DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

BUILDING PERMIT

This is to certify that RALPH W LAMB – OTTOS PIZZA Located At 108 CUMBERLAND AVE

Job ID: 2011-09-2320-ALTCOMM CBL: 013- M-001-001

has permission to Kitchen Hood Type 1, no suppression
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

12/21/11

Fire Prevention Officer Code Enforcement Officer / Plan Reviewer

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

PORTLAND MAINE

Strengthening a Remarkable City, Building a Community for Life • *www.portlandmaine.gov*

Director of Planning and Urban Development
Penny St. Louis

Job ID: 2011-09-2320-ALTCOMM **Located At:** 108 CUMBERLAND AVE **CBL:** 013- M-001-001

Conditions of Approval:

Fire

1. Amending the permit to allow a Type 2 Heat Collection Hood.
2. Installation shall comply with City Code Chapter 10.
3. All construction shall comply with City Code Chapter 10.
4. A single source supplier should be used for all through penetrations.
5. Install shall comply with NFPA 96. A compliance letter is required.
6. Install shall comply with all manufacture's specifications.
7. Installation shall comply with NFPA 211, *Standard for Chimneys, Fireplaces, Vents, and Solid Fuel–Burning Appliances*;
8. NFPA 54, *National Fuel Gas Code*;
9. NFPA 90A, *Standard for the Installation of Air-Conditioning and Ventilating Systems*;
10. NFPA 91, *Standard for Exhaust Systems for Air Conveying Vapors, Gases, Mists, and Noncombustible Particulate Solids*;
11. NFPA 70, *National Electrical Code*; and the manufacturer's published instructions.

Building

1. This permit approves installation of a type 1 kitchen hood and exhaust system, minus the suppression system. It was not required to be type 1, but will meet these standards.
2. The hood, duct and exhaust shall be installed per NFPA 96. This permit is approved based on the plans submitted for reductions in the clearances based on the application of a UL approved fire wrap or equivalent assembly per code.
3. 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.
4. The equipment, appliance and venting shall be installed in compliance with the manufacturer's specifications and the UL listing.

CITY OF PORTLAND, MAINE
Department of Building Inspections

Original Receipt

11 · 20 11

Received from

Location of Work

Cost of Construction $_____ Building Fee:_____

Permit Fee $_____ Site Fee: _____

Certificate of Occupancy Fee: _____

Total: _____

Building (IL) ___ Plumbing (I5) ___ Electrical (I2) ___ Site Plan (U2) ___

Other _____

CBL: _____

Check #: _____ **Total Collected $**_____

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

Taken by: _____

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

General Building Permit Application

2011-12912

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: 110 Cumberland Ave AKA 108		
Total Square Footage of Proposed Structure	Square Footage of Lot	
Tax Assessor's Chart, Block & Lot Chart# Block# Lot# 13-M-~~3~~ 8 1	Owner: Donna Lamb 417 Falmouth rd Falmouth, me 04105	Telephone:
Lessee/Buyer's Name (If Applicable)	Applicant name, address & telephone: Bourgoin T Sons LLC Dan Bourgoin 123 Davis rd Durham me. 04222 749 1878	Cost Of Work: $ 12810.00 Fee: $ ~~C of O~~ Fee: $ 50

Current legal use (i.e. single family) _____

If vacant, what was the previous use? _____

Proposed Specific use: _____

Is property part of a subdivision? _____ If yes, please name _____

Project description:
Install Type #1 grease kitchen Hood system

Contractor's name, address & telephone: Bourgoin T Sons LLC 123 Davis rd Durhamme 04222
749-1878

Who should we contact when the permit is ready: 123 Davis rd Durham me 04222

Mailing address: 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, 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: _____ Date: 11/6/11

RECEIVED
NOV 7 2011
Dept. of Building Inspections
City of Portland Maine

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

PORTLAND MAINE

Strengthening a Remarkable City, Building a Community for Life • www.portlandmaine.gov

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? 16 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

