

HOOD INFORMATION - Job#2824941

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	TOTAL EXH. CFM	EXHAUST PLENUM RISER(S)						MUA CFM	AC CFM	HOOD CONSTRUCTION	HOOD CONFIG.		
						WIDTH	LENG.	HEIGHT	DIA.	CFM	VEL.				S.P.	END TO END	ROW
1	EH-1	5430 ND-2-ACPSP-F	13' 0.00'	600 Deg.	3250			4'	14'	1625	1520	-0.632"	2762	696	430 SS Where Exposed	LEFT	ALONE
2	EH-2	5430 ND-2-ACPSP-F	6' 5.00'	450 Deg.	962			4'	10'	962	1764	-0.476"	914	350	430 SS Where Exposed	RIGHT	ALONE
3	EH-3	4224 VHB-G	6' 0.00'	700 Deg.	600			4'	12'	600	764	-0.047"	0	0	430 SS 100%	ALONE	ALONE

PATENT NUMBERS

AC-PSP (United States) - US Patent 7963830 B2
 AC-PSP Wall (Canada) - CA Patent 2820509
 AC-PSP Island (Canada) - CA Patent 2520330

HOOD INFORMATION

HOOD NO.	TAG	FILTER(S)				LIGHT(S)			UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WGT		
		TYPE	QTY.	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY.	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM			ELECTRICAL	SWITCHES
1	EH-1	Captrate Solo Filter	9	20"	16'	85% See Filter Spec.	4	Screw In 12W LED	NO						NO	946 LBS
2	EH-2	Captrate Solo Filter	4	20"	16'	85% See Filter Spec.	2	Screw In 12W LED	NO						NO	462 LBS
3	EH-3						0								NO	216 LBS

HOOD OPTIONS

HOOD NO.	TAG	OPTION
1	EH-1	FIELD WRAPPER 18.00' High Front, Left
		BACKSPLASH 80.00' High X 234.00' Long 430 SS Vertical
		STRUCTURAL FRONT PANEL
		LEFT VERTICAL END PANEL 27' Top Width, 21' Bottom Width, 80' High Insulated 430 SS
2	EH-2	FIELD WRAPPER 18.00' High Front
		RIGHT SIDESPLASH 80.00' High X 54.00' Long 430 SS Vertical
		RIGHT END STANDOFF (FINISHED) 1' Wide 54' Long Insulated
		BACKSPLASH - INSIDE CORNER 80.00' High X 2.00' Leg Length 430 SS Vertical
		RIGHT QUARTER END PANEL 23' Top Width, 0' Bottom Width, 23' High 430 SS
3	EH-3	STRUCTURAL FRONT PANEL
3	EH-3	FIELD WRAPPER 24.00' High Front, Left, Right

PERFORATED SUPPLY PLENUM(S)

HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG.	DIA.	CFM	S.P.
1	EH-1	Front	156'	26'	6'	MUA	12"	28"		690	0.180"
						MUA	12"	28"		690	0.180"
						MUA	12"	28"		690	0.180"
						MUA	12"	28"		690	0.180"
						AC		8"	116	0.043"	
						AC		8"	116	0.043"	
						AC		8"	116	0.043"	
						AC		8"	116	0.043"	
						AC		8"	116	0.043"	
						AC		8"	116	0.043"	
2	EH-2	Front	78'	26'	6'	MUA	8"	26"		457	0.135"
						MUA	8"	26"		457	0.135"
						AC	6"	16"		175	0.048"
						AC	6"	16"		175	0.048"

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER

THE CAPTRATE GREASE-STOP SOLID FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

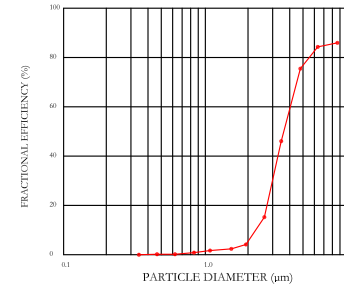
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

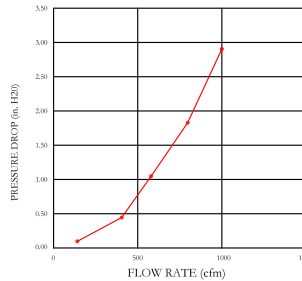
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLID WAS TESTED TO ASTM STANDARD ASTM F2519-05.

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
 NFPA #96
 NSF STANDARD #2
 UL STANDARD #1046
 INT. MECH. CODE (IMC)
 ULC-S649



CUSTOMER APPROVAL TO MANUFACTURE:

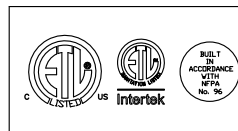
Approved as Noted

Approved with NO Exception Taken

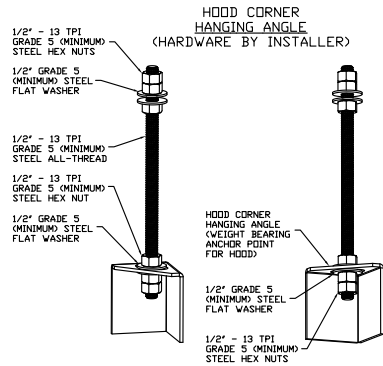
Revise and Resubmit

SIGNATURE _____

Your Title _____ Date _____

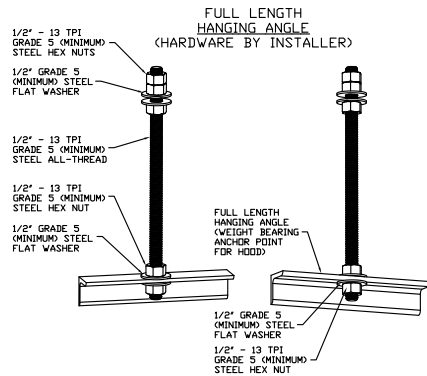


JOB Salvation Army - Portland	
LOCATION PORTLAND, ME, 04101	
DATE 5/4/2017	JOB # 2824941
DWG # 1	DRAWN BY BFC-21
REV.	SCALE 3/8" = 1'-0"



