



Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 04/14/17



HALEY'S METAL SHOP, INC.
539 ELM STREET
BIDDEFORD, MAINE 04005
PH: 207-284-8571, FAX: 207-284-9597

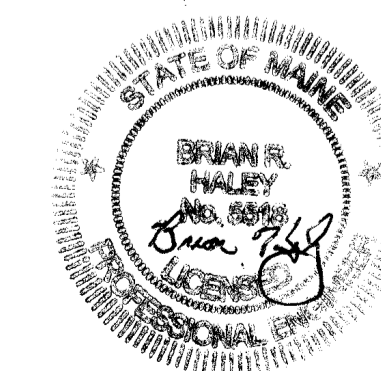
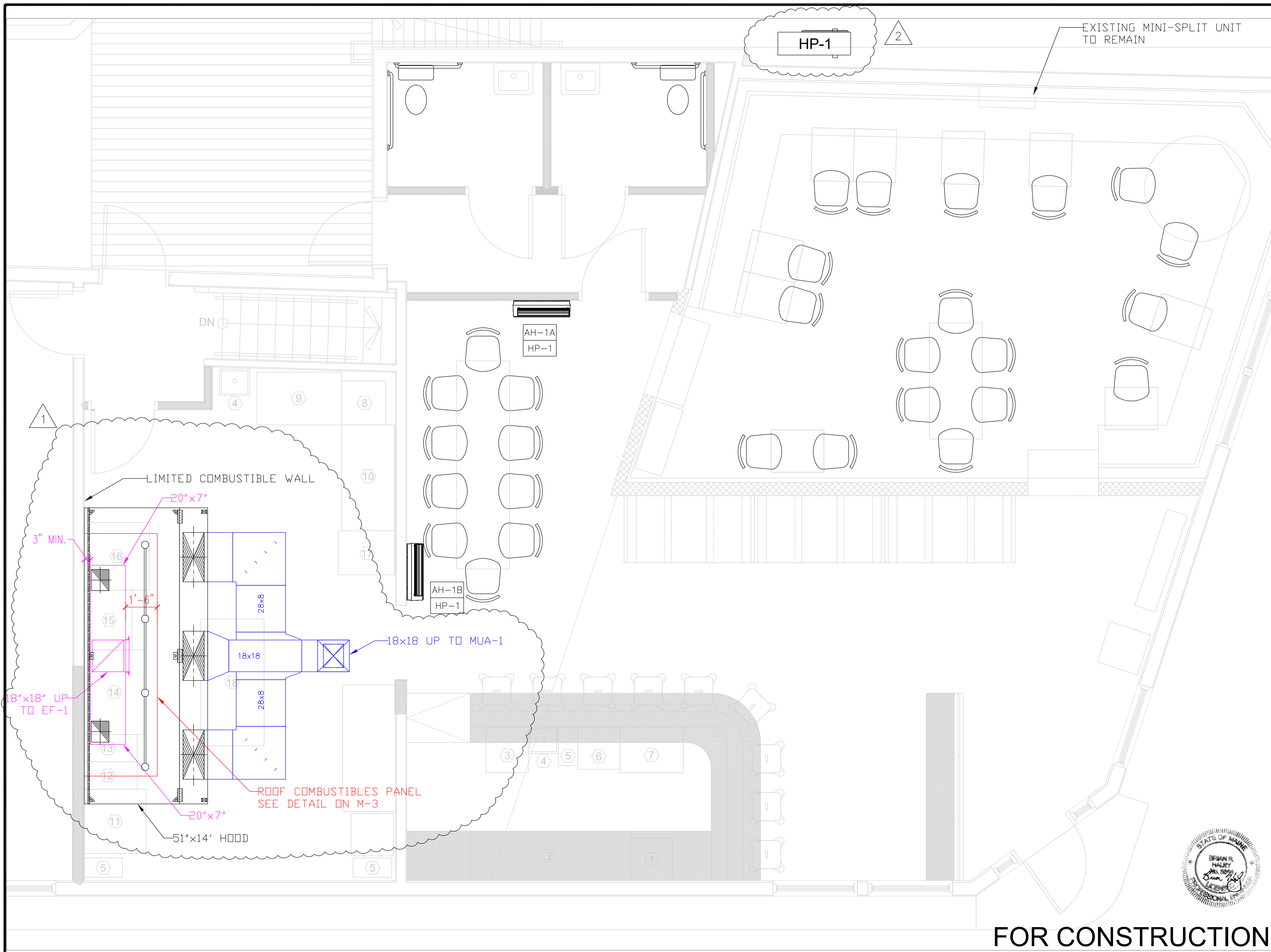
DATE: 03/01/17

SCALE: 1/2"=1'-0"

