

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



# CITY OF PORTLAND

# BUILDING PERMIT

This is to certify that 164 REALTY, LLC – WHITE CAP GRILL

Located At 164 MIDDLE ST

Job ID: 2012-01-3000-ALTCOMM

CBL: 029- O-002-001

has permission to Replace existing type 1 hoods with new, tie in new duct to code, including air intake. No new exterior work 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 closed-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

\_\_\_\_\_  
Fire Prevention Officer

 1/24/12  
\_\_\_\_\_  
Code Enforcement Officer / Plan Reviewer

**THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY  
PENALTY FOR REMOVING THIS CARD**

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

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

Job No: 2012-01-3000-ALTCOMM	Date Applied: 12/22/2011	CBL: 029- O-002-001	
Location of Construction: 164 MIDDLE ST	Owner Name: 164 Realty, LLC – Michael Mastronardi	Owner Address: PO BOX 800 - YARMOUTH, ME 04096	Phone: 846-4800
Business Name: was Sebago Brewery <i>white cap Grill?</i>	Contractor Name: Dan Bourgoin – Bourgoin & Sons LLC	Contractor Address: 123 Davis RD DURHAM MAINE 04222	Phone: (207) 749-1878
Lessee/Buyer's Name:	Phone:	Permit Type: BLDG - HOOD	Zone: B-3
Past Use: Restaurant	Proposed Use: Same: Restaurant – to replace existing hoods with new stainless hoods and a make-up air box – new duct work	Cost of Work: \$23'000.00	CEO District:
		Fire Dept: <input checked="" type="checkbox"/> Approved w/conditions <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: A-2 Type: TYPE 2 Hood
Proposed Project Description: replacing existing hoods		Signature: <i>[Signature]</i> per TMM Pedestrian Activities District (P.A.D.)	
Permit Taken By: Gayle		Zoning Approval	

<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building Permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False informatin may invalidate a building permit and stop all work.</p>	<p><b>Special Zone or Reviews</b></p> <p><input type="checkbox"/> Shoreland</p> <p><input type="checkbox"/> Wetlands</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input type="checkbox"/> Site Plan</p> <p>— Maj — Min — MM</p> <p>Date: <i>1/3/12</i></p>	<p><b>Zoning Appeal</b></p> <p><input type="checkbox"/> Variance</p> <p><input type="checkbox"/> Miscellaneous</p> <p><input type="checkbox"/> Conditional Use</p> <p><input type="checkbox"/> Interpretation</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Denied</p> <p>Date: <i>[Signature]</i></p>	<p><b>Historic Preservation</b></p> <p><i>within</i></p> <p><input type="checkbox"/> Not in Dist or Landmark</p> <p><input type="checkbox"/> Does not Require Review</p> <p><input type="checkbox"/> Requires Review</p> <p><input checked="" type="checkbox"/> Approved</p> <p><input checked="" type="checkbox"/> Approved w/Conditions</p> <p><input type="checkbox"/> Denied</p> <p>Date: <i>1/24/12</i></p> <p><i>D. Andrews</i></p>
	<p><b>CERTIFICATION</b></p>		

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 appication 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

## BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (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.**

Close In Elec/Plmb/Frame prior to insulate or gyp

Final Inspection

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.



# PORTLAND MAINE

*Strengthening a Remarkable City, Building a Community for Life* • [www.portlandmaine.gov](http://www.portlandmaine.gov)

Director of Planning and Urban Development  
Penny St. Louis

Job ID: 2012-01-3000-ALTCOMM

Located At: 164 MIDDLE ST

CBL: 029- O-002-001

## **Conditions of Approval:**

### **Zoning**

1. Separate permits shall be required for any new signage.
2. ANY exterior work requires a separate review and approval thru Historic Preservation. This property is located within an Historic District.
3. This property shall remain a restaurant use. Any change of use shall require a separate permit application for review and approval.
4. This B-3 zone has maximum noise allowances. The City of Portland strictly enforces the level of sound generated on the property. Any verified noise violations shall require the owner to take mitigating measures to bring the property and the noise it generates into compliance.

### **Historic**

1. Approved with the understanding there will be no change to the exterior ductwork and venting. If any changes are required, applicant must seek historic preservation approval.

### **Building**

1. Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.
2. All penetrations through rated assemblies must be protected by an approved firestop system installed in accordance with ASTM E 814 or UL 1479, per IBC 2009 Section 713.
3. The hood, duct and exhaust shall be installed per NFPA 96. This permit is approved based on the plans submitted and/or updated for reductions in the clearances based on the application of a UL approved fire wrap or equivalent assembly per code.
4. Separate permits are required for any electrical, plumbing, sprinkler, fire alarm, HVAC systems, heating appliances, including pellet/wood stoves, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.

