DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND
BUILDING PERMIT

This is to certify that

HAMMOND APARTMENTS LLC /Sprinkler System, Inc

Located at

56 HAMMOND ST

PERMIT ID: 2012-65580

CBL: 010 G002001

has permission to **install supervised NFPA 13R sprinkler systems for building A & B (10-G-2 & 3)** 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 clsoed-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.

B Weinberg 58

Fire Prevention Officer

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:	Date Applied For:	CBL:
201265580	12/11/2012	010 G002001

Location of Construction:	Owner Name:	Owner Address:	Phone:
56 HAMMOND ST	HAMMOND APARTMENTS LLC	PO BOX 1398	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Sprinkler System, Inc	P.O. Box 1285 Lewiston	(207) 782-0104
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	
		Fire Suppression System	

Proposed Use:	Proposed Project Description:
Same: three residential dwelling units on each lot	install supervised NFPA 13R sprinkler systems for building A & B (10-G-2 & 3)

Dept: Zoning **Status:** Approved **Reviewer:** Marge Schmuckal **Approval Date:** 12/13/2012

Note: **Ok to Issue:** ☑

Dept: Fire **Status:** Approved w/Conditions **Reviewer:** Ben Wallace Jr **Approval Date:** 01/01/2013

Note: **Ok to Issue:** ☑

1) All control, drain, and test connection valves shall be provided with permanently marked weatherproof metal or rigid plastic identification signs secured with corrosion-resistant wire, chain, or other approved means.
2) A 4100 series Knox Box is required. A hinged 3200 series Knox Box may be installed if the building is master keyed.
3) The entire sprinkler system shall be maintained in accordance with NFPA 25, Standard for Inspection, Testing and Maintenance of Water-Based Fire Protection Systems, 2008 edition.
4) System acceptance and commissioning must be coordinated with alarm and suppression system contractors and the Fire Department. Call 874-8703 to schedule.
5) Fire department connection shall be one 2 ½" for each building.
6) 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.
7) A separate fire alarm permit is required for each building.
8) A sprinkler supervisory system shall be provided for each building 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.
9) Installation shall be in accordance with the City of Portland Fire Department Regulations and NFPA 13R as published. A copy of the State Sprinkler permit(s) with RMS date and signature and the Contractor's Material and Test Certificates for Aboveground Piping (NFPA 13R figure 10.1.2) shall be provided prior to scheduling of a final inspection.

Dept: DRC **Status:** **Reviewer:** **Approval Date:**

Note: **Ok to Issue:** ☐

City of Portland, Maine - Building or Use Permit Application

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

Permit No:	Issue Date:	CBL: 210-G-003
2012-65580		010 G002001

Location of Construction:	Owner Name:	Owner Address:	Phone:
56 HAMMOND ST	HAMMOND APARTMENTS LLC	PO BOX 1398	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Sprinkler System, Inc	P.O. Box 1285 Lewiston	(207) 782-0104
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	**Zone:**
		Fire Alarm System	R6

Past Use:	Proposed Use:	Permit Fee:	Cost of Work:	CEO District:
two lots - each lot has a 3 residentiall DUs on it after the split	Same: three residential dwelling units on each lot	$50.00	$3,000.00	1

FIRE DEPT: ☑ Approved ☐ Denied ☐ N/A

1/1/13

Signature: (58)

INSPECTION: Use Group: Type:

Signature:

Proposed Project Description:
Install water based fire suppression system for building A & B (10-G-2 & 3)

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)

Action: ☐ Approved ☐ Approved w/Conditions ☐ Denied

Signature: Date:

Permit Taken By:	Date Applied For:
ldobson	12/11/2012

1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
2. Building permits do not include plumbing, septic or electrical work.
3. 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..

Zoning Approval

Special Zone or Reviews	Zoning Appeal	Historic Preservation
☐ Shoreland	☐ Variance	☑ Not in District or Landmark
☐ Wetland	☐ Miscellaneous	☐ Does Not Require Review
☐ Flood Zone	☐ Conditional Use	☐ Requires Review
☐ Subdivision	☐ Interpretation	☐ Approved
☐ Site Plan	☐ Approved	☐ Approved w/Conditions
Maj ☐ Minor ☐ MM ☐	☐ Denied	☐ Denied
Date: OK - 12/13/12	Date:	Date:

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

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: 56 Hammond Street CBL: 10-G-2 New 10-G-3

Exact location: (within structure) Building "A" & "B"

Type of occupancy(s) (NFPA & ICC): Residential - 3 Unit Apartment Buildings

Building owner: BH Milliken, 175 Anderson Street, Portland, ME 04101

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

Supervisor phone: 207-775-1521 E-mail: scottg@sprinklersystemsinc.cor

Installing contractor: Sprinkler Systems Inc. License No: 093

Contractor phone: 207-782-0104 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: NFPA #13-R 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 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: $3,000.00

PERMIT FEE: $50.00

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

RECEIVED
DEC 11 2012
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: Date: 12-7-2012

Sprinkler Systems, Inc.

P.O. Box 1285
Lewiston, ME 04243-1285

Letter of Transmittal

DATE 11-28-12	JOB # 12085
ATTENTION: Code Enforcement	
RE: Hammond Apts. Bldg. A & B 56 Hammond Street Portland, ME 04104	

TO: City of Portland
Code Enforcement
Room 315 City Hall
Portland, ME 04101

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** ☑ Hyd. Calcs., State of ME Permit, City of Portland permit App., Flow test info, Permit Check

COPIES	DATE	NO.	DESCRIPTION
1 each	11-20-12	1-4of4	Sprinkler Shop Drawings
1 each	11-20-12	7pg.	Hydraulic Calculations packet
1 each	11-20-12	1-4of4	11x17 Sprinkler Shop Drawings Reduction
1 each	12-3-12	10372	State of Maine Sprinkler permit
1 each	1-12-12	—	Flow test map
1 each	12-7-12		Portland Sprinkler permit App.
1 each	12-5-12	29026	$50.00 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 sprinkler permit.

Thank You
Ryan Ouellette

SIGNED: Ryan Ouellette
Project Designer

. . . Fire Protection by Computer Design

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

Job Name	:	56 HAMMOND STREET
Building	:	A & B (IDENTICAL BUILDINGS)
Location	:	56 HAMMOND STREET, PORTLAND, ME 04104
System	:	1 OF 1
Contract	:	12085
Data File	:	1208556HAMMONDSTREETA1.WXF

HYDRAULIC DESIGN INFORMATION SHEET

Name - 56 HAMMOND STREET Date - 11-20-2012
Location - 56 HAMMOND STREET, PORTLAND, ME 04104
Building - A & B (IDENTICAL BUILDINGS) System No. - 1 OF 1
Contractor - BH MILLIKEN Contract No. - 12085
Calculated By - SCOTT E. GARLAND Drawing No. - 1,2 OF 2
Construction: (X) Combustible ( ) Non-Combustible Ceiling Height VARIES
OCCUPANCY - RESIDENTIAL - 3 UNIT APARTMENT BLDG

SYSTEM DESIGN

Type of Calculation: ( )NFPA 13 Residential (X)NFPA 13R ( )NFPA 13D
Number of Sprinklers Flowing: ( )1 ( )2 (X)4 ( )
( )Other
( )Specific Ruling Made by Date

Listed Flow at Start Point - 17.0 Gpm System Type
Listed Pres. at Start Point - 12.0 Psi (X) Wet ( ) Dry
MAXIMUM LISTED SPACING 18 x 18 ( ) Deluge ( ) PreAction
Domestic Flow Added - Gpm Sprinkler or Nozzle
Additional Flow Added - Gpm Make RELIABLE Model F1RES49
Elevation at Highest Outlet - 58.542Feet Size 1/2 X 1/2 K-Factor 4.9
Note: Temperature Rating 155 DEG
DESIGN AREA #1 - 3RD FLOOR BEDROOM/STAIR/LIVING

Calculation Summary Gpm Required 68.701 Psi Required 69.754 AT BASE OF RISER
C-Factor Used: Overhead 150 Underground 140

WATER SUPPLY

Water Flow Test:
Date of Test - 8-30-2005
Time of Test -
Static (Psi) - 106
Residual (Psi) - 89
Flow (Gpm) - 2418
Elevation - 10.7

Pump Data:
Rated Cap.
@ Psi
Elev.
Other

Tank or Reservoir:
Cap.
Elev.