LITTLE GIANT RESTAURANT PORTLAND, MAINE KITCHEN VENTILATION PLAN

HVAC

M-1

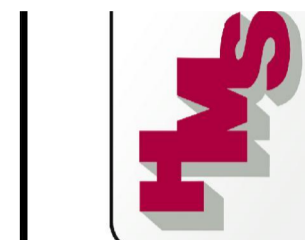
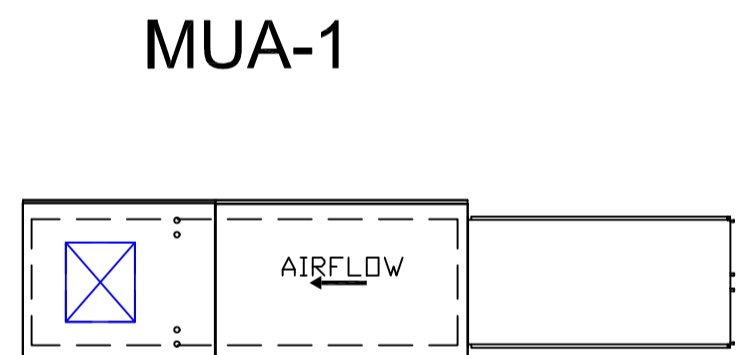
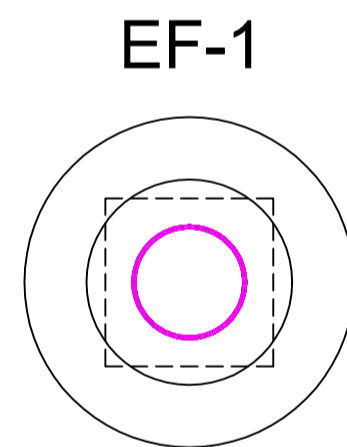
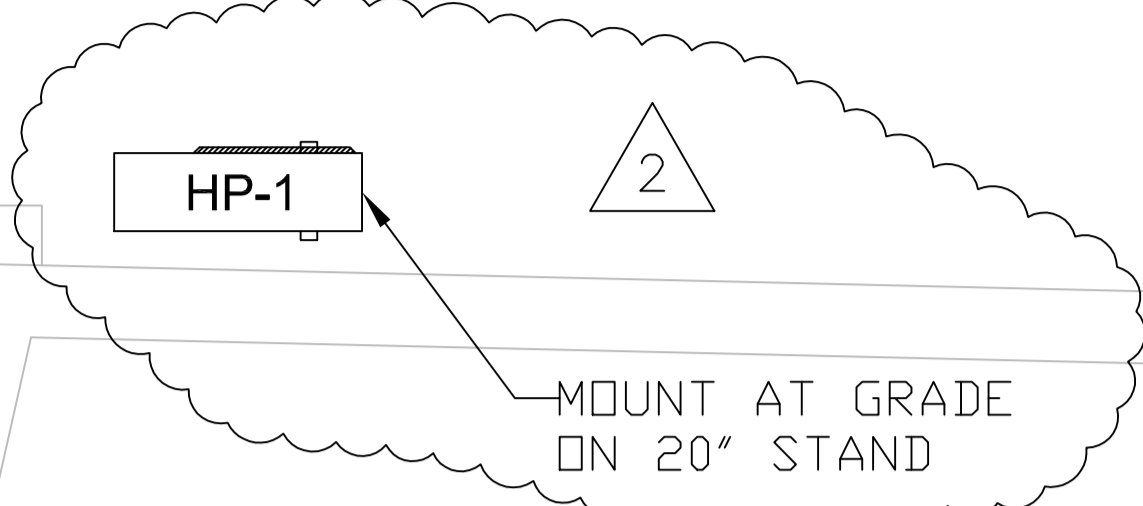
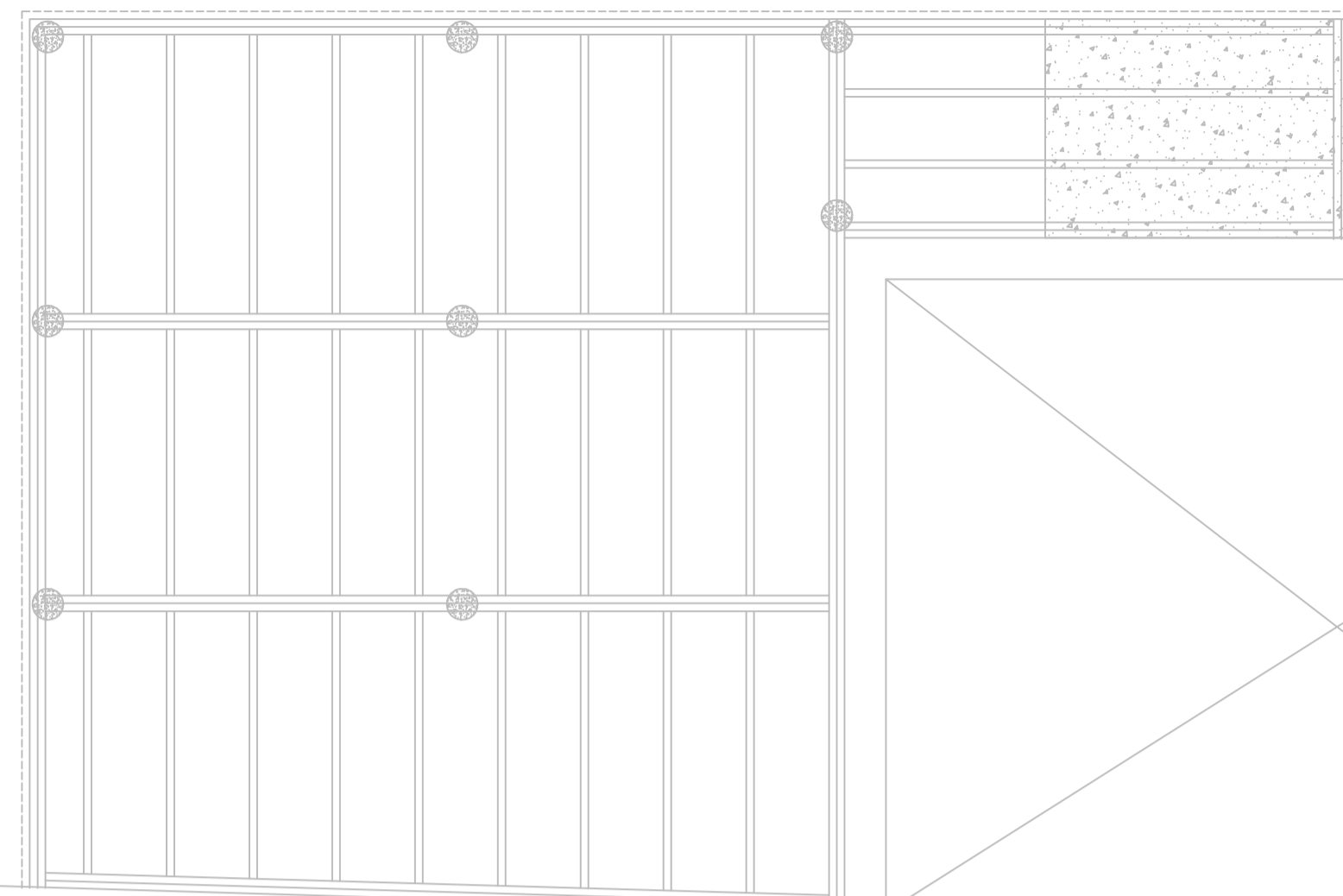


