19/11

## Fitting Legend

Abbrev.	Name	½	¾	1	1¼	1½	2	2½	3	3½	4	5	6	8	10	12	14	16	18	20	24
E	90' Standard Elbow	2	2	2	3	4	5	6	7	8	10	12	14	18	22	27	35	40	45	50	61
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
Zaa	Ames 2000B	Fitting generates a Fixed Loss Based on Flow																			

Pressure / Flow Summary - STANDARD

FREEDOM FIRE PROTECTION INC.  
142 SHERIDAN STREET APARTMENT

Page 4  
Date 5/19/11

Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
101	18.0	4.2	11.1	na	13.99	0.05	0.001	11.1
9	8.0		16.05	na				
102	18.0	4.2	11.41	na	14.19	0.05	0.001	11.1
8	8.0		16.38	na				
7	8.0		16.69	na				
6	8.0		21.6	na				
5	8.0		30.43	na				
4	8.0		31.54	na				
3	8.0		33.83	na				
2	8.0		35.56	na				
1	0.0		44.75	na				
0	0.0		55.67	na				
TEST	0.0		56.32	na				

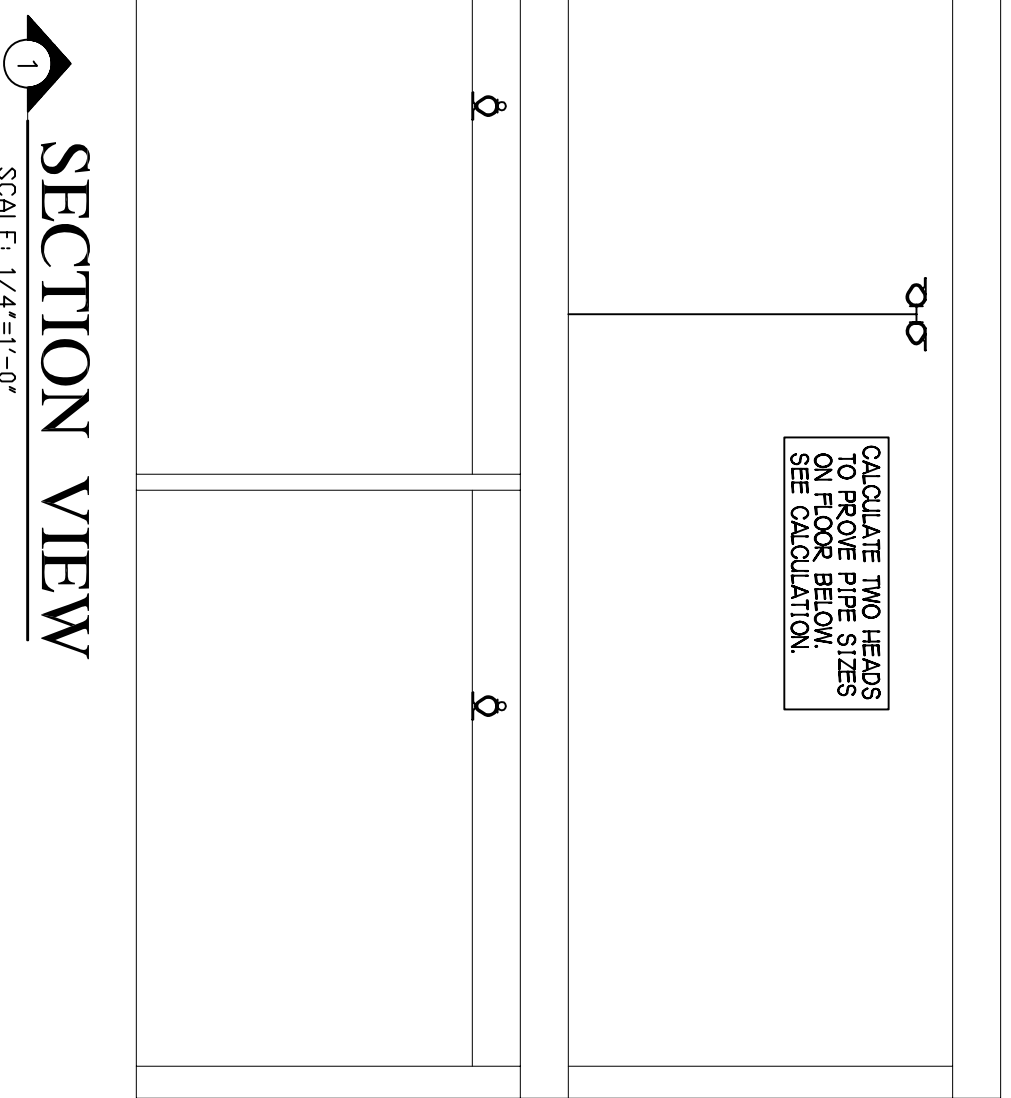
The maximum velocity is 18.68 and it occurs in the pipe between nodes 1 and 0