### **Fire**

1. This permit is being approved on the basis of the plans submitted. Any deviation from the plans would require amendments and approval.
2. Install shall comply with all manufacture's specifications.
3. Install shall comply with NFPA 96. A compliance letter is required.
4. Installation shall comply with City Code Chapter 10



# CITY OF PORTLAND, MAINE

Department of Building Inspections

## Original Receipt

14-02 20 11

Received from Boussin Sols

Location of Work 67 Auburn 167 Mill St

375-A 3

902

Cost of Construction \$ \_\_\_\_\_ Building Fee: \_\_\_\_\_

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

Certificate of Occupancy Fee: \_\_\_\_\_

Total: \_\_\_\_\_

Building (IL) \_\_\_\_\_ Plumbing (I5) \_\_\_\_\_ Electrical (I2) \_\_\_\_\_ Site Plan (U2) \_\_\_\_\_

Other \_\_\_\_\_

270 + 70

CBL: 1702

Check #: \_\_\_\_\_ Total Collected \$ 320

**No work is to be started until permit issued.  
Please keep original receipt for your records.**

Taken by: P. J.

WHITE - Applicant's Copy  
YELLOW - Office Copy  
PINK - Permit Copy



# General Building Permit Application

2012 01 3000

60  
Taken by  
Janice

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: 164 MIDDLE ST. PORTLAND			B-3
Total Square Footage of Proposed Structure 29-0-2		Square Footage of Lot Historic	
Tax Assessor's Chart, Block & Lot Chart# Block# Lot# 005 002 000	Owner: 164 REALTY, LLC	Telephone: 207. 846-4800	
Lessee/Buyer's Name (If Applicable)	Applicant name, address & telephone: MICHAEL MASTRONARDI PO BOX 800 YARMOOUTH, ME 04096 207-846-4800	Cost Of Work: \$ 22,800.00	Fee: \$ C of O Fee: \$ 250
Current legal use (i.e. single family) Restaurant in USES			
If vacant, what was the previous use? _____			
Proposed Specific use: _____			
Is property part of a subdivision? _____ If yes, please name _____			
Project description: Replace existing Hoods with New Stainless Hoods and make Air Box in front of Hood. Remove Hoz. duct replace with new duct work. Add bring main duct stack up to meet NFPA #96			
Contractor's name, address & telephone: Dan Bourgoin Bourgoin + Sons LLC			
Who should we contact when the permit is ready: Dan Bourgoin			
Mailing address: 123 Davis rd Durham Me. 04202		Phone: 749-1878	

Please submit all of the information outlined in the Commercial Application Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at [www.portlandmaine.gov](http://www.portlandmaine.gov), or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature of applicant: [Signature] Date: 12/21/11

This is not a permit; you may not commence ANY work until the permit is issued.

RECEIVED  
DEC 22 2011  
Dept. of Building Inspections  
City of Portland Maine

RECEIVED  
DEC 22  
Dept. of Building Inspections  
City of Portland Maine



# PORTLAND MAINE

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White Cap Grill

Lee Urban - Director of Planning and Development  
Jeanie Bourke - Inspection Division Services Director

## Kitchen Exhaust System Checklist and code Provisions

Dear Applicant,

The following is a checklist to assist you in filing for a permit for a Kitchen Exhaust system. The applicable Mechanical Code provisions have also been attached. Please complete this and submit job specific construction documents that demonstrate compliance with the attached information.

### Type of System:

Type I X Type II \_\_\_\_\_

Type I systems are systems that vent fryers, grills, broilers, ovens or woks.

Type II systems are systems that vent steamers and other non grease producing appliances.

### Type of Materials:

Is the hood Stainless steel or other type of steel? stainless steel If Other, what Type? \_\_\_\_\_

Is the duct work Stainless steel or other type of steel? 16ga galv steel If Other, what type? \_\_\_\_\_

Thickness of the steel for the hood 16ga stainless steel

Thickness of the duct for the hood 16ga galv steel

Type of Hood and Duct Supports

Canty Hood 3/8 Thread rod into floor truss's

Type of seams and Joints solid weld

Grease Gutters provided? N/A

Hood Clearance reduction to Combustibles design /specs:

Install 1" stainless steel, galv backings with 1" Air space

Duct Clearance reduction to Combustibles design /specs:

Duct to be wrap in 3m grease duct wrap

Vibration Isolation System:

N/A

Air Velocity within the duct system \_\_\_\_\_

Grease accumulation prevention system:

Grease cups at Hood

Cleanouts in 90° elbows and in every 10' straight.

Grease Duct enclosure 3m grease duct wrap

Exhaust Termination Roof X Wall \_\_\_\_\_

Fire Suppression System done by other (Fire safe)

Exhaust fan mounting and clearance from the roof / wall or Combustibles:

18" off roof 10' from Combustibles

Exhaust fan distance from property lines 10'

Exhaust fan distance from other vents or openings 10'

Exhaust fan distance from adjacent buildings 10'

Exhaust fan height above adjoining grade 30'

### Hood Specs

Style of Hood Canopy

Type of Filter Grease baffle's

Height of filter above nearest cooking surface 36"

Capacity of hood CFM 5439 CFM AT .726 sp.

Make up Air system description and capacity

make up air fan exciting and sit on roof. Bring in

4351 AT .1 SP.



# ROXUL

## The Better Insulation

Wall Insulation use

### Technical Product Information

### BOARD INSULATION 07210

### RHT 80

### Architectural/OEM

#### General Product Information:

ROXUL products are mineral wool fibre insulations made from basalt rock and steel slag. This combination results in a non-combustible product with a melting point of approximately 2150°F (1177°C), which gives it excellent fire resistance properties. ROXUL mineral wool is a water repellent yet vapour permeable material. It absorbs water only when water is pressed or forced into the material and once the pressure is relieved, the water will evaporate without any loss of integrity to the material's shape or insulating properties.

