City of Portland, Maine - Building or Use Permit Application

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

Permit No:	Issue Date:	CBL:
05-1377	PERMIT ISSUED OCT 21 2005 CITY OF PORTLAND	044-G006001

Location of Construction:	Owner Name:	Owner Address:	Phone:
25 TYNG ST	FRESH FISH LLC	377 CUMBERLAND AVE	
Business Name:	**Contractor Name:**	**Contractor Address**	**Phone**
	Multi Spec Inc.	230 Saco Rd Hollis	2077275111
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	**Zone:**
		HVAC	

Past Use:	Proposed Use:	Permit Fee:	Cost of Work:	CEO District:
Multi Units	New 3 unit condo/ install 3 boilers in basement and 3 air handlers in attic	$579.00	$62,000.00	2

FIRE DEPT: ☑ Approved ☐ Denied

To NFPA 54

Signature: Greg Cass

INSPECTION:
Use Group: V Type: HVAC

State Gas Rules

Signature:

Proposed Project Description:
install 3 boilers in basement and 3 air handlers in attic 1each per unit

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)

Action: ☐ Approved ☐ Approved w/Conditions ☐ Denied

Signature: Date:

Permit Taken By:	Date Applied For:
ldobson	09/19/2005

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..

Zoning Approval

Special Zone or Reviews	Zoning Appeal	Historic Preservation
☐ Shoreland	☐ Variance	☑ Not in District or Landmark
☐ Wetland	☐ Miscellaneous	☐ Does Not Require Review
☐ Flood Zone	☐ Conditional Use	☐ Requires Review
☐ Subdivision	☐ Interpretation	☐ Approved
☐ Site Plan	☐ Approved	☐ Approved w/Conditions
Maj ☐ Mjnor ☐ MM ☐	☐ Denied	☐ Denied
Date: 10/20/05	Date:	Date: 10/20/05

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 25 TWNS St. 27, 29 Use of Building Residential Date 9/19/05

Name and address of owner of appliance Ron Spinella, 377 Cumberland Ave Portland ME 04101 (Cranmore Row Two Homes)

Installer's name and address Multi Spec Inc 230 Saco rd Nolli ME Telephone 207-727-5111

Location of appliance:

- [X] Basement
- [ ] Floor
- [X] Attic
- [ ] Roof

Type of Fuel:

- [X] Gas
- [ ] Oil
- [ ] Solid

Appliance Name: _____

U.L. Approved [X] Yes [ ] No

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

IF NO Explain: _____

The Type of License of Installer:

- [ ] Master Plumber # _____
- [ ] Solid Fuel # _____
- [ ] Oil # _____
- [X] Gas # NPTS
- [ ] Other _____

Type of Chimney:

- [ ] Masonry Lined
  Factory built _____
- [ ] Metal
  Factory Built U.L. Listing # _____
- [X] Direct Vent
  Type SAFTY VENT UL# 0101129755

Type of Fuel Tank:

- [ ] Oil
- [X] Gas

DEPT. OF BUILDING INSPECTION CITY OF PORTLAND, ME
SEP 19 2005
RECEIVED

Size of Tank _____

Number of Tanks _____

Distance from Tank to Center of Flame _____ **feet.**

Cost of Work: $ 62,000

Permit Fee: $ _____

Approved

Fire: _____

Ele.: _____

Bldg.: _____

Approved with Conditions

- [ ] See attached letter or requirement

_____ Inspector's Signature

_____ Date Approved

Signature of Installer _____

White - Inspection Yellow - File Pink - Applicant's Gold - Assessor's Copy

City of Portland, Maine - Building or Use Permit

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

Permit No:	Date Applied For:	CBL:
05-1377	09/19/2005	044 C006001

Location of Construction:	Owner Name:	Owner Address:	Phone:
25 TYNG ST	FRESH FISH LLC	377 CUMBERLAND AVE	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Multi Spec Inc.	230 Saco Rd Hollis	(207) 727-5111
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	
		HVAC	

Proposed Use:	Proposed Project Description:
New 3 unit condo/ install 3 boilers in basement and 3 air handlers in attic	install 3 boilers in basement and 3 air handlers in attic 1each per unit

Dept: Zoning **Status:** Approved **Reviewer:** Tammy Munson **Approval Date:** 10/20/2005

Note: **Ok to Issue:** ☑

Dept: Building **Status:** Approved with Conditions **Reviewer:** Tammy Munson **Approval Date:** 10/20/2005

Note: **Ok to Issue:** ☑

1) The installation must comply with the State of Maine Gas Regulations.