Final Calculations - Hazen-Williams

FREEDOM FIRE PROTECTION INC.  
142 SHERIDAN STREET APARTMENT

Page 5  
Date 5/19/11

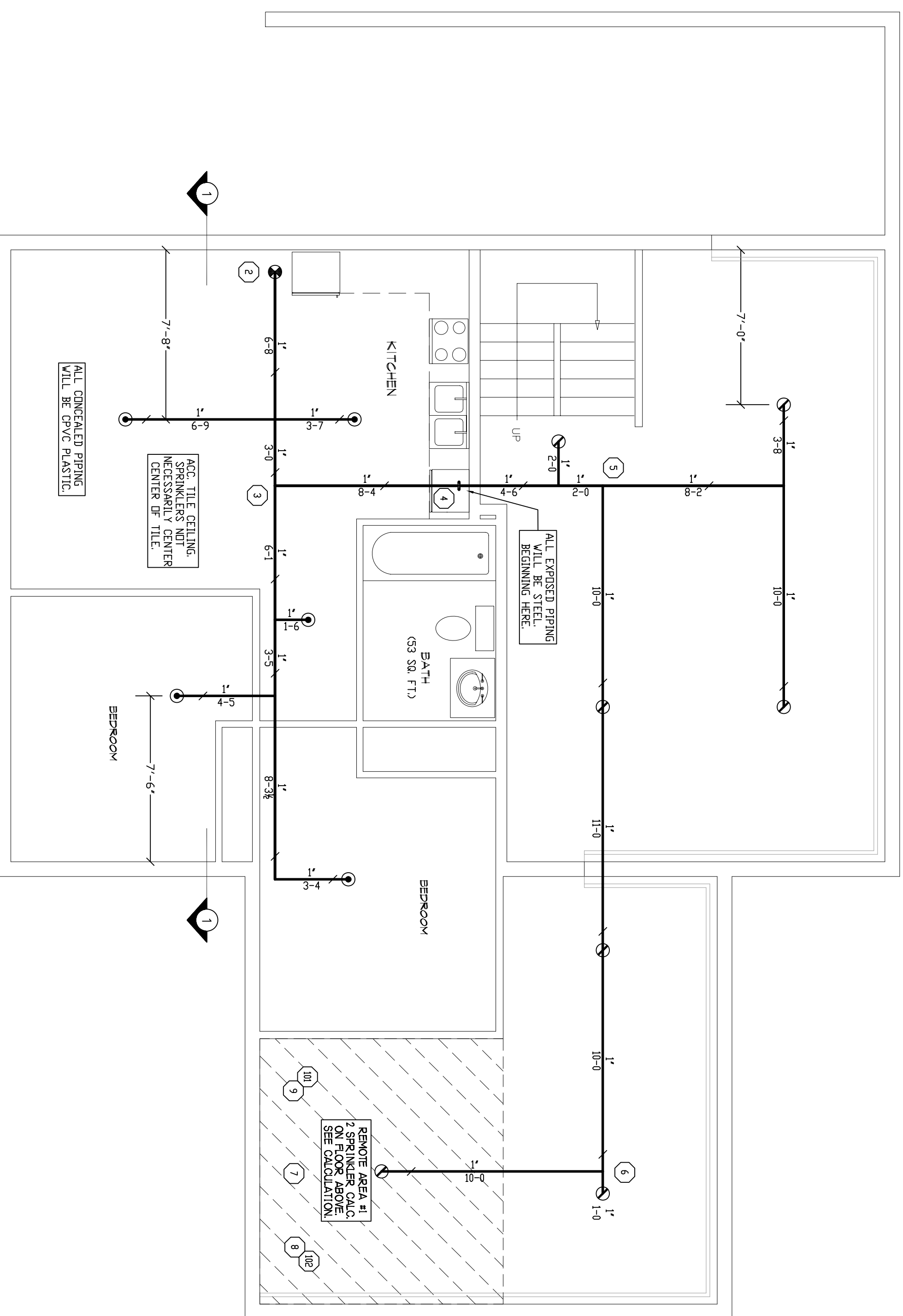
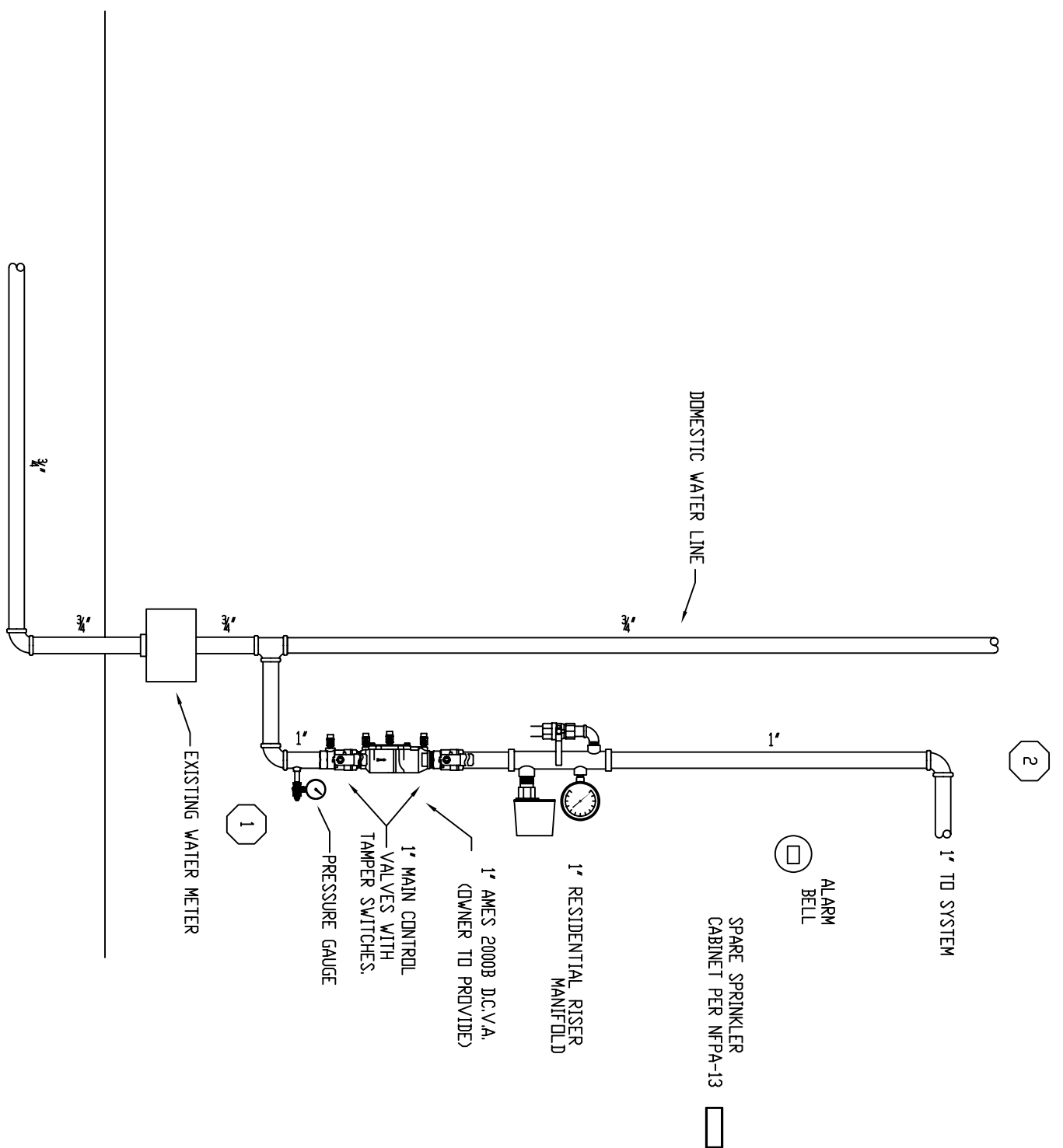
Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
101 to 9	13.99	1.101 150	2E	7.65 0.0	10.000 7.650	11.100 4.331		K Factor = 4.20	
9 to 7	13.99	0.0351		0.0	17.650	0.620		Vel = 4.71	
9 to 7	0.0	1.049 120	1T	5.0 0.0	4.500 5.000	16.051 0.0			
	13.99	0.0673		0.0	9.500	0.639		Vel = 5.19	
	0.0 13.99					16.690		K Factor = 3.42	