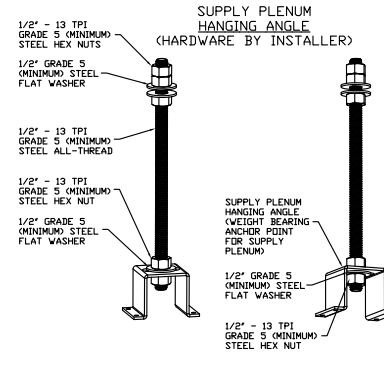
ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

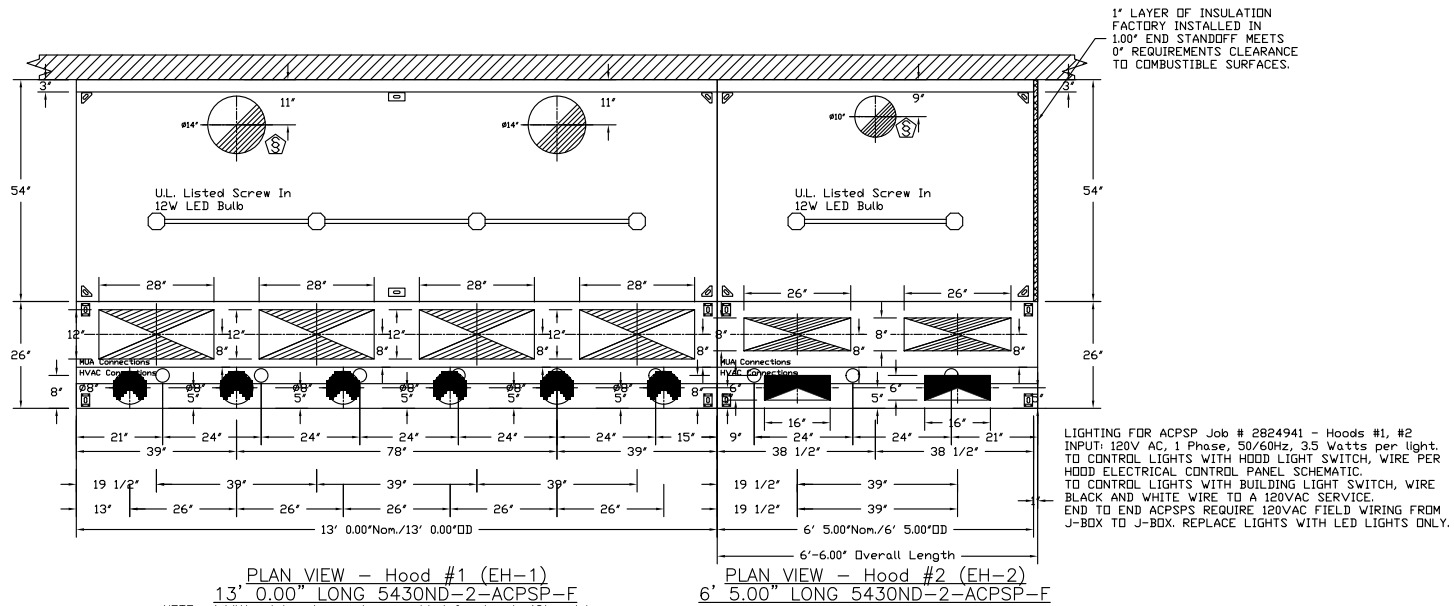
Revise and Resubmit

SIGNATURE _____

Your Title _____ Date _____



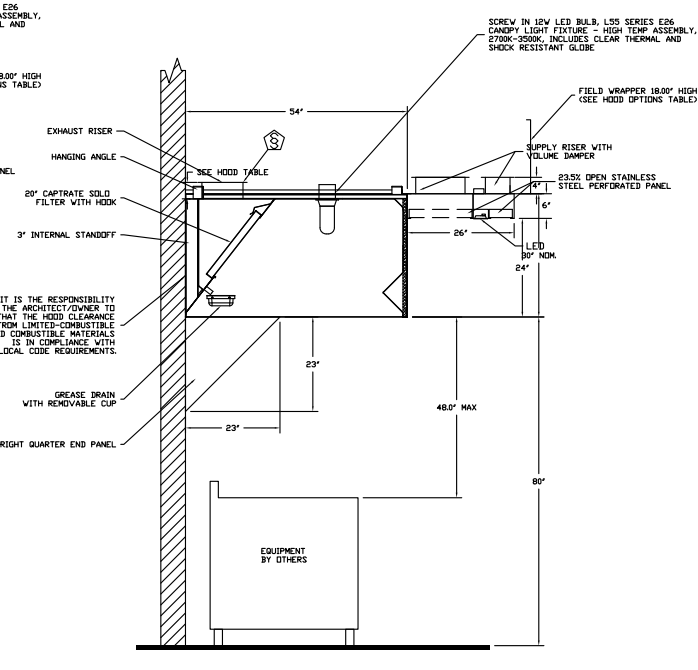
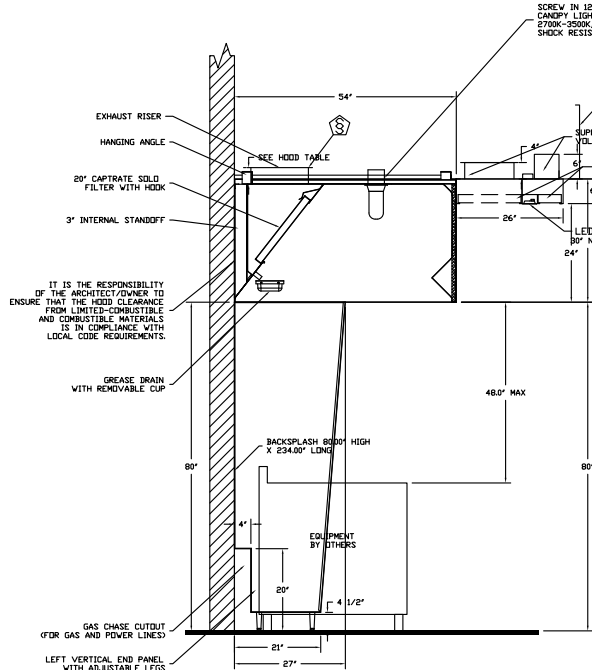