#### Description & Common Applications:

The RHT 80 product is a non-combustible, rigid mineral wool insulation board that is water repellent and delivers exceptional life cycle performance and value in a diversity of thermal, acoustic and fire protection applications. RHT 80's excellent moisture resistance, non-combustibility and dimensional stability make it the ideal choice for curtain wall applications. The product can be specified with confidence in a variety of building envelope designs, parking garages, acoustic and OEM applications.

All ROXUL products are certified to carry the Environmental Choice logo.



#### Compliance and Performance

ASTM C 612 CAN/CGSB 51.10-92 SA Approval	Mineral Fiber Block and Board Thermal Insulation Mineral Fibre Board Thermal Insulation New York City Approval	Type IV, Complies Type 1, Class 4 332-97-M
<b>Fire Performance</b> ASTM E 136 CAN4 S114 UL 723 (ASTM E 84) CAN/ULC S102	Behaviour of Materials at 50°C (1382°F) Test for Non-Combustibility Surface Burning Characteristics Surface Burning Characteristics	Non-Combustible Non-Combustible Flame Spread = 0 Smoke Developed = 0 Flame Spread = 0 Smoke Developed = 0
<b>Maximum Service Temperature</b> ASTM C 411	Hot Surface Performance	No Reaction @ 1200°F (650°C)
<b>Dimensional Stability</b> ASTM C 356	Linear Shrinkage	1.24% @ 1200°F (650°C)
<b>Moisture Resistance</b> ASTM C 1104	Moisture Sorption	0.04%
<b>Corrosion Resistance</b> ASTM C 665 ASTM C 795 ASTM C 871	Corrosiveness to Steel For use with Austenitic Stainless Steel Chemical Analysis	Passed No Reaction Passed
<b>Thermal Resistance</b> ASTM C 518 (C 177)	R-value @ 75°F (24°C) k-value @ 75°F (24°C)	4.2/inch 0.24 Btu.in/ft <sup>2</sup> .hr.°F

Supersedes: 11 January 1999  
Revised: 23 April 1999

# Duct wrap

## 1. Product Description

3M™ Fire Barrier Duct Wrap 15A is a fire resistant wrap consisting of a patented inorganic blanket encapsulated with a scrim-reinforced foil. It is used to fire rate commercial kitchen grease ducts and is a proven alternative to 1 or 2 hour fire resistant rated shaft enclosures. This non-asbestos wrap contains a safer fiber construction\* and installs easily because of its high flexibility and strength. 3M Fire Barrier Duct Wrap 15A is the thinnest standard, single layer fire resistant wrap that has passed the UL1978 test which simulates a grease duct fire. With its excellent insulating capabilities, it is an ideal choice for tight spaces because it protects combustible constructions at zero clearance to the overlap or collar. 3M Fire Barrier 1000 N/S, 1003 S/L and 2000+ Silicone Sealants used in combination 3M Fire Barrier Duct Wrap 15A provide an effective firestop when the duct penetrates fire rated walls and floors.

### Features

- Thinnest, standard one layer wrap for grease ducts rated as a shaft alternative per UL 1978
- Zero clearance to the overlap or collar for congested spaces
- High flexibility for installation ease
- Foil encapsulated with unique center overlap seam for blanket protection, less dust, and high wrap strength
- Safer fiber construction\*

\*Has been demonstrated to be soluble in the lungs according to EU guidelines 67/548/EWG, Note Q for bio persistence.

## 2. Applications

3M Fire Barrier Duct Wrap 15A is an ideal fire resistive enclosure for commercial kitchen grease ducts. It is a proven performance alternative to a 1 or 2 hour fire resistant rated shaft enclosures and provides zero clearance to combustible construction at overlap or collar. 3M Fire Barrier 1000 N/S, 1003 S/L or 2000+ Silicone Sealant is used in combination with 3M Fire Barrier Duct Wrap 15A to firestop the duct when the duct penetrates fire rated floors and walls.

## 3. Availability

Product	Unit	Size	Units/ctn.	Wt./ctn.
3M Fire Barrier Duct Wrap 15A	Roll	1.5 in. x 24 in. x 20 ft. (38mm x 60.9cm x 6093 cm)	1	53 lbs. 24 kg
3M Fire Barrier Duct Wrap 15A	Roll	1.5 in. x 48 in. x 20 ft. (38mm x 121 cm x 6093 cm)	1	106 lbs. 48 kg

## 4. Typical Physical Properties

Blanket Color: gray/green  
Weight: 1.38 lbs./sq. ft. (6.73 kg/sq. m)

## 5. Performance

3M Fire Barrier Duct Wrap 15A has been tested in accordance with the following:

- ASTM C 411
- ASTM C 51
- ASTM E 84
- ASTM E 119
- ASTM E 136
- ASTM E 814
- UL 1978 (Sections 12 & 13)

### Surface Burning Characteristics (ASTM E 84)

#### Foil Encapsulated Blanket:

Flame Spread: 0  
Smoke Developed: 0

#### Blanket:

Flame Spread: 0  
Smoke Developed: 0

### Thermal Conductivity

Temperature °F (°C)	btu-in./(hr.-ft²-F)
500 (260)	0.417
1000 (537)	0.922
1500 (815)	1.69
1800 (982)	2.27

