

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT



This is to certify that

GIRARD ANDREA ELISABETH /Sprinkler Services Inc.

Located at

197 WARREN AVE

PERMIT ID: 2012-65614

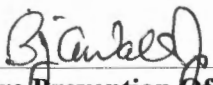
CBL: 295 A007001

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 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 procured prior to occupancy.


Fire Prevention Officer

58

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 - Building or Use Permit

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

Permit No: 201265614	Date Applied For: 12/13/2012	CBL: 295 A007001
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Location of Construction: 197 WARREN AVE	Owner Name: GIRARD ANDREA ELISABETH	Owner Address: 100 BLACKSTRAP RD	Phone:
Business Name:	Contractor Name: Sprinkler Services Inc.	Contractor Address: PO Box 809 Windham	Phone (207) 892-1415
Lessee/Buyer's Name	Phone:	Permit Type: Fire Suppression System	

Proposed Use: Single Family	Proposed Project Description: install NFPA 13D sprinkler system.
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Dept: Zoning	Status: Approved	Reviewer: Marge Schmuckal	Approval Date: 12/13/2012
Note:	Ok to Issue: <input checked="" type="checkbox"/>		

Dept: Fire	Status: Approved w/Conditions	Reviewer: Ben Wallace Jr	Approval Date: 01/01/2013
Note:	Ok to Issue: <input checked="" type="checkbox"/>		
1) A copy of the required state sprinkler permit with RMS signoff shall be provided prior to the final inspection. 2) All control valves shall be supervised in accordance with NFPA 13D. Pad locks shall only be installed on valves designed to be secured in the open position by pad lock. 3) The sprinkler system shall be installed in accordance with NFPA 13D.			

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 2012-65614	Issue Date:	CBL: 295 A007001
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Location of Construction: 197 WARREN AVE	Owner Name: GIRARD ANDREA ELISABETH	Owner Address: 100 BLACKSTRAP RD	Phone:
Business Name:	Contractor Name: Sprinkler Services Inc.	Contractor Address: PO Box 809 Windham	Phone: (207) 892-1415
Lessee/Buyer's Name	Phone:	Permit Type: Fire Suppression System	Zone: B4
Past Use: Single Family	Proposed Use: Single Family	Permit Fee:	Cost of Work: \$0.00
		FIRE DEPT: 1/1/13 <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <input type="checkbox"/> N/A	INSPECTION: Use Group: Type:
Proposed Project Description: SF Sprinkler System		Signature: <i>[Signature]</i> Signature: <i>[Signature]</i>	
		PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.) Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Signature: Date:	

Permit Taken By: bjs	Date Applied For: 12/13/2012	Zoning Approval		
<ol style="list-style-type: none"> This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. Building permits do not include plumbing, septic or electrical work. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work.. 		Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: <i>12/13/12</i>	Zoning Appeal <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:	Historic Preservation <input checked="" type="checkbox"/> Not in District 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>

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	

874-8450

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: 197 Warren Ave.

Building owner: Andrea Girard Phone: 828-4650

Installer: Sprinkler Services Inc. Phone: 899-1415

Total sq/ft of building floor space per unit: 946 Sq. Ft. Single-family home

Sq/ft of sprinklered floor space per unit: _____ Two-family home

Is this a multipurpose piping system? Y / N Sprinkler piping uses Pex? Y / N

Water supply: Municipal Water Well pump Stored water Other

Include electronic copy of approved State Sprinkler Permit plans:

Additional cost to the owner for the home fire sprinkler system for each dwelling unit minus costs necessary for domestic needs (See below): **A =** 6,810

Attach cost breakdown: A City plumbing permit has been pulled:

RECEIVED
DEC 13 2012
Dept. of Building Inspections
City of Portland Maine

COST OF WORK: 6,810
(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.