FOR CONSTRUCTION



Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 04/14/17



HALEY'S METAL SHOP, INC.
539 ELM STREET
BIDDEFORD, MAINE 04005
PH: 207-284-8571, FAX: 207-284-9597

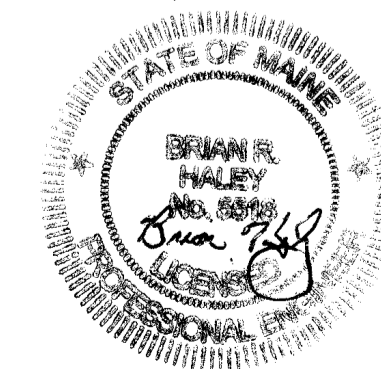
DATE: 03/01/17

SCALE: 3/8"=1'-0"

**LITTLE GIANT RESTAURANT
PORTLAND, MAINE
ROOF PLAN**

HVAC

M-2

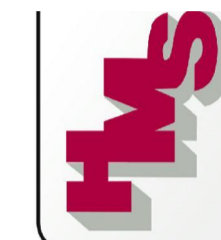


FOR CONSTRUCTION



Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 04/14/17



HALEY'S METAL SHOP, INC.
539 ELM STREET
BIDDEFORD, MAINE 04005
PH: 207-284-8571, FAX: 207-284-9597

DATE: 03/01/17

SCALE: NTS

LITTLE GIANT RESTAURANT
PORTLAND, MAINE
HOOD SYSTEM

HVAC

M-3

HOOD INFORMATION - Job#296659

HOOD NO.	TAG	MODEL	LENGTH	MAX. CEILING TEMP.	TOTAL CAPACITY CFM	HOOD CONSTRUCTION	END TO END	HOW	PATENT NUMBERS
1	ND-2-PSP-F	544	14' 00"	300	1500	ALDNE	430 SS	ALDNE	AC-PSP (United States) - US Patent 7963802 AC-PSP (Canada) - CA Patent 282079 AC-PSP (Mexico) - MX Patent 253530

HOOD INFORMATION

HOOD NO.	TAG	TYPE	STY.	HEIGHT	LENGTH	EFFICIENCY # 9	NO. OF FILTERS	TYPE	LOCATION	SIZE	TYPE	SIZE	MODEL #	QUANTITY	NO.	DATE
1		Captivate Solo Filter	10	20"	14'	85%	9	Spec.	Screw In Compact	NO	UL Listed	36"	430 SS	1	ND	10/1

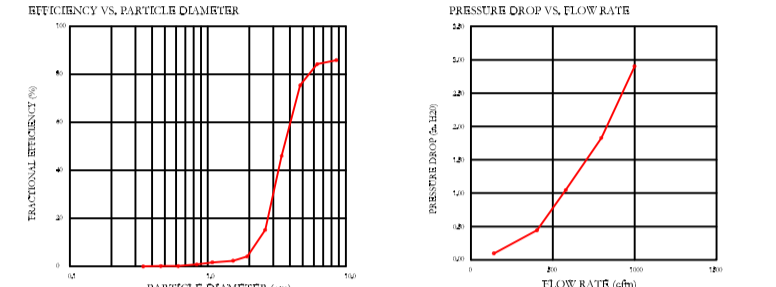
HOOD OPTIONS

HOOD NO.	TAG	OPTION
1		FIELD WRAPPER 1800" High Front, Left, Right BACKPLASH 800" High x 1680" Long x 12" Vertical INSULATION FOR TOP OF HOOD INSULATION FOR BACK OF HOOD RIGHT VERTICAL END PANEL 27" Top Width, 21" Bottom Width, 80" High Insulated 430 SS LEFT VERTICAL END PANEL 27" Top Width, 21" Bottom Width, 80" High Insulated 430 SS

PERFORMED SUPPLY PLENUM(S)

HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	AREA	CFM	SP.
1		Front	168"	16"	6"	M.A.	15' 00"	800	0.207"

SPECIFICATION CAPTIVATE® GREASE-STOP® SOLID FILTER
THE CAPTIVATE GREASE-STOP SOLID FILTER IS A SINGLE-STAGE FILTER FEATURING A WEDGE SHAPED DESIGN IN CONJUNCTION WITH A SLOTTED REAR Baffle DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZES TO FIT INTO STANDARD 2-INCH RECP HOOD CHANNELS.
UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 95% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 95% GREASE PARTICLES NINE MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.
THE CAPTIVATE GREASE-STOP SOLID WAS TESTED TO ASTM STANDARD ASTM F559-05.
SEE TEST REPORT FOR FULL TEST RESULTS.



CAPTIVATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA 96
UL STANDARD 7046
INT. MFG. CODE (IMC)
ULC-S449

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

Revised and Resubmit

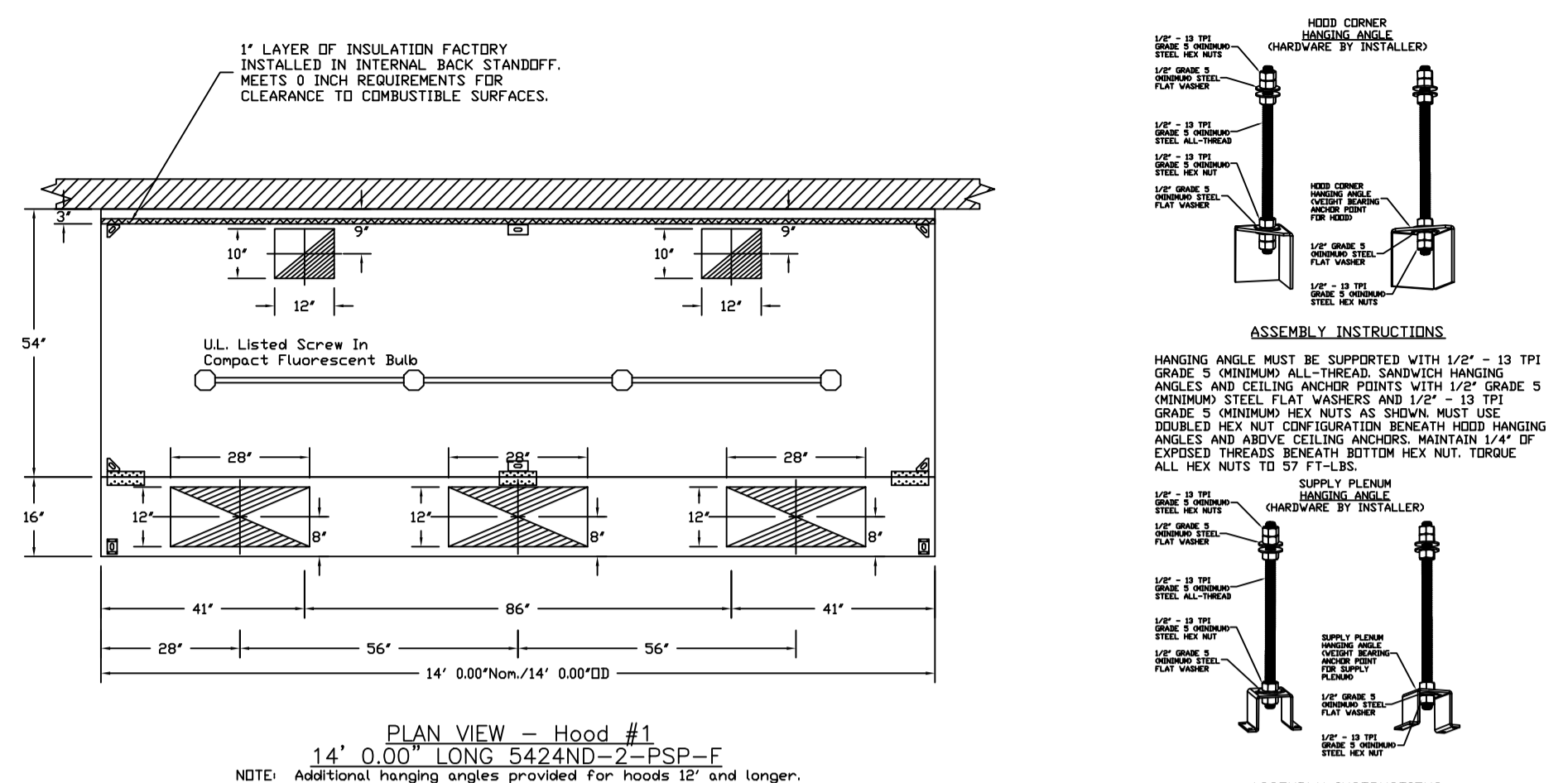
Signature: _____ Date: _____

Yours Title: _____

CAPTIVEAIRE

JOB: Little Giant r5
LOCATION: PORTLAND, ME, 04102
DATE: 3/27/2017 JOB #: 2966659
DWG # 1 DRAWN BY: BFC-21
REV. SCALE: 3/8" = 1'-0"

