

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



# CITY OF PORTLAND BUILDING PERMIT



This is to certify that

NORMAND BERUBE BUILDERS INC /Dean & Allyn Inc.

Located at

88 SKYLARK RD

PERMIT ID: 2013-00461

CBL: 349 I007001

has permission to **install NFPA 13D sprinkler sstem.**

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.

*Bjornaldh.*

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**

PERMIT ID: 2013-00461

Located at: 88 SKYLARK RD

CBL: 349 I007001

**BUILDING PERMIT INSPECTION PROCEDURES**  
Please call 874-8703 (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.**

**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

<b>Permit No:</b> 2013-00461	<b>Date Applied For:</b> 03/08/2013	<b>CBL:</b> 349 I007001
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<b>Location of Construction:</b> 88 SKYLARK RD	<b>Owner Name:</b> NORMAND BERUBE BUILDERS	<b>Owner Address:</b> 1040 PORTLAND RD	<b>Phone:</b>
<b>Business Name:</b>	<b>Contractor Name:</b> Dean & Allyn Inc.	<b>Contractor Address:</b> P.O. Box 709, 32 Lewiston Rd Gray	<b>Phone</b> (207) 657-5646
<b>Lessee/Buyer's Name</b>	<b>Phone:</b>	<b>Permit Type:</b> Fire Sprinkler Systems	

<b>Proposed Use:</b> New Single Family	<b>Proposed Project Description:</b> install NFPA 13D sprinkler sstem.
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<b>Dept:</b> Zoning	<b>Status:</b> Approved	<b>Reviewer:</b> Ann Machado	<b>Approval Date:</b> 03/11/2013
<b>Note:</b>			<b>Ok to Issue:</b> <input checked="" type="checkbox"/>

<b>Dept:</b> Fire	<b>Status:</b> Approved w/Conditions	<b>Reviewer:</b> Ben Wallace Jr	<b>Approval Date:</b> 03/12/2013
<b>Note:</b>			<b>Ok to Issue:</b> <input checked="" type="checkbox"/>

- 1) A warning sign, with minimum ¼ in. letters, shall be affixed adjacent to the main shutoff valve and shall state the following:  
Warning: The water system for this house supplies fire sprinklers that require certain flows and pressures to fight a fire. Devices that restrict the flow or decrease the pressure or automatically shut off the water to the fire sprinkler system, such as water softeners, filtrations systems, and automatic shut off valves, shall not be added to this system without a review of the fire sprinkler system by a fire protection specialist. Do not remove this sign.
- 2) The sprinkler system shall be installed in accordance with NFPA 13D.
- 3) A copy of the required state sprinkler permit with RMS signoff shall be provided prior to the final inspection.
- 4) 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.

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

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

Permit No: 2013-00461	Issue Date:	CBL: 349 I007001
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<b>Location of Construction:</b> 88 SKYLARK RD	<b>Owner Name:</b> NORMAND BERUBE BUILDERS INC	<b>Owner Address:</b> 1040 PORTLAND RD SACO, ME 04072	<b>Phone:</b>
<b>Business Name:</b>	<b>Contractor Name:</b> Dean & Allyn Inc.	<b>Contractor Address:</b> P.O. Box 709, 32 Lewiston Rd Gray ME 04039	<b>Phone:</b> (207) 657-5646
<b>Lessee/Buyer's Name</b>	<b>Phone:</b>	<b>Permit Type:</b> Fire Sprinkler Systems	<b>Zone:</b> R3
<b>Past Use:</b> New single family (#2012-65665)	<b>Proposed Use:</b> New Single Family	<b>Permit Fee:</b>	<b>Cost of Work:</b> \$0.00
<b>Proposed Project Description:</b> install sprinkler system in new single family (#2012-65665)		<b>FIRE DEPT:</b> <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <input type="checkbox"/> N/A 3/12/13	<b>INSPECTION:</b> Use Group: Type:
		Signature: <i>[Signature]</i> (58)	Signature:
<b>PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)</b>			
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied			
		Signature:	Date:

<b>Permit Taken By:</b> bjs	<b>Date Applied For:</b> 03/08/2013	<b>Zoning Approval</b>	
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<ol style="list-style-type: none"> <li>This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</li> <li>Building permits do not include plumbing, septic or electrical work.</li> <li>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..</li> </ol>	<b>Special Zone or Reviews</b> <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: 3/11/13 <i>[Signature]</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 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>
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### 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

2013-00461

### 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: 349 1007 88 SKYLARK ROAD

Building owner: BERUBE BUILDERS Phone: 883 8270 *for Wendy Swiger*

Installer: DEAN AND ALLYN Phone: 657 5646

Total sq/ft of building floor space per unit: SEE PLAN  Single-family home or

Sq/ft of sprinklered floor space per unit: SEE PLAN  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:  BY EMAIL

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

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

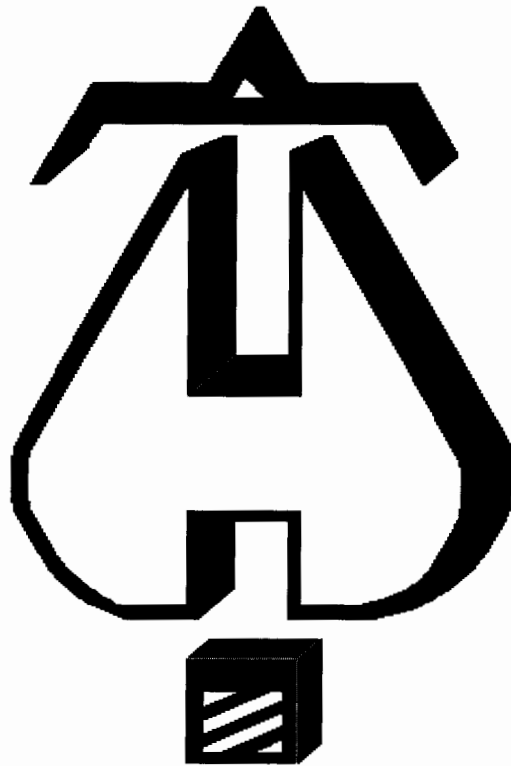
RECEIVED  
MAR 07 2013

Dept. of Building Inspections  
City of Portland Maine

<p><del>\$</del> COST OF WORK: <u>5700</u> (A times number of units)</p> <p>NO FEE REQUIRED</p>
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Additional information and Frequently asked questions about home fire sprinkler systems may be found at [www.portlandmaine.gov/fireprevention](http://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.



... Fire Protection by Computer Design

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

Job Name : 88 SKYLARK ROAD  
Building :  
Location : 88 SKYLARK ROAD PORTLAND MAINE  
System : ONE  
Contract : C13XXXX  
Data File : SKYLARK ROAD.WXF

HYDRAULIC DESIGN INFORMATION SHEET

Name - 88 SKYLARK ROAD Date - 3-2-13  
Location - 88 SKYLARK ROAD PORTLAND MAINE  
Building - System No. - ONE  
Contractor - DEAN AND ALLYN, INC. Contract No. - C13XXXX  
Calculated By - H. KING Drawing No. - 1 OF 1  
Construction: (X) Combustible ( ) Non-Combustible Ceiling Height 8'  
OCCUPANCY - RESIDENCE

S Type of Calculation: ( )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 - 13 Gpm System Type  
Listed Pres. at Start Point - 7 Psi (X) Wet ( ) Dry  
D MAXIMUM LISTED SPACING 16 x 16 ( ) Deluge ( ) PreAction  
E Domestic Flow Added - 5 Gpm Sprinkler or Nozzle  
S Additional Flow Added - Gpm Make VIKING Model FREEDOM  
I Elevation at Highest Outlet - 10' Feet Size K-Factor 4.9  
G Note:CUSHION 23.0 PSI Temperature Rating 155  
N