State of Maine
Department of Public Safety



Fire Sprinkler System Permit

10366

197 Warren Ave

Located at: 197 Warren Avenue
In the Town of: Portland
Occupancy/Use: residential
Type of System: NFPA 13D

Permission is hereby given to:

Sprinkler Services

PO Box 809
Windham, ME 04062
Contractor License # 22

to begin installation according to plans submittal approved by the Office of State Fire Marshal.
The submittal is filed under log # 2121535, 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 11/28/2012 for a fee paid of \$25.00

This permit will expire at midnight on Monday, May 27, 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

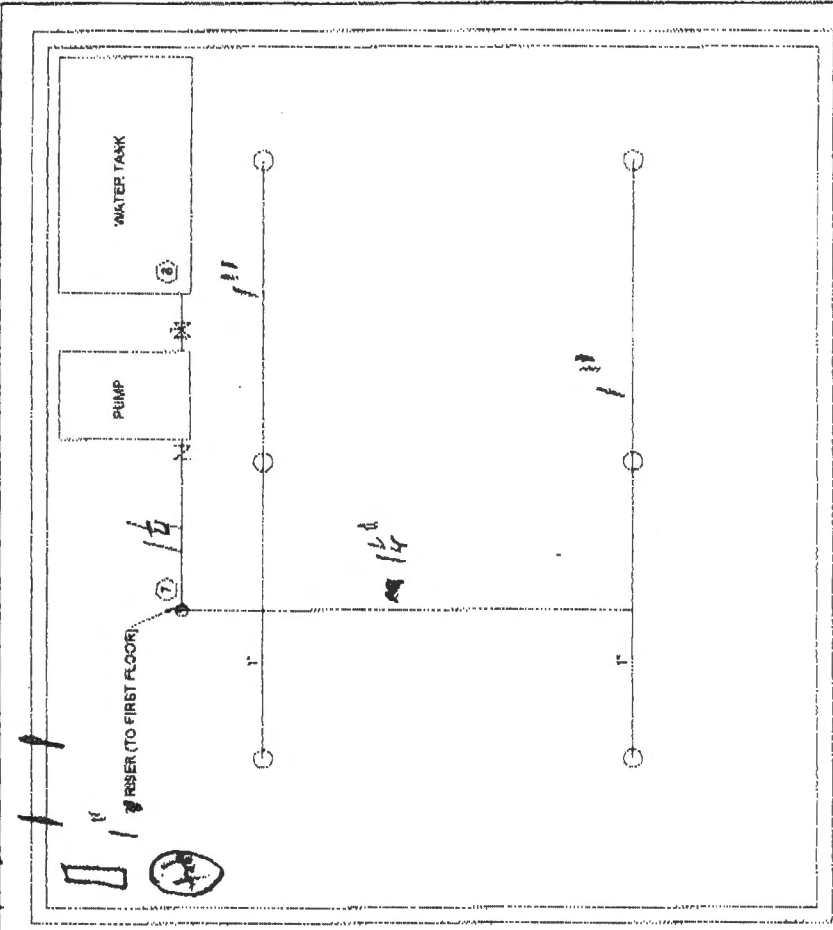
Within 30 days of the completion of a new fire sprinkler system or an addition to an existing fire sprinkler system, a fire sprinkler system contractor shall provide to the Office of State Fire Marshal a copy of this permit signed and dated by the certified Responsible Managing Supervisor representing 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 for this job: Cummings, (FPE) W. Mark