HOOD SYSTEM INFORMATION



CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

Revised and Resubmit

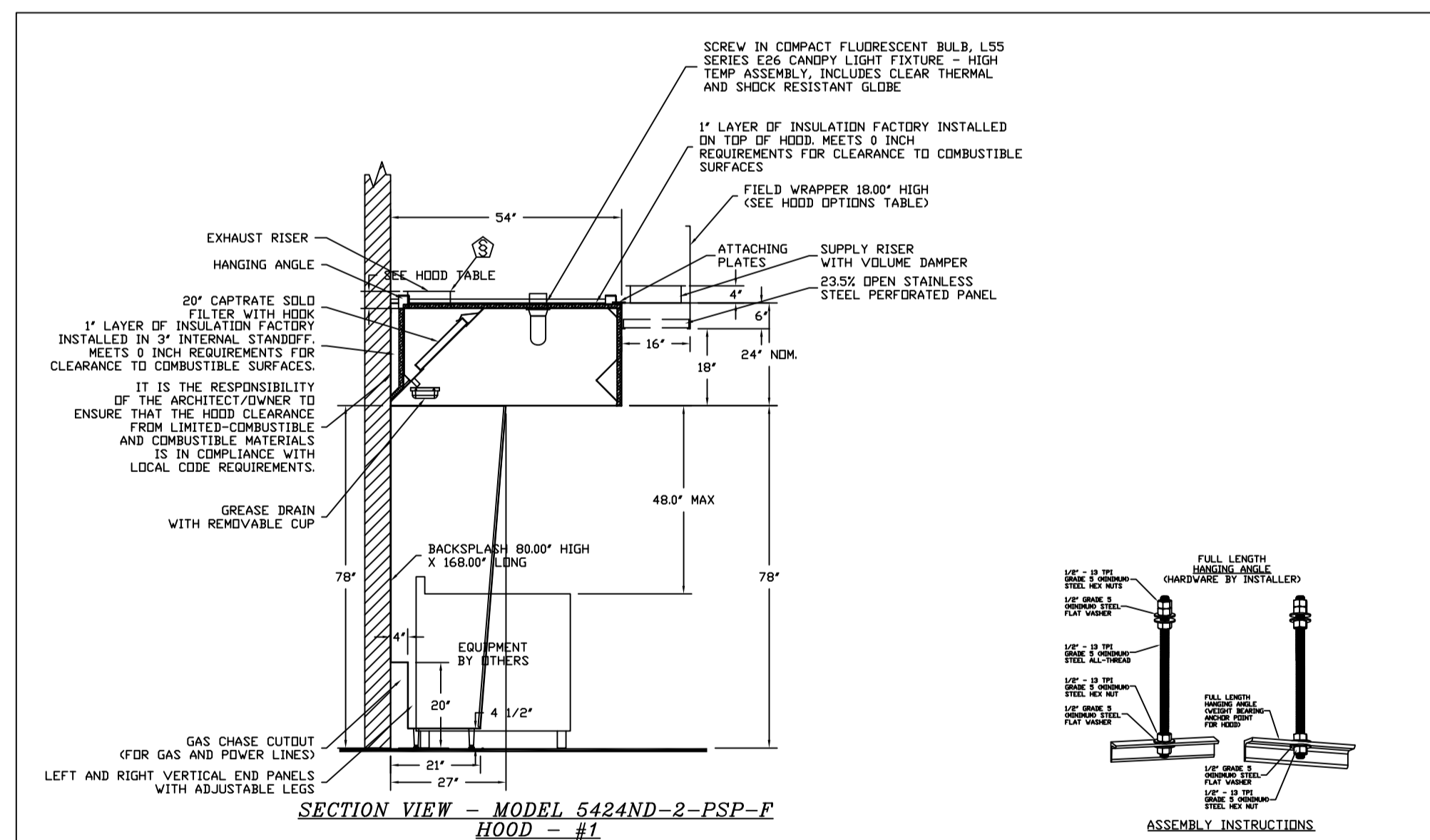
Signature: _____ Date: _____

Yours Title: _____

CAPTIVEAIRE

JOB: Little Giant r5
LOCATION: PORTLAND, ME, 04102
DATE: 3/27/2017 JOB #: 2966659
DWG # 2 DRAWN BY: BFC-21
REV. SCALE: 3/8" = 1'-0"