Dept: Fire **Status:** Approved with Conditions **Reviewer:** Cptn Greg Cass **Approval Date:** 10/20/2005

Note: **Ok to Issue:** ☑

1) Air handling systems to be installed to NFPA 90A

2) Boiler rooms are considered hazarous areas and require one hour seperation.

3) Install to NFPA 54

Comments:

9/20/05-ldobson: Need structurals, let both contractor and Ron know. LJD

10/20/05-tmm: ok rec'd.

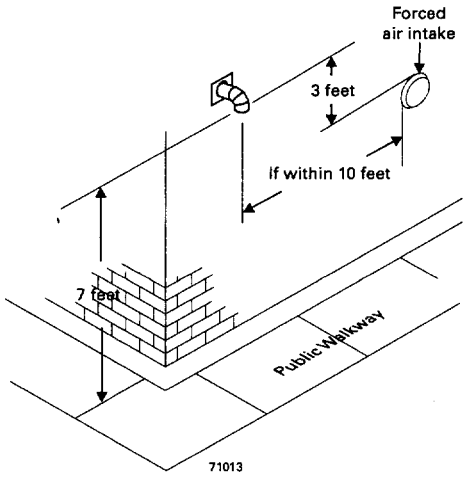
3e Venting — direct exhaust — vent termination

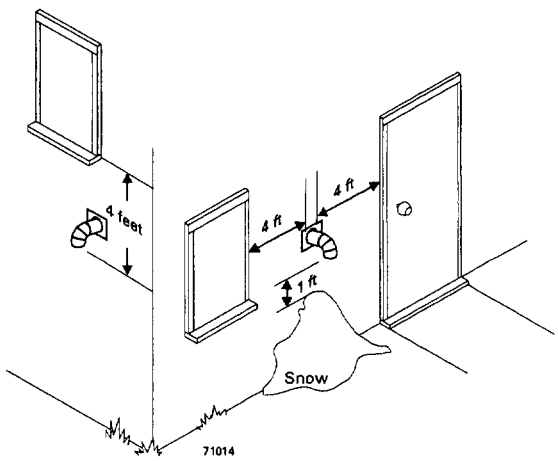
WARNING Follow instructions on this page when determining vent location to avoid possibility of severe personal injury, death or substantial property damage.

1. Locate the boiler and vent penetration through the wall so all requirements on this page and in Figure 12 will be met. Also follow vent manufacturer's instructions.
2. Gases will form white plume in winter. Plume could obstruct window view.
3. Prevailing winds could cause freezing of condensate and water/ice buildup on vent termination, building, plants or roof. Ice buildup on vent termination can cause boiler shutdown and building freezeup.
4. Winds over 31 mph can cause nuisance boiler shutdown if boiler is sidewall vented. This could result in loss of heat to building, causing freezeup.
5. Locate or guard vent termination to prevent condensate from damaging exterior surfaces.
6. Locate the vent termination well away from trees, shrubs, and decorative items.
7. Locate or guard vent to prevent accidental contact by people or pets.
8. Do not terminate vent in window well, stairwell, alcove, courtyard, or other recessed areas.
9. Do not wrap or insulate vent pipe or fittings.
10. Do not terminate vent above any door or window. Condensate can freeze, causing ice formations.
11. Do not connect:
    - Any other appliance to vent pipe.
    - Multiple boilers to a common vent pipe.
12. Canadian installations — See B149.1 or B149.2 Installation Code. Terminate vent no less than 6 feet from another combustion air inlet, 3 feet from any other building opening, and 3 feet from any gas service regulator.
13. See **Figure 12**, showing that the vent must terminate:
    - more than 4 feet below or to side of all doors or windows.
    - more than 1 foot above grade or anticipated snow line.
    - at least 7 feet above public walkway.
    - 3 feet above any forced air intake within 10 feet.
14. Vent must also terminate:
    - at least 6 feet away from adjacent walls.
    - no closer than 5 feet below roof overhang.
    - at least 4 feet horizontally (and in no case above or below unless a 4 foot horizontal distance is maintained) from electric meters, gas meters, regulators, relief valves, and other equipment.
15. Site conditions may dictate greater clearances.
16. Do not extend exposed vent pipe outside of building. Condensate could freeze and block vent pipe.