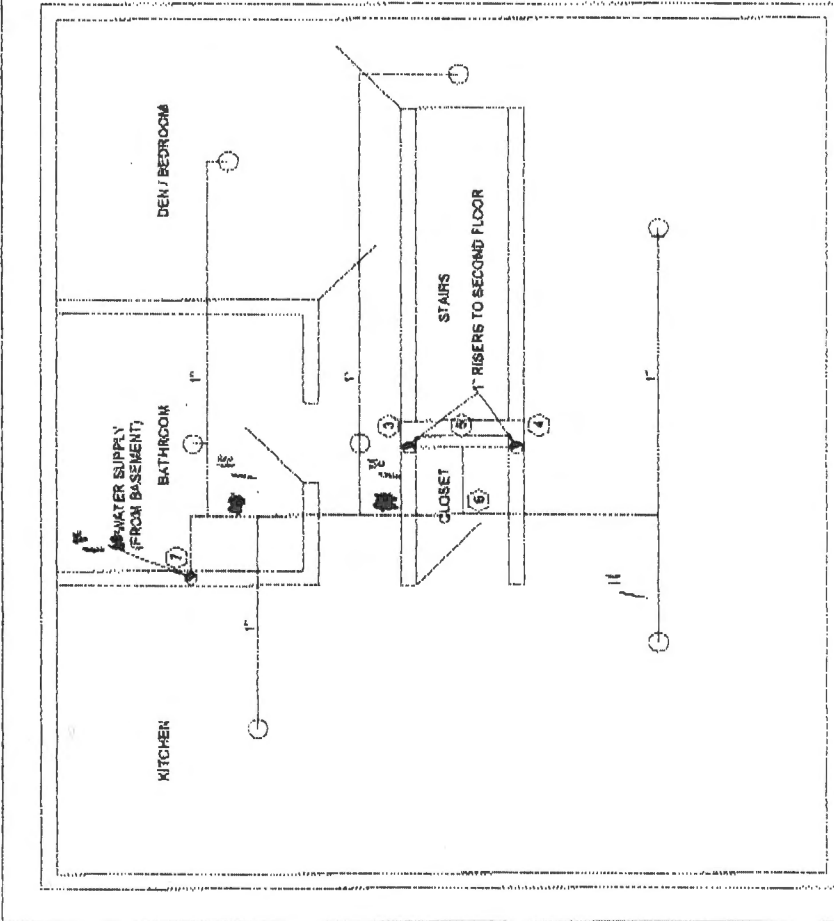
RMS Signature: _____

Chris 8400
 Capt. Perone 874-8405
 Lt. Wallace

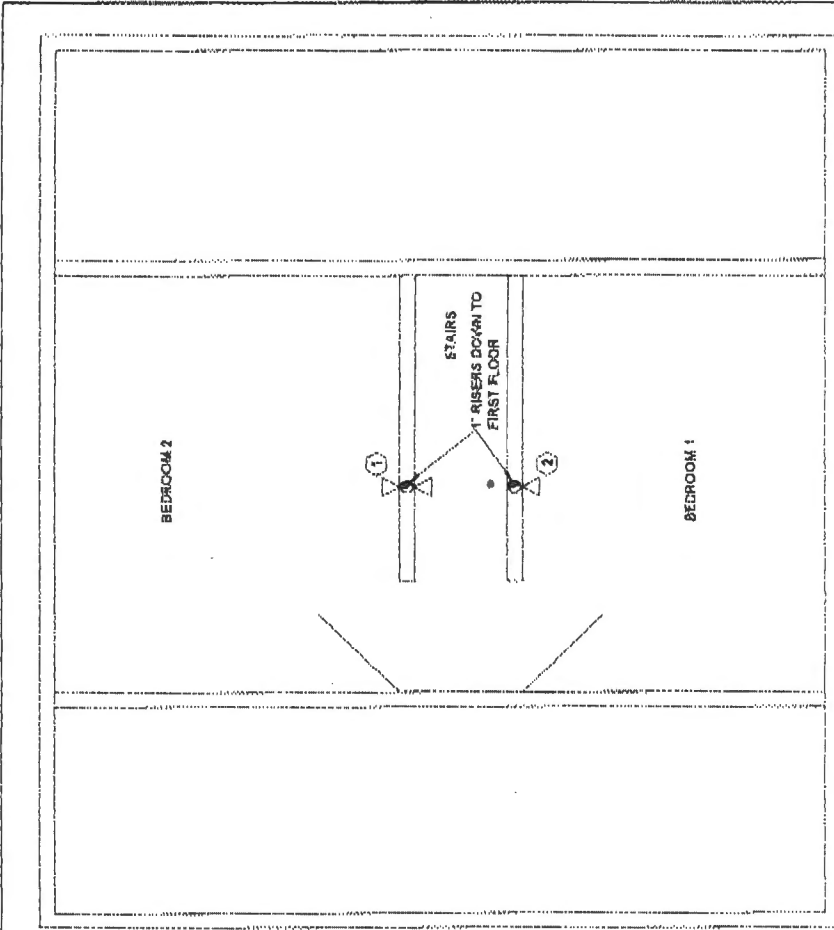


BASEMENT

Manufacture Model Size Type Total Sprinklers (Not Double)		Sprinkler Symbols 1 - Standard Sprinkler 2 - Dry Sprinkler 3 - Pre-action Sprinkler 4 - Deluge Sprinkler 5 - Standpipe Sprinkler 6 - Other Sprinkler 7 - Other Sprinkler 8 - Other Sprinkler 9 - Other Sprinkler 10 - Other Sprinkler		Sprinkler Symbols 1 - Standard Sprinkler 2 - Dry Sprinkler 3 - Pre-action Sprinkler 4 - Deluge Sprinkler 5 - Standpipe Sprinkler 6 - Other Sprinkler 7 - Other Sprinkler 8 - Other Sprinkler 9 - Other Sprinkler 10 - Other Sprinkler		Designed by: FIREBIRMANN CONSULTING, INC. 10000 15th Street, Suite 100 Dallas, TX 75244 Project #100-01-0001-001		Revisions:		Job No.: 12-01079 Date: 11-28-07 Origin: JLU Scale: N/A = 1/2"		197 Warren Avenue Portland, ME BASEMENT LEVEL SPRINKLER PLAN FP-100	
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FIRST FLOOR

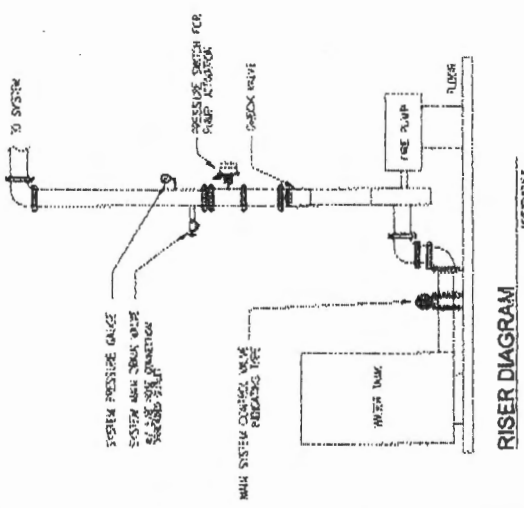


SECOND FLOOR

Manufacturer Fire Alarm 1000		Special Notes None		Standard Symbols 1 - Water Supply (From Basement) 2 - Sprinkler 3 - Alarm Bell 4 - Alarm Panel 5 - Alarm Control 6 - Alarm Receiver 7 - Alarm Initiator		Project Symbols 1 - Sprinkler 2 - Alarm Panel 3 - Alarm Receiver 