JOB Salvation Army - Portland	
LOCATION PORTLAND, ME, 04101	
DATE 5/4/2017	JOB # 2824941
DWG # 2	DRAWN BY BFC-21
REV.	SCALE 3/8" = 1'-0"



NOTE: Additional hanging angles provided for hoods 12' and longer.

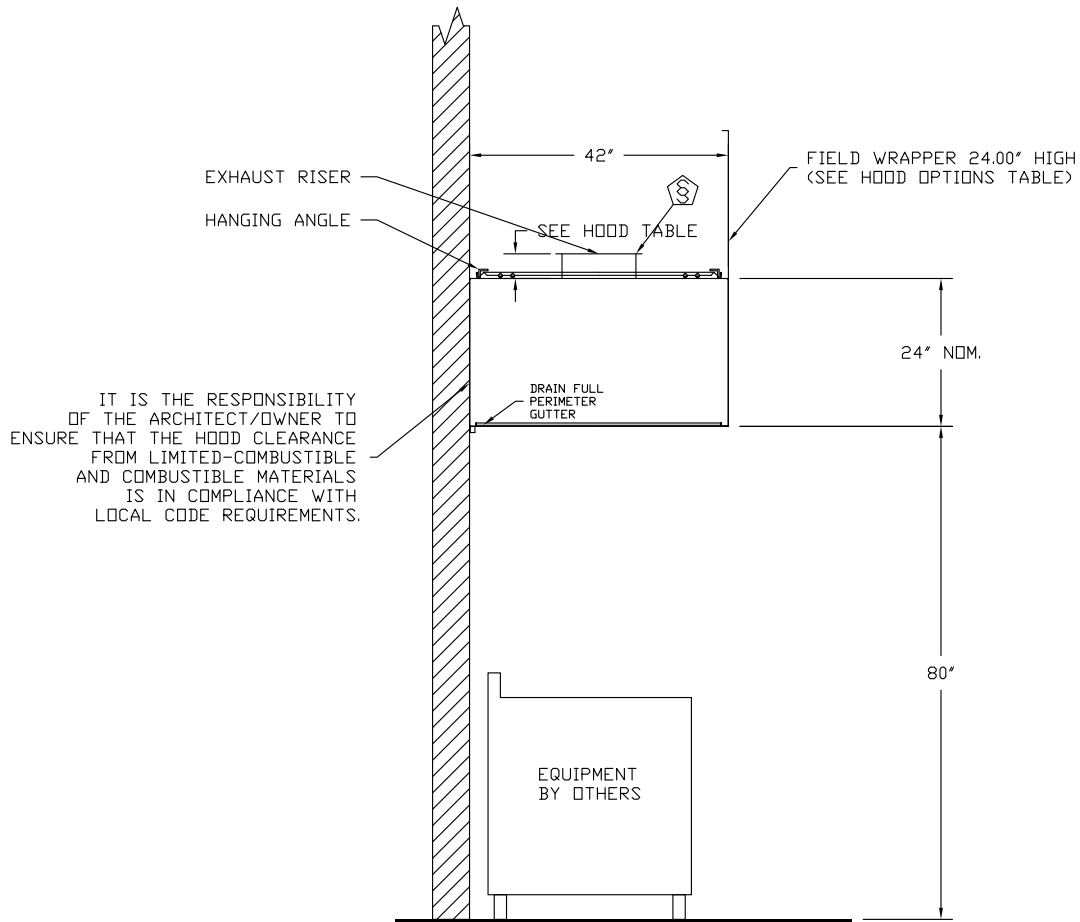
ACPSP ships loose for field installation