HOOD ELEVATION



CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

Revised and Resubmit

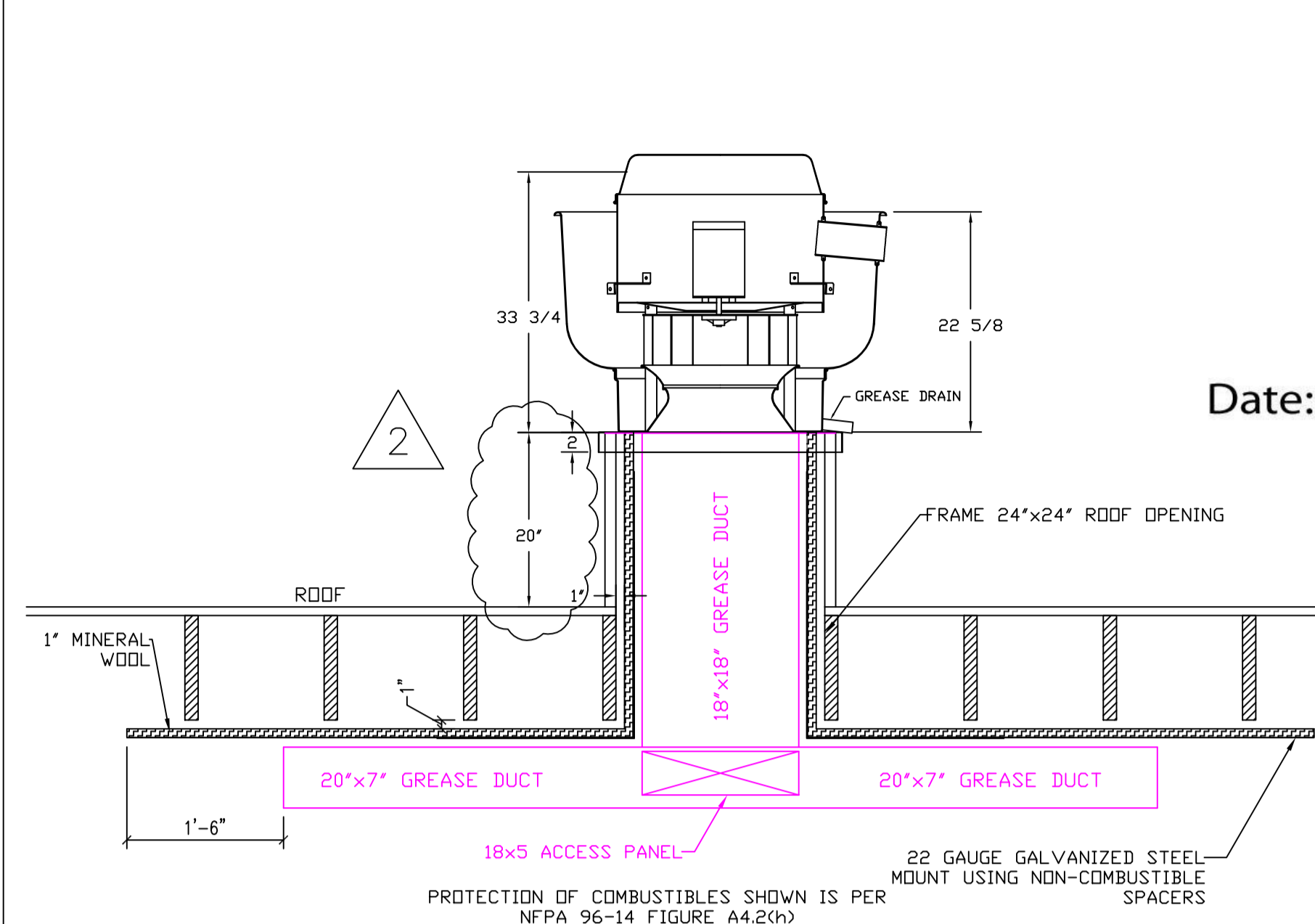
Signature: _____ Date: _____

Yours Title: _____

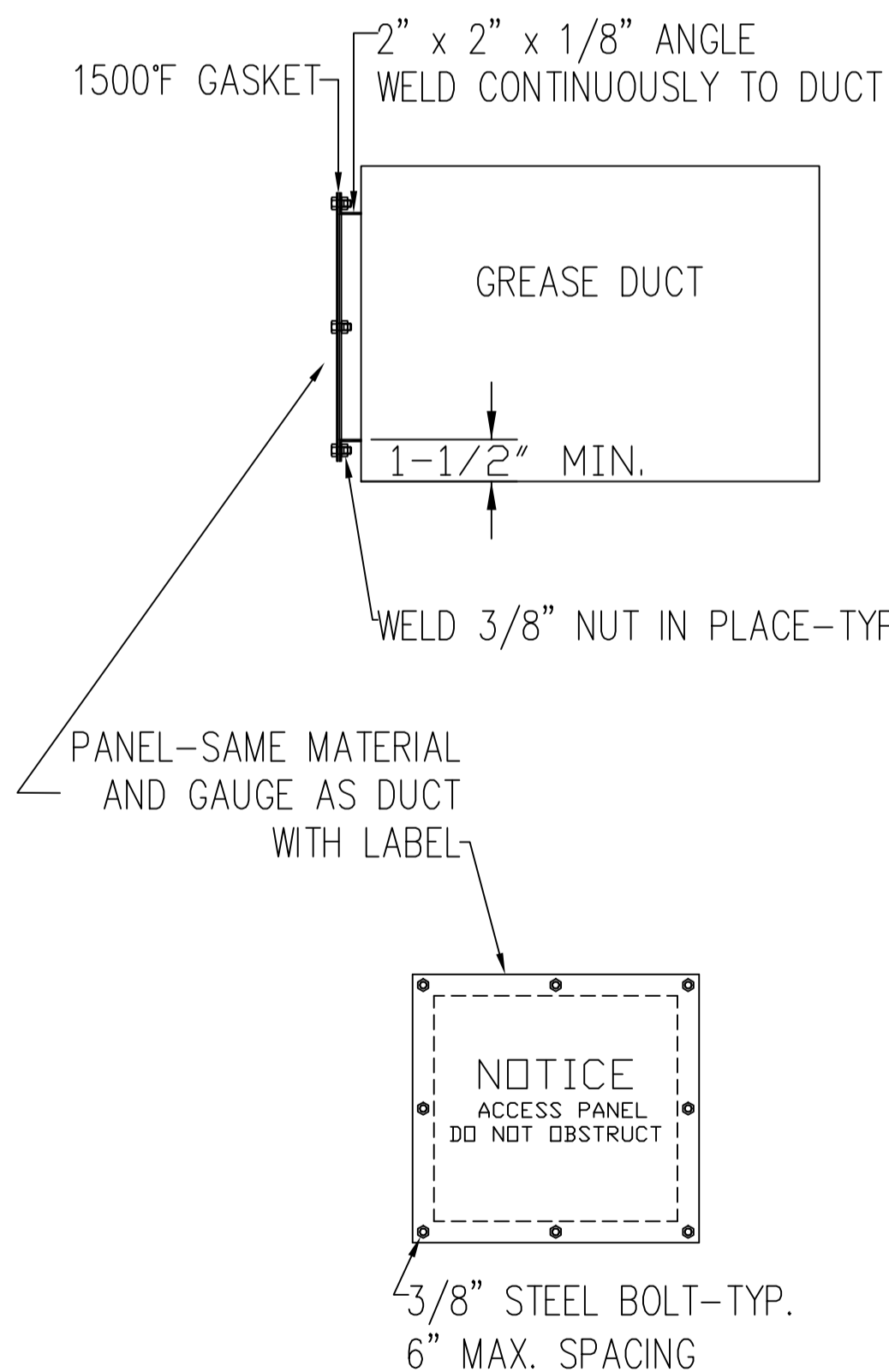
CAPTIVEAIRE

JOB: Little Giant r5
LOCATION: PORTLAND, ME, 04102
DATE: 3/27/2017 JOB #: 2966659
DWG # 4 DRAWN BY: BFC-21
REV. SCALE: 3/8" = 1'-0"