Well
Proof Flow Gpm

Location: ON ANDERSON STREET, APPROXIMATELY 625'-0" FROM THE BUILDING

Source of Information: PORTLAND WATER DISTRICT

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	NFPA 13 90' Standard Elbow	1	2	2	3	4	5	6	7	8	10	12	14	18	22	27	35	40	45	50	61
Fsp	Flow Switch Potter VSR	Fitting generates a Fixed Loss Based on Flow																			
T	NFPA 13 90' Flow thru Tee	3	4	5	6	8	10	12	15	17	20	25	30	35	50	60	71	81	91	101	121

Units Summary

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

Pressure / Flow Summary - STANDARD

Sprinkler Systems Inc.
56 HAMMOND STREET

Date 11-20-12

Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
TYP	0.0	4.9	12.04	na	17.0	0.05	340	12.0
1	58.542	K = K @ DROP	13.08	na	17.36			
2	58.542	K = K @ DROP	13.03	na	17.32			
A	58.542		13.7	na				
3	58.542	K = K @ DROP	12.57	na	17.02			
4	58.542	K = K @ DROP	12.54	na	17.0			
C	58.542		13.1	na				
B	58.542		16.11	na				
D	58.542		20.79	na				
E	58.542		32.17	na				
F	48.792		39.57	na				
G	39.792		45.37	na				
H	30.667		54.37	na				
RT	30.667		58.06	na				
RB	26.417		63.57	na				
BR	24.417		69.75	na				
X1	30.583		71.26	na				
X2	30.583		71.27	na				
X3	10.583		79.95	na				
TEST	10.583		79.96	na				

The maximum velocity is 23.15 and it occurs in the pipe between nodes B and D

Final Calculations - Hazen-Williams

Sprinkler Systems Inc.
56 HAMMOND STREET

Date 11-20-12

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv.	Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	******* Notes ******
TYP	17.00	1.101	1T	9.563	0.500	12.037		K Factor = 4.90
to		150.0		0.0	9.562	0.0		
DROP	17.0	0.0504		0.0	10.062	0.507		Vel = 5.73
	0.0							
	17.00					12.544		K Factor = 4.80
1	17.36	1.101		0.0	11.750	13.083		K Factor @ node DROP
to		150.0		0.0	0.0	0.0		
A	17.36	0.0523		0.0	11.750	0.615		Vel = 5.85
	0.0							
	17.36					13.698		K Factor = 4.69
2	17.32	1.101	1T	9.563	3.333	13.026		K Factor @ node DROP
to		150.0		0.0	9.562	0.0		
A	17.32	0.0521		0.0	12.895	0.672		Vel = 5.84
	0.0							
	17.32					13.698		K Factor = 4.68
A	34.69	1.101	1E	3.825	9.000	13.698		
to		150.0		0.0	3.825	0.0		
B	34.69	0.1885		0.0	12.825	2.417		Vel = 11.69
	0.0							
	34.69					16.115		K Factor = 8.64
3	17.02	1.101		0.0	10.667	12.567		K Factor @ node DROP
to		150.0		0.0	0.0	0.0		
C	17.02	0.0504		0.0	10.667	0.538		Vel = 5.74
	0.0							
	17.02					13.105		K Factor = 4.70
4	17.00	1.101	1T	9.563	1.583	12.544		K Factor @ node DROP
to		150.0		0.0	9.562	0.0		
C	17.0	0.0503		0.0	11.145	0.561		Vel = 5.73
	0.0							
	17.00					13.105		K Factor = 4.70
C	34.02	1.101	1T	9.563	7.000	13.105		
to		150.0		0.0	9.562	0.0		
B	34.02	0.1817		0.0	16.562	3.010		Vel = 11.46
	0.0							
	34.02					16.115		K Factor = 8.47
B	68.70	1.101		0.0	7.000	16.115		
to		150.0		0.0	0.0	0.0		
D	68.7	0.6671		0.0	7.000	4.670		Vel = 23.15
D	0.0	1.101	1T	9.563	7.500	20.785		
to		150.0		0.0	9.562	0.0		
E	68.7	0.6672		0.0	17.062	11.384		Vel = 23.15
E	0.0	1.394	1E	4.762	10.250	32.169		
to		150.0		0.0	4.761	4.223		
F	68.7	0.2114		0.0	15.011	3.174		Vel = 14.44
F	0.0	1.394		0.0	9.000	39.566		
to		150.0		0.0	0.0	3.898		
G	68.7	0.2114		0.0	9.000	1.903		Vel = 14.44

State of Maine
Department of Public Safety
Fire Sprinkler System Permit

10372

Hammond Apts. Bldgs A&B

Located at: 56 Hammond Street
In the Town of: Portland
Occupancy/Use: Residential - Condominiums
Type of System: NFPA 13R

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 # **2121539** , 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, o other pertinent legal restrictions. This permit shall be displayed at the construction site or be made readily available.

This permit was issued on **12/3/2012** for a fee paid of **$100.00**

This permit will expire at midnight on ***Saturday, June 01, 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

John E. Morris
Commissioner

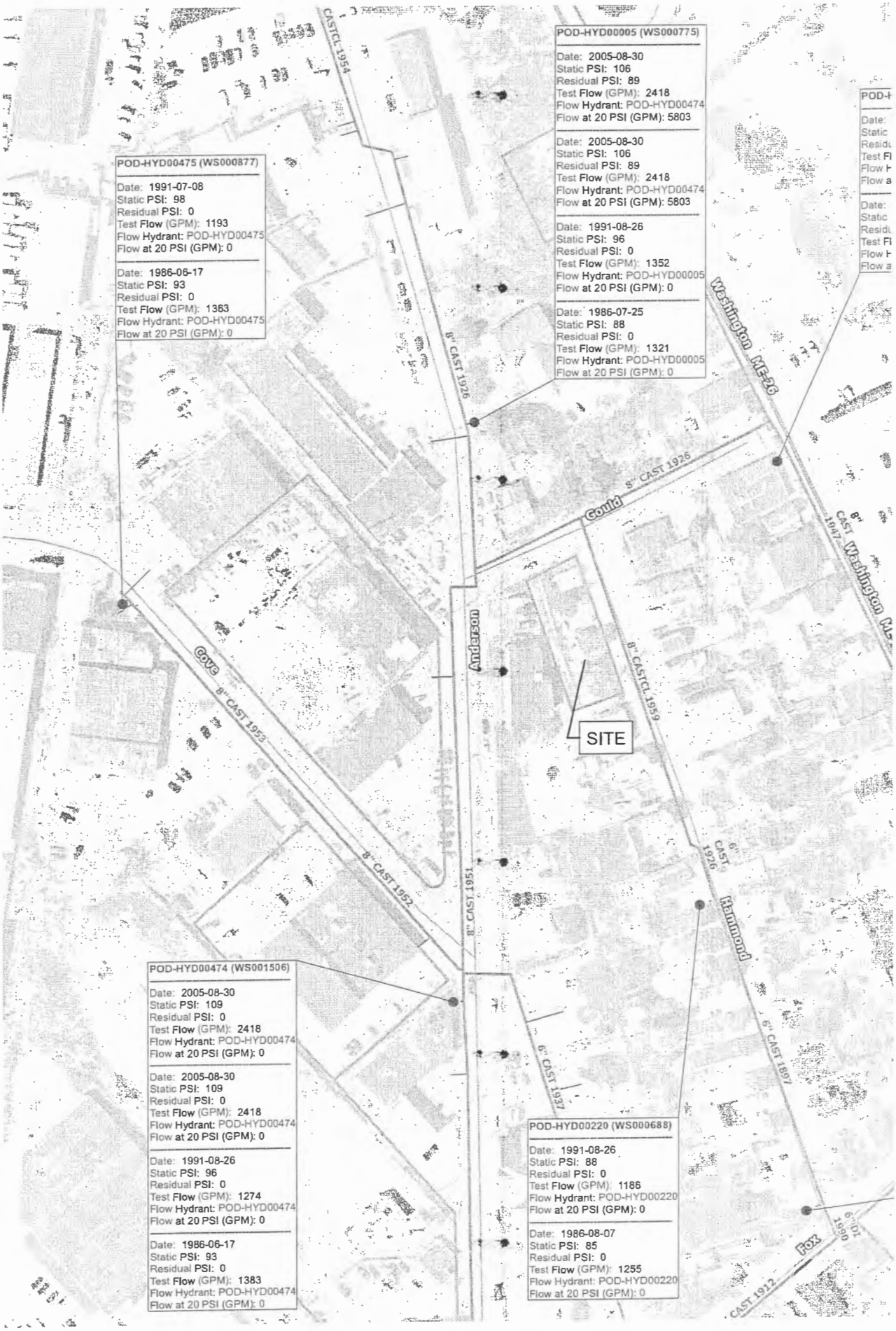
The type of Fire Department Connection and its location is to be according to the Local Fire Department