4 - Alarm Control 5 - Alarm Initiator		Designed by: Fire Risk Management, Inc. 1000 North 10th Street, Suite 100 Phoenix, AZ 85016		Revisions: Job No.: 13-5107D Date: 11-26-2012 Drawn: J.H. Scale: 1/4" = 1'-0"		187 Wierman Avenue Phoenix, AZ FP-101 SPRINKLER PLAN	
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NOTES

- 1. ALL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE SYSTEMS WILL BE INSTALLED PRIOR TO THE START OF WORK. THE EXACT LOCATION OF STORAGE COMPARTMENTS WITHIN APARTMENT SPACES/AREAS.
- 2. ALL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE SYSTEMS WILL BE INSTALLED PRIOR TO THE START OF WORK. THE EXACT LOCATION OF STORAGE COMPARTMENTS WITHIN APARTMENT SPACES/AREAS.
- 3. ALL COMPONENTS, MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE LOCAL AUTHORITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO COMMENCEMENT OF WORK.
- 4. ALL PIPE WORKER LOCATIONS WILL BE VERIFIED TO ACCORDANCE WITH THE SYSTEMS WILL BE INSTALLED PRIOR TO THE START OF WORK. THE EXACT LOCATION OF STORAGE COMPARTMENTS WITHIN APARTMENT SPACES/AREAS.
- 5. ALL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE SYSTEMS WILL BE INSTALLED PRIOR TO THE START OF WORK. THE EXACT LOCATION OF STORAGE COMPARTMENTS WITHIN APARTMENT SPACES/AREAS.
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RISER DIAGRAM

