389 Congress Street, 041 Location of Construction:			Permit Issue Date:	300 23 33 2 33 2
180 St John St	Owner Name:		ner Address	Phone:
Business Name:	Fraternal Orde		ntractor Address:	
Dusiness Name.	Avery Service		Thomas Drive Westbrook	207 7286 7
Lessee/Buyer's Name	Thome:		mit Type: CITY OF	PORT AND Zone:
			IVAC	01111110
Past Use:	'roposed Use:	Pe	rmit Fee: Cost of Work	: CEO District:
Eagles Club	Eagles Club/ i	nstall a Trane Gas /	\$174.00 \$16.96	0.00 2
	Electric RT 0	on Roof of building FII	RE DEPT: Approved	TBC 2003
Proposed Project Description:	•		/ // \	7/
install a Trane Gas / Electr	ric RTU on Roof of buildin	ĭ <u> </u>	gitature:	Signature:
		PEI	DESTRIAN ACTIVITIES DIST	RICT (P.A.D.)
				roved w/Conditions Deniell
D 4.77.1 D		Sig	gnature:	Date:
Permit Taken By: ldobson	Date Applied For: 0611512005		Zoning Approval	
		Special Zone or Reviews	Zoning Appeal	Historic Preservation
	on does not preclude the eting applicable State and	Shoreland	☐ Variance	Not in District or Landmar
2. Building permits do no		☐ Wetland	Miscellaneous	Does Not Require Review
septic or electrical wo	ork.	$1 \wedge 1 /$		
	ork. woid if work is not started of the date of issuance.	[Rioot Zone	Conditional Use	Requires Review
3. Building permits are v	void if work is not started of the date of issuance.	Frood Zone Subdivision	Conditional Use	Requires Review
3. Building permits are v within six (6) months False information may	void if work is not started of the date of issuance.			
3. Building permits are v within six (6) months False information may	void if work is not started of the date of issuance.	Subdivision Site Plan	Interpretation	Approved w/Conditions
3. Building permits are v within six (6) months False information may	void if work is not started of the date of issuance.	Subdivision	☐ Interpretation ☐ Approved	Approved

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

City of Portland, M	aine - Buil	lding or Use Permit	Permit No:	Date Applied For:	CBL:	
389 Congress Street, 0	4101 Tel: (207) 874-8703, Fax: (2	207) 874-871	5 05-0771	06/15/2005	068 D001001
Location of Construction:		Owner Name:		Owner Address:		Phone:
180 St John St		Fraternal Order Of Eag	gles	184 Saint John St		
Business Name:		Contractor Name:		Contractor Address:		Phone
		Avery Services, Inc.		7 Thomas Drive W	estbrook	(207) 772-8687
Lessee/Buyer's Name		Phone:		Permit Type:		•
				HVAC		
'roposed Use:			Propose	ed Project Description:		
Dept: Zoning Note:	Status: A	pproved	Reviewer	Tammy Munson	Approval D	ate: 0612812005 Okto Issue: ☑
Dept: Building Note:		pproved with Conditions		Tammy Munson	Approval D	ate: 06/28/2005 Ok to Issue:
1) An inspection of the	installation o	f the steel shall be condu	cted by a Profe	ssional engineer		
=						

FILL IN AND SIGN WITH INK



APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

		- 1
		1
		1

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:

Name and address of owner of appliance Name and address of owner of appliance 184 St. John Street	Use of Building Date
Name and address of owner of appliance 184 St. John StageT	PORHAND, Me,
Installer's name and address AVENY SERVICES	Telephone 772 - 8687 FAX 874 - 0933
Basement Floor Roof Attic Roof Roof Type of Fuel: Gas Oil Solid Appliance Name: TRANE GAS Electric Rhit U.L. Approved Yes No Will appliance be installed in accordance with the manufacture's installation instructions? Yes No IF NO Explain:	Type of Chimney: Masonry Lined Factory built Metal Factory Built U.L. Listing # Direct Vent Type UL# Type of Fuel Tank Gas - Northern Utilities (nat Gas) Size of Tank Number of Tanks Distance from Tank to Center of Flame Cost of Work: \$ Permit Fee: \$
Approved Fire:	Approved with Conditions See attached letter or requirement
Bldg.: Signature of Installer	Inspector's Signature Date Approved



