

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND BUILDING PERMIT



This is to certify that <u>DEAN & ALLYN, INC.</u> <u>PO BOX 709 - 116 LEWISTON RD</u> <u>GRAY, ME 04039</u> For installation at <u>52 FEDERAL ST</u> <u>3 UNIT APARTMENT BUILDING</u>

Job ID: 2012-06-4320-FAFS

CBL: 020- D-008-001

has permission to install a supervised, automatic sprinkler system

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

Fire Prevention Office

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

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.



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

Director of Planning and Urban Development Penny St. Louis

Job ID: <u>2012-06-4320-FAFS</u> <u>install a supervised, automatic</u> <u>sprinkler system</u> For installation at: <u>52 FEDERAL ST</u> <u>3 UNIT APARTMENT BUILDING</u> CBL: 020- D-008-001

Conditions of Approval:

Fire

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

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.

Fire department connection shall be a single 2 $\frac{1}{2}$ ". 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.

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

City of Portland, Maine - Building or Use Permit Application

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

Job No: 2012-06-4320-FAFS	Date Applied: 6/25/2012		CBL: 020- D-008-001				
Location of Construction: 52 FEDERAL ST	Owner Name: LIV R CHASE & BRENT	T ADLER	Owner Address: PO BOX 15372 PORTLAND, ME 0	4112		Phone:	
Business Name:	DEAN & ALLYN INC.			ESS: AAY MAINE 04039		Phone: (207) 657-5646	
Lessee/Buyer's Name:				DN		Zone: B-2b	
Past Use: Proposed Use: Same: Three family dwelling to install a fire suppression system			ion Fire Dept: 7/11/12 Approved w/ conditions 7/11/12 Denied N/A				
Proposed Project Descriptic Fire suppression system	Dn:		Signature: 27 Pedestrian Activ	ities District (P.A.J	D.)	Signature:	
Permit Taken By: Gayle				Zoning Appro	oval		
 This permit application Applicant(s) from meet Federal Rules. Building Permits do no septic or electrial work. Building permits are vo within six (6) months o False informatin may in permit and stop all work 	ing applicable State and t include plumbing, did if work is not started f the date of issuance. avalidate a building	Shorelan Wetland Flood Zo Subdivis Site Plan	s one sion	Zoning Appeal Variance Miscellaneous Conditional Use Interpretation Approved Denied Date:	V Not in Di Does not Requires Approved		

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.

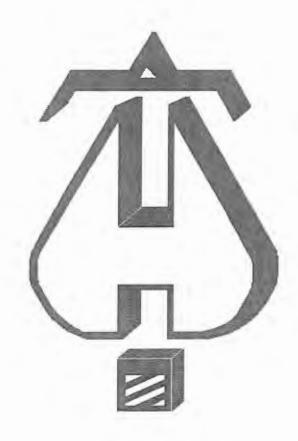
SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE

Fire Suppression Sy If you or the property owner owes real estate or property within the city, payment arrangements must be made b	y taxes or user charges on any property
Installation address: <u>52</u> Federal St Exact location: (within structure)	3-26 BY Main CBL: 080 D 008
Type of occupancy(s) (NFPA & ICC): <u>APARTMent</u> Building owner: <u>Brent</u> <u>Adler</u>	·
Managing Supervisor: <u>Harry King</u> Supervisor phone: <u>2072339105</u> Installing contractor: <u>Dean and allyn Inc</u>	_E-mail:
Contractor phone: 657 5646	$ \underline{E-mail: h King C Maine rr. \ Cm} $
NFPA Standard will this system is designed to: $NFPA # 3R$	Permit no: Edition:
*Non-NFPA systems are not approved for use within the City of Portland. Attach all des submittals as	COST OF WORK: New Sprinkler Sys # 10,405 10 PER \$1,000 + \$30 FOR THE FIRST \$1,000)
Marshal's Of Contractor sh be approved i to me.	RECEIVED JUN 2 5 202 Dept. of Building Inspections
Download a ney	v for every submittal. Submit all information
to the Building Prior to acceptar	315, Portland, Maine 04101.

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All installation(s) must comply with NFPA and the Fire Department Technical Standard(s).

