

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

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

Permit No: 05-0328	Issue Date: MAR	GBL: 148 A001001
Owner Name: Brockway-smith Company	Owner Address: 146 Dascomb Rd	Phone:
Business Name: Ouellet Heating & Plumbing Inc.	Contractor Name: Ouellet Heating & Plumbing Inc.	Contractor Address: P.O. Box 777 Scarborough 2078831627
Lessee/Buyer's Name	Phone:	Permit Type: HVAC
Past Use: Commercial	Proposed Use: Commercial/ install a direct vent natural gas heater	Permit Fee: \$147.00
		Cost of Work: \$14,000.00
		CEO District: 4
<b>FIRE DEPT:</b> <input type="checkbox"/> Approved <input checked="" type="checkbox"/> Denied Signature: <i>[Signature]</i>		<b>INSPECTION:</b> Use Group: F/S/U Type: Heating IBC 2003 Signature: <i>[Signature]</i>
<b>PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)</b> Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input checked="" type="checkbox"/> Denied Signature: _____ Date: _____		

Location of Construction: 187 Read St	Owner Name: Brockway-smith Company	Owner Address: 146 Dascomb Rd	Phone:
Business Name: Ouellet Heating & Plumbing Inc.	Contractor Name: Ouellet Heating & Plumbing Inc.	Contractor Address: P.O. Box 777 Scarborough 2078831627	Phone: 2078831627
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone:
Past Use: Commercial	Proposed Use: Commercial/ install a direct vent natural gas heater	Permit Fee: \$147.00	Cost of Work: \$14,000.00
		CEO District: 4	
<b>Proposed Project Description:</b> install a direct vent natural gas heater			
Permit Taken By: ldobson	Date Applied For: 03/29/2005	<b>Zoning Approval</b>	

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..

**Special Zone or Reviews**

Shoreland

Wetland

Flood Zone

Subdivision

Site Plan

Maj  Minor  MM

late: \_\_\_\_\_

**Zoning Appeal**

Variance

Miscellaneous

Conditional Use

Interpretation

Approved

Denied

late: \_\_\_\_\_

**Historic Preservation**

Not in District or Landmark

Does Not Require Review

Requires Review

Approved

Approved w/Conditions

Denied

late: \_\_\_\_\_

**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

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<b>Permit No:</b> 05-0328	<b>Date Applied For:</b> 03/29/2005	<b>CBL:</b> 148 A001001
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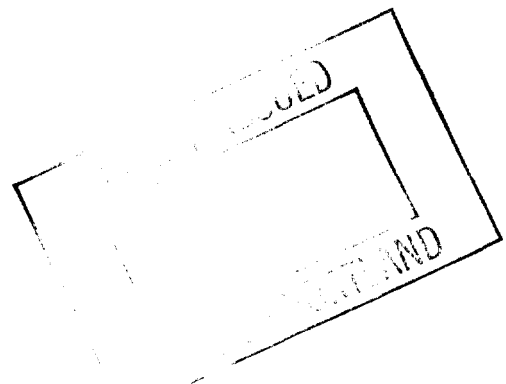
<b>Location of Construction:</b> 187 Read St	<b>Owner Name:</b> Brockway-smith Company	<b>Owner Address:</b> 146 Dascomb Rd	<b>Phone:</b>
<b>Business Name:</b>	<b>Contractor Name:</b> Ouellet Heating & Plumbing Inc.	<b>Contractor Address:</b> P.O. Box 777 Scarborough	<b>Phone</b> (207) 883-1627
<b>Lessee/Buyer's Name</b>	<b>Phone:</b>	<b>Permit Type:</b> HVAC	

	<b>Proposed Project Description:</b> install a direct vent natural gas heater
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**Dept:** Zoning      **Status:** Approved      **Reviewer:** Tamrny Munson      **Approval Date:** 03/30/2005  
**Note:**      **OktoIssue:**

**Dept:** Building      **Status:** Approved with-Conditions      **Reviewer:** Tammy Munson      **Approval Date:** 03/30/2005  
**Note:**      **OktoIssue:**

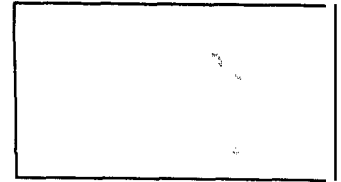
1) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.