WARNING A gas vent extending through an exterior wall shall not terminate adjacent to the wall or below building extensions such as eaves, parapets, balconies or decks. Failure to comply could result in severe personal injury, death or substantial property damage.

Figure 12 Vent termination minimum clearances





3f Venting — direct exhaust.....

1. Do not mix types or manufacturers of vent materials.

2. Clean all joints before sealing. See vent manufacturer's instructions for cleaning and sealing joints. Use their specified sealant. Do not use screws.

3. Install vent pipe with seams on top of vent horizontal runs. Follow requirements in section **3e**, page 17, for vent termination.

4. Maintain minimum 2" clearance from combustible materials to vent pipe.

5. **Vertical venting** — See **Figure13**. Follow vent manufacturer's instructions for venting through roof.
   - Vent pipe must extend through roof flashing, jacket or thimble.
   - Vent may pass through floor, inside wall or concealed space when installed according to vent manufacturer's instructions.

   Sidewall venting — See **Figures 14 and 15.** Vent must terminate at least one foot above anticipated snowline. Vent must be terminated only with:
   - Tee or elbow with integral screen. (Tee may be mounted either vertically or horizontally. **DO NOT** use horizontal tee with CGi-7 or CGi-8.)
   - Elbow and termination coupling with screen (not available for StaR-34).

6. Do not seal vent pipe (slip connector for Saf-T Vent) to inside or outside plate.

7. If passing through noncombustible wall, provide hole diameter large enough to insert the vent pipe (slip connector for Saf-T Vent).

8. Install horizontal drain tee as close as possible to boiler, in first horizontal run. See **Figure 13**.

9. Do not exceed the maximum vent system length given in **Table 4**, page 15.

WARNING Condensate drain line — use only silicone tubing rated for at least 400 °F for the condensate drain line. Using any other material could cause flue gas leakage, potentially resulting in severe personal injury, death or substantial property damage.

CAUTION On some installations, the condensate drain fitting may be omitted, provided:

- Vent manufacturer shows this option in their instructions.
- Vent is sloped toward termination as shown in dotted lines in **Figure 14.**
- The vent is installed per Weil-McLain and vent manufacturer's instructions.

Condensate drippage from such vents may accumulate on the ground below. Consider traffic in the area to avoid hazard due to ice accumulation.

Figure 13 Direct exhaust vertical venting

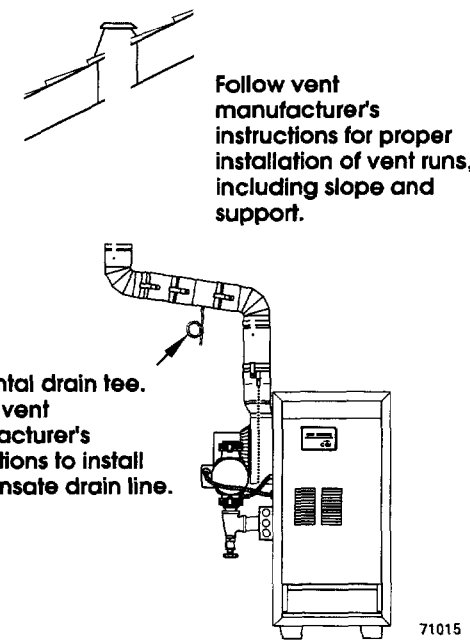
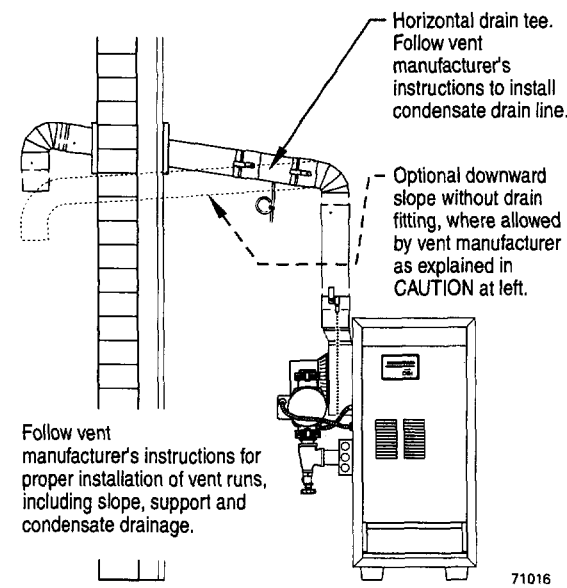