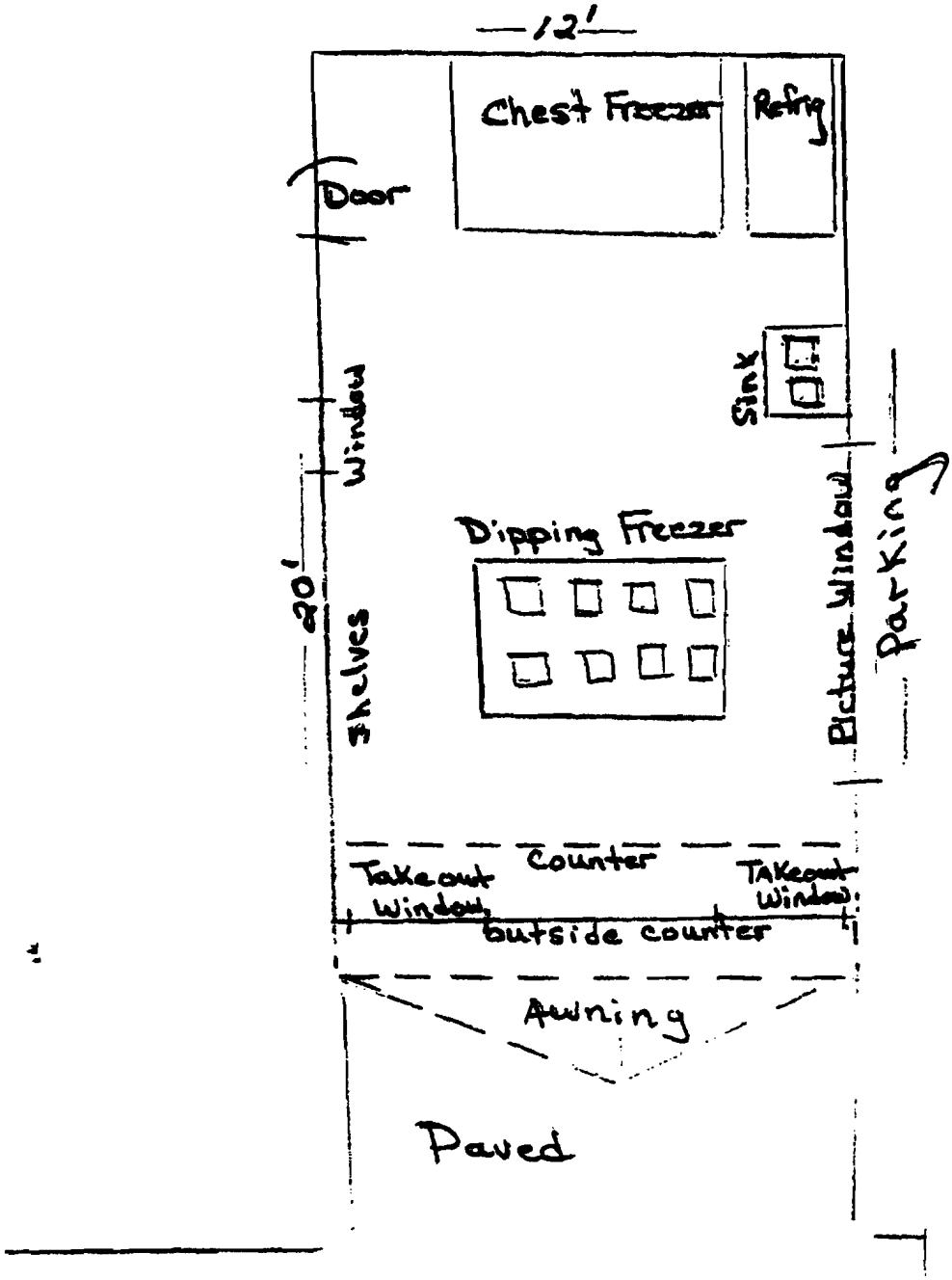
Thickness of the duct for the hood 16ga galv steel

Type of Hood and Duct Supports

Canopie Grease Hood, Duct welded to hood on sit on curb plate.