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 BD Name and address of owner of appliance TAMPD 184 ST TOHN ST PORTHAND Installer's name and address AUERY SERVICE 7 THOMAS PR. WESTBROOK M	Use of Building Date 6-13-5 EAGLES DAULD DIPLETRO FS Telephone 772 8687
Location of appliance: Basement Roof	Type of Chimney: Masonry Lined Factory built
Will appliance be installed in accordance with the manufacture's	Metal Factory Built U.L. Listing #
Approved Fire: Ele.: Bldg.: White - Inspection Yellow - File P	Approved with Conditions See attached letter or requirement Inspector's Signature Date Approved ink - Applicant's Gold - Assessor's Copy

PROPOSAL

915

AVERY SERVICES, INC. 7 Thomas Drive WESTBROOK, MAINE 04092 (207) 772-8687

FAX (207) 874-0933

TO: Portland Eagles Club 184 St. John Street Portland ME 04101

,	PHONE	DATE
	(207) 773-9448	4/29/05
	JOB NAME / LOCATION	
	Rooftop unit replacement a	t Portland Eagles on St
	John Street	
	JOB NUMBER	JOB PHONE
	579662	JOB PHONE
	KKH # 17 1700	

	JOB NUMBER RBH #579963 JOB PHONE
We hereby submit specifications and estimates for:	
Avery Services pleased to submit a quote to replace your exist scope of work is as follows:	ng rooftop unit with a new Trane rooftop unit. The
Disconnect and dispose of your existing rooftop unit,	
Provide a crane to remove the old unit and set the new unit.	
Reconnect to existing gas piping, Iow voltage control system a connect to existing duct work.	nd existing disconnect. Transition as necessary to
Start up and test.	
EXCLUSIONS: Adequacy of existing systems.	
	ب المارية المار
We Propose hereby to furnish material and labor — complete in accordance w	•
Sixteen Thousand Nine Hundred Sixty and 00/100 Dollars Payment to be made as follows:	dollars (\$ 16,960.00).
	palances due upon substantial completion.
	on the overdue balance plus all reasonable costs of collection,
All material is guaranteed to be as specified. All work to be completed in a professional manner according to standard practices. Any alteration or deviation from above specifical All functions involving extra costs will be executed only upon written orders, and will become an extra 3ign charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado, and other necessary insurance. Our workers are fully covered by Worker's Compensation insurance.	Rec STOENT Note: This proposal may be larger us if not accepted within days.
Acceptance of Proposal — The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified Payment will be made as outlined above.	-A
Signati	ne/

NEBS To Reorder: 800-226.6380 or nebs.com/

PRINTED IN U.S.A.

PRODUCT 13128 FOLD AT (s) TO FIT COMPANION 772 DU-O-VUE ENVELOPE.

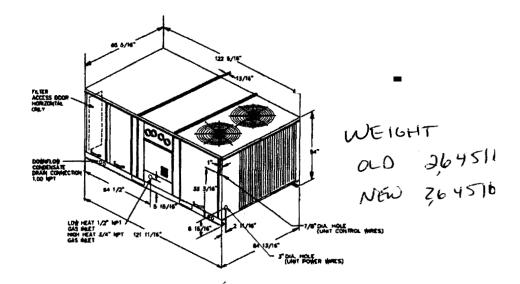
Dde of Acceptance:



Dimensional Data

1 1/2" PERIMETER CURB FLANGE

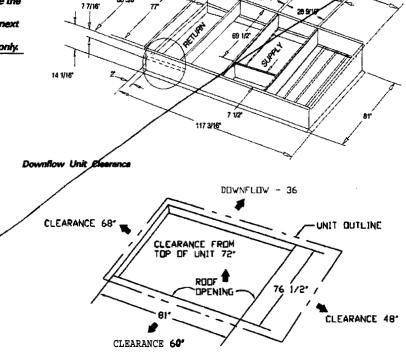
All dimensions are in inches.



Note:

Duct flanges mount 7-7/16" down inside the curb on the 1-1/2" curb flanges. See recommended duct dimensions on the next page.

Roofcurb is intended for downflow use only.



1 13/16

TREXANDER HUTCHEON ASSOCIATES

May 18, 2005

Mr. Jim Small
The Fraternal Order of Eagles
184 St. John Street
Portland, Maine 04102

Re: Support of air conditioning unit

Dear Mr. Small;

At your request, I have examined the proposed location of the air conditioning unit, on the roof of the northerly section of your building, and I have, measured the various components of the roof framing system, in order to certify, For the Portland Code Enforcement Officer, that the roof structure has the capacity to support the unit safely.