WARRANTY SPRINKLER SYSTEM DESCRIPTION
 INSTALLATION OF A NEW WET SPRINKLER SYSTEM IN A TYPICAL BUILDING. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE SYSTEMS WILL BE INSTALLED PRIOR TO THE START OF WORK. THE EXACT LOCATION OF STORAGE COMPARTMENTS WITHIN APARTMENT SPACES/AREAS.

MANUAL CHANGE RATCHET EXIT JANGERS (EYES)	1	1-4	1-4	7	1-5	3	6	5
MANUAL HOPE BOX (EYES)	1	1-4	1-4	7	1-5	3	6	5
SMALL BOX (EYES)	1	1-4	1-4	7	1-5	3	6	5

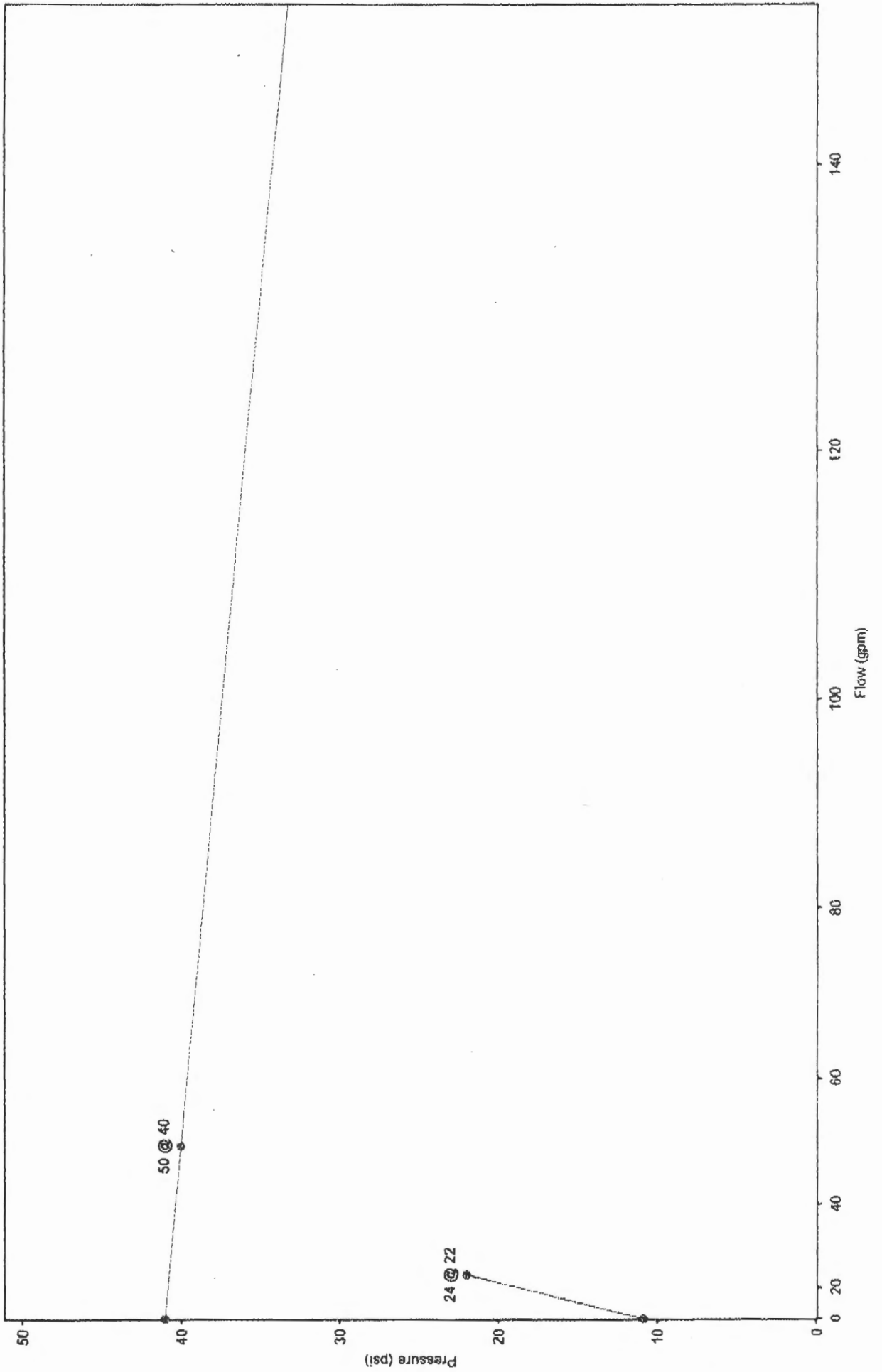
187 Warren Avenue
Portland, ME
BASEMENT LEVEL
SPRINKLER PLAN
FP-001