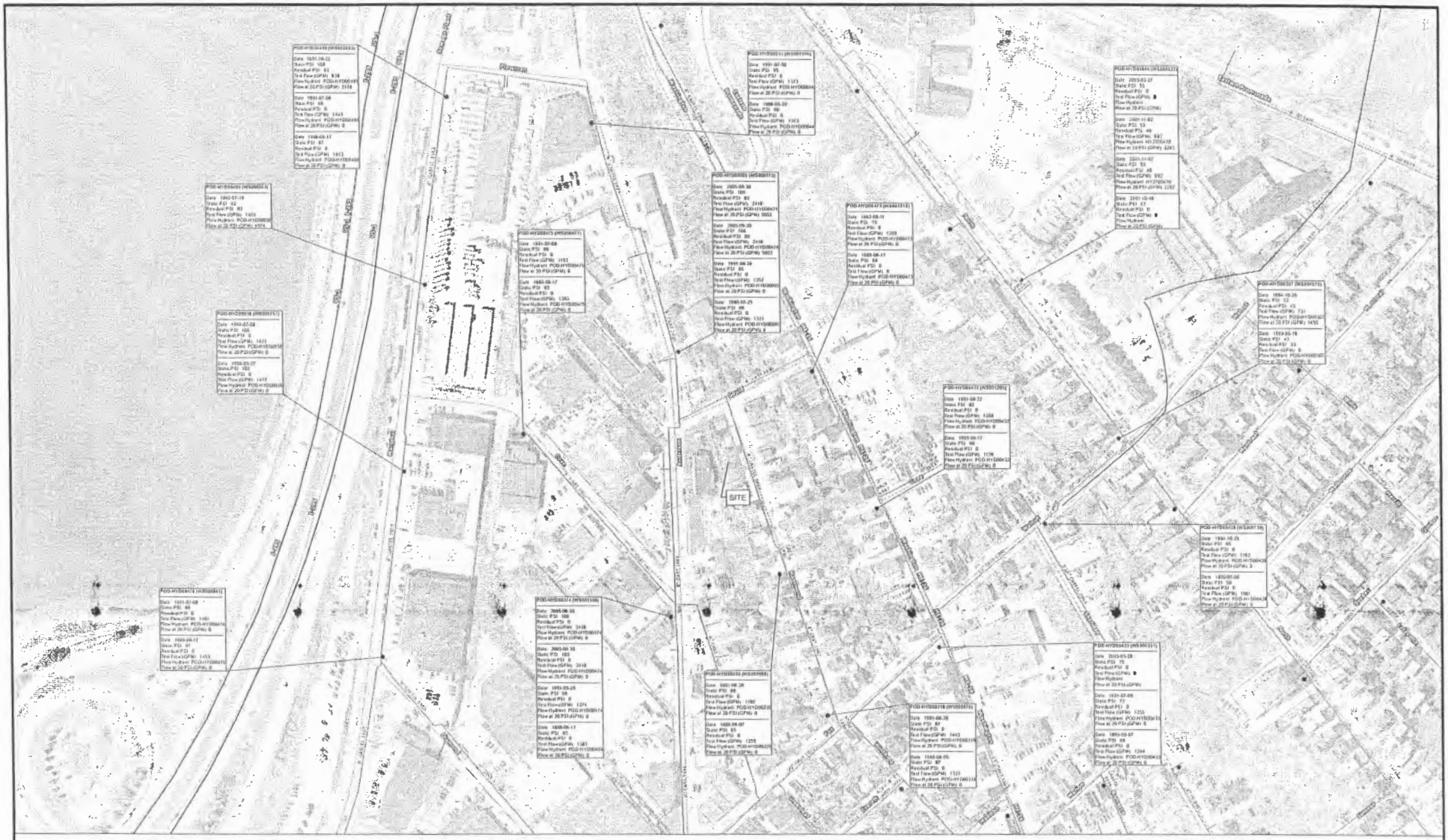
Within 30 days of the completion of a new fire sprinkler system or an addition to an existing fire sprinkler system, a fire sprinkler system contractor shall provide to the Office of State Fire Marshal a copy of this permit signed and dated by the certified Responsible Managing Supervisor representing 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: Garland Scott E.

RMS Signature: _____


POD-HYD00475 (WS000877)
Date: 1991-07-08
Static PSI: 98
Residual PSI: 0
Test Flow (GPM): 1193
Flow Hydrant: POD-HYD00475
Flow at 20 PSI (GPM): 0
Date: 1986-06-17
Static PSI: 93
Residual PSI: 0
Test Flow (GPM): 1363
Flow Hydrant: POD-HYD00475
Flow at 20 PSI (GPM): 0
POD-HYD00005 (WS000775)
Date: 2005-08-30
Static PSI: 106
Residual PSI: 89
Test Flow (GPM): 2418
Flow Hydrant: POD-HYD00474
Flow at 20 PSI (GPM): 5803
Date: 2005-08-30
Static PSI: 106
Residual PSI: 89
Test Flow (GPM): 2418
Flow Hydrant: POD-HYD00474
Flow at 20 PSI (GPM): 5803
Date: 1991-08-26
Static PSI: 96
Residual PSI: 0
Test Flow (GPM): 1352
Flow Hydrant: POD-HYD00005
Flow at 20 PSI (GPM): 0
Date: 1986-07-25
Static PSI: 88
Residual PSI: 0
Test Flow (GPM): 1321
Flow Hydrant: POD-HYD00005
Flow at 20 PSI (GPM): 0
POD-HYD00474 (WS001506)
Date: 2005-08-30
Static PSI: 109
Residual PSI: 0
Test Flow (GPM): 2418
Flow Hydrant: POD-HYD00474
Flow at 20 PSI (GPM): 0
Date: 2005-08-30
Static PSI: 109
Residual PSI: 0
Test Flow (GPM): 2418
Flow Hydrant: POD-HYD00474
Flow at 20 PSI (GPM): 0
Date: 1991-08-26
Static PSI: 96
Residual PSI: 0
Test Flow (GPM): 1274
Flow Hydrant: POD-HYD00474
Flow at 20 PSI (GPM): 0
Date: 1986-06-17
Static PSI: 93
Residual PSI: 0
Test Flow (GPM): 1383
Flow Hydrant: POD-HYD00474
Flow at 20 PSI (GPM): 0
POD-HYD00220 (WS000688)
Date: 1991-08-26
Static PSI: 88
Residual PSI: 0
Test Flow (GPM): 1186
Flow Hydrant: POD-HYD00220
Flow at 20 PSI (GPM): 0
Date: 1986-08-07
Static PSI: 85
Residual PSI: 0
Test Flow (GPM): 1255
Flow Hydrant: POD-HYD00220
Flow at 20 PSI (GPM): 0
SITE
Anderson
Gould
Hammond
Fox
Washington Ave
8" CASTCL 1954
8" CAST 1926
8" CAST 1926
8" CAST 1947
8" CASTCL 1959
8" CAST 1953
8" CAST 1952
8" CAST 1951
6" CAST 1926
6" CAST 1937
6" CAST 1897
6" CAST 1900
CAST 1912