As shown on the enclosed sketch, the roof is framed with full 2 by 8 joists, spanning about 14 feet, between trussed girders, which span the 27-ft. width of the building.

The trussed girders consist of a 5-1/2" by 9" timber top chord, a 1-3/4" diameter steel lower chord, and vertical timber struts at about 8'-10" from each cnd.

I have determined, from careful and accurate calculations, and loads furnished by Rob Hall, of Avery Services, that the proposed air conditioning unit would cause the top chord of the trussed girder to be overstressed by about 69 per cent, and the lower chord to be overstressed by about 20 per cent. Accordingly, the location of the new unit can not be determined to be safe.

It would not be feasible to reinforce the trussed girder, because of the way in which it is fabricated-

An alternate solution would be to install two 28-ft. steel beams, above the trussed girders, and then frame a support between these two beams, at the desired location of the air Conditioning unit.

ices Inc 7-772-8687 3-04092	, 		·— ·— ·—	
Frx# 207-874-0933 Phone# 207-772-8687 7 Thomas Dr Westbrook, ME 04092		55 patentine in contraction	This is	
x# 207-874-09	Attention: \bigcup_{i}	From: (2 os) Date: 5/3, 65	1206 TH5 15	
Fas	At	Fron		

Mr. Jin small

The fraternal Order of Eagles

Way 18, 2005 page 2 of 2

Re: support of air conditioning unit

It is possible tht Rob Hall may be able to find an alternate location.

Your questions and comments regarding this report are welcome.

Very truly yours,

ALEXANDER HUTCHEON Associates,

Engineers

Alexander Rutcheon, P.E.

President

Enclosures: Sketch of partial roof plan

Calculation sheets 1, 2 and 3 Invoice for professional services



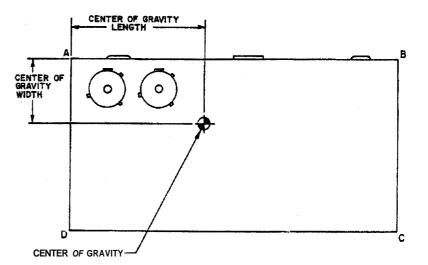


Weights

Table W-3 - Maximum Unit And Comer Weights (Lbs) and Center Of Gravity Dimensions (In.)

	Unit	Maximum W	eights (Lbs) ²		Comer We	ights (Lbs)1		Center of G	ravity(ln.)
Tons	Model No.	Shipping	Net	A	В	С	D	Length	Width
121/2	YC*150D/YC*151C	1826'1915	1458/1547	495/523	373/383	254/271	336/370	46'45	29/30
1272	YC*151C (Reheat Units)	1870/1959	1502/1591	506/534	384/394	265/282	347/381	46'45	29/30
15	YC*180B/YC*181C YC*181C (ReheatUnits)	2033/2464 2097/2528	1 665/2005 1729/2069	600/686 6111697	395/504 406/515	266/345 277/356	404/470 415/481	43/52 43/52	29/35 29/35
171/2	YC*210C/YC*211C	2189/2547	1821/2088	618/701	463/538	317/369	424/480	46/53	29/35
20	YC*240B YC*241C YC*241C (Reheat Units)	2547/2645 2567/2665	2088/2186 2108/2206	738/751 743/756	526/568 531/573	343/373 348/378	481/494 486/499	51153 51/53	34/34 34/34
25	YC*300B/YC*301C	2541/2650	2082/2191	721/755	552/569	351/373	458/495	53/53	33/34

Notes:
1. Cornerweights are given for information only. 121/2-25 ton must be supported continuously by a curb or equivalent frame support.
2. Weights are approximate. Horizontal and downflow unit and corner weights may vary slightly.



RT-PRC001-EN 67

^{*}Indicates bothdownflow and horizontal units.



Mechanical Specifications

General

The units shall be dedicated downflow or horizontalairflow. The operating range shall be between 115°F and 0°F in cooling as standardfrom the factory for all units. Cooling performance shall be rated in accordancewith ARI testing procedures. All units shall be factory assembled, internally wired, fully charged with R-22, and 100 percent run tested to check cooling operation, fan and blower rotation and control sequence, before leaving the factoty. Wiring internal to the unit shall be colored and numberedfor simplified identification. Units shall be UL listed and labeled, dassified in accordance to UL 1995/CAN/CSA No. 236-M90 for Heat Pumps, Canadian units shall be CSA Certified.