Project: 187 Warren Ave., Portland, ME
 Date: 11-18-2013
 Design: A.J.T.
 Scale: 1/4" = 1'-0"

Designed by:

FIRE RISK MANAGEMENT INC.
 Project: 187 Warren Ave., Portland, ME
 Date: 11-18-2013
 Design: A.J.T.
 Scale: 1/4" = 1'-0"

Standard Symbols	Symbol	Standard Symbols	Symbol
1 - Fire Alarm Control Panel	1	1 - Alarm Check Valve	1
2 - Fire Alarm Control Panel	2	2 - Alarm Check Valve	2
3 - Fire Alarm Control Panel	3	3 - Alarm Check Valve	3
4 - Fire Alarm Control Panel	4	4 - Alarm Check Valve	4
5 - Fire Alarm Control Panel	5	5 - Alarm Check Valve	5
6 - Fire Alarm Control Panel	6	6 - Alarm Check Valve	6
7 - Fire Alarm Control Panel	7	7 - Alarm Check Valve	7
8 - Fire Alarm Control Panel	8	8 - Alarm Check Valve	8
9 - Fire Alarm Control Panel	9	9 - Alarm Check Valve	9
10 - Fire Alarm Control Panel	10	10 - Alarm Check Valve	10



Hydraulic Summary

WATER SUPPLY INFORMATION:

Static (psi):	41.00
Residual (psi):	40.00
@ (gpm):	50.00
Hose (gpm):	0.00

System req. (gpm):	23.97
@ (psi):	21.96

Supply available:	40.74 psi
Safety margin:	18.78 psi

Maximum velocity in the system is: 8.90 ft/sec in the pipe between Nodes: 5 and 6