For technical data and properties of 3M Fire Barrier 1000 N/S, 1003 S/L and 2000+ Silicone Sealants see separate product data sheets available from your 3M representative

### Grease Duct Listings

Fire Resistive Rating	Enclosure System	Omega Point Lab. Design Nos.	
		Duct System	Through-Penetration System
1 or 2 hours	1 layer of 3M Fire Barrier Duct Wrap 15A, 3 in. (76 mm) perimeter and longitudinal overlaps	GD 532 F	FS 557 W
		GD 538 F	FS 558 F
			FS 559 W
			FS 560 F
			FS 561 F
			FS 562 W
			FS 563 W
			FS 578 F
			FS 579 W

### Code Compliance

3M Fire Barrier Duct Wrap 15A complies with requirements of the following codes:

- NFPA 96, 1998 Edition
- Standard Mechanical Code
- International Mechanical Code
- Standard Building Code
- SBCCI Compliance Report 2132

This is only a partial list of code compliance. For the latest code and approval information go to [www.3m.com/firestop](http://www.3m.com/firestop) or speak to your authorized 3M distributor or sales representative at (800) 328-1687.

# Access Doors— High Temp

Access Doors For Round and Flat Duct Work

## Specifications

- Tested to 20" w.g., with no leakage noted.
- Available in 10x6 and 16x12.
- Metal Thickness: 10x06 16 ga. Black iron
- 16x12 16 ga. Black iron
- Ceramic fiber rope (1,000° max) or ceramic fiber gasket (2,300°, Meets NFPA 96) ensures an air tight seal
- Zinc coated wing nuts are easily turned by hand
- Self adhesive template is provided for easy installation.
- Zinc coated conical springs installed between the inner and outer door.

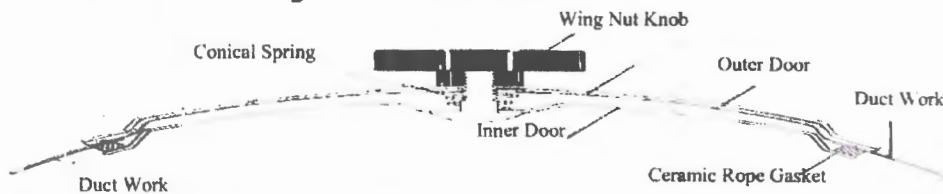


## Packaging

- Access Doors are sold as single units.

## Profile

- Available sizes: 10x06 Flat  
16x12 Flat  
10x06x 6" through 30"  
16x12x 18" through 60"



## Installation Instructions

1. Adhere self adhesive template to ductwork.
2. Using a pair of sheet metal snips, cut out the template.
3. Unscrew knobs of door and insert into the opening
4. Tighten knobs.

**C.L. WARD**  
& FAMILY INC.



888.973.7600  
www.clward.com

**HOOD INFORMATION**

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM RISER(S)					SUPPLY PLENUM RISER(S)					HOOD CONSTRUCTION	HOOD CONFIG.	
					TOTAL EXH. CFM	WIDTH	LENG.	DIA.	CFM	S.P.	TOTAL SUP. CFM	WIDTH	LENG.	DIA.		CFM	S.P.
1	Left	4812 SND-2-PSP-F	9' 0.00'	600 Deg.	2646		16'	2646	-0.726'	1832					430 SS 100%	LEFT	ALONE
2	Right	4812 SND-2-PSP-F	9' 6.00'	600 Deg.	2793		16'	2793	-0.809'	1935					430 SS 100%	RIGHT	ALONE

**HOOD INFORMATION**

HOOD NO.	FILTER(S)				LIGHT(S)			UTILITY CABINET(S)						FIRE SYSTEM PIPING	HOOD HANGING WGT
	TYPE	QTY.	HEIGHT	LENGTH	QTY.	TYPE	WIRE GUARD	LOCATION	FIRE SYSTEM		ELECTRICAL	SWITCHES			
									TYPE	SIZE	MODEL #	QUANTITY	LOCATION		
1	SS Baffle with Handles	3	16"	16"	3	Screw In Compact Fluore	NO							NO	400 LBS
2	SS Baffle with Handles	2	16"	16"	3	Screw In Compact Fluore	NO							NO	412 LBS
		4	16"	20"											

**HOOD OPTIONS**

HOOD NO.	OPTION
1	LEFT QUARTER END PANEL 23' Top Width, 0' Bottom Width, 23' High 430 SS
2	RIGHT QUARTER END PANEL 23' Top Width, 0' Bottom Width, 23' High 430 SS

**PERFORATED SUPPLY PLENUM(S)**

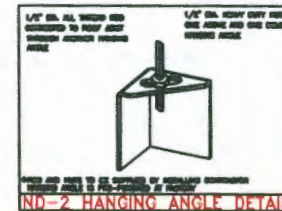
HOOD NO.	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
						WIDTH	LENG.	DIA.	CFM	S.P.
1	Front	108"	18"	6"	MJA	10"	28"		926	0.376'
									926	0.376'
2	Front	114"	18"	6"	MJA	10"	28"		977	0.415'
									977	0.415'