0 80 160 320 480 640 Feet

1 inch = 100 feet

PORTLAND WATER DISTRICT
225 Douglass Street
Portland, ME 04104
Asset Management and Planning Dept.

Legend

Air Valve	Connection	Combined Service	Manhole
Blow Off	Attribute Change	Domestic Service	CSO
By Pass	Reducer	Fire Service	Gravity
Distribution	Hydrant	Private Hydrants	Force
Transmission	Hydrant Control	Meter Pits	

Hydrant Flow Testing Data

56 Hammond Street
Portland

This map depicts flow testing data for the selected hydrants from PWD's asset management system. Note: a static pressure with a zero residual pressureand a flow hydrant that is the same as the test hydrant depicts a single-hydrant static pressure-only test.

Drawn By: SBM	Prepared For:
Scale: As Noted	Date: 1-12-12

NOTES

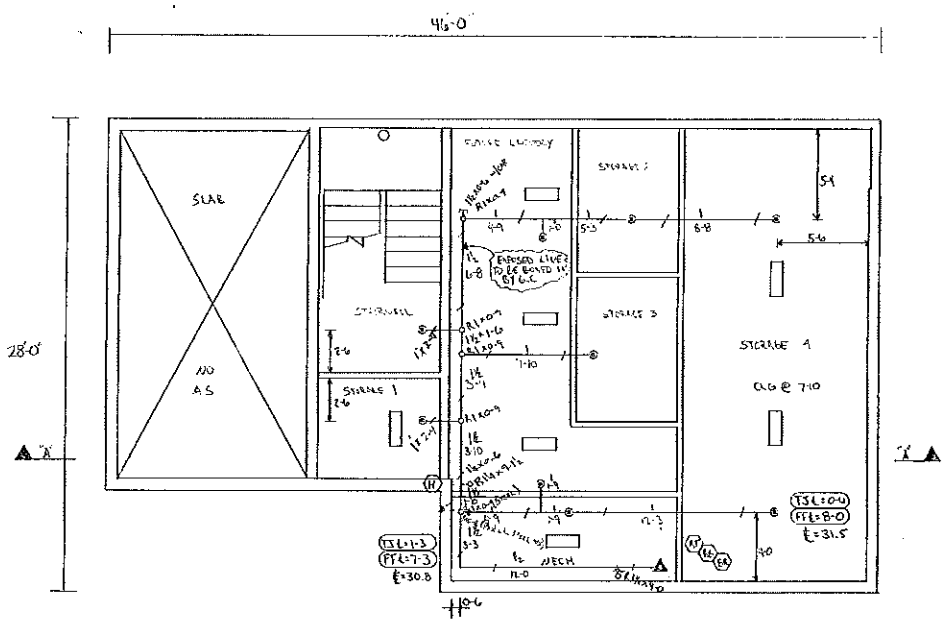
1) OCCUPANCY: CONDOMINIUMS - RESIDENTIAL, 18×18
2) DESIGN BASIS: HYDRAULICALLY CALCULATED NFPA "13R WET SPRINKLER SYSTEM. (SEE HYDRAULIC STAMP)
3) ALL SPRINKLER ROOM PIPING 2" AND SMALLER TO BE BLACK STEEL SCHEDULE 40. ALL FITTINGS FOR STEEL PIPE TO BE CAST IRON SCREWED OR GROOVED. ALL OTHER PIPING TO BE CPVC BLAZEMASTER WITH PLASTIC FITTINGS.
4) ALL PIPE AND HANGER DIMENSIONS ARE CENTERLINE TO CENTERLINE CUT LENGTHS TO BE PROVIDED FOR FABRICATION AND INSTALLATION.
5) TT℄ DENOTES TOP OF WOOD TRUSS TO CENTERLINE OF PIPE.
6) TJ℄ DENOTES TOP OF WOOD TJI JOIST TO CENTERLINE OF PIPE.
7) FF℄ DENOTES FINISHED FLOOR TO CENTERLINE OF PIPE.
8) OWNER TO PROVIDE SUFFICENT HEAT (MIN 40°F) TO PREVENT SPRINKLER PIPING FROM FREEZING.
9) OWNER: B.H. MILLIKEN (207) 879-1577 115 ANDERSON ST. PORTLAND, ME 04101
10) ARCHITECT: KEVIN MOQUIN - PORTLAND, ME

WATER SUPPLY

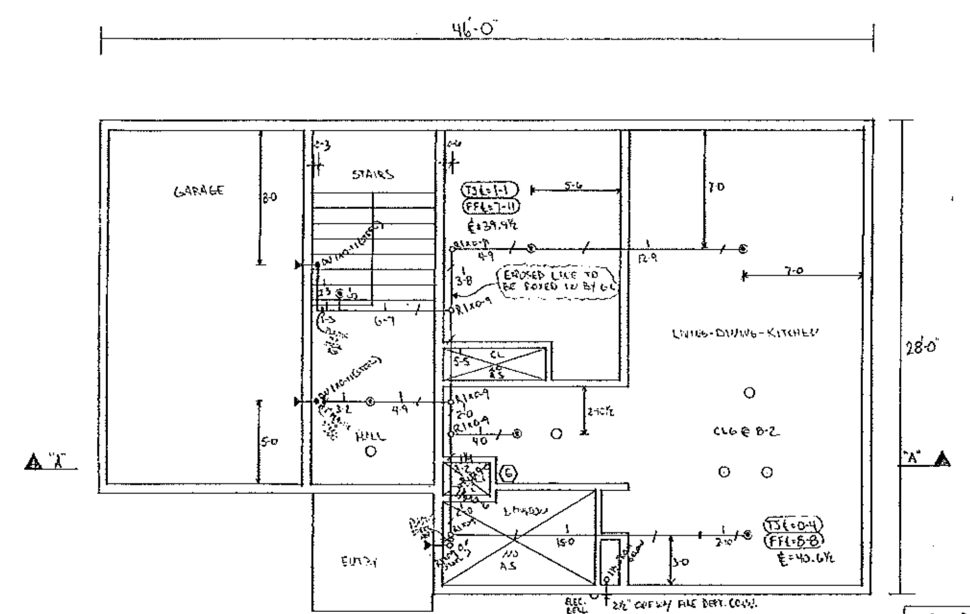
8-30-05

FLOW TEST DONE BY PORTLAND WATER DISTRICT.
WATER WAS FLOWED FROM HYD #474 ON ANDERSON ST., APPROX 1300'-0" FROM THE BUILDING FROM A 8" CIRCULATING CITY MAIN. TEST HYD # 05 LOCATED ON ANDERSON ST. APPROX. 650'-0" FROM BUILDING.