Type of seams and Joints Solid welded from Hood to fan

• Not to Scale


12'
Chest Freezer
Refrig
Door
Sink
Window
Dipping Freezer
20'
Shelves
Picture Window
Parking
Counter
Takeout Window
Takeout Window
Outside counter
Awning
Paved
Cumberland Ave Sidewalk
Driveway

FILE NUMBER: 16020

ATTORNEY: THOMAS F. JEWELL, ESQ.

TITLE COMPANY: NOT APPLICABLE

LENDER: NOT APPLICABLE OR NOT AVAILABLE

OWNER: RALPH & DONNA LAMB

APPLICANT: RALPH & DONNA LAMB

DATE: 01/02/98 SCALE: 1"=30'

FLOOD HAZARD INFORMATION

FLOOD MAP COMMUNITY NO.: 230051 ZONE: C

PANEL: 0014 B DATED: 07/15/92

TITLE REFERENCE

DEED BOOK: 1192 PAGE: 287

PLAN BOOK: N/A PAGE: N/A LOT(S): N/A

PLAN NUMBER: N/A OF N/A

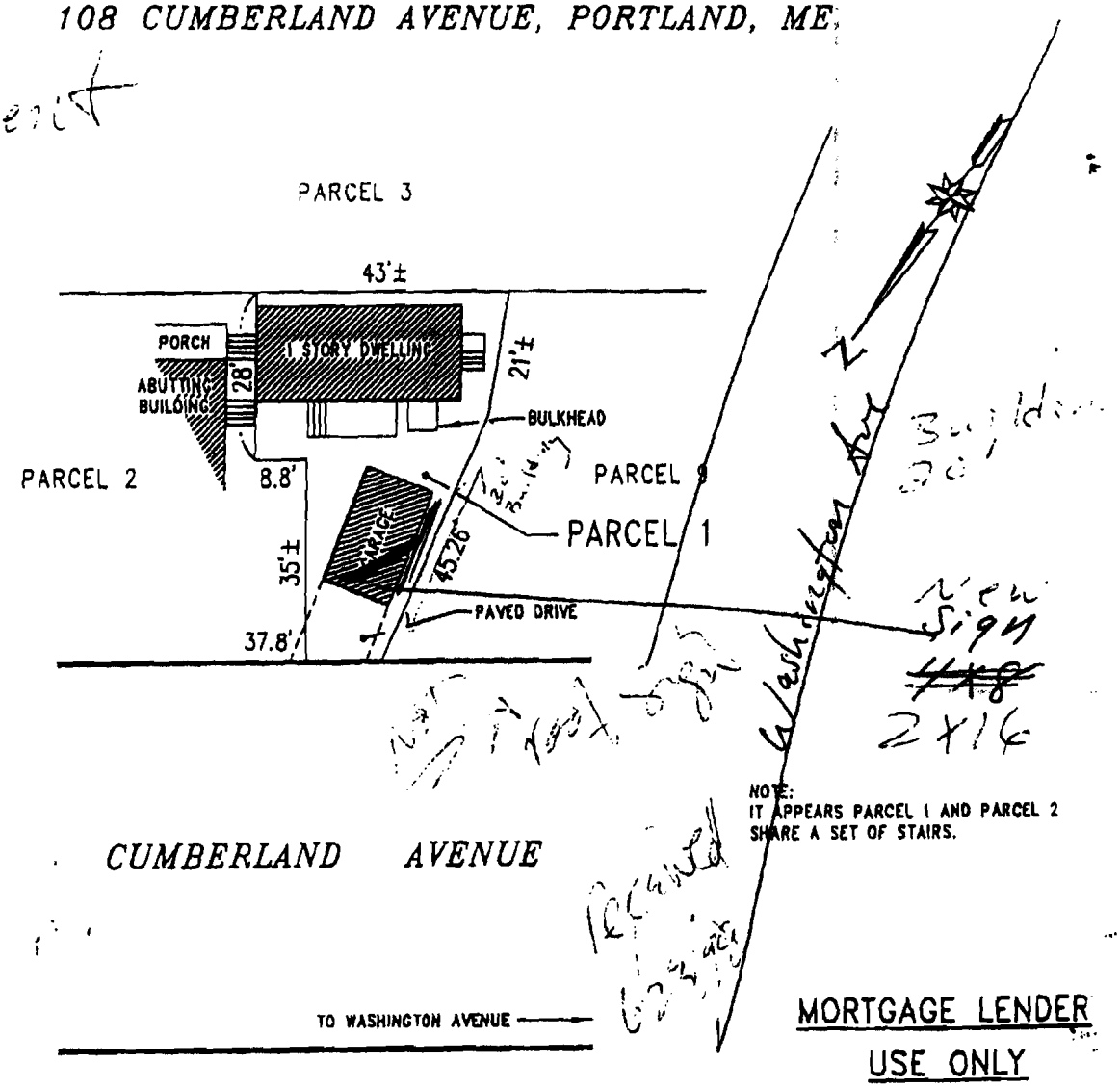
ASSESSORS MAP

MAP: 13 BLOCK: M PARCEL: 001

MORTGAGE INSPECTION PLAN

108 CUMBERLAND AVENUE, PORTLAND, ME

Amendment



MORTGAGE LENDER USE ONLY

THIS IS NOT A BOUNDARY SURVEY.

THIS IS THE RESULT OF TAPE MEASUREMENT, NOT THE RESULT OF AN INSTRUMENT SURVEY AND IS CERTIFIED TO THE TITLE INSURANCE COMPANY AND ABOVE LISTED ATTORNEY AND LENDER.

THERE ARE NO DEEDED EASEMENTS IN THE ABOVE REFERENCED DEED OR ENCROACHMENTS WITH RESPECT TO BUILDINGS SITUATED ON THIS LOT EXCEPT AS SHOWN.

DES LAURIERS & ASSOCIATES, INC.

PROFESSIONAL LAND SURVEYORS / GIS CONSULTANTS

30' 0 30' 60'

153 US ROUTE 1, SCARBOROUGH, ME 04074-9054

(800) 882-2227 PHONE (207) 883-1001 FAX

Grease Gutters provided? N/A

Hood Clearance reduction to Combustibles design /specs:

Install ~~Fastech~~ Insulation pannel behind Hood on on top of Hood

Duct Clearance reduction to Combustibles design /specs:

3m grease duct wrap zero to combustible

Vibration Isolation System:

N/A

Air Velocity within the duct system 1600. cfm . 45 static presurer

Grease accumulation prevention system:

Cleanouts N/A staight duct ~~loop~~ run.

Grease Duct enclosure 3m grease duct wrap

Exhaust Termination Roof X Wall _____

Fire Suppression System Done by other

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

18" from base of fan to roof and 40" off top on fan.

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 15'