ACPSP ships loose for field installation

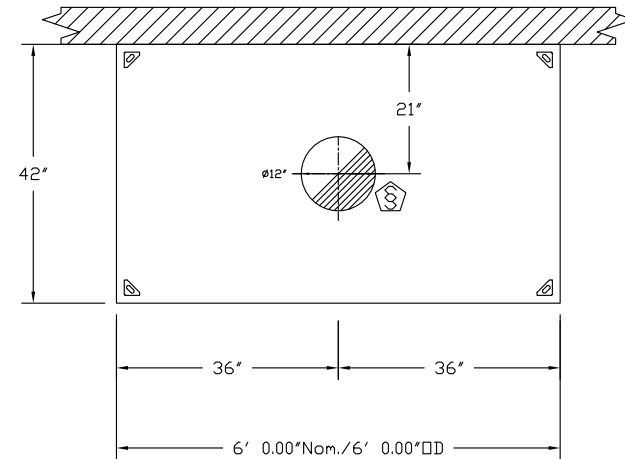


CAPTIVEAIRE

JOB Salvation Army - Portland	
LOCATION PORTLAND, ME, 04101	
DATE 5/4/2017	JOB # 2824941
DWG # 3	DRAWN BY BFC-21
REV.	SCALE 1/4" = 1'-0"



SECTION VIEW - MODEL 4224VHB-G
HOOD - #3 (EH-3)



PLAN VIEW - Hood #3 (EH-3)
6' 0.00" LONG 4224VHB-G

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

Revise and Resubmit

SIGNATURE _____

Your Title _____ Date _____



CAPTIVEAIRE

JOB Salvation Army - Portland	
LOCATION PORTLAND, ME, 04101	
DATE 5/4/2017	JOB # 2824941
DWG # 4	DRAWN BY BFC-21
REV.	SCALE 3/8" = 1'-0"

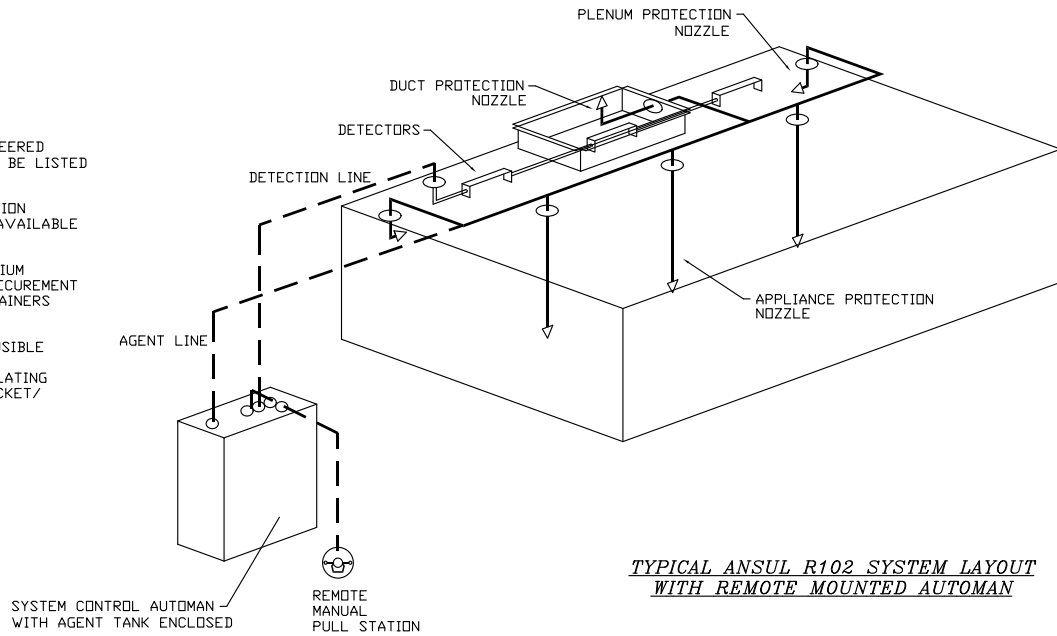
SPECIFICATIONS

THE RESTAURANT FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION NETWORK. IT SHALL BE LISTED WITH UNDERWRITERS LABORATORIES, INC. (UL)

THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION WITH LOCAL OR REMOTE MANUAL ACTUATION. ACCESSORIES SHALL BE AVAILABLE FOR MECHANICAL OR ELECTRICAL GAS LINE SHUT-OFF APPLICATIONS.

THE EXTINGUISHING AGENT SHALL BE A POTASSIUM CARBONATE, POTASSIUM ACETATE-BASED FORMULATION DESIGNED FOR FLAME KNOCKDOWN AND SECUREMENT OF GREASE RELATED FIRES. IT SHALL BE AVAILABLE IN PLASTIC CONTAINERS WITH INSTRUCTIONS FOR LIQUID AGENT HANDLING AND USAGE.

THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH A FUSIBLE LINK DETECTION SYSTEM. THE FUSIBLE LINK SHALL BE SELECTED AND INSTALLED ACCORDING TO THE OPERATING TEMPERATURE IN THE VENTILATING SYSTEM. THE FUSIBLE LINK SHALL BE SUPPORTED BY A DETECTOR BRACKET/LINKAGE ASSEMBLY.



TYPICAL ANSUL R102 SYSTEM LAYOUT WITH REMOTE MOUNTED AUTOMAN

ONE COMPLETE FIELD INSTALLED ANSUL R102 TO BE PROVIDED.