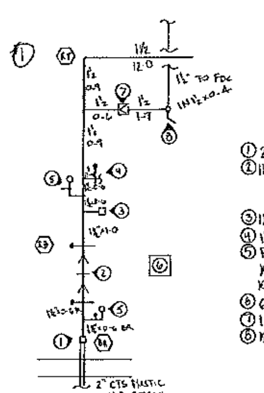
STATIC: 106
RESIDUAL: 89 @ 2418 GPM FLOW
ELEVATION: 10.7



BUILDING - "A"
BASEMENT - 1116 S.F.
SCALE - 1/4"=1'-0"
℄ = 23.5"

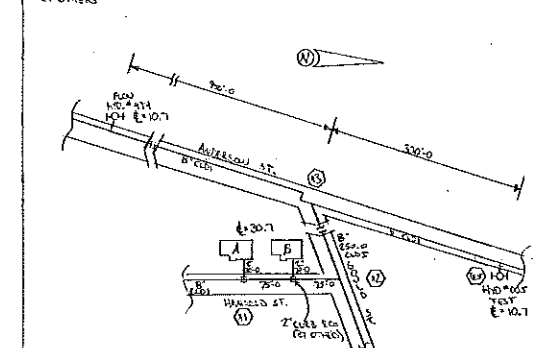


BUILDING - "A"
FIRST FLOOR - 1116 S.F.
SCALE - 1/4"=1'-0"
℄ = 31.10½



WET RISER DETAIL

1. 2" FORD COUPLING - PLASTIC TO BRASS (1 REQ'D) (2"×1½" BRASS BUSHING)
2. 1½" DOUBLE CHECK BACKFLOW PREVENTOR W/2-1½" BALL VALVES SEALED OPEN - APOLLO DC4A
3. 1½" FLOW SWITCH
4. 1" TEST AND DRAIN VALVE WITH ½" TEST (PIPED OUTSIDE)
5. FROM ½"×¼" RED. BUSH ¼"×2 NIP TO ¼" 3 WAY BALL VALVE ¼" WATER PRESSURE GAUGE (2 - REQ'D)
6. 6 HEAD SPRINKLER CABINET
7. 1½" SCR. SWING CHECK VALVE
8. ½" BALL DRIP ASSEMBLE



PLOT PLAN
1"=100'-0
ALL UNDERGROUND PIPING BY OTHERS

HYDRAULIC DESIGN CRITERIA
Density .05 GPM / SQ FT.
Remote Area 4 HEAD CALC.
K Factor 4.9 Head Size ½"×½"
Hose Allowance —
Water Supply 8-30-05
Static 106 PSI
Residual 89 PSI
Water Flowing 2418 GPM
Size of Supply 8"

1. Type of Hazard RESIDENTIAL 2. Deflector Distance 4" TO 6"
3. Pipe Type Used BLACK STEEL CPVC 4. Sprinkler Area 4606 SF
5. Type of Construction WOOD FRAME - COMBUSTIBLE
6. Maximum Spacing Allowed 18×18
7. PIPE SIZING METHOD; PIPE SCHEDULE ☐ HYDRAULICALLY CALCULATED ☒
8. ALL HANGERS AND LOCATIONS TO BE IN ACCORDANCE WITH N F P A PAMPHLET NO. 13
9. HIGH DEGREE TEMPERATURE SPRINKLER HEADS TO BE INSTALLED IN ACCORDANCE WITH N F P A PAMPHLET NO. 13

CIRCLE HANGER TYPE TO BE USED

HANGERS	
Symbol	Description
	3/8 SARAH SLITLENGTH
	WOOD 4ST20
	WOOD SHD20

SPRINKLER HEAD LEGEND

SYMBOL	MAKE	MODEL	FINISH	TYPE	TEMP.	N.P.T.	ORIFICE	K-FACTOR	TOTAL
⊗	RELIABLE	F1RES49	WHITE	REC. PEND	155°	½"	½"	4.9/RASIL	31
▼	RELIABLE	F30R	WHITE	SIDEWALL	155°	½"	½"	6.9/RS134	3
								BLDG "A"	
								TOTAL	34

SUBMITTALS	
SENT TO / DATE SENT	DATE RECEIVED
ISO ☐	
FM ☐	
LM ☐	
IRI ☐	
LA ☐	
STATE FIRE ☒	
LOCAL FIRE ☒	
LOCAL WATER ☐	
CONTRACTOR ☒	

LICENSE # 093 PERMIT #
R.M.S. # 278
SPRINKLER SYSTEMS INC.
P.O. BOX 1285
LEWISTON MAINE
04240

HAMMOND APTS. BLDG. A & B
56 HAMMOND STREET
PORTLAND, ME 04104
CONTRACT WITH B.H. MILLIKEN

SYSTEM TYPE	NO.	DATE	DESCRIPTION
WET ☒			
DRY ☐			
DELUGE ☐			
PREACTION ☐			
ME. LIFE ☐			

SCALE ¼=1-0
DRAWN BY RDO
CHECKED BY SEG
DATE 11-20-12
TOTAL SPKRS ON JOB BLDG 'A'-34 BLDG 'B'-34
SHEET # 1 OF 2
JOB # 12085

DESIGN AREA #1

HYDRAULIC DATA NAMEPLATE

This building is protected by a hydraulically designed automatic sprinkler system.

Location: BR/LR - 3rd FLOOR

No. of Sprinklers: 4 HEADS

Basis of design:

1. Density: .05 GPM/FT²

2. Designed area of operation: 4 HEAD CALC FT²

System Demand @ BASE OF RISER

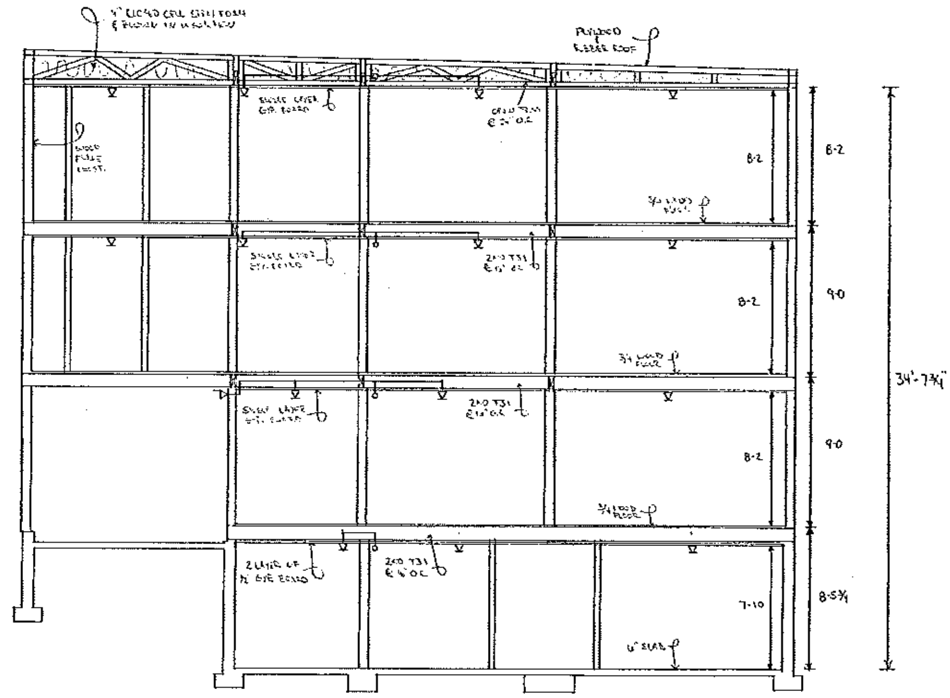
1. Water Flow Rate: 68.701 GPM

2. Residual Pressure @ 69.759 PSI

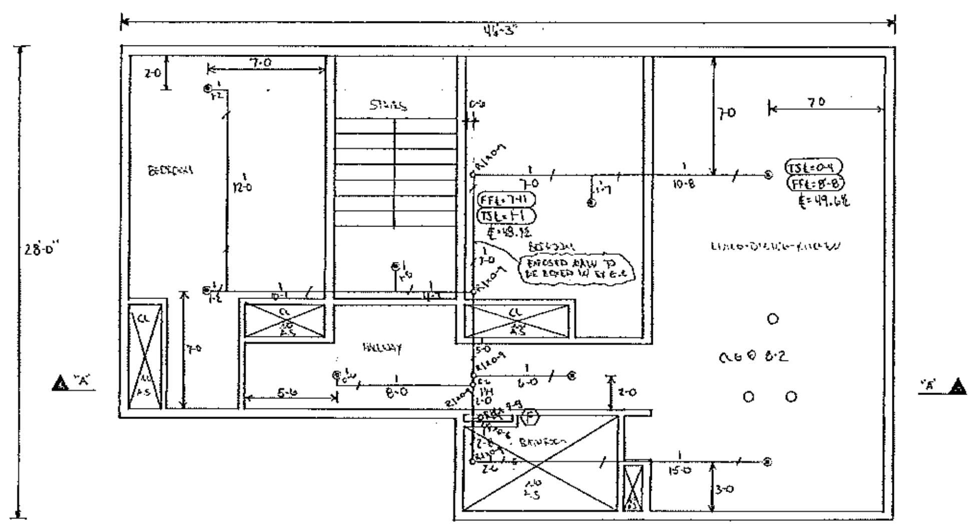
(HYDRAULICALLY MOST REMOTE)

(14/155) RESIDENTIAL RECESSED WHITE PENDANTS — RELIABLE "FIRESS" K-5.4 SIN# RA3510

14 TOTAL SPRINKLERS DRAWING #2

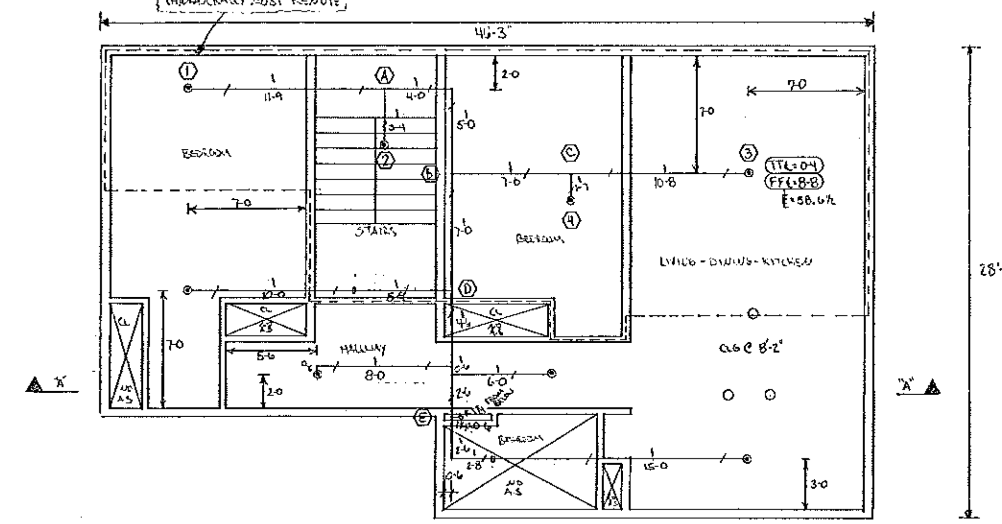


BUILDING CROSS SECTION - "A"
1/4" = 1'-0"



BUILDING "A"
SECOND FLOOR - 1087 S.F
SCALE 1/4" = 1'-0"
℄ = 40'.10½

DESIGN AREA #1
.05 / 4 HEAD CALC.
(HYDRAULICALLY MOST REMOTE)



BUILDING "A"
THIRD FLOOR - 1087 S.F
SCALE 1/4" = 1'-0"
℄ = 49'.10½

LICENSE # 093 R.M.S. # 278 PERMIT # SPRINKLER SYSTEMS INC. P.O. BOX 1285 LEWISTON MAINE 04243	HAMMOND APTS. BLDG. A & B 56 HAMMOND STREET PORTLAND, ME 04104		SCALE 1/4 = 1'-0"
	CONTRACT WITH B.H. MILLIKEN		DRAWN BY RDO
	SYSTEM TYPE	REVISIONS (NO. / DATE / DESCRIPTION)	CHECKED BY SEG
	WET ■		DATE 11-20-12
	DRY □		TOTAL SPKRS ON JOB BLDG "A" = 34 BLDG "B" = 34
	DELUGE □		SHEET # 2 OF 2
	PREACTION □ ME. LIFE □		JOB # 12085

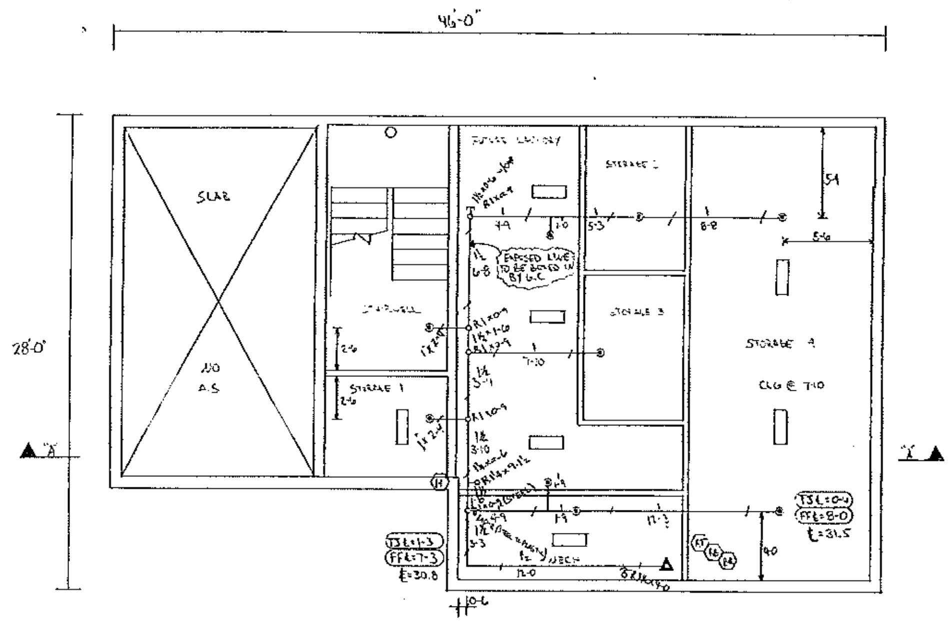
NOTES

1) OCCUPANCY: CONDOMINIUMS - RESIDENTIAL, 18×18
2) DESIGN BASIS: HYDRAULICALLY CALCULATED NFPA #13R WET SPRINKLER SYSTEM (SEE HYDRAULIC STAMP)
3) ALL SPRINKLER ROOM PIPING 2" AND SMALLER TO BE BLACK STEEL SCHEDULE 40. ALL FITTINGS FOR STEEL PIPE TO BE CAST IRON SCREWED OR GROOVED. ALL OTHER PIPING TO BE CPVC BLAZEMASTER WITH PLASTIC FITTINGS.
4) ALL PIPE AND HANGER DIMENSIONS ARE CENTERLINE TO CENTERLINE. CUT LENGTHS TO BE PROVIDED FOR FABRICATION AND INSTALLATION.
5) TT℄ DENOTES TOP OF WOOD TRUSS TO CENTERLINE OF PIPE.
6) TJ℄ DENOTES TOP OF WOOD TJI JOIST TO CENTERLINE OF PIPE.
7) FF℄ DENOTES FINISHED FLOOR TO CENTERLINE OF PIPE.
8) OWNER TO PROVIDE SUFFICIENT HEAT (MIN 40°F) TO PREVENT SPRINKLER PIPING FROM FREEZING.
9) OWNER: B.H. MILLIKEN (207) 879-1877 115 ANDERSON ST. PORTLAND, ME 04101
10) ARCHITECT: KEVIN MOQUIN - PORTLAND, ME