Casing

Unit casing shall be constructed of zinc coated, heavy gauge, galvanized steel. Exterior surfaces shall be cleaned, phosphatized, and finished with a weather-resistant baked enamel finish. Unit's surface shall be tested 500 hours in a salt spray test in compliance with ASTM B117. Cabinet construction shall allow for all maintenance on one side of the unit In order to ensure a water and air tight seal, service panels shall have lifting handels and no more thatn three screws to remove. All exposed vertical panels and top ∞vers in the indoor air section shall be insulated with a 1/2 inch, 1 pound density foil-faced, fire-resistant, permanent, odorless, glass fiber material. The base of the downflow unit shall be insulated with 1/2 inch, 1 pound density foil-faced, closed-cell material. The downflow unit's base pan shall have no penetrations within the perimeter of the curb other than the raised 11/2 inch high supply/return openingsto provide an addedwater integrity precaution, if the condensate drain backs up. The base of the unit shall have provisions for forklift and crane lifting.

UnitTop

The top cover shall be one piece, or where seams exist, double hemmed and gasket sealed to prevent water leakage.

Filters

Two inch standard filters shall be factoty supplied on all units Optional two inch pleated media filters shall be available.

Compressors

All units shall have directdrive, hermetic, scrolltype compressors with centrifugal type oil pumps Motorshall be suction gas-cooled and shall have a voltage utilization range of plus or minus 10 percent of nameplate voltage. Internal overloads shall be provided with the scroll compressors. All models shall have crankcase heaters, low and high pressure control as standard.

Refrigerant Circuits

Each refrigerant circuit shall have independent fixed orifice or thermostatic expansion devices, service pressure ports, and refrigerant line filter driers factory installed as standard. An area shall be provided for replacement suction line driers.

Evaporator and Condenser Coils Internallyfinned, 3/8" copper tubes mechanicallybondedto a configured aluminum plate fin shall be standard. Coils shall be leak tested at the factory to ensure the pressure integrity. The evaporator coil and condenser coil shall be leak tested to 200 psig and pressure tested to 450 psig. All dual compressor units shall have intermingled evaporator coils. Sloped condensate drain pans are standard. Patent-pending 1+1+1 condenser coil, permanently gapped for easy cleaning is available.

Gas Heating Section

The heating section shall have a drum and tube heat exchanger design using corrosion resistant steel components. A forced combustion blower shall supply premixedfuel to a single burner ignited by a pilotlesshot surface ignition system. In order to provide reliable operation, a negative pressure gas valve shall be used that requires blower operation to initiate gas flow. On an initial call for heat, the combustion blower shall purgethe heat exchanger 45 seconds before ignition. After three unsuccessful ignition attempts, the entire heating system shall be locked out until manually reset at the thermostat Units shall be suitable for use with natural gas or propane (field installed kit) and shall also comply with California requirements for low NOx emissions. The 121/2-25 tons shall have two stage heating.

Outdoor Fans

The outdoor fan shall be direct-drive, statically and dynamically balanced, draw-through in the vertical discharge position. The fan motor(s) shall be permanently lubricated and shall have built-inthermal overload protection.

Indoor Fan

Units above shall have belt driven, FC centrifugalfans with adjustable motor sheaves. Units with standard motors shall have an adjustable idler-arm assembly for quick-adjustment of fan belts and motor sheaves. All motors shall be thermally protected. Oversized motors shall be available for high static application. All indoorfan motors meet the U.S. Energy PolicyAct of 1992 (EPACT).



June 10, 2005

Mr. Mike Nugent, Code Enforcement Officer
City of Portland, Maine
389 Congress Street
Portland, Maine 04101

Re: New supports for Air Conditioning Unit Portland Eagles Club 184 St John Street

Dear Mr. Nugent:

I prepared the enclosed drawing, "Air Conditioning Unit Support" dated May 26, 2005, after examining the conditions at the site, and performing structural calculations for the new steel.

Very truly yours,

ALEXANDER HUTCHEON Associates, Engineers

Alexander Hutcheon, P.E. President

Enclosures: Drawing 'Air Conditioning Unit Support"