Calculation Gpm Required 31.0 Psi Required 47.0 CITY  
Summary C-Factor Used: Overhead 120 Underground 120

W Water Flow Test: Pump Data: Tank or Reservoir:  
A Date of Test - 2007 Rated Cap. Cap.  
T Time of Test - @ Psi Elev.  
E Static (Psi) - 70 Elev.  
R Residual (Psi) - 69 Other Well  
Flow (Gpm) - 838 Proof Flow Gpm  
S Elevation - 0

P Location: SKYLARK ROAD  
P  
L Source of Information: P W D  
Y

## Fittings Used Summary

DEAN & ALLYN, INC.  
88 SKYLARK ROAD

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Date 3-2-13

Fitting Legend		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8	10	12	14	16	18	20	24
Abbrev.	Name																				
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
G	NFPA 13 Gate Valve	0	0	1	1	1	1	1	1	1	2	2	3	4	5	6	7	8	10	11	13
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

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.  
88 SKYLARK ROAD

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Date 3-2-13

Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
1A	10.0	4.9	7.0	na	12.96	0.05	256	7.0
1	10.0	K = K @ 1	7.35	na	12.96			
2	10.0	K = K @ 1	7.43	na	13.04			
10	10.0		10.44	na				
11	10.0		10.97	na				
TR	0.0		18.05	na				
FF	0.0		25.58	na	5.0			
CTY	0.0		47.0	na				

The maximum velocity is 10.45 and it occurs in the pipe between nodes FF and CTY

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	***** Notes *****
1A to 1	12.96 12.96	1.049 120.0 0.0583	1T 5.0 0.0 0.0	1.000 5.000 6.000	7.000 0.0 0.350		K Factor = 4.90 Vel = 4.81
	0.0 12.96					7.350	K Factor = 4.78
1 to 10	12.96 12.96	1.049 120.0 0.0584	5E 10.0 0.0 0.0	43.000 10.000 53.000	7.350 0.0 3.093		K Factor @ node 1 Vel = 4.81
	0.0 12.96					10.443	K Factor = 4.01
2 to 11	13.04 13.04	1.049 120.0 0.0590	5E 10.0 1T 5.0 0.0	45.000 15.000 60.000	7.431 0.0 3.537		K Factor @ node 1 Vel = 4.84
	0.0 13.04					10.968	K Factor = 3.94
10 to 11	12.96 12.96	1.049 120.0 0.0583	0.0 0.0 0.0	9.000 0.0 9.000	10.443 0.0 0.525		Vel = 4.81
11 to TR	13.04 26.0	1.049 120.0 0.2115	1E 2.0 0.0 0.0	11.000 2.000 13.000	10.968 4.331 2.749		Vel = 9.65
TR to FF	0.0 26.0	1.049 120.0 0.2537	1Z 0.0 0.0 0.0	10.000 0.0 10.000	18.048 5.000 2.537		* Fixed loss = 5 Vel = 9.65
FF to CTY	5.00 31.0	1.101 120.0 0.2313	1G 1.266 1T 6.328 0.0	85.000 7.594 92.594	25.585 0.0 21.416		Qa = 5 Vel = 10.45
	0.0 31.00					47.001	K Factor = 4.52

# Water Supply Curve (C)

DEAN & ALLYN, INC.  
88 SKYLARK ROAD

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Date 3-2-13

City Water Supply:  
C1 - Static Pressure : 70  
C2 - Residual Pressure: 69  
C2 - Residual Flow : 838

Demand:  
D1 - Elevation : 4.331  
D2 - System Flow : 26  
D2 - System Pressure : 47.001  
Hose ( Demand ) : 5  
D3 - System Demand : 31  
Safety Margin : 22.997