Hood Specs

Style of Hood Canopie

Type of Filter Grease baffles

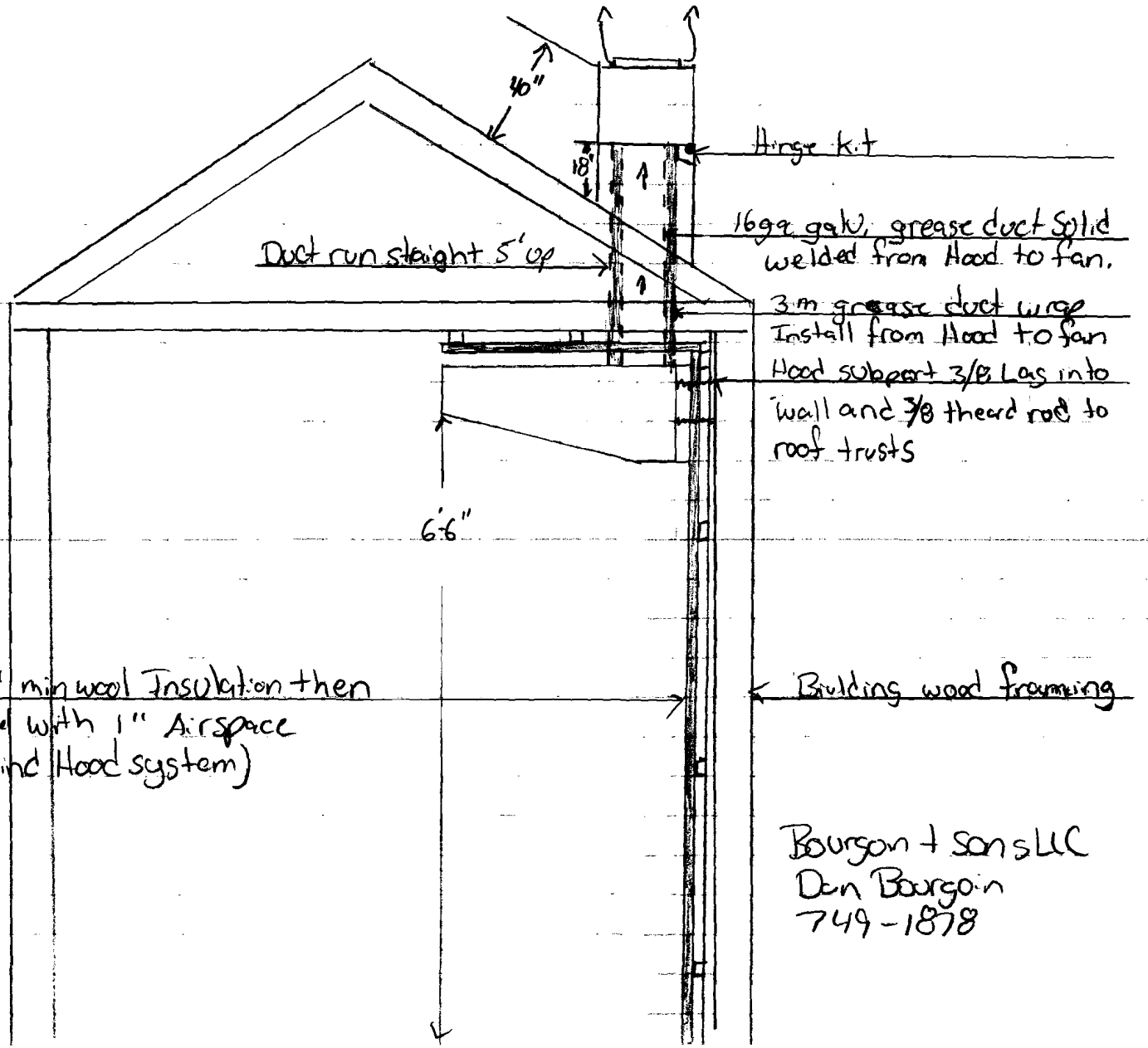
Height of filter above nearest cooking surface 36"

Capacity of hood CFM 1600 Cfm .45 static presurer

Make up Air system description and capacity

N/A Buiding has Adqqute window to open.

Job OTTIS



Bourgon + Sons LLC
Dan Bourgoin
749-1878

HOOD INFORMATION

HOOD NO.	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM						SUPPLY PLENUM						HOOD CONSTRUCTION	HOOD CONFIG.	
				TOTAL EXH. CFM	PER DUCT					TOTAL SUP. CFM	PER DUCT						END TO END	ROW
					WIDTH	LENG.	DIA.	CFM	S.P.		WIDTH	LENG.	DIA.	CFM	S.P.			
1	4212 SND-2	8' 0.00"	450 Deg.	1600			14"	1600	-0.367"	0						430 SS 100%	ALONE	ALONE

HOOD INFORMATION

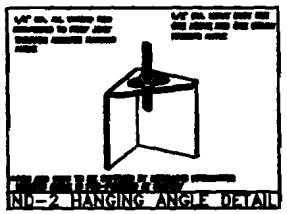
HOOD NO.	FILTERED				LIGHTED			UTILITY CARRIED							FIRE SYSTEM PIPING	HOOD HANGING WGHT
	TYPE	QTY.	HEIGHT	LENGTH	QTY.	TYPE	VAPE GUARD	LOCATION	FIRE SYSTEM		ELECTRICAL	SWITCHES				
									TYPE	SIZE	MODEL #	QUANTITY	LOCATION			
1	Alum Baffle w/ Handles	1	16"	16"	3	Screw In Compact Fluore	NO								NO	864 LBS
		4	16"	20"												