Continuity at all nodes satisfied to: 0.01 gpm

Pipe Type Legend

40 = Schedule 40

Fitting Type Legend

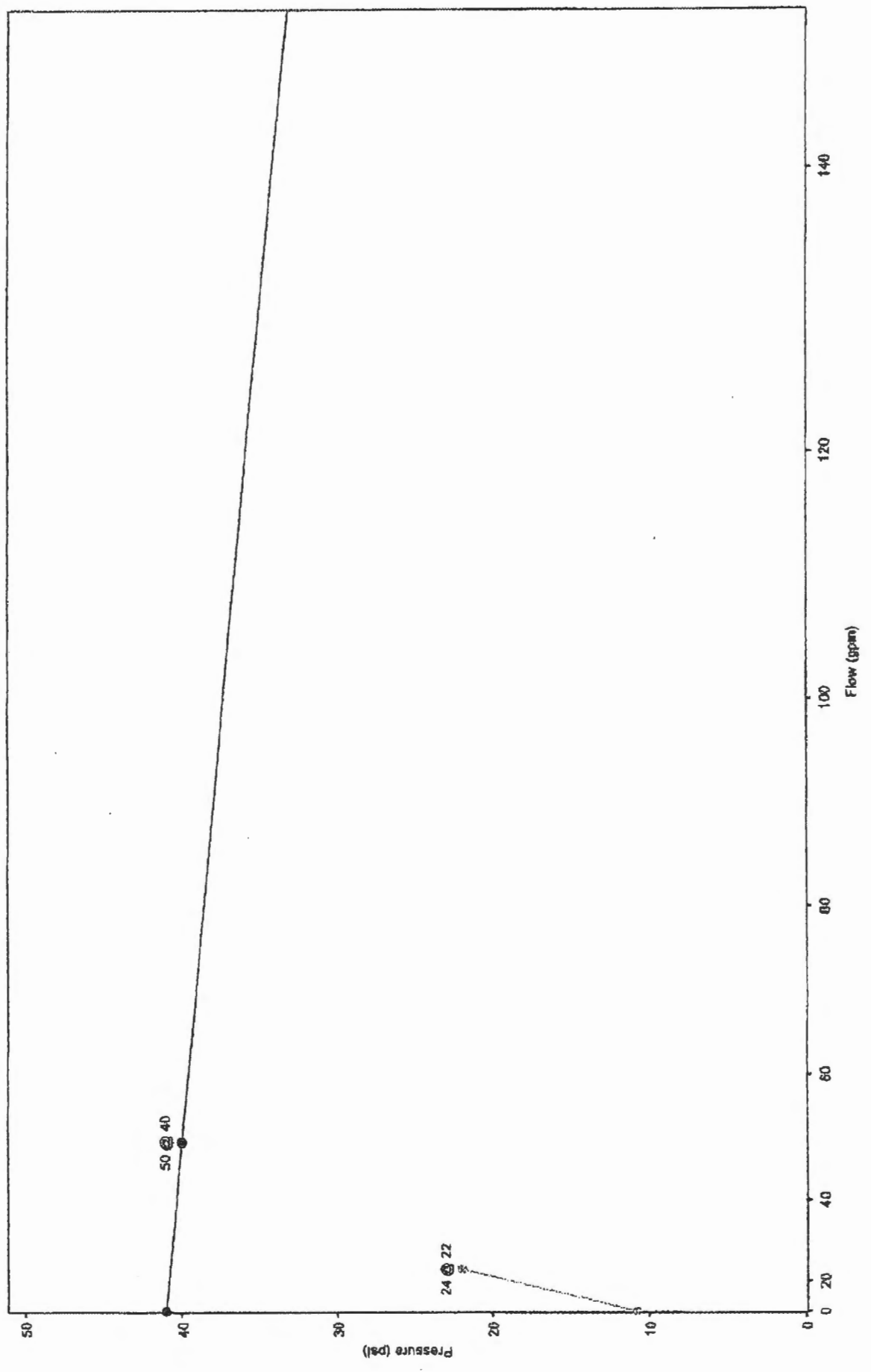
E = 90 degree standard elbow
T = Tee (flow turned 90 degrees)
CV = Swing check valve
GV = Gate valve

NOTES:

Reference	Nozzle Type & Location	Flow in gpm	Pipe Fittings Size & Devices	Pipe Eqiv. Length	Friction Loss psi/ft	Req. psi	Notes
1	4.00	q	11.99	1.049	lgth	7.000	Pt 9.00
to		Q	11.99	120 E	ftg	2.000	Pf 0.45
3					tot	9.000	Pe 3.03
2	4.00	q	11.99	1.049	lgth	7.000	Pt 9.00
to		Q	11.99	120 E	ftg	2.000	Pf 0.45
4					tot	9.000	Pe 3.03
3		q	0.00	1.049	lgth	1.250	Pt 12.49
to		Q	11.99	120 T	ftg	5.000	Pf 0.32
5					tot	6.250	Pe 0.00
4		q	0.00	1.049	lgth	1.250	Pt 12.49
to		Q	11.99	120 T	ftg	5.000	Pf 0.32
5					tot	6.250	Pe 0.00
5		q	0.00	1.049	lgth	2.500	Pt 12.80
to		Q	23.97	120	ftg	0.000	Pf 0.45
6					tot	2.500	Pe 0.00
6		q	0.00	1.610	lgth	11.000	Pt 13.26
to		Q	23.97	120 T, E	ftg	12.000	Pf 0.52
7					tot	23.000	Pe 0.00
7	Source	q	0.00	2.067	lgth	30.000	Pt 13.78
to		Q	23.97	120 3E, CV, GV	ftg	27.000	Pf 0.38
8					tot	57.000	Pe 7.80
		Qt	23.97				Pt 21.96