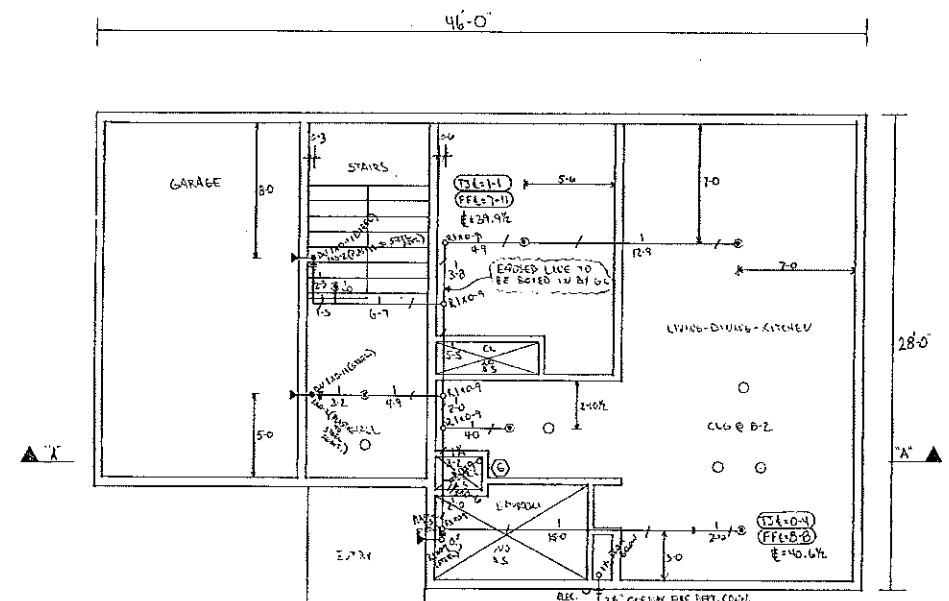
WATER SUPPLY

FLOW TEST DONE BY PORTLAND WATER DISTRICT. 8-30-05
WATER WAS FLOWED FROM HYD #474 ON ANDERSON ST., APPROX. 1300'-0" FROM THE BUILDING FROM A 8" CIRCULATING CITY MAIN. TEST HYD #05 LOCATED ON ANDERSON ST. APPROX. 650'-0" FROM BUILDING.

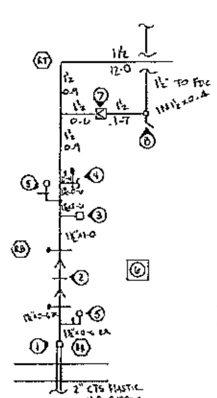
STATIC: 106
RESIDUAL: 89 W/246 GPM FLOW
ELEVATION: 10.7



BUILDING "B"
BASEMENT - 1116 S.F
SCALE - 1/4=1'-0"
℄ = 23'.5"

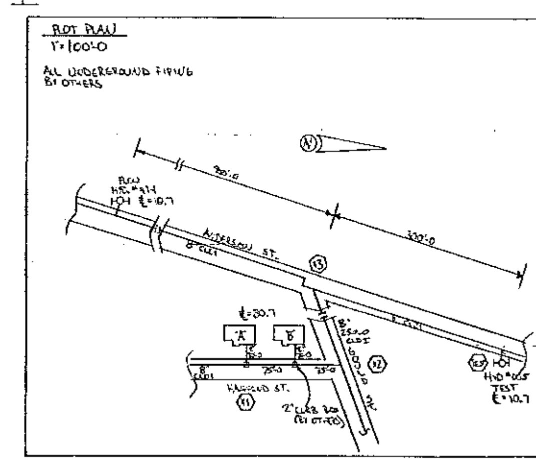


BUILDING "B"
FIRST FLOOR - 1116 S.F
SCALE - 1/4=1'-0"
℄ = 31.10½



WET RISER DETAIL
SCALE = 1/2=1'-0"

1. 2" FORD COUPLING - PLASTIC TO BRASS (1 REQ'D) (2"×1½ BRASS BUSHING)
2. 1½ DOUBLE CHECK BACKFLOW PREVENTOR W/2-1½ BALL VALVES SEALED OPEN -APOLLO DC4A
3. 1½ FLOW SWITCH
4. 1" TEST AND DRAIN VALVE WITH ½ TEST (PIPED OUTSIDE)
5. FROM ½×¼ RED. BUSH ¼×0-2 NIP TO ¼" 3 WAY BALL VALVE ¼ WATER PRESSURE GAUGE (2-REQ'D)
6. 6 HEAD SPRINKLER CABINET
7. 1½ SCR. SWING CHECK VALVE
8. ½ BALL DRIP ASSEMBLE



PLOT PLAN
1"=100'-0
ALL UNDERGROUND PIPING BY OTHERS

HYDRAULIC DESIGN CRITERIA
Density .05 GPM / SQ FT.
Remote Area 4 HEAD CALC.
K Factor 4.9 Head Size ½
Hose Allowance —
Water Supply 8-30-05
Static 106 PSI
Residual 89 PSI
Water Flowing 246 GPM
Size of Supply 8"

1. Type of Hazard RESIDENTIAL 2. Deflector Distance 1" to 6"
3. Pipe Type Used BLACK STEEL CPVC 4. Sprinkler Area 400 SF
5. Type of Construction WOOD FRAME - COMBUSTIBLE
6. Maximum Spacing Allowed 18×18
7. PIPE SIZING METHOD; PIPE SCHEDULE ☐ HYDRAULICALLY CALCULATED ■
8. ALL HANGERS AND LOCATIONS TO BE IN ACCORDANCE WITH NFPA PAMPHLET NO. 13
9. HIGH DEGREE TEMPERATURE SPRINKLER HEADS TO BE INSTALLED IN ACCORDANCE WITH NFPA PAMPHLET NO. 13

CIRCLE HANGER TYPE TO BE USED

HANGERS	
Symbol	Description
—/—	3/8 SAMMY SCREWS
	WOOD GST20
	WOOD SWG20

SPRINKLER HEAD LEGEND									
SYMBOL	MAKE	MODEL	FINISH	TYPE	TEMP.	N.P.T.	ORIFICE	K-FACTOR	TOTAL
—◎—	RELIABLE	F1RES49	WHITE	REC PEND	155°	½"	½"	4.9/RASIL	31
—▼—	RELIABLE	F30R	WHITE	SIDE WALL	155°	½	½	5.6/RA5134	3
								BLDG "B"	
								TOTAL	34

SUBMITTALS		
SENT TO DATE SENT		DATE RECEIVED
ISO	☐	
FM	☐	
LM	☐	
IRI	☐	
LA	☐	
STATE FIRE	■	
LOCAL FIRE	■	
LOCAL WATER	☐	
CONTRACTOR	■	