HOOD OPTIONS

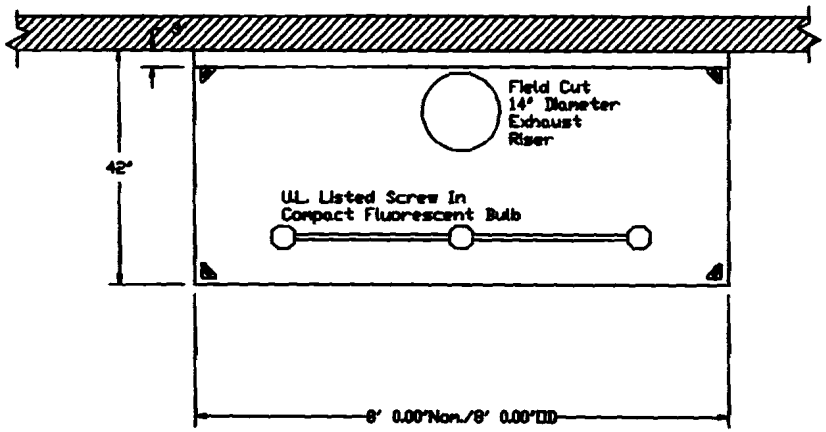
HOOD NO.	OPTION
1	RIGHT QUARTER END PANEL 23" Top Width, 9" Bottom Width, 23" High 430 SS
	LEFT QUARTER END PANEL 23" Top Width, 9" Bottom Width, 23" High 430 SS

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH

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



ND-2 HANGING ANGLE DETAIL



PLAN VIEW - Hood #1
8' 0.00" LONG 4212SND-2

CUSTOMER APPROVAL TO MANUFACTURE:

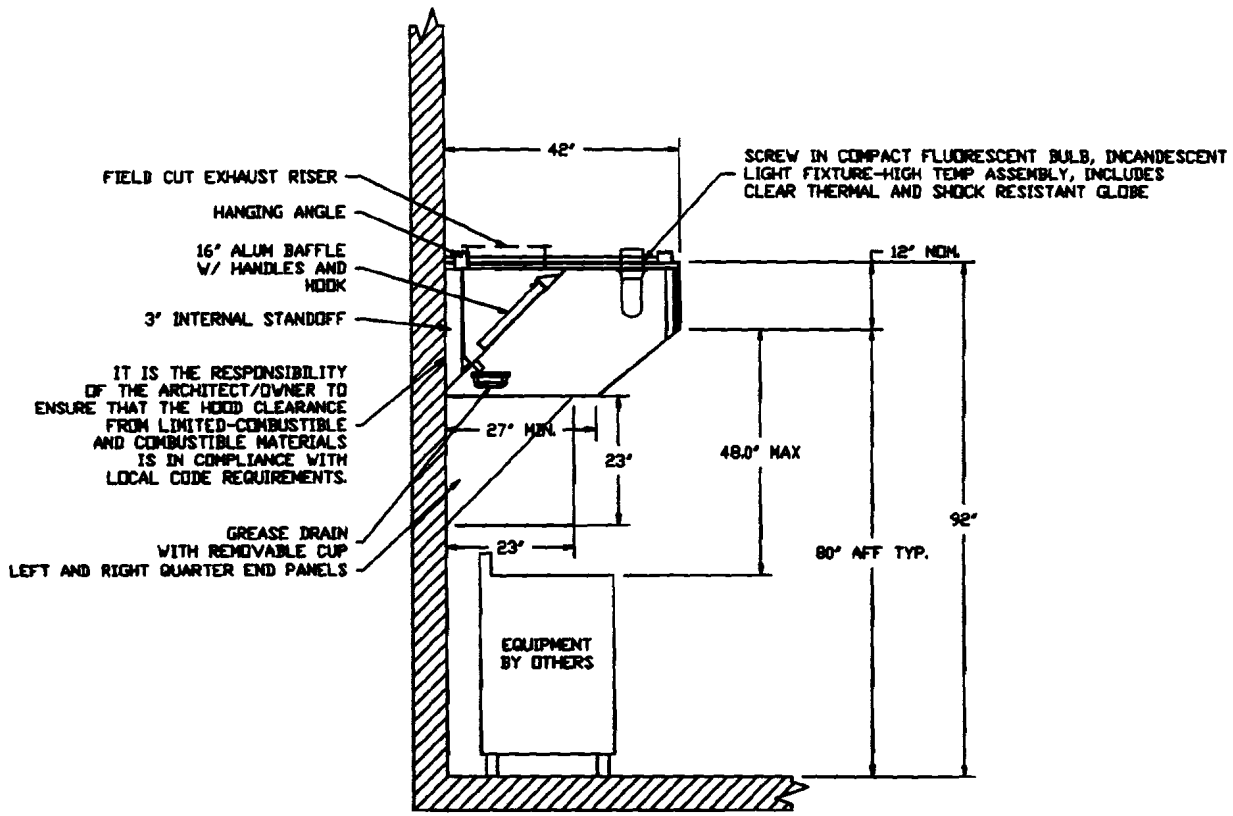
- Approved as Noted ☐
- Approved with NO Exception Taken ☐
- Review and Resubmit ☐