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 \_\_\_\_\_ Use of Building \_\_\_\_\_ Date \_\_\_\_\_

Name and address of owner of appliance \_\_\_\_\_

Installer's name and address \_\_\_\_\_ Telephone \_\_\_\_\_

### Location of appliance:

- Basement
- Attic
- Floor
- Roof

### Type of Fuel:

- Gas
- Oil
- Solid

### Appliance Name:

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 # \_\_\_\_\_
- 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: \$ \_\_\_\_\_

Permit Fee: \$ \_\_\_\_\_

### Approved

Fire: \_\_\_\_\_

Ele.: \_\_\_\_\_

Bldg.: \_\_\_\_\_

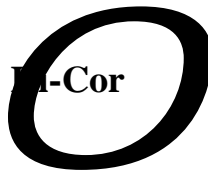
### Approved with Conditions

- See attached letter or requirement

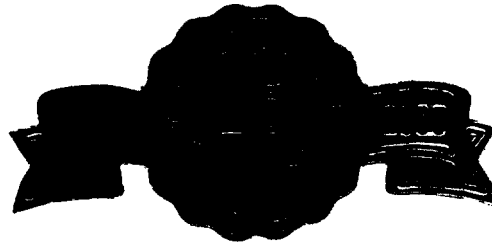
Inspector's Signature \_\_\_\_\_

Date Approved \_\_\_\_\_

Signature of Installer \_\_\_\_\_



**Di-Cor Industries, Inc.**  
Manufacturer of Lok-Rak Compatible Storage Racks



March 24,2005

Brosco  
203 Read Street  
Portland, ME 04103

Attention: Mr. **Ray** Briere

Dear Mr. Briere:

Per your request, our Select-A-Level pallet rack upright frames 192" High x 54" "out to out" will **support** 270# at a height of 192". This assumes that the frames are braced with bedrails at heights of 48", 96", 144" and 192" from the floor. These frames should be fastened to the concrete slabs with four - 1/2" x 4-3/4" long wedge anchors per upright frame (two per base plate).

The above **also** assumes undamaged components, and upright frames erected straight and plumb.

Sincerely yours,

**DI-COR INDUSTRIES, INC.**

Harry Vassiliou  
Sales Engineer

HV/ps

**Lincoln/Haney Engineering Associates, Inc.**

Structural Engineering Consultants

March 14, 2005

Peter L. Lincoln, P.E.  
William D. Haney, P.E.  
Donald A. Bragdon (1945-93)Ray Briere  
Brockway Smith  
203 Read Street  
Portland, ME 04104-0636

Subject: Roof Framing Evaluation, Brockway Smith Warehouse, Portland, Maine

Dear Ray:

I have reviewed the framing plans for the Brockway Smith Warehouse for the purpose of identifying a suitable support system for three new HVAC units. The intent *is* to hang these units from roof framing. The units **are** presently suspended from rods to Uni-strut channels which are fastened to the existing steel roof beams. Based on your measurements, the existing 10" roof beams are either 10B15 or 10B17, depending upon whether the flange is 1/4" thick or 5/16" thick. The city of Portland currently **has** a **flat** roof snow load requirement of 50 psf. Even choosing the heavier beam **and** adjusting for allowable stresses appropriate at the time of manufacture (1950's), this roof has a **rated** live capacity of approximately **47 psf**.

Although the HVAC units add only approximately 1 psf, or 2%, to the tributary area of any particular beam, the fact that the beams are already slightly under the required capacity prevents me from recommending a support structure that includes the existing 10" roof beams. I recommend adding two 6" **beams** at each unit to **support** the weight of the unit. I have included sketches detailing how this could be accomplished. The beams can be fabricated in a number of smaller pieces to facilitate the installation around existing mechanical and electrical interferences.

It should be noted that current building codes require seismic bracing for suspended mechanical equipment. For this building, the predicted lateral seismic loads are approximately 12% of the unit weight. A piece of Unistrut Series P2000 channel as a diagonal brace in each direction *is* called for **and** shown on the sketches.

Thank you for consulting our office on this matter. If you have any questions or comments, please call.

Sincerely,

Lincoln/Haney Engineering Associates, Inc.