LICENSE #093
R.M.S. #278
PERMIT #

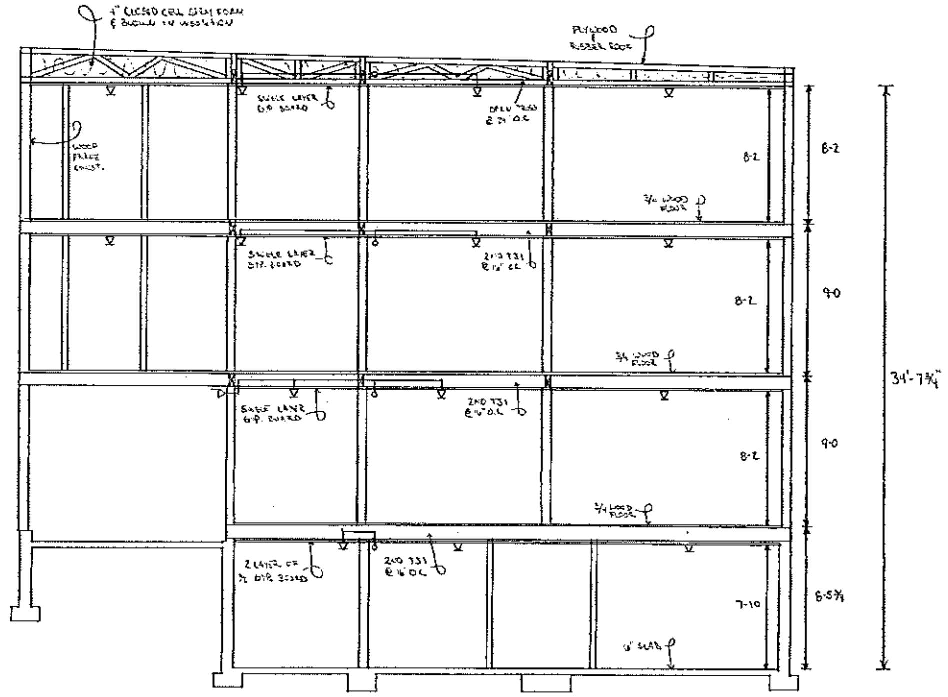
SPRINKLER SYSTEMS INC.
P.O. BOX 1265
LEWISTON MAINE
04243

HAMMOND APTS. BLDG. A & B
56 HAMMOND STREET
PORTLAND, ME 04104

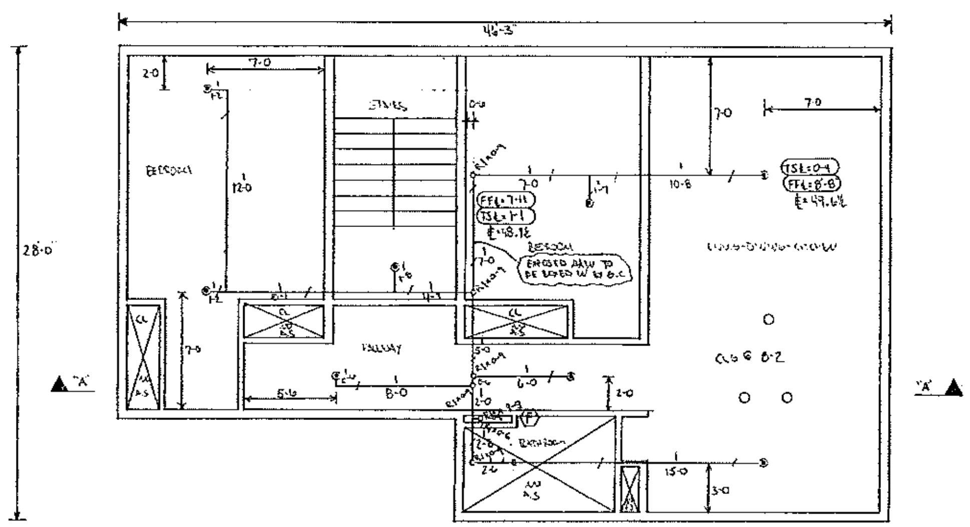
CONTRACT WITH B.H. MILLIKEN

SYSTEM TYPE		REVISIONS		
		NO.	DATE	DESCRIPTION
WET	■			
DRY	☐			
DELUGE	☐			
PREACTION	☐			
VE. LIFE	☐			

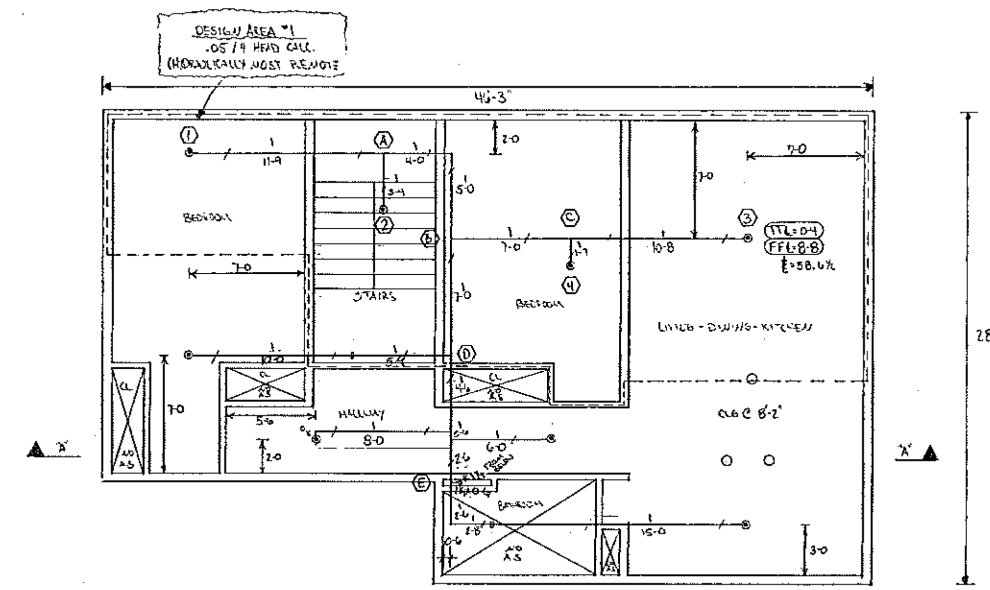
SCALE 1/4=1-0
DRAWN BY RDO
CHECKED BY SEG
DATE 11-20-12
TOTAL SPKRS ON JOB BLDG "A"-34 BLDG "B"-34
SHEET # 3 OF 4
JOB # 12085



BUILDING CROSS SECTION - "A"
1/4" = 1'-0"



BUILDING "B"
SECOND FLOOR - 1087 S.F.
SCALE 1/4" = 1'-0"
℄ = 40'-10½"



BUILDING "B"
THIRD FLOOR - 1087 S.F.
SCALE 1/4" = 1'-0"
℄ = 49'-10½"

DESIGN AREA #1

HYDRAULIC DATA NAMEPLATE

This building is protected by a hydraulically designed automatic sprinkler system.

Location: BA/LR - 3rd FLOOR

No. of Sprinklers: 4 HEADS

Basis of design:

1. Density .05 GPM/FT²
2. Designed area of discharge 4 HEAD CALC. FT²

System Demand @ BASE OF RISER

1. Water Flow Rate @ 63.701 GPM
2. Residual Pressure @ 69.754 PSI

(HYDRAULICALLY MOST REMOTE)

16 / 155° — 1/2" x 1/2" - RESIDENTIAL RECESSED WHITE PENDANTS RELIABLE "FIRESTS" K=5.6 SIN #R3516

16 TOTAL SPRINKLERS DRAWING #2

0 1 2 5 10

LICENSE # 093
R.M.B. # 278
PERMIT #

SPRINKLER SYSTEMS INC.
P.O. BOX 1285
LEWISTON MAINE
04240

HAMMOND APTS. BLDG. A & B
56 HAMMOND STREET
PORTLAND, ME 04104

CONTRACT WITH B.H. MILLIKEN

SYSTEM TYPE		REVISIONS		
		NO.	DATE	DESCRIPTION
WET	■			
DRY	☐			
DELUGE	☐			
PREACTION	☐			
ME. LIFE	☐			
	☐			

SCALE 1/4" = 1'-0"
DRAWN BY RDO
CHECKED BY SEG
DATE 11-20-12
TOTAL SPKRS ON JOB
BLDG "A" - 34
BLDG "B" - 34
SHEET # 4 OF 4
JOB # 12085