SIGNATURE _____

Your Title _____ Date _____

CAPTIVE-AIRE

JOB	Otto's (type I) r2		
LOCATION	SCARBOROUGH, ME		
DATE	10/28/2011	JOB #	1437924
DWG #	1	DRAWN BY	BFC-21
REV.		SCALE	1/32



SECTION VIEW - MODEL 4212SND-2
HOOD - #1

CUSTOMER APPROVAL TO MANUFACTURE:	
Approved as Noted	☐
Approved with NO Exception Taken	☐
Revise and Resubmit	☐
SIGNATURE _____	
Your Title _____ Date _____	

CAPTIVE-AIRE

JOB	Otto's (type I) r2		
LOCATION	SCARBOROUGH, ME		
DATE	10/28/2011	JOB #	1437924
DWG #	2	DRAWN BY	BFC-21
REV.		SCALE	1/32

EXHAUST FAN INFORMATION

FAN UNIT NO.	FAN UNIT MODEL #	MODEL	TAG	CFM	ESP.	RPM	H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)
1	NCA14FA	NCA14FA		1600	0.450	886	0.500	1	115	8.0	125.14

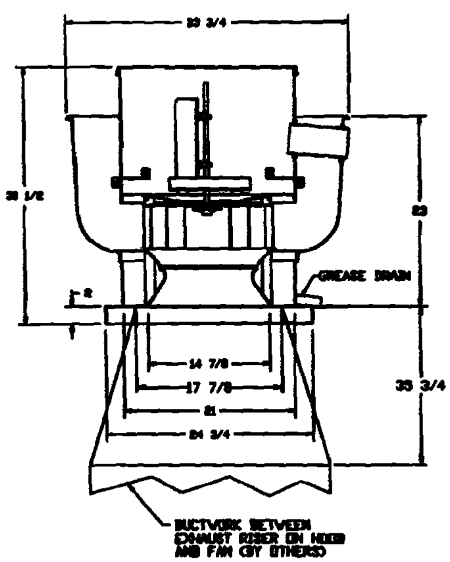
FAN OPTIONS

FAN UNIT NO.	OPTION (Qty. - Descr.)
1	1 - Grease Box
	1 - Fan Base Ceramic Seal - For Grease Ducts

CURB ASSEMBLIES

NO.	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	36 LBS	Curb	23.000"W x 23.000"L x 20.000"H Pitched (SPECIFY) Vented Hinged

FAN #1 NCA14FA - EXHAUST FAN



FEATURES:

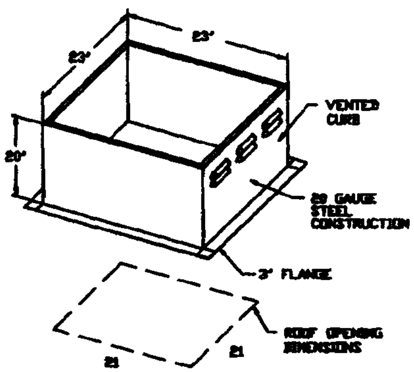
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762
- AMCA SOUND AND AIR CERTIFIED
- WIRING FROM MOTOR TO DISCONNECT SWITCH
- WEATHERPROOF DISCONNECT
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