102 to 8	14.19	1.101 150	2E	7.65 0.0	10.000 7.650	11.412 4.331		K Factor = 4.20	
8 to 7	14.19	0.0360		0.0	17.650	0.636		Vel = 4.78	
8 to 7	0.0	1.049 120		0.0 0.0	4.500 0.0	16.379 0.0			
7 to 6	14.19	0.0691		0.0	4.500	0.311		Vel = 5.27	
7 to 6	13.99	1.049 120	1T	5.0 0.0	15.000 5.000	16.690 0.0			
6 to 5	28.18	0.2454		0.0	20.000	4.908		Vel = 10.46	
6 to 5	0.0	1.049 120	1T	5.0 0.0	31.000 5.000	21.598 0.0			
5 to 4	28.18	0.2454		0.0	36.000	8.835		Vel = 10.46	
5 to 4	0.0	1.049 120		0.0 0.0	4.500 0.0	30.433 0.0			
4 to 3	28.18	0.2453		0.0	4.500	1.104		Vel = 10.46	
4 to 3	0.0	1.101 150	1T	9.563 0.0	8.330 9.562	31.537 0.0			
3 to 2	28.18	0.1283		0.0	17.892	2.296		Vel = 9.50	
3 to 2	0.0	1.101 150	1E	3.825 0.0	9.660 3.825	33.833 0.0			
2 to 1	28.18	0.1284		0.0	13.485	1.731		Vel = 9.50	
2 to 1	0.0	1.049 120	1Zaa	0.0 0.0	7.000 0.0	35.564 7.465		* Fixed loss = 4	
1 to 0	28.18	0.2453		0.0	7.000	1.717		Vel = 10.46	
1 to 0	0.0	0.785 150	1E	2.387 0.0	14.000 2.386	44.746 0.0			
0 to TEST	28.18	0.6665		0.0	16.386	10.921		Vel = 18.68	
0 to TEST	0.0	2.245 120	1E	7.476 0.0	100.000 7.476	55.667 0.0			
	28.18	0.0060		0.0	107.476	0.649		Vel = 2.28	
	0.0 28.18					56.316		K Factor = 3.76	