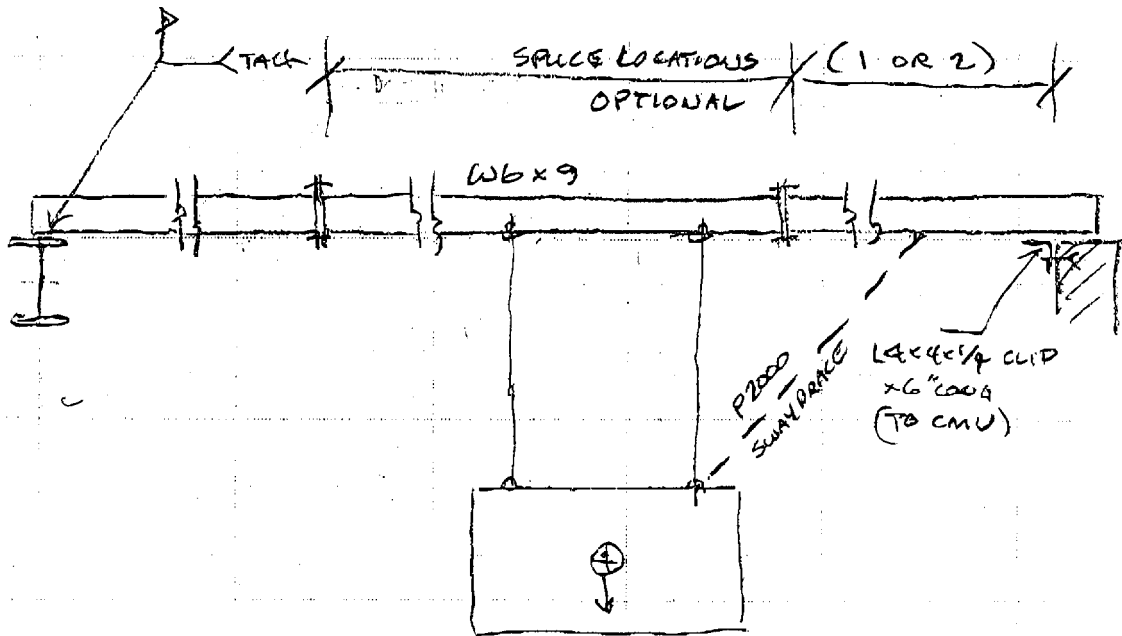


william D. Haney, P. E.

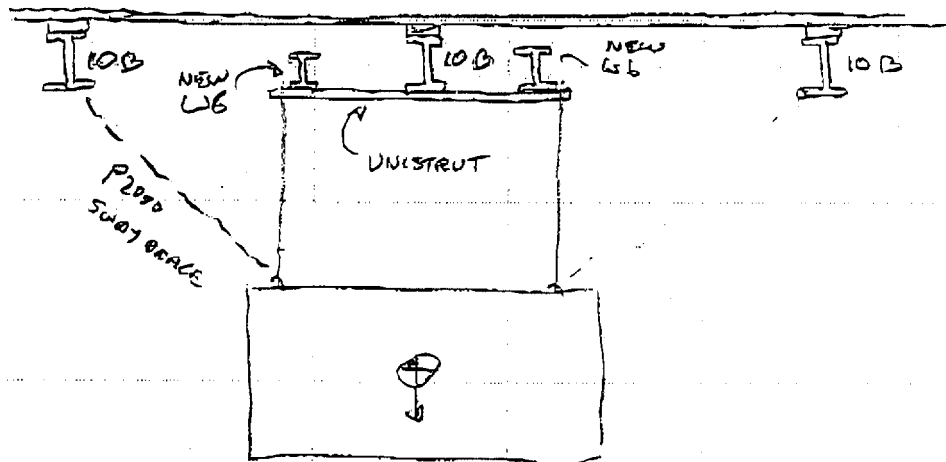
enclosure

**LINCOLN/HANEY**  
**ENGINEERING ASSOCIATES, INC.**  
 6 Federal Street  
 BRUNSWICK, MAINE 04011  
 (207) 729.1061

JOB BRDSCD - HUAC  
 SHEET NO. 2 OF 2  
 CALCULATED BY WDH DATE 3/19/05  
 CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 SCALE \_\_\_\_\_