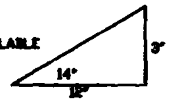
OPTIONS

GREASE BOX
FAN BASE CERAMIC SEAL - FOR GREASE DUCTS



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE



ROOF PITCH FOR CURB(S) MUST BE SPECIFIED PRIOR TO RELEASING ORDER
___:12

CUSTOMER APPROVAL TO MANUFACTURE:

- Approved as Noted ☐
- Approved with NO Exception Taken ☐
- Revise and Resubmit ☐

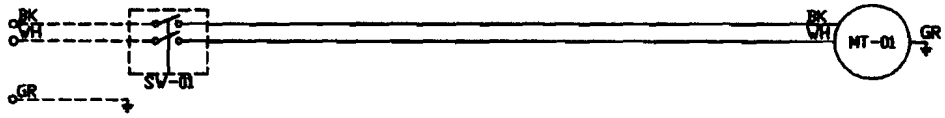
SIGNATURE ____________________

Your Title ____________ Date ________

CAPTIVEAIRE

JOB	Otto's (type I) r2		
LOCATION	SCARBOROUGH, ME		
DATE	10/28/2011	JOB #	1437924
DWG #	3	DRAWN BY	BFC-21
REV.		SCALE	1/32

Exhaust Fan Wiring	JOB NAME *Otto's (type I) r2*	DATE *10/28/2011*
DRAWING NUMBER *EXH1437924-1*	JOB NUMBER *1437924*	MODEL *MCA14FA*



Installed Options

Component Identification

Label	Description	Location
MT-01	Fan Motor	(2)
SV-01	Main disconnect switch	(2)

MOTOR INFO

EXHAUST 0.5HP-115V-1P-8.0FLA

ELECTRICAL INFORMATION

MOTOR/CONTROL MCA: 10.0A
MOTOR/CONTROL MOP: 15A

NOTES

----- DENOTES FIELD WIRING
——— DENOTES INTERNAL WIRING

WIRE COLOR

BK - BLACK	YW - YELLOW
BL - BLUE	GR - GREEN
BR - BROWN	GY - GRAY
OR - ORANGE	PR - PURPLE
RD - RED	PK - PINK
WH - WHITE	

ROXUL

The Better Insulation

Wall and Ceiling Insulation

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.

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

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.

Compliance and Performance

ASTM C 612	Mineral Fiber Block and Board Thermal Insulation	Type IV, Complies
CAN/CGSB 51.10-92	Mineral Fibre Board Thermal Insulation	Type 1, Class 4
CSA Approval	New York City Approval	332-97-M
Fire Performance		
ASTM E 136	Behaviour of Materials at 750°C (1382°F)	Non-Combustible
CAN4 S114	Test for Non-Combustibility	Non-Combustible
UL 723	Surface Burning Characteristics	Flame Spread = 0
(ASTM E 84)		Smoke Developed = 0
CAN/ULC S102	Surface Burning Characteristics	Flame Spread = 0
		Smoke Developed = 0
Maximum Service Temperature		
ASTM C 411	Hot Surface Performance	No Reaction @ 1200°F (650°C)
Dimensional Stability		
ASTM C 356	Linear Shrinkage	1.24% @ 1200°F (650°C)
Moisture Resistance		
ASTM C 1104	Moisture Sorption	0.04%
Corrosion Resistance		
ASTM C 665	Corrosiveness to Steel	Passed
ASTM C 795	For use with Austenitic Stainless Steel	No Reaction
ASTM C 871	Chemical Analysis	Passed
Thermal Resistance		
ASTM C 518 (C 177)	R-value @ 75°F (24°C)	4.2/inch
	k-value @ 75°F (24°C)	0.24 Btu.in/ft².hr.°F

Supercedes: 11 January 1999
Revised: 23 April 1999

Grease Duct Wrap Use

1. 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 609 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 609 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 518
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 GD 538 F	FS 557 W 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 or speak to your authorized 3M distributor or sales representative at (800) 328-1687.