POSITIVELY SPRINGED BOLLARDS  
TO BE INSTALLED TO BE  
ABLE TO WITHSTAND THE  
IMPACT OF A CAR PER DATE NOT PART  
OF THIS CONTRACT.

## GENERAL NOTES

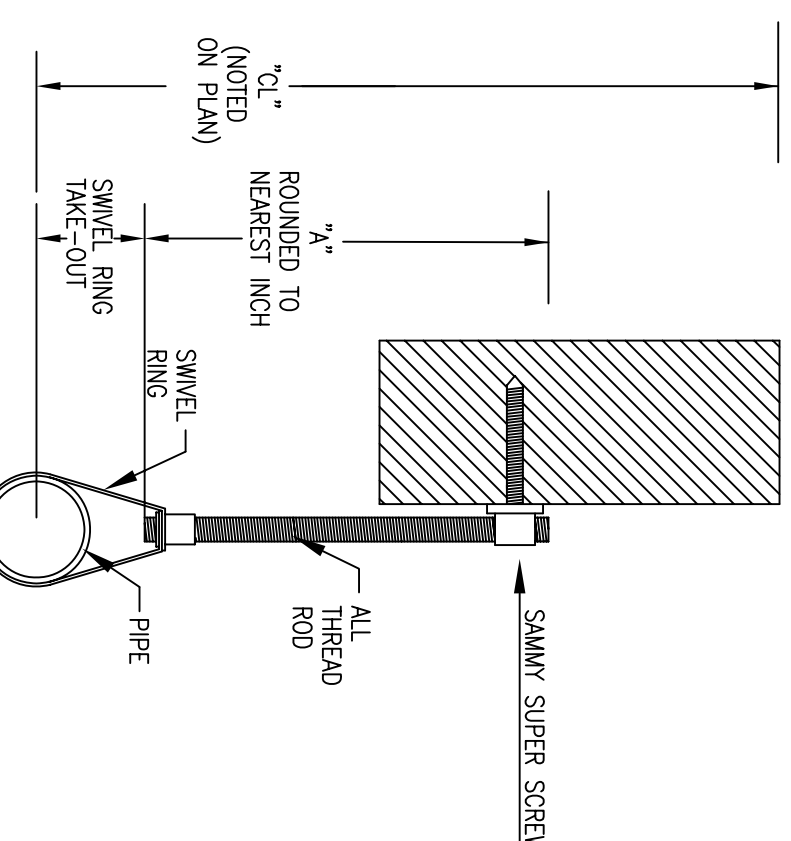
- 1) SYSTEM TO BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA-13B 2007.
- 2) PIPE AND FITTINGS TO BE COMPOSITION OF BLACK STEEL SCH 40 TYPE AND APPROVED MANUFACTURERS TO BE LISTED SPECIFICALLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 3) ALL SPRINKLING DEVICES BY OTHERS MAY SPACING OF DEVICES BY OTHERS.
- 4) SPRINKLER HEADS OF EACH TYPE SHALL BE PROVIDED PER NFPA 13.
- 5) SPRINKLERS MAY BE OMITTED FROM THE FOLLOWING:
  - a) BATHROOMS WHERE THE AREA DOES NOT EXCEED 55 SQ FT AND THE WALLS AND CEILINGS INCLUDING BATHING FIXTURES, ARE OF NON-COMBUSTIBLE OR LIMITED COMBUSTIBLE MATERIALS PROVIDING A 15 MINUTE THERMAL BARRIER.
  - b) CLOSET'S CLOSET'S, LINEN CLOSET'S, AND PANTRIES WITHIN THE DWELLING UNITS WHERE THE AREA OF THE SPACE DOES NOT EXCEED 64 SQ FT, AND THE LEAST DIMENSION DOES NOT EXCEED 3 FT AND THE WALLS AND CEILINGS ARE SURFACED WITH NON-COMBUSTIBLE OR LIMITED COMBUSTIBLE MATERIALS AS DEFINED BY NFPA.
  - c) ANY PORCHES, BALCONIES, CORRIDORS, AND STAIRS THAT ARE OPEN AND ATTACHED.
  - d) ATTICS, PENITENTIARY EQUIPMENT ROOMS, GYMNASIUMS, STORAGE SPACES, ELEVATOR SHAFTS, AND OTHER UNINHABITED SPACES THAT ARE NOT USED OR INTENDED FOR LIVABLE PURPOSES OR STORAGE.
- 6) MAINTENANCE OF THE SPRINKLER SYSTEM IS THE RESPONSIBILITY OF THE OWNER. PROTECTION OF THE SPRINKLER SYSTEM AGAINST FREEZING IS THE RESPONSIBILITY OF THE OWNER.