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

Revise and Resubmit

SIGNATURE _____

Your Title _____ Date _____



JOB Salvation Army - Portland	
LOCATION PORTLAND, ME, 04101	
DATE 5/4/2017	JOB # 2824941
DWG # 5	DRAWN BY BFC-21
REV.	SCALE 3/8" = 1'-0"

EXHAUST FAN INFORMATION - Job#2824941

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)	SONES
1	EF-1	DUI80HFA	3250	1.500	1361	3.000	1.3540	3	208	9.5	221	21
2	EF-2	DUB5HFA	962	1.000	1097	0.750	0.2620	3	208	2.6	134	10.6
3	EF-3	DU30HFA	600	0.500	1212	0.250	0.0920	1	115	3.8	109	8.4

MUA FAN INFORMATION - Job#2824941

FAN UNIT NO.	TAG	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)	SONES	BURNER EFFICIENCY(%)
4	MUA-1	A2-D.500-G15	G15-PB	A2-D.500	2000	3676	0.500	849	2.000	1.6880	3	208	6.1	885	14	92

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO.	TAG	INPUT BTUs	OUTPUT BTUs	TEMP. RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE
4	MUA-1	306387	281876	71 deg F	7 in. w.c. - 14 in. w.c.	Natural

FAN OPTIONS

FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1	EF-1	1 - Grease Box
		1 - Full Crating For Exhaust Fans
		1 - 3 Year Extended Motor Warranty
		1 - Fan Base Ceramic Seal - Ship Loose - For Grease Ducts
2	EF-2	1 - Grease Box
		1 - Full Crating For Exhaust Fans
		1 - 3 Year Extended Motor Warranty
		1 - Fan Base Ceramic Seal - Ship Loose - For Grease Ducts
3	EF-3	1 - Full Crating For Exhaust Fans
		1 - SCR-11 Bird Screen
		1 - 1 15-BDD Damper
		1 - Fan Base Ceramic Seal - Ship Loose - For Grease Ducts
4	MUA-1	1 - 3 Year Extended Motor Warranty
		1 - AC Interlock Relay - 24VAC Coil
		1 - Motorized Backdraft Damper For A2-D Housing
		1 - Full Crating For Commercial Heater
		1 - Low Fire Start
		1 - Inlet Pressure Gauge, 0-35"
		1 - Manifold Pressure Gauge, -5 to 15" wc
		1 - Separate 120V Wiring Package (Required and used only for DCV or Prewire with VFD) - Three Phase Only
		1 - Size 2 Direct Fired Heater Low CFM Profile Package. Used on Heaters under 2500 cfm.
		1 - Freezestat (10)
		1 - 3 Year Extended Motor Warranty
1 - Extra Set of Belts		

FAN ACCESSORIES

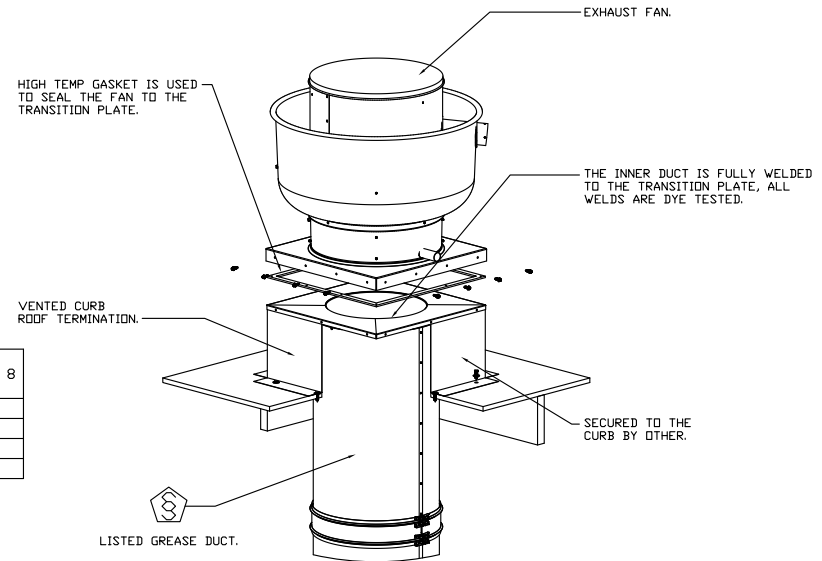
FAN UNIT NO.	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	EF-1	YES						
2	EF-2	YES						
3	EF-3		YES					
4	MUA-1					YES		

CURB ASSEMBLIES

NO.	DN FAN	WEIGHT	ITEM	SIZE
1	# 1	34 LBS	Curb	26.500"W x 26.500"L x 24.000"H 3.000:12.000 Pitch Vented Hinged
2	# 2	41 LBS	Curb	23.000"W x 23.000"L x 24.000"H 3.000:12.000 Pitch Vented Hinged
3	# 3	27 LBS	Curb	19.500"W x 19.500"L x 20.000"H 3.000:12.000 Pitch
4	# 4	88 LBS	Curb	31.000"W x 79.000"L x 24.000"H 3.000:12.000 Pitch Along Width, Right Insulated

FAN SOUND INFORMATION

FAN UNIT NO.	MOTOR	RPM	LWA	SONES	DBA	DISTANCE FT	OCTAVE 1	OCTAVE 2	OCTAVE 3	OCTAVE 4	OCTAVE 5	OCTAVE 6	OCTAVE 7	OCTAVE 8
1	Exhaust	1361	84.2	21	72.7	5	78.1	83.5	89.5	81.5	73.9	71.1	65.2	58.9
2	Exhaust	1097	72.5	10.6	61	5	72.2	75.8	74.1	68.1	65.3	64.9	61.2	54.2
3	Exhaust	1212	69.1	8.4	57.6	5	69	73.4	71.7	65.5	62.2	60.3	53.8	43.8
4	Supply	849	77.2	14	65.7	5	77.9	81.7	77.1	74	72.4	66.9	62.7	57.7



CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

Revise and Resubmit

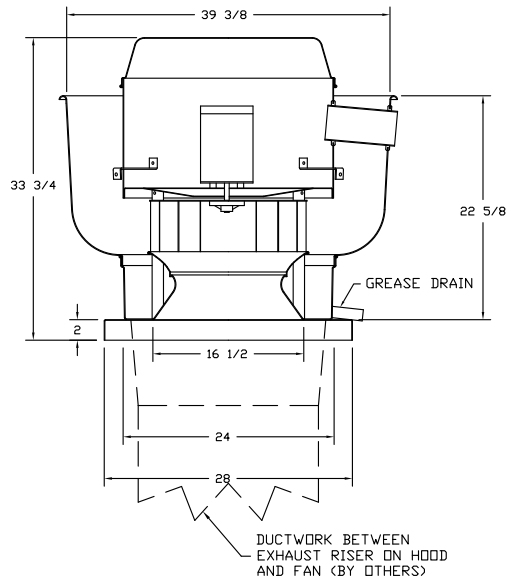
SIGNATURE _____

Your Title _____ Date _____



JOB Salvation Army - Portland	
LOCATION PORTLAND, ME, 04101	
DATE 5/4/2017	JOB # 2824941
DWG # 6	DRAWN BY BFC-21
REV.	SCALE 3/8" = 1'-0"

FAN #1 DU180HFA - EXHAUST FAN (EF-1)



FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST

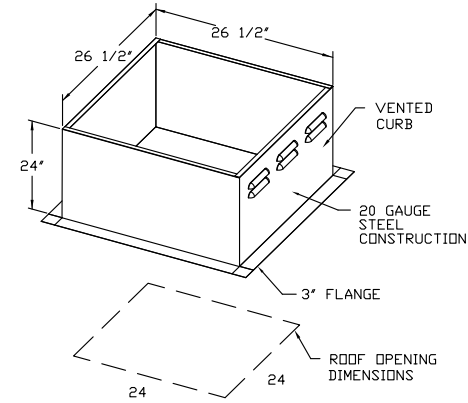
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

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.

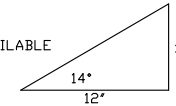
OPTIONS

- GREASE BOX
- FULL CRATING FOR EXHAUST FANS
- 3 YEAR EXTENDED MOTOR WARRANTY
- FAN BASE CERAMIC SEAL - SHIP LOOSE - FOR GREASE DUCTS