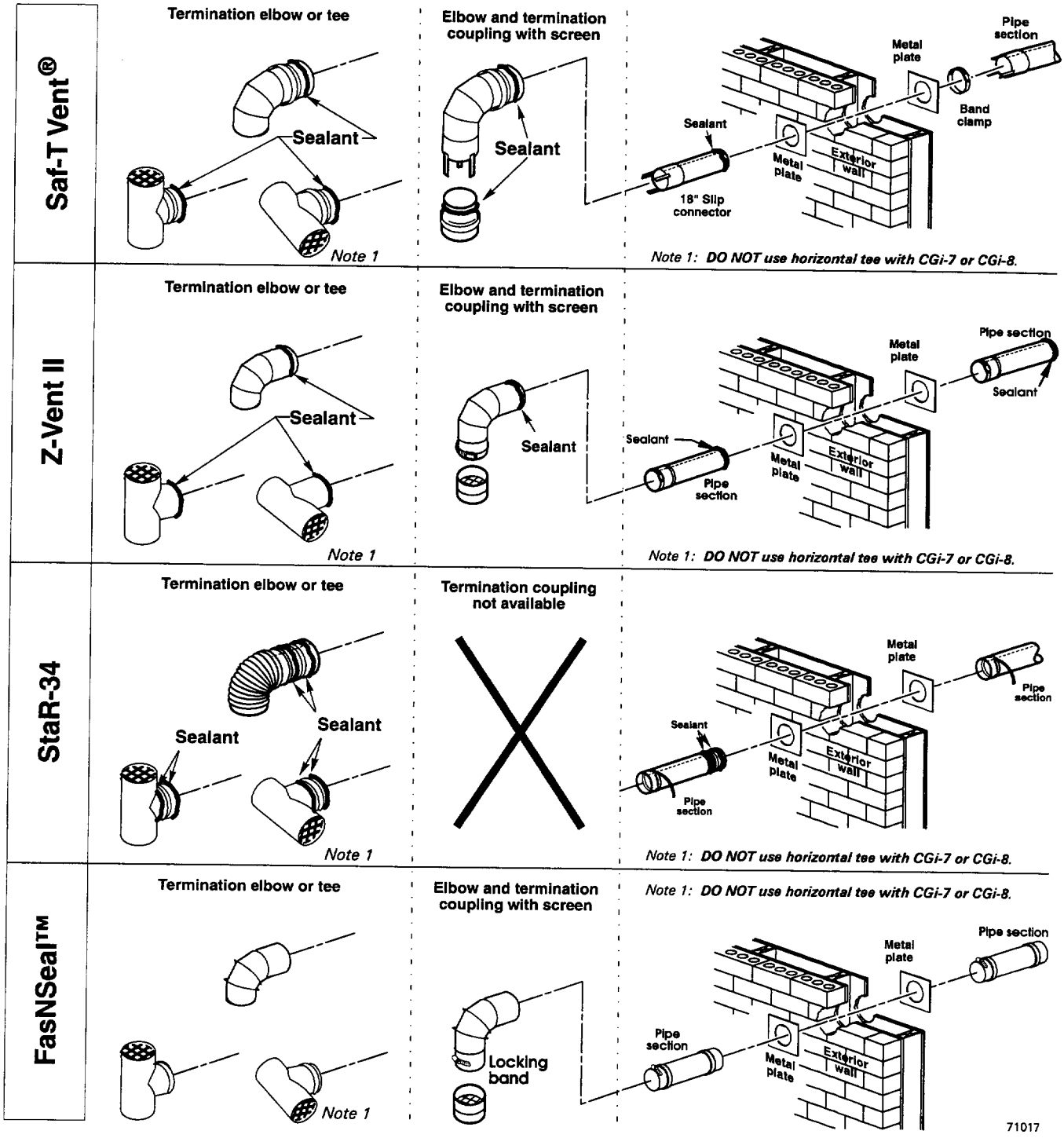
Figure 14 Direct exhaust sidewall venting



vertical or sidewall

WARNING Using any termination other than one of those shown could cause nuisance outages and loss of heat, resulting in substantial property damage.