Applicant signature:	Hany a. King	Date: 6-21-12
	L I	



... Fire Protection by Computer Design

DEAN & ALLYN, INC. PO BOX 709 116 LEWISTON ROAD GRAY, MAINE 04039 207-657-5646

Job Name	: 52 FEDERAL STREET
Building	:
Location	: 52 FEDERAL STREET PORTLAND MAINE
System	
Contract	: 121079
Data File	: 52 FEDERAL ST.WXF

DEAN & ALLYN, INC. **52 FEDERAL STREET**

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HYDRAULIC DESIGN INFORMATION SHEET Name - BRENT ADLER Date - 6-19-12 Location - 52 FEDERAL STREET PORTLAND MAINE Building -System No. -Contract No. - 121079 Drawing No. - 1 OF 1 Contractor - DEAN AND ALLYN INC Calculated By - H KING D Construction: (X) Combustible () Non-Combustible Ceiling Height VARIES OCCUPANCY - RESIDENTIAL 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 - 13 System Type Gpm Listed Pres. at Start Point - 7 Psi (X) Wet () Dry MAXIMUM LISTED SPACING 16 x 16 () Deluge () PreAction Domestic Flow Added Sprinkler or Nozzle Gpm Additional Flow Added _ Gpm Make VIKING Model FREEDOM Elevation at Highest Outlet - 43' Feet Size 1/2" K-Factor 4.9 Note:CUSHION: 16.63 PSI Temperature Rating 155 Calculation Gpm Required 61.58 Psi Required 66.12 At Test Summary C-Factor Used: Overhead 120 Underground 120 Tank or Reservoir: Water Flow Test: Pump Data: Date of Test - 8-9-11 Time of Test -Rated Cap. Cap. Elev. @ Psi - 83 Static (Psi) Elev. Residual (Psi) - 20 Other Well - 1233 Flow (Gpm) Proof Flow Gpm - 0 Elevation Location: FEDERAL STREET Source of Information: PWD

Page 1

Date 6-19-12

Fitting	gs Used Summary																				
	I & ALLYN, INC. DERAL STREET																		age 2 ate 6	2 5-19-12	2
	Legend . Name	1/2	3/4	1	1¼	1½	2	21/2	3	3½	4	5	6	8	10	12	14	16	18	20	24
E G S T	NFPA 13 90' Standard Elbow NFPA 13 Gate Valve NFPA 13 Swing Check NFPA 13 90' Flow thru Tee	1 0 0 3	2 0 0 4	2 0 5 5	3 0 7 6	4 0 9 8	5 1 11 10	6 1 14 12	7 1 16 15	8 1 19 17	10 2 22 20	12 2 27 25	14 3 32 30	18 4 45 35	22 5 55 50	27 6 65 60	35 7 71	40 8 81	45 10 91	50 11 101	61 13 121

Units Summary

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

Note: Fitting Legend provides equivalent pipe lengths for fittings types of various diameters. Equivalent lengths shown are standard for actual diameters of Sched 40 pipe and CFactors of 120 except as noted with *. The fittings marked with a * show equivalent lengths values supplied by manufacturers based on specific pipe diameters and CFactors and they require no adjustment. All values for fittings not marked with a * will be adjusted in the calculation for CFactors of other than 120 and diameters other than Sched 40 per NFPA.

Pressure / Flow Summary - STANDARD

DEAN & ALLYN, INC. 52 FEDERAL STREET

Page	3
Date	6-19-12

Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
4.4	10.0	10	7.0	,	12.06	0.05	256	7.0
1A	43.0	4.9 K = K @ 1	7.0 7.35	na	12.96 12.96	0.05	200	7.0
1	43.0	K = K @ 1		na				
2	43.0	K = K @ 1	7.35	na	12.96			
3	43.0	K = K @ 1	14.09	na	17.95			
4	43.0	K = K @ 1	13.46	na	17.54			
10	43.0	0	8.21	na				
11	43.0		15.29	na				
12	29.0		29.94	na				
13	21.0		35.73	na				
14	9.0		44.9	na				
TR	7.0		55.96	na				
FF	0.0		63.66	na				
			66.12					
CTY	0.0		00.12	na				