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH





Intertek NFA #96  
NSF STANDARDS  
UL 710 & ULC710 STANDARDS  
E.T.L. LISTED 3054804-001



CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

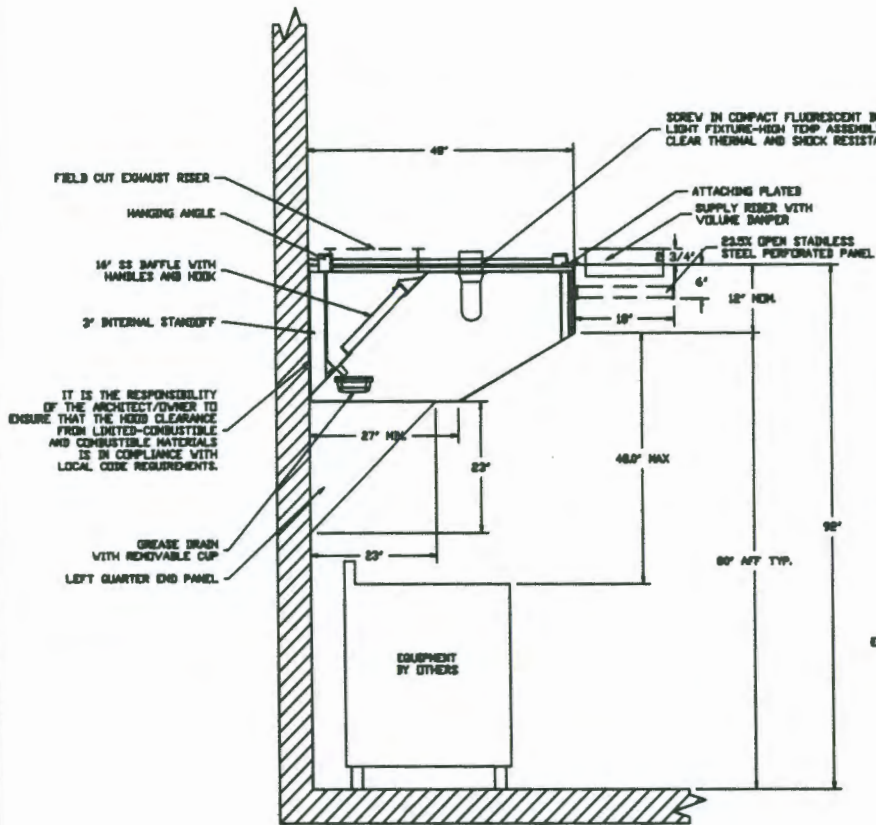
Revise and Resubmit

SIGNATURE \_\_\_\_\_

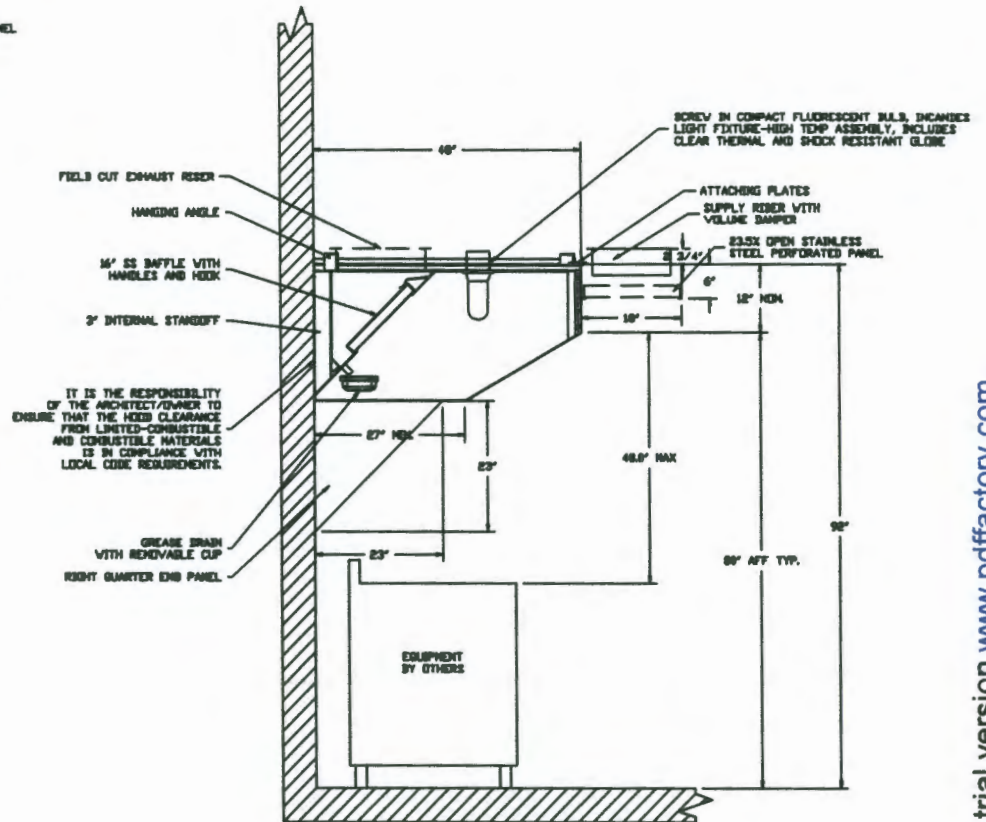
Your Title \_\_\_\_\_ Date \_\_\_\_\_



JOB	Portland #1438723
LOCATION	SCARBOROUGH, ME
DATE	12/20/2011
DWG #	1
REV.	
JOB #	1438723
DRAWN BY	BFC-21
SCALE	1/32



**SECTION VIEW - MODEL 4812SND-2-PSP-F  
HOOD - #1 (Left)**