Water Supply vs. Sprinkler Demand

60 -



Reference	Nozzle Type & Location	Flow in gpm	Pipe Fittings Size & Devices	Pipe Eqiv. Length	Friction Loss psi/ft	Req. psi	Notes
1	4.00 q	11.99	1.049	lgth	7.000	Pt	9.00
to				ftg	2.000	Pf	0.45
3	Q	11.99	120 E	tot	9.000	Pe	3.03
2	4.00 q	11.99	1.049	lgth	7.000	Pt	9.00
to				ftg	2.000	Pf	0.45
4	Q	11.99	120 E	tot	9.000	Pe	3.03
3	q	0.00	1.049	lgth	1.250	Pt	12.49
to				ftg	5.000	Pf	0.32
5	Q	11.99	120 T	tot	6.250	Pe	0.00
4	q	0.00	1.049	lgth	1.250	Pt	12.49
to				ftg	5.000	Pf	0.32
5	Q	11.99	120 T	tot	6.250	Pe	0.00
5	q	0.00	1.049	lgth	2.500	Pt	12.80
to				ftg	0.000	Pf	0.45
6	Q	23.97	120	tot	2.500	Pe	0.00
6	q	0.00	1.610	lgth	11.000	Pt	13.26
to				ftg	12.000	Pf	0.52
7	Q	23.97	120 T, E	tot	23.000	Pe	0.00
7	q	0.00	2.067	lgth	30.000	Pt	13.78
to				ftg	27.000	Pf	0.38
8	Source	23.97	120 3E, CV, GV	tot	57.000	Pe	7.80
	Qt	23.97				Pt	21.96

File: HydCalcs_197WarrenAve.thc

Page 1 of 1

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Pipe Type Legend

40 = Schedule 40

Fitting Type Legend

E = 90 degree standard elbow
 T = Tee (flow turned 90 degrees)
 CV = Swing check valve
 GV = Gate valve

NOTES:

11/26/12

"THE" Sprinkler Program 2001

File: HydCalcs_197WarrenAve.the

Page 1 of 1

Reference	Nozzle Type & Location	Flow in gpm	Pipe Fittings Size & Devices	Pipe Eqiv. Length	Friction Loss psi/ft	Req. psi	Notes
1	4.00 q	11.99	1.049	lgth 7.000		Pt 9.00	
to	Q	11.99	120 E	ftg 2.000	0.050	Pf 0.45	
3				tot 9.000		Pe 3.03	
2	4.00 q	11.99	1.049	lgth 7.000		Pt 9.00	
to	Q	11.99	120 E	ftg 2.000	0.050	Pf 0.45	
4				tot 9.000		Pe 3.03	
3	q	0.00	1.049	lgth 1.250		Pt 12.49	
to	Q	11.99	120 T	ftg 5.000	0.050	Pf 0.32	
5				tot 6.250		Pe 0.00	
4	q	0.00	1.049	lgth 1.250		Pt 12.49	
to	Q	11.99	120 T	ftg 5.000	0.050	Pf 0.32	
5				tot 6.250		Pe 0.00	
5	q	0.00	1.049	lgth 2.500		Pt 12.80	
to	Q	23.97	120	ftg 0.000	0.182	Pf 0.45	
6				tot 2.500		Pe 0.00	
6	q	0.00	1.610	lgth 11.000		Pt 13.26	
to	Q	23.97	120 T, E	ftg 12.000	0.023	Pf 0.52	
7				tot 23.000		Pe 0.00	
7	q	0.00	2.067	lgth 30.000		Pt 13.78	
to	Q	23.97	120 3E, CV, GV	ftg 27.000	0.007	Pf 0.38	
8	Source			tot 57.000		Pe 7.80	
	Qt	23.97				Pt 21.96	

11/28/12

"THE" Sprinkler Program 2001