HOOD ELEVATION



EXHAUST DUCTWORK ELEVATION COMBUSTIBLES PROTECTION



GREASE DUCTWORK ACCESS PANEL DETAIL

FOR CONSTRUCTION

FAN SCHEDULES

EXHAUST FAN INFORMATION - Job#296659

FAN NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	HP	BHP	# VOLT.	FLA	WEIGHT (LBS.)	INCHES
1		SUB99FA	300	1.500	1.204	3.000	1.204	3	208	19.2

VIA FAN INFORMATION - Job#296659

FAN NO.	TAG	FAN UNIT MODEL #	BLOWER	HOUSING	MIN. CFM	DESIGN CFM	ESP.	HP	HP	BHP	# VOLT.	FLA	WEIGHT (LBS.)	INCHES	BURNER EFFICIENCIES
1		AI-2929-G10	G10	AI-2929	1000	2400	0.500	1000	0.000	1.000	1.204	3	208	19.2	90

GAS FIBER MAKE-UP AIR UNITS

UNIT NO.	TAG	INPUT BTUS	OUTPUT BTUS	TEMP. RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE
1		24076	22054	85 deg F	7 in. w.c. - 14 in. w.c.	Natural

FAN OPTIONS

HOOD NO.	TAG	OPTION
1		1 - Grease Box 1 - Full Grating For Exhaust Fan 1 - 3 Year Extended Motor Warranty 1 - Fan Belt Guards, Set - Slip Loose - For Grease Ducts 1 - AC Interlock Relay - 24VAC Coil 1 - National Business's Bumper For All-B Housing 1 - Full Grating For Commercial Heater 1 - Low Fire Start 1 - Inlet Pressure Gauge, 0-30" 1 - Multiflow Pressure Gauge, -5 to 15" w.c. 1 - Specialty 120V Wiring Package (Required and used only for SCV or Pre-wire with VFD) - Three Phase Only 1 - 3 Year Extended Motor Warranty 1 - Extra Set of Belts

FAN ACCESSORIES

FAN NO.	TAG	EXHAUST	SUPPLY
1		GREASE (GRAVITY WALL CUP LAMP) MOUNT DISCONNECT SWITCH	MOTORIZED SWITCH MOUNT

CURB ASSEMBLIES

NO.	TA	WEIGHT	ITER	SIZE
1	# 1	34 LBS	Curb	26.500" x 26.500" x 30.000" Pitch Vented Hinged
2	# 2	74 LBS	Curb	26.000" x 71.000" x 24.000" 3.000x12.000 Pitch Along Width, Right Insulated

FAN SOUND INFORMATION

FAN NO.	MOTR	HP	LVA	ONES	DBA	DISTANCE FT	OCTAVE 1	OCTAVE 2	OCTAVE 3	OCTAVE 4	OCTAVE 5	OCTAVE 6	OCTAVE 7	OCTAVE 8
1	Exhaust	1.204	82	192	71.5	5	77	82.1	88.6	79.7	72.3	69.9	63.8	57.7
2	Supply	1.803	84.1	22	70.6	5	85.6	85.6	84	86.6	76.8	77.2	73	69.5

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

Revised and Resubmit

Signature: _____ Date: _____

Yours Title: _____

CAPTIVEAIRE

JOB: Little Giant r5
LOCATION: PORTLAND, ME, 04102
DATE: 3/27/2017 JOB #: 2966659
DWG # 3 DRAWN BY: BFC-21
REV. SCALE: 3/8" = 1'-0"