SECTION ①  
 NTS



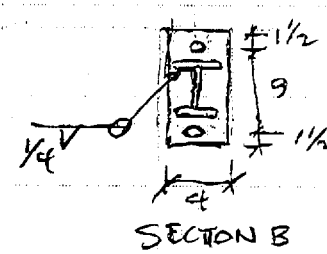
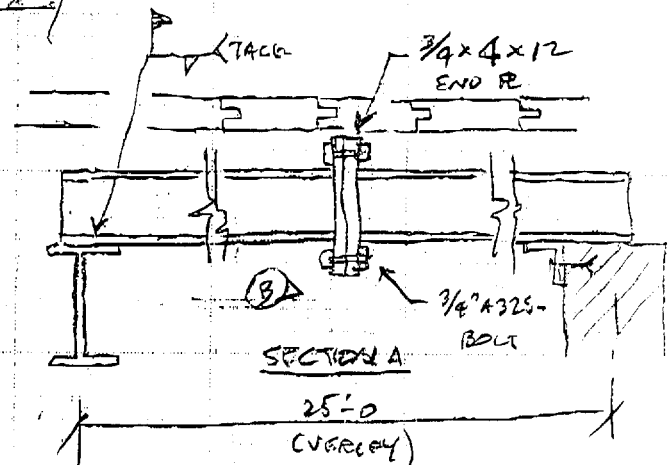
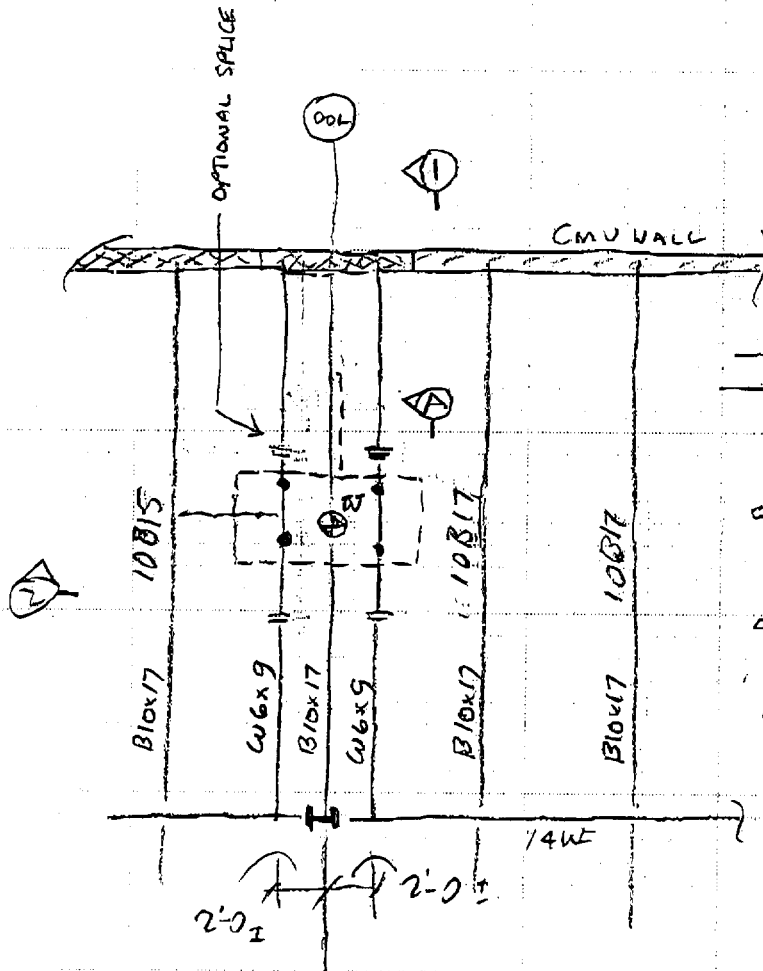
SECTION ②  
 NTS

**LINCOLN/HANEY  
ENGINEERING ASSOCIATES, INC.**

6 Federal Street  
BRUNSWICK, MAINE 04011  
(207) 729-1061

JOB BROSCO HVAC  
SHEET NO. 1 OF 2  
CALCULATED BY WDH DATE 3/19/05  
CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_  
SCALE \_\_\_\_\_

NOTES: 1. LOCATE UNITS @ COLUMN LINES  
2. SPLICE BEAMS AS NECESSARY TO CLEAR UTILITIES



PARTIAL PLAN  
YB = 1'-0"

Dead Load	Roams	3
	Decking	6
	Roofing	4.1
		<u>13</u>
Live load		50
Total		63 #/sf

$W = 63 \times 6.25 = 394$   
 $M = 394 \times 25^2 / 8 = 30.8$   
 $f_b = 22.8 \quad (10B17)$   
 $f_b = 2 \quad ( )$   
 $F_{allow} = .66 \times 33 = 21.8$

USE W6x9  $f_b = 7.5 < F_b$  ok.  
 $F_b = 57.4$   
 (2)