**SECTION VIEW - MODEL 4812SND-2-PSP-F  
HOOD - #2 (Right)**

**CUSTOMER APPROVAL TO MANUFACTURE:**

Approved as Noted

Approved with NO Exception Taken

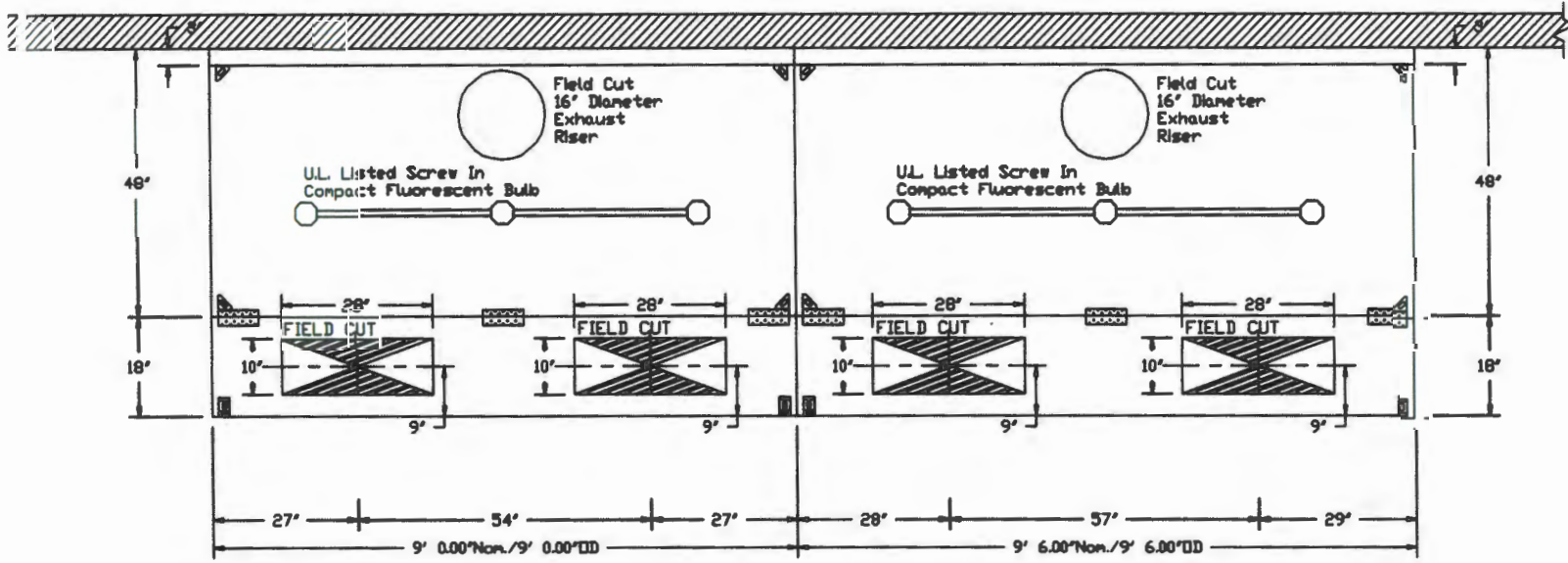
Revise and Resubmit

SIGNATURE \_\_\_\_\_

Your Title \_\_\_\_\_ Date \_\_\_\_\_

**CAPTIVE AIRE**

JOB Portland #1438723	
LOCATION SCARBOROUGH, ME	
DATE 12/20/2011	JOB # 1438723
DWG # 3	DRAWN BY BFC-21
REV.	SCALE 1/32



PLAIN VIEW - Hood #1 (Left)  
 9' 0.00" LONG 4812SND-2-PSP-F

PLAIN VIEW - Hood #2 (Right)  
 9' 6.00" LONG 4812SND-2-PSP-F

ENGINEER APPROVAL TO MANUFACTURE:

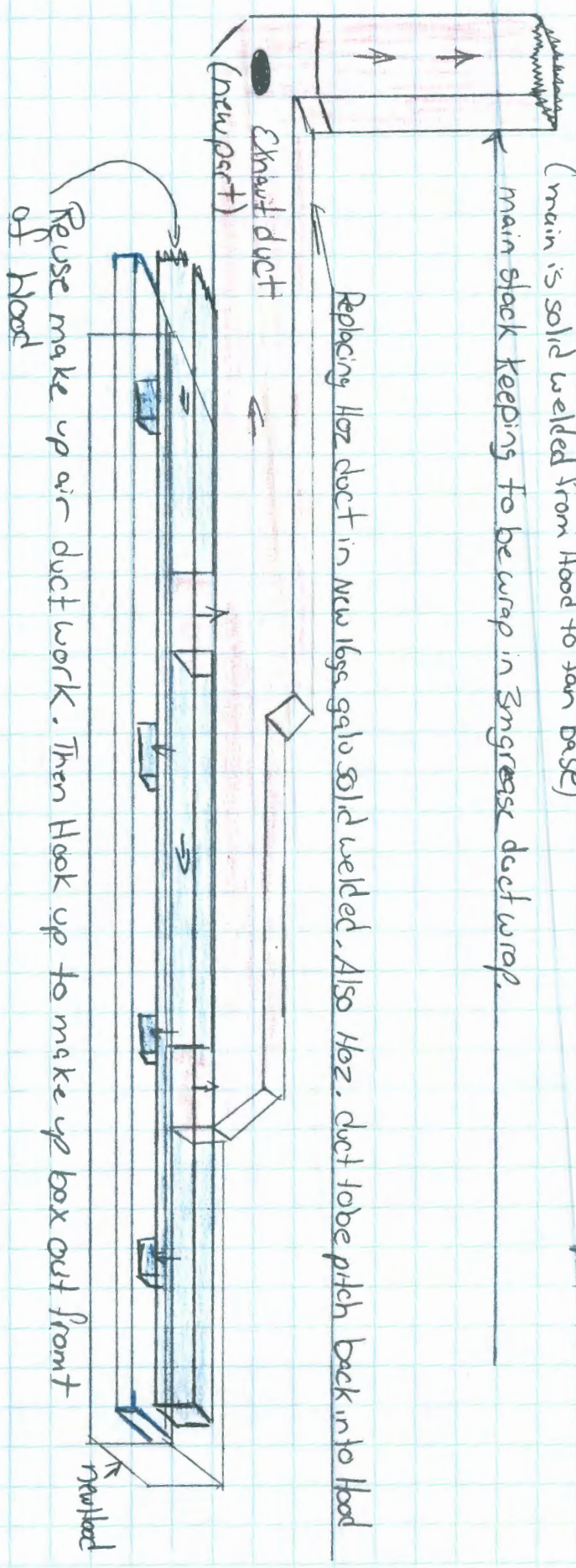
Noted	<input type="checkbox"/>
Exception Taken	<input type="checkbox"/>
As Issued	<input type="checkbox"/>
Date	_____

**CAPTIVE AIRE**

JOB	Portland #1438723
LOCATION	SCARBOROUGH, ME
DATE	12/20/2011
JOB #	1438723
DWG #	2
DRAWN BY	BFC-21
REV.	SCALE 1/32

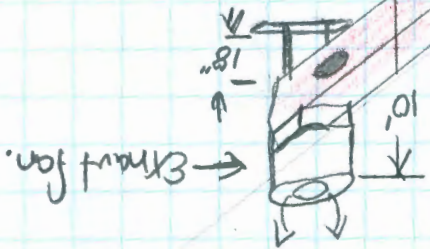
Duct to be Replace

(main is solid welded from Hood to fan base)  
main stack keeping to be wrap in Ingersoll duct wrap.



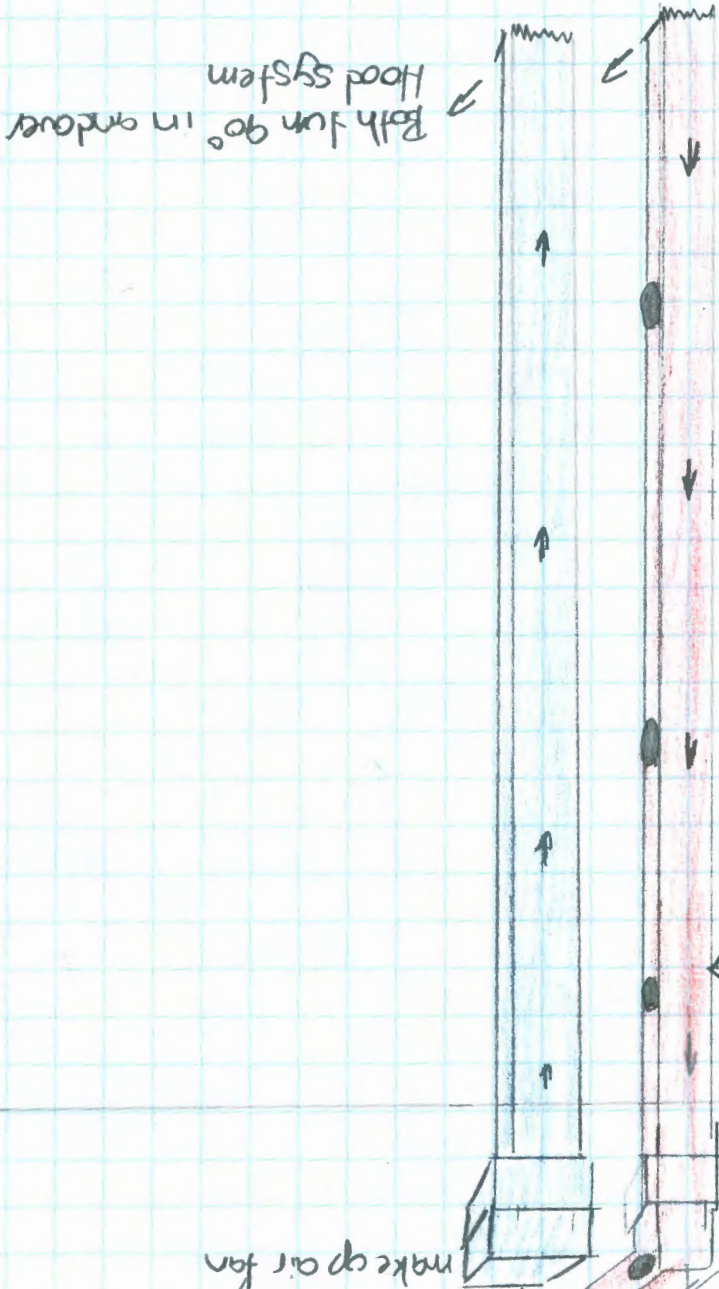
Bourgoin + Sons LLC  
Dan Bourgoin  
749 1878