## GROUND FLOOR FIRE PROTECTION

1 1/2" 2" 1" QUANTITY Q = 7  
SCALE 1/4"=1'-0" QUANTITY Q = 5

ITEM	QTY	UNIT
SPRINKLERS	7	SPRINKLERS
FLOW CONTROL	2	FLOW CONTROL
VALVES	1	VALVES
PIPING	1	PIPING
TOTAL	11	TOTAL



## TYPE #10 HANGER

PIPE SIZES: 1" THROUGH 4" - ROD SIZE 3/8"  
PIPE SIZES: 5" THROUGH 8" - ROD SIZE 1/2"  
NO SCALE

REVISIONS	NOTES

HEAD COUNT										
SPRINKLER TYPE	IDENTIFICATION NO.	MFG.	ESC.	MODEL	FINISH	ORIFICE	TEAM	SYMBOL	QUANT.	
QUICK RESP. FROUNT	6-4.9	T72224	T7224	SMBRZ	LT1	WHITE	1/2"	SS*	Q	7
QUICK RESP. FROUNT	6-4.9	T72224	T7224	N/A	LTI	BRASS	1/2"	SS*	Q	5
TOTAL SPRINKLERS THIS DRAWING										

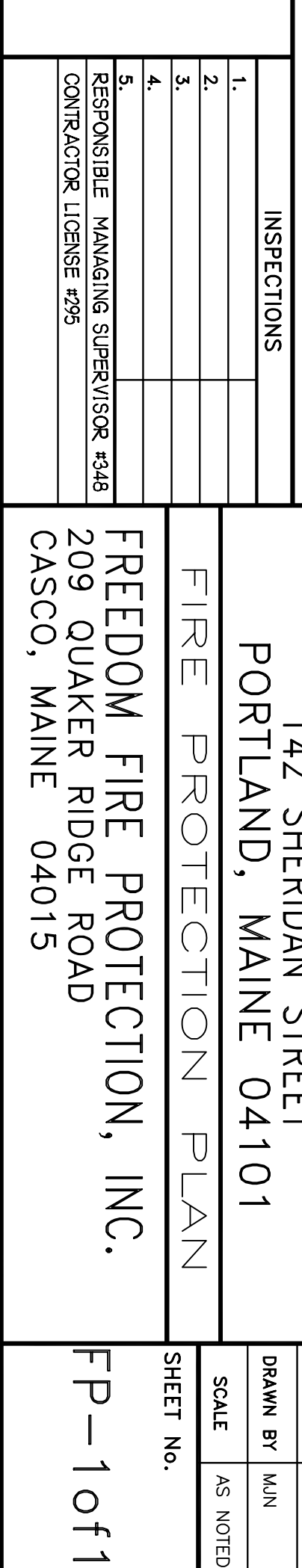
STANDARD SYMBOLS	
	ALARM CHECK VALVE
	KEY VALVE
	FIRE HYDRANT
	FIRE DEPT. CONNECTION
	O.S. & Y GATE VALVE
	SWING CHECK VALVE
	NON-IMPEDING VALVE
	FLUSH FIRE DEPT. CONNECTION

STANDARD SYMBOLS	
	ALARM CHECK VALVE
	RISER W/ALARM VALVE
	RISER W/ALARM VALVE
	RISER W/ELEC. FLOW SWITCH
	RISER W/VELOC. VALVE
	WATER MOTOR BELL
	ELECTRIC BELL
	FLUSH FIRE DEPT. CONNECTION

INSPECTIONS	
1.	
2.	
3.	
4.	
RESPONSIBLE MANAGING SUPERVISOR: 3448	
CONTRACTOR LICENSE #295	

FIRE PROTECTION PLAN	
142 SHERIDAN STREET APARTMENT	
142 SHERIDAN STREET	
PORTLAND, MAINE 04101	
FREDDOM FIRE PROTECTION, INC.	
209 QUAKER RIDGE ROAD	
CASCO, MAINE 04015	

JOB No.	M0038
DATE	5/19/11
DRAWN BY	MAN
SCALE	AS NOTED
SHEET No.	FP-1 of 1



STATIC PRESSURE	44 PSI
OSHA PRESSURE	44 PSI
OSHA PRESSURE	44 PSI
OSHA PRESSURE	44 PSI
SINGLE HYDRANT TEST	

AGENCY: 26, 108  
BY: OAKLAND WATER DISTRICT

**SITE PLAN**  
SCALE: 1"=30'-0"