Figure 15 Sidewall termination



4a Water piping — general information

General piping information

If installation is to comply with ASME or Canadian requirements, an additional **high temperature limit** is needed. Install control in supply piping between boiler and isolation valve. Set second control to minimum 20 °F above setpoint of first control. Maximum allowable setpoint is 240 °F. See section **9b**, pages 38 and 39, for wiring.

A **low water cutoff device** is required when boiler is installed above radiation level or by certain state or local codes or insurance companies. Use low water cutoff designed for water installations. Electrode probe-type is recommended. Purchase and install in tee in supply piping above boiler.

Use **backflow check valve** in cold water supply as required by local codes.

Pressure/temperature gauge

Install pressure/temperature gauge in tee on supply piping (as shown in drawing on page 3). The gauge well is a self-closing valve, allowing removal of the gauge without draining the system.

WARNING Slowly remove pressure/temperature gauge from well. The self-closing valve could leak if clogged with sediment. If water begins to spray, stop removing gauge. Close system fill valve and drain enough water to release system pressure before continuing with gauge removal. Escaping hot water could cause severe personal injury.

Relief valve

Install relief valve vertically in ¾" tapping on side of boiler. See **Figure 16 or 17** and the tag attached to the relief valve for manufacturer's instructions.

WARNING To avoid water damage or scalding due to relief valve operation:

- Discharge line must be connected to relief valve outlet and **run to a safe place of disposal.** Terminate the discharge line to eliminate possibility of severe burns should the valve discharge.
- Discharge line must be as short as possible and be the **same size as the valve discharge connection** throughout its entire length.
- Discharge line must **pitch downward** from the valve and terminate at least 6" above the floor drain where any discharge will be clearly visible.
- The discharge line shall **terminate plain, not threaded,** with a material serviceable for temperatures of 375 °F or greater.
- **Do not pipe the discharge to any place where freezing could occur.**
- **No shutoff valve** shall be installed between the relief valve and boiler, or in the discharge line. Do not plug or place any obstruction in the discharge line.
- **Failure to comply** with the above guidelines could result in failure of the relief valve to operate, resulting in possibility of severe personal injury, death or substantial property damage.
- **Test the operation of the valve** after filling and pressurizing system by lifting the lever. Make sure the valve discharges freely. If the valve fails to operate correctly, replace it with a new relief valve.

Circulator

The circulator is shipped loose (wiring pre-attached to boiler) to allow you to locate it either in the return or supply piping, as desired. See page 3 for a typical installation. Pipe the expansion tank to the suction side of the circulator whenever possible. Install an air separator in the supply piping. Connect the expansion tank to the air separator only if the separator is on the suction side of the circulator. Always install the system fill connection at the same point as the expansion tank connection to the system. **Figures 16** and **17** show typical near-boiler piping connections.

System water piping

See **Figure 16** (diaphragm-type or bladder-type expansion tank) or **Figure 17** (closed-type expansion tank) on page 21, and **Table 6** below, for near-boiler and single-zone systems designed for return water at least 130 °F.

See pages 22-23 to complete multiple-zone piping or pages 24-29 to complete piping for radiant heating systems or converted gravity systems.

Refer to page 29 for boilers used with refrigeration systems.

Table 6 Water pipe size (based on 20 °F rise)

Boiler model number	To system	From system
CGi-25	¾"	¾"
CGi-3	1"	1"
CGi-4	1"	1"
CGi-5	1"	1"
CGi-6	1 ¼"	1 ¼"
CGi-7	1 ¼"	1 ¼"
CGi-8	1 ½"	1 ½"

Note: Circulator flange supplied with boiler is same size as recommended piping above.

WARNING Install boiler such that —

- Chilled medium, if used, is piped in parallel with heating boiler. Use appropriate valves to prevent chilled medium from entering boiler. Consult I=B=R Installation and Piping Guides.
- If boiler is connected to heating coils located in air handling units where they can be exposed to refrigerated air, use flow control valves or other automatic means to prevent gravity circulation during cooling cycle. Circulation of cold water through the boiler could result in damage to the heat exchanger, causing possible severe personal injury, death or substantial property damage.