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

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



CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

Revise and Resubmit

SIGNATURE _____

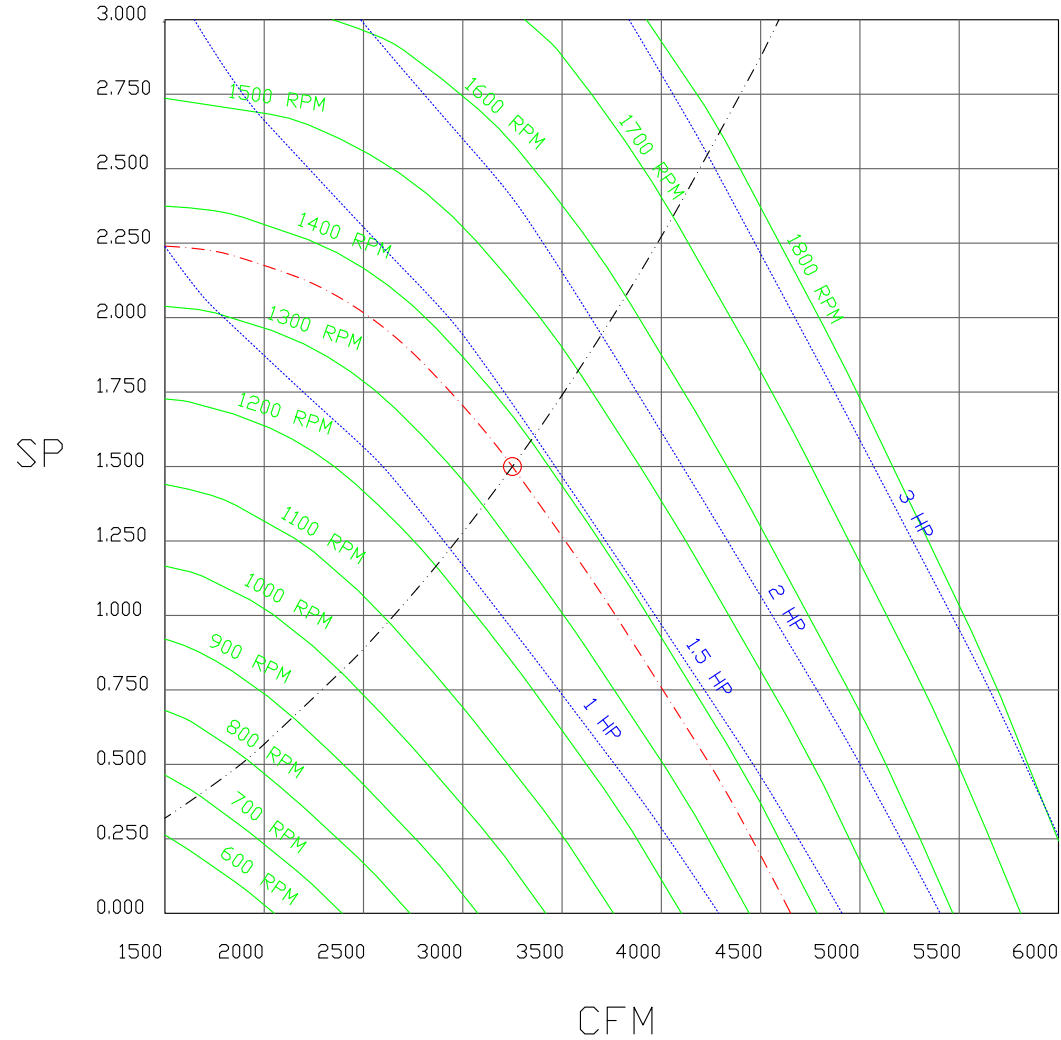
Your Title _____ Date _____



JOB Salvation Army - Portland	
LOCATION PORTLAND, ME, 04101	
DATE 5/4/2017	JOB # 2824941
DWG # 7	DRAWN BY BFC-21
REV.	SCALE 3/8" = 1'-0"

FAN#1 (EF-1) - EXHAUST PERFORMANCE CURVES.

3250 CFM, 1.5 SP @ 1361 RPM and 1.354 BHP at 25 feet and 70 deg F
 * Please note that these curves were adjusted for job specific temperature and altitude.



CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

Revise and Resubmit

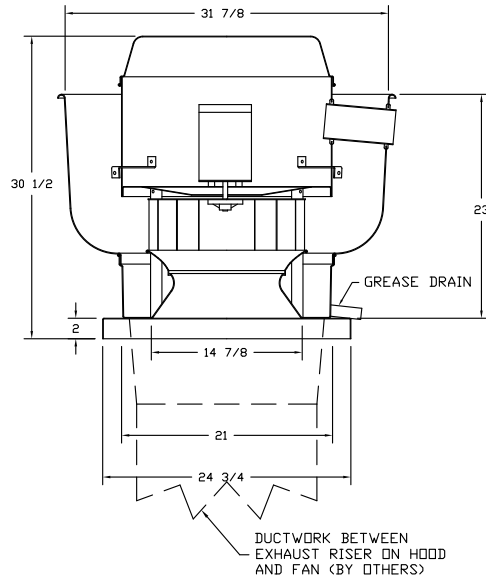
SIGNATURE _____

Your Title _____ Date _____



JOB Salvation Army - Portland	
LOCATION PORTLAND, ME, 04101	
DATE 5/4/2017	JOB # 2824941
DWG # 8	DRAWN BY BFC-21
REV.	SCALE 3/8" = 1'-0"

FAN #2 DU85HFA - EXHAUST FAN (EF-2)



FEATURES:

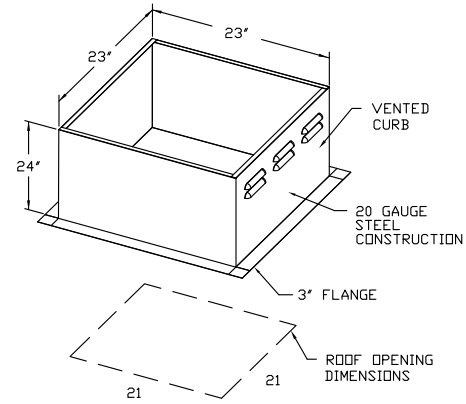
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

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.

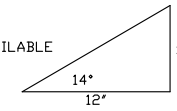
OPTIONS

- GREASE BOX
- FULL CRATING FOR EXHAUST FANS
- 3 YEAR EXTENDED MOTOR WARRANTY
- FAN BASE CERAMIC SEAL - SHIP LOOSE - FOR GREASE DUCTS