The maximum velocity is 13.21 and it occurs in the pipe between nodes 11 and 12

Final Calculations - Hazen-Williams

DEAN & ALLYN, INC. 52 FEDERAL STREET

Page 4 Date 6-19-12

52 FEDE	ERAL STREET					Date 6-19-12
Hyd. Ref. Point	Qa Dia. "C" Qt Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	****** Notes *****
1A	12.96 1.049	1T 5.0	1.000	7.000		K Factor = 4.90
to 1	120.0 12.96 0.0583	0.0 0.0	5.000 6.000	0.0 0.350		Vel = 4.81
	0.0 12.96			7.350		K Factor = 4.78
1 to	13.12 1.049 120.0	1T 5.0 0.0	6.300 5.000	7.350		K Factor @ node 1
10	13.12 0.0759	0.0	11.300	0.858		Vel = 4.87
	0.0 13.12			8.208		K Factor = 4.58
2 to	12.96 1.049 120.0	2E 4.0 1T 5.0	5.700 9.000	7.350 0.0		K Factor @ node 1
10	12.96 0.0584 0.0	0.0	14.700	0.858		Vel = 4.81
	12.96			8.208		K Factor = 4.52
3 to	17.95 1.049 120.0	1T 5.0 0.0	6.300 5.000	14.090 0.0		K Factor @ node 1
11	17.95 0.1065 0.0	0.0	11.300	1.203		Vel = 6.66
	17.95			15.293		K Factor = 4.59
4 to	17.54 1.049 120.0	2T 10.0 0.0	8.000 10.000	13.456 0.0		K Factor @ node 1
11	<u> 17.54 0.1021 </u> 0.0	0.0	18.000	1.837		Vel = 6.51
	17.54			15.293		K Factor = 4.49
10 to	26.09 1.049 120.0	6E 12.0 1T 5.0	16.300 17.000	8.208 0.0		
11	26.09 0.2128	0.0	33.300	7.085	0	Vel = 9.69
11	35.49 1.38	3E 9.0	11.300	15.293		
to 12	120.0 61.58 0.3143	1G 0.0 1S 7.0 1Z 0.0	16.000 27.300	6.063 8.580		Vel = 13.21
12	0.0 1.38	0.0	8.500	29.936		
to 13	120.0 61.58 0.2740	0.0 0.0	0.0 8.500	3.465 2.329		Vel = 13.21
13	0.0 1.38	1E 3.0	11.500	35.730		
to 14	120.0 61.58 0.2741	0.0	3.000 14.500	5.197 3.975		Vel = 13.21
14	0.0 1.38	4E 12.0	25.200	44.902		TOT TOLET
to TR	120.0 61.58 0.2741	0.0 0.0	12.000 37.200	0.866 10.196		Vel = 13.21
Ander sign						

Final Calculations - Hazen-Williams

	ALLYN, INC. RAL STREET					Page 5 Date 6-19-12
Hyd. Ref. Point	Qa Dia. "C" Qt Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	****** Notes *****
TR	0.0 1.38	1S 7.0	7.000	55.964		
to	120.0	1Z 0.0	7.000	3.032		
FF	61.58 0.3328	0.0	14.000	4.659		Vel = 13.21
FF	0.0 1.38	2E 6.0	3.000	63.655		
to	120.0	0.0	6.000	0.0		
CTY	61.58 0.2741	0.0	9.000	2.467		Vel = 13.21
	0.0					
	61.58			66.122		K Factor = 7.57

EAN & ALLYN, INC. FEDERAL STREET					Page 6 Date 6-19-12
City Water Supply: C1 - Static Pressure : C2 - Residual Pressure: C2 - Residual Flow :	83 20 1233			Demar D1 D2 D2 Hc D3 Sa	nd: 1 - Elevation : 18.623 2 - System Flow : 61.579 2 - System Pressure : 66.122 ose (Demand) : 3 - System Demand : 61.579 afety Margin : 16.632
150 140 140 130 130 130 P 120 R 110 E 100 S 90 C1 S S 0 D2 0 R 60 E 50 40 30 20 D1 10 0					
200 400 600	800 1000	0 1200 FLOW (N ^ 1.85)	1400	1600	1800

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Computer Programs by Hydratec Inc. Route 111 Windham N.H. USA 03087



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... Fire Protection by Computer Design

DEAN & ALLYN, INC. PO BOX 709 116 LEWISTON ROAD GRAY, MAINE 04039 207-657-5646

Building Location	52 FEDERAL STREET 52 FEDERAL STREET PORTLAND MAINE	
System Contract Data File	: 121079 : 52 FEDERAL ST.WXF	

DEAN & ALLYN, INC. 52 FEDERAL STREET

HYDRAULIC DESIGN INFORMATION SHEET Name - BRENT ADLER Date - 6-19-12 Location - 52 FEDERAL STREET PORTLAND MAINE System No. -Building -Contractor - DEAN AND ALLYN INC Contract No. - 121079 Calculated By - H KING D Construction: (X) Combustible () Non-Combustible Drawing No. - 1 OF 1 Ceiling Height VARIES OCCUPANCY - RESIDENTIAL Type of Calculation: ()NFPA 13 Residential (X)NFPA 13R ()NFPA 13D S Number of Sprinklers Flowing: ()1 ()2 (X)4 () Y ()Other S Т () Specific Ruling Made by Date E Listed Flow at Start Point - 13 Gpm System Type М Listed Pres. at Start Point - 7 () Dry (X) Wet Psi () PreAction MAXIMUM LISTED SPACING 16 x 16 () Deluge D Domestic Flow Added Gpm Sprinkler or Nozzle E -S Additional Flow Added Gpm Make VIKING Model FREEDOM Elevation at Highest Outlet - 43' Size 1/2" Feet K-Factor 4.9 Τ Note: CUSHION: 16.63 PSI Temperature Rating 155 G Ν At Test Calculation Gpm Required 61.58 Psi Required 66.12 Summary C-Factor Used: Overhead 120 Underground 120 W Water Flow Test: Pump Data: Tank or Reservoir: Rated Cap. Date of Test - 8-9-11 Cap. A Time of Test Elev. @ Psi Т - 83 Elev. Static (Psi) E Residual (Psi) - 20 Other Well R - 1233 Proof Flow Gpm Flow (Gpm) - 0 S Elevation Ρ Location: FEDERAL STREET Ρ Source of Information: PWD L Υ