MultiSpec ▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼

Heating and Air Conditioning – The Comfort Specialists
230 Saco Rd. • Hollis, Maine • 04042•
Telephone: 207-727-5111 / 1-800-625-1979 / Fax: 207-727-5241
email: hmulter@multispecinc.com

9/18/2005

Mariners Rowe
29, 27, 25 Tyng St.
Portland, ME.

Heating Specs

Each Unit

Weil McLain CGI 3 natural gas fired boiler with Weil Mclain Plus 80 Indirect water heater. Boiler will be side wall vented out the back side of each unit with stainless steel safety vent. Each unit will have 3 heating zones one for each floor.

Cost: $ 9950.00 per unit Total $29,851.00

MultiSpec ▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼
Heating and Air Conditioning – The Comfort Specialists
230 Saco Rd., Hollis, ME. 04042 1-800-625-1979 / 727-5111

PROPOSAL

PROPOSAL SUBMITTED TO Fresh Fish LLC		PHONE 773-4773	DATE 4/16/2005
STREET 377 Cumberland Ave.		JOB NAME Air conditioning	
CITY, STATE, AND ZIP Portland, ME. 04101		JOB LOCATION 25-29 Tyng St.	
ARCHITECT Not Applicable	DATE OF PLANS Not Applicable		JOB PHONE Not Applicable

We, MultiSpec Inc., hereby submit specifications and estimate for:
Installation of air conditioning. We will install a Lennox HS29-024 condensing unit connected to a CB29M-31 air handler to cool the second and third floors. We will install a Lennox HS29-018 condensing unit connected to a CB29M-21/26 in the basement with duct work to cool the first floor. Installation of Included is all labor and materials as discussed and a one year manufacturers parts and labor warrantee.

We Propose hereby to furnish material and labor – complete in accordance with the above specifications, for the sum of:
Dollars: 32,162.00

Payment to be made as follows: Terms: 1/3 upon acceptance, balance due upon completion of installation

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above 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 Workmen's Compensation insurance

Authorized Signature

_____.

NOTE: This proposal may be withdrawn by us if not accepted within 30 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 outlines above.

Date of Acceptance:

Signature:
_____.

Signature:
_____.

MultiSpec ▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼

Heating and Air Conditioning – The Comfort Specialists

230 Saco Rd., Hollis, ME. 04042 1-800-625-1979 / 727-5111

PROPOSAL

PROPOSAL SUBMITTED TO Fresh Fish LLC		PHONE 773-4773	DATE 4/16/2005
STREET 377 Cumberland Ave.		JOB NAME Heating system	
CITY, STATE, AND ZIP Portland, ME. 04101		JOB LOCATION 25-29 Tyng St.	
ARCHITECT Not Applicable	DATE OF PLANS Not Applicable		JOB PHONE Not Applicable

We, MultiSpec Inc., hereby submit specifications and estimate for:

Installation of a three zone heating system in each of the three units. The system will have a Weil Mclain direct vent natural gas fired boiler model CGI-3. We will have a Weil Mclain 80 Plus water heater 56 gallon water heater. The boiler will be direct vented out the side wall of the building. There will be one heating zone for each of the three floors. Included is all labor and materials as discussed and a one year manufacturers parts and labor warrantee.

Boiler : Weil Mclain CGi 3 natural gas fired
Domestic Hot Water: Weil Mclain Plus 80, 56 gallon indirect water heater
Baseboard: Approximately 73 feet of Kompak baseboard radiation
Boiler Trim: Pressure reducing valve, relief valves, extrol tank, zone valves, circulators, relays and digital thermostats

We Propose hereby to furnish material and labor – complete in accordance with the above specifications, for the sum of:
Dollars: 29851.00

Payment to be made as follows: Terms: 1/3 upon acceptance, balance due upon completion of installation

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above 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 Workmen's Compensation insurance

Authorized Signature

_____.

NOTE: This proposal may be withdrawn by us if not accepted within 30 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 outlines above.

Date of Acceptance:

Signature:

_____.

Signature:

_____.

MultiSpec ▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼
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CITY, STATE, AND ZIP Portland, ME. 04101		JOB LOCATION 25-29 Tyng St.	
ARCHITECT Not Applicable	DATE OF PLANS Not Applicable		JOB PHONE Not Applicable

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Authorized Signature

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NOTE: This proposal may be withdrawn by us if not accepted within 30 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 outlines above.

Date of Acceptance:

Signature:
_____.

Signature:
_____.