FAN SCHEDULES



Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 04/14/17

AIR HANDLING UNITS SCHEDULE

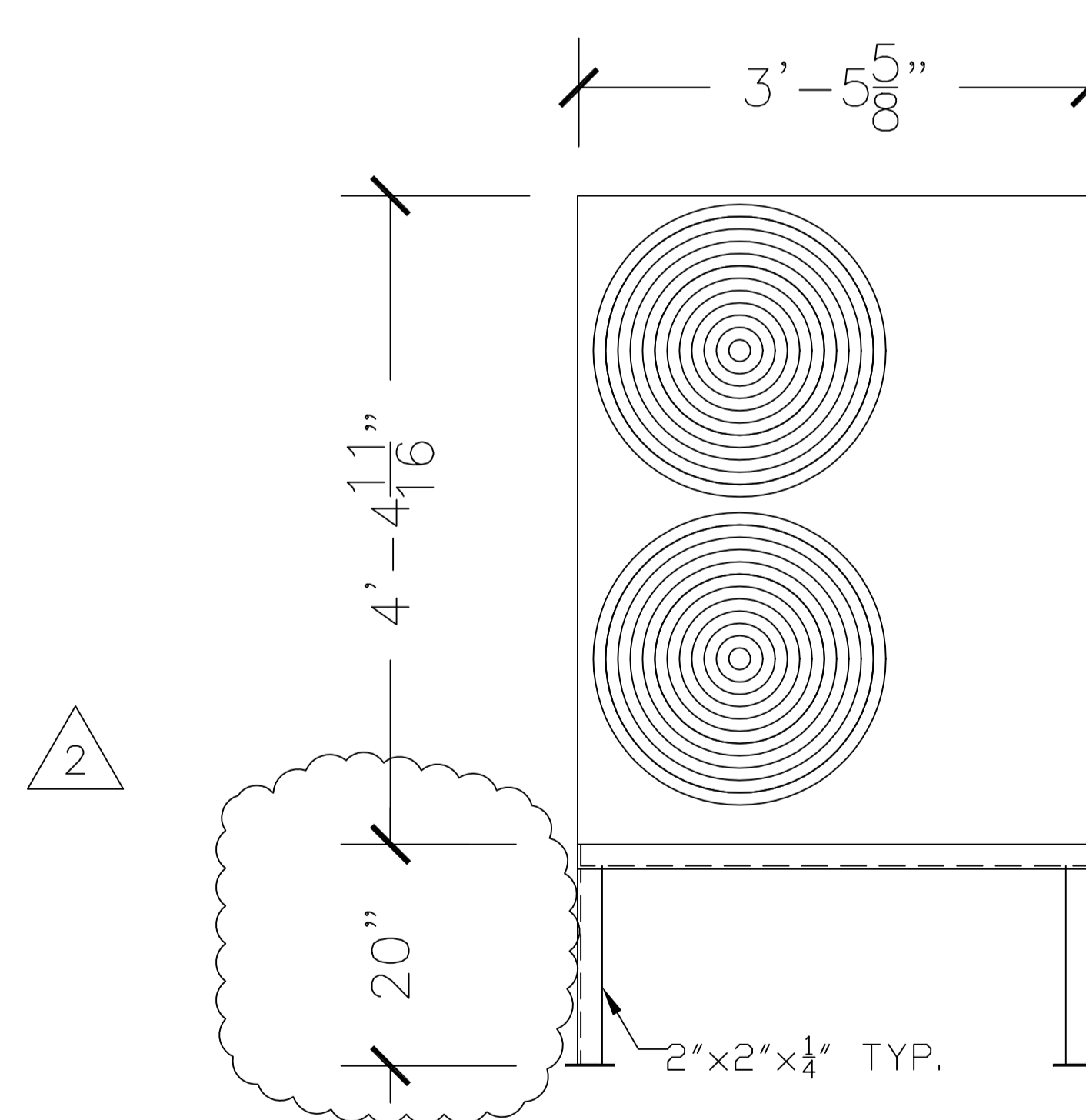
AHU TAG	TYPE	ASSOCIATED CONDENSER	NOMINAL COOLING MBH	REFRIGERANT	MANUFACTURER	MODEL	ELECTRICAL	WEIGHT, LBS.	PIPING SIZES* S/L	CONTROLLER (T)
AHU-1A	WALL	HP-1	15.0	410A	MITSUBISHI	MSZ-FH15NA	208/230-1-60/1.0 M.C.A.	29	1/2" / 1/4"	WIRELESS REMOTE
AHU-1B	WALL	HP-1	15.0	410A	MITSUBISHI	MSZ-FH15NA	208/230-1-60/1.0 M.C.A.	29	1/2" / 1/4"	MHK1

CONDENSING UNIT SCHEDULE

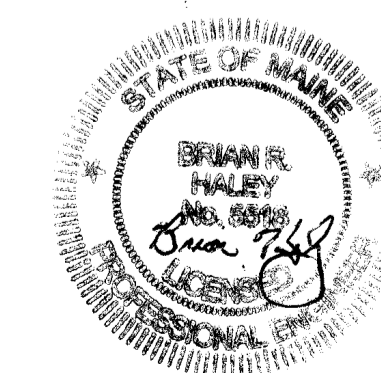
CONDENSER TAG	LOCATION	SERVICE	NOMINAL COOLING MBH	NOMINAL HEATING MBH	REFRIGERANT	MANUFACTURER	MODEL	CONDENSING UNIT ELECTRICAL	WEIGHT, LBS.	BRANCH BOX	BRANCH BOX ELECTRICAL
HP-1	ROOF	HEAT PUMP	36	48	R-410A	MITSUBISHI	MXC-4C36NAHZ	208/230-1/60/42.0 M.C.A	276	PAC-MKA30BC	208/230-1/60

INSTALLATION NOTES

1. INSULATE ALL HOOD MAKEUP AIR DUCTWORK WITH 2" FSK DUCT WRAP.
2. DESIGN ALL HOOD MAKEUP DUCTWORK AT 2" W.G. AND SEAL PER SMACNA CLASS B SEALING STANDARDS.
3. KITCHEN HOOD EXHAUST DUCTWORK SHALL BE WELDED 16 GAUGE STEEL PER NFPA 96 REQUIREMENTS. MAINTAIN A MINIMUM OF 3" TO LIMITED COMBUSTIBLE CONSTRUCTION. ABOVE THE DUCTWORK AND EXTENDING 18" BEYOND IT, INSTALL COMBUSTIBLES PROTECTION PANEL(S) PER THE DETAIL SHOWN ON M-3.
4. MOUNT HP-1 ON A STAND.



HEAT PUMP CONDENSER & STAND



FOR CONSTRUCTION



HALEY'S METAL SHOP, INC.
539 ELM STREET
BIDDEFORD, MAINE 04005
PH: 207-284-8571, FAX: 207-284-9597

DATE: 03/01/17

SCALE: NTS

**LITTLE GIANT RESTAURANT
PORTLAND, MAINE
SCHEDULES & NOTES**

HVAC

M-4