(main stack Receiving)



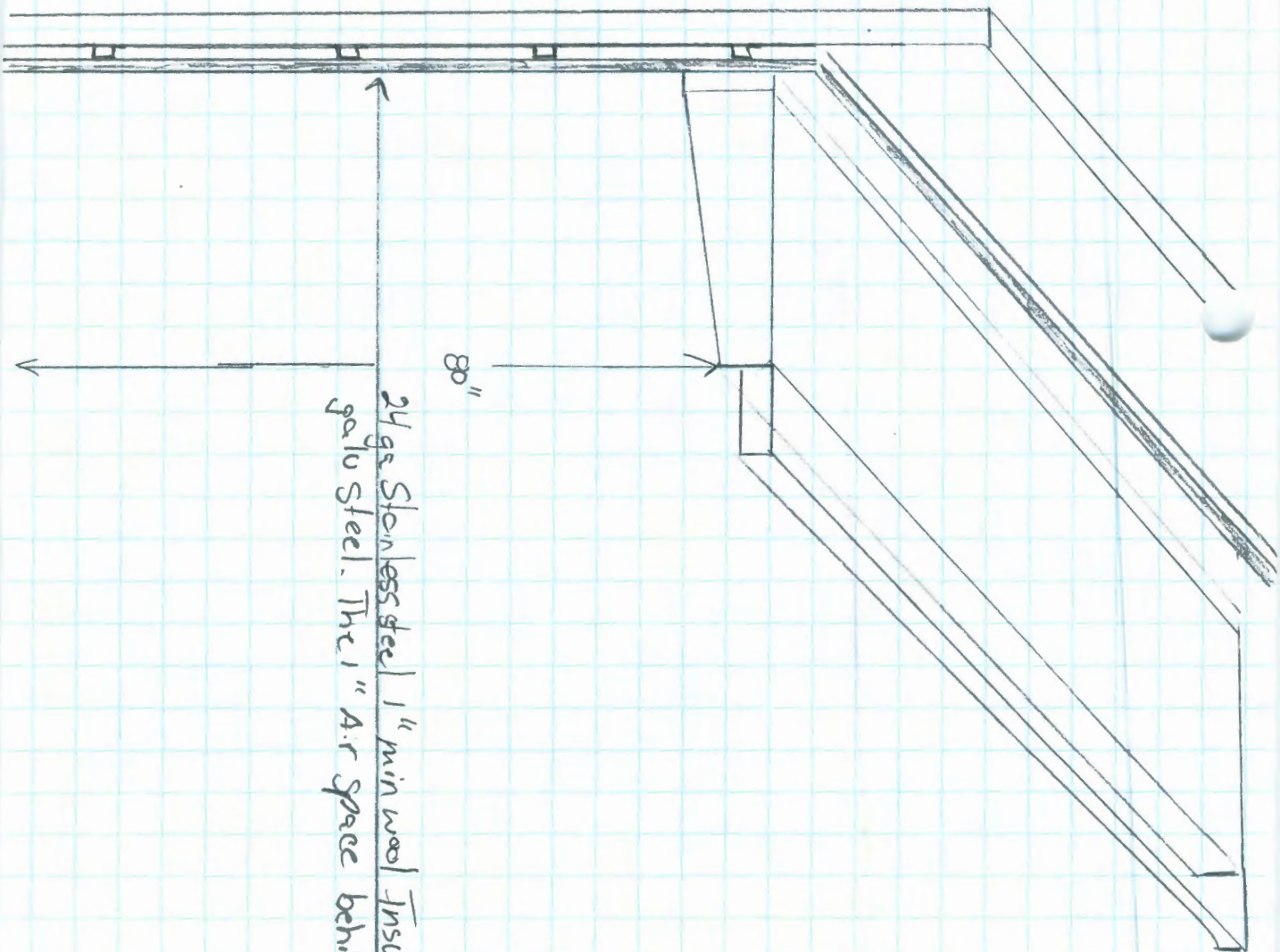
make up air fan

grease duct stack Reuse duct  
Adding clean out doors. Also  
wrap in duct stack with 3m  
grease duct wrap from  
hood up through roof





(wall)



24 ga Stainless steel 1" min wool Insulation 24 ga galv Steel. The 1" Air Space behind panel

80"