Page 1

Date 6-19-12

Pressure / Flow Summary - STANDARD

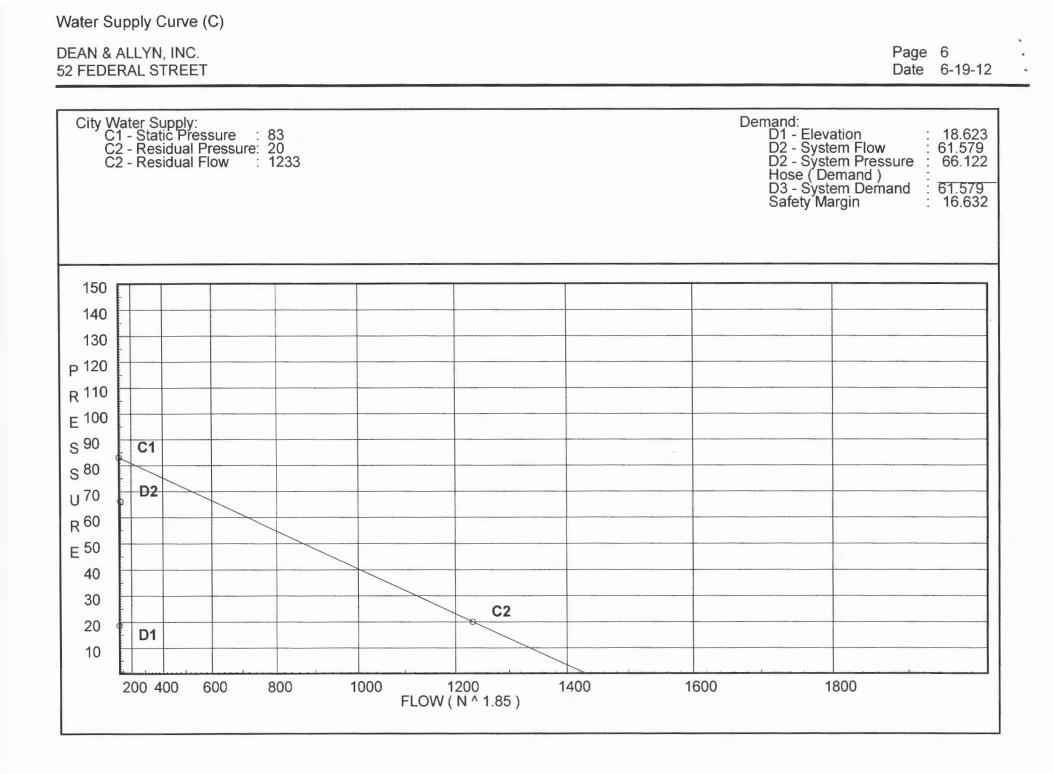
DEAN & ALLYN, INC. 52 FEDERAL STREET

	Page Date	6-19-12

Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
				,	10.00	0.05	050	7.0
1A	43.0	4.9	7.0	na	12.96	0.05	256	7.0
1	43.0	K = K @ 1	7.35	na	12.96			
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12	29.0		29.94	na				
13	21.0		35.73	na				
14	9.0		44.9	na				
TR	7.0		55.96	na				
FF	0.0		63.66	na				
CTY	0.0		66.12	na				

The maximum velocity is 13.21 and it occurs in the pipe between nodes 11 and 12 $\,$

DEAN & ALLYN, INC. 52 FEDERAL STREET					Page 5 Date 6-19-12	
Hyd. Ref. Point	Qa Dia. "C" Qt Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	****** Notes *****
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to	120.0	1Z 0.0	7.000	3.032		
FF	61.58 0.3328	0.0	14.000	4.659		Vel = 13.21
FF	0.0 1.38	2E 6.0	3.000	63.655		
to	120.0	0.0	6.000	0.0		
CTY	61.58 0.2741	0.0	9.000	2.467		Vel = 13.21
	0.0					
	61.58			66.122		K Factor = 7.57





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

Receipts Details:

Tender Information: Check, BusinessName: Dean & Allyn, Inc., Check Number: 12959 Tender Amount: 130.00

Receipt Header:

Cashier Id: gguertin Receipt Date: 6/25/2012 Receipt Number: 45310

Receipt Details:

Referance ID:	7013	Fee Type:	BP-Constr
Receipt Number:	0	Payment Date:	
Transaction Amount:	130.00	Charge Amount:	130.00
	2-06-4320-FAFS - Fire suppression syst ents: Dean & Allyn , Inc	tem	· ·

Thank You for your Payment!