

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 06-0943	Issue Date: PERMIT ISSUED	CEP: 127-4005001
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Location of Construction: 501 FOREST AVE	Owner Name: ALPINE REALTY CORP	Owner Address: 120 EXCHANGE ST	Phone:
Business Name:	Contractor Name: HVAC Services, Inc.	Contractor Address: 73 Bradley Drive Westbrook	Phone: 2078544822
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone:

Past Use: Commercial	Proposed Use: Commercial/ install a Trane Rtu's roof top air conditioner	Permit Fee: \$381.00	Cost of Work: \$40,000.00	CEO District: 3
Proposed Project Description:		FIRE DEPT: NPPA 54 or 58 <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: HVAC Type: 6/30/06 Signature: [Signature]	

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: Idobson	Date Applied For: 06/26/2006	Zoning Approval	
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<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"/> late: _____	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 late: _____	Historic Preservation <input 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 late: _____
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CERTIFICATION

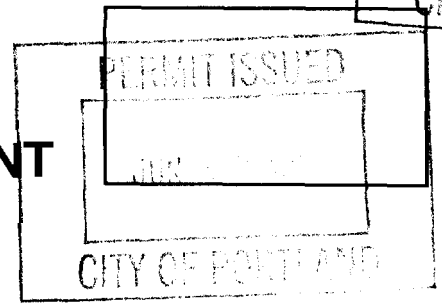
I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, 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



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to install the following heating, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Location / CBL 501 FOREST AVENUE 127 AS Use of Building General Office Date 6/26/06
 Name and address of owner of appliance Alpine Realty 120 Exchange St. Portland, ME
 Installer's name and address HVAC SERVICES INC 73 Bradley Dr, Westbrook ME 04092 Telephone 2078544822

Location of appliance:

- Basement
- Attic
- Floor
- Roof

Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: Trane Rtu's

U.L. Approved Yes No

Will appliance be installed in accordance with the manufacture's installation instructions? Yes No

IF NO Explain: _____

The Type of License of Installer:

- Master Plumber # _____
- Solid Fuel # _____
- Oil # _____
- Gas # PN + 1726
- Other _____

Type of Chimney:

- Masonry Lined
Factory built _____
- Metal
Factory Built U.L. Listing # _____
- Direct Vent
Type _____ UL# _____

Type of Fuel Tank

- Oil
- Gas

Size of Tank _____

Number of Tanks _____

Distance from Tank to Center of Flame _____ feet.

Cost of Work: \$ 40,000

Permit Fee: \$ 381

Approved

Approved with Conditions

Fire: _____

Ele.: _____

Bldg.: [Signature]

See attached letter or requirement

Inspector's Signature

Date Approved

Signature of Installer [Signature]

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Permit No: 06-0943	Date Applied For: 06/26/2006	CBL: 127 A005001
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Business Name:	Contractor Name: HVAC Services, Inc.	Contractor Address: 73 Bradley Drive Westbrook	Phone: (207) 854-4822
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	

Proposed Use: Commercial/ install a Trane Rtu's roof top air conditioner	Proposed Project Description: install a Trane Rtu's roof top air conditioner
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Dept: Fire **Status:** Approved with Conditions **Reviewer:** Cptn Greg Cass **Approval Date:** 06/28/2006
Note: **Ok to Issue:**

1) Install shall comply with all NFPA codes

L & L STRUCTURAL
ENGINEERING SERVICES, INC.

Six Q Street
South Portland, ME 04106
Phone: (207) 767-4830
Fax: (207) 799-5432

June 23, 2006

Mr. Rob Mitchell
HVAC Services, Inc.
73 Bradley Drive
Westbrook, Maine 04094

Subject: **Analysis** of the Roof Structure to Support **HVAC Units** for the building located at 501 **Forest Avenue**, Portland, Maine

Dear Mr. Mitchell,

As per your request we have reviewed and analyzed the existing roof structure at the building located at 501 Forest Avenue in Portland, Maine. The purpose of **our** analysis and review is to determine if the existing roof structure is capable of safely **supporting** the proposed **HVAC** units to be installed on top of **the roof**. The proposed **HVAC** units, according to information provided by your office, are **two** Trane model #YSC120A units (RTU 1 & 3) with an operational weight of **960** pounds and one **Trane model** #YSCO48A unit (RTU 2) with an operational weight of 505 pounds. **The** unit footprints are approximately 4'-2" x 7'-0" (for units RTU 1 & 3) and 3'-6" x 5'-6" (for unit RTU 2). There are **a total of** three proposed units to be installed on the roof according to the layout drawing provided by your office. We **utilized** the layout **drawing** provided by your office to ascertain the locations of each of the **proposed** units relative to the **structural** components we **observed** in the field. Our analysis and review of the roof structure was performed **utilizing** the 2003 International Building Code (**IBC**) adopted by the City of Portland, Maine and considering the Building Code Requirements for the material utilized in the existing roof structure.

The **existing** roof structure consists of 3" timber decking supported on 8x12 timber beams spaced approximately 8'-0" on center that span between structural steel **open** web girder *trusses* spaced approximately 20'-0" on center. The girder **trusses** are supported on **brick** piers **within** the exterior **brick wall** of the building.

The proposed roof top **HVAC** units shall be located as indicated on your drawing **with one side** of the unit parallel and adjacent to the steel girder truss. **Both** sides of the HVAC unit shall be supported with **newly** installed (2)2x8 beams. The new (2)2x8 beams shall be supported in Simpson LUS28-2 joist **hangers** at both ends fastened to the face of the existing 8x12 timber beams. The **existing** 8x12 timber beams shall be reinforced with an additional 2x10 installed on the opposite side of the **HVAC** unit tight to the underside of the existing insulation (flush with the bottom of the 8x12 beam) and fastened to the 8x12 beam **with** two rows of 16d nails @ 12" on center. The additional 2x10-reinforcing member shall be notched over the girder truss similar to the support condition for the existing 8x12 beam. The existing 3" deck beneath the unit shall be supported at the **edges** that are cut to **allow** access for **ducts** with additional (2)2x8 members supported with Simpson LUS28-2 joist hangers from the face of the perpendicular double 2x8 beams at both ends. The existing structural steel girder truss **is** sufficient to support the proposed HVAC roof top units in addition to the code stipulated roof loading.

501 Forest Avenue-WAC

6/23/06

page 2

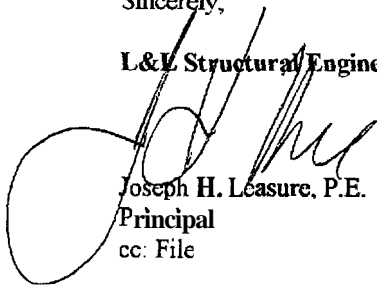
The existing roof structure shall be reinforced and the proposed HVAC units shall be located and oriented as indicated on the drawing provided to us by your office and as discussed in the previous paragraphs to enable the roof structure to safely support the code stipulated live (snow), dead load in addition the proposed HVAC mechanical roof top units.

If you have any further questions or require any additional information and/or technical assistance, please do not hesitate to call.

Sincerely,

L&L Structural Engine

services, Inc.



Joseph H. Leasure, P.E.
Principal
cc: File