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

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



CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

Revise and Resubmit

SIGNATURE _____

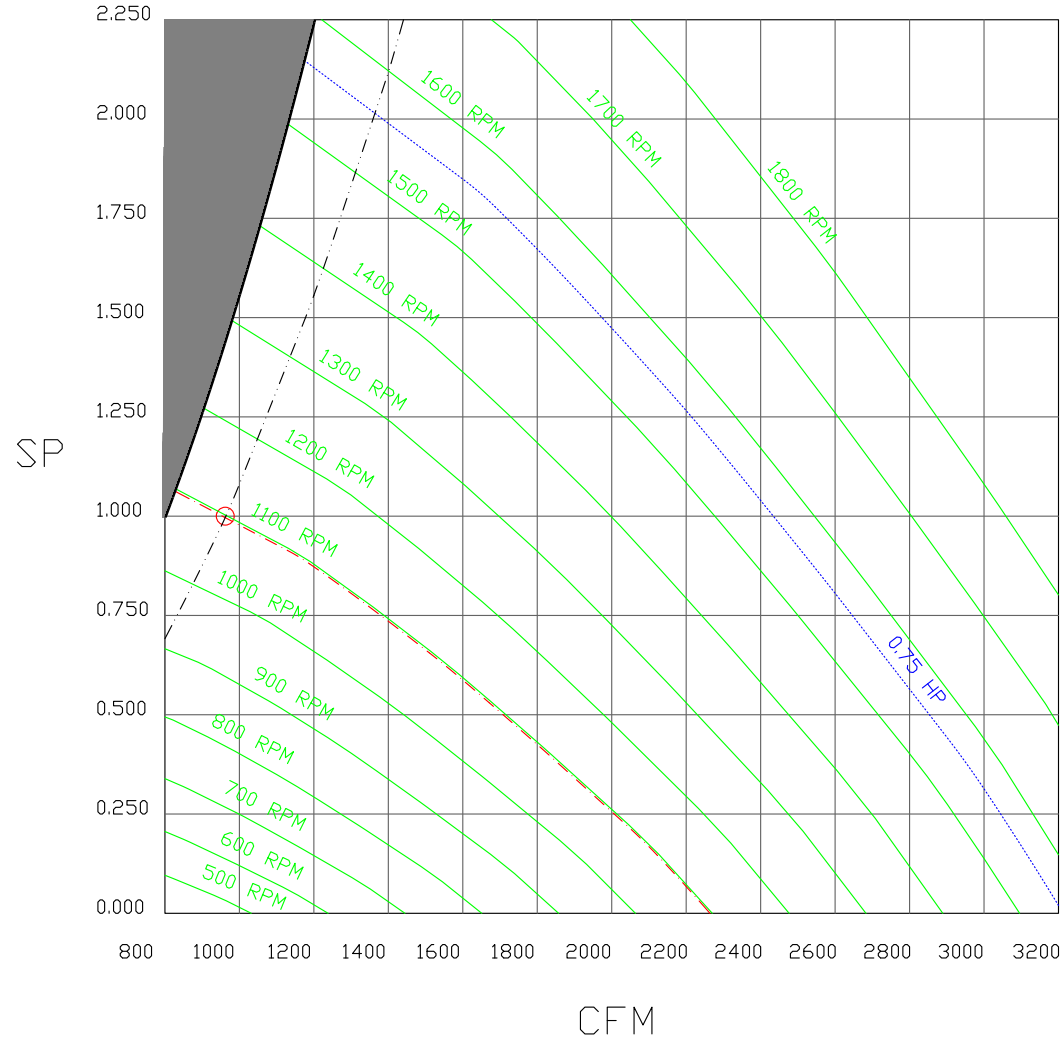
Your Title _____ Date _____



JOB Salvation Army - Portland	
LOCATION PORTLAND, ME, 04101	
DATE 5/4/2017	JOB # 2824941
DWG # 9	DRAWN BY BFC-21
REV.	SCALE 3/8" = 1'-0"

FAN#2 (EF-2) - EXHAUST PERFORMANCE CURVES.

962 CFM, 1 SP @ 1097 RPM and 0.262 BHP at 25 feet and 70 deg F
 * Please note that these curves were adjusted for job specific temperature and altitude.



CUSTOMER APPROVAL TO MANUFACTURE:

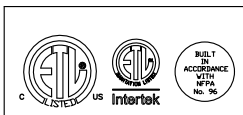
Approved as Noted

Approved with NO Exception Taken

Revise and Resubmit

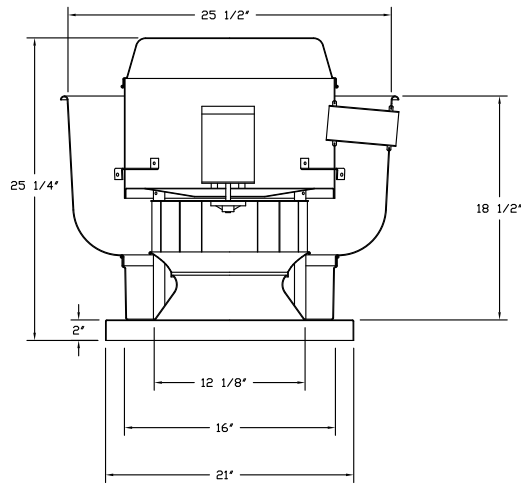
SIGNATURE _____

Your Title _____ Date _____



JOB Salvation Army - Portland	
LOCATION PORTLAND, ME, 04101	
DATE 5/4/2017	JOB # 2824941
DWG # 10	DRAWN BY BFC-21
REV.	SCALE 3/8" = 1'-0"

FAN #3 DU30HFA - EXHAUST FAN (EF-3)

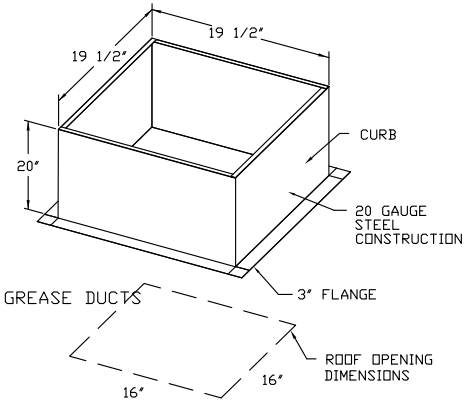


FEATURES:

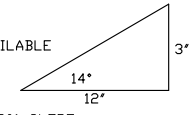
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS
- UL705
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)

OPTIONS

- FULL CRATING FOR EXHAUST FANS
- SCR-11 BIRD SCREEN
- I 15-BDD DAMPER
- FAN BASE CERAMIC SEAL - SHIP LOOSE - FOR GREASE DUCTS
- 3 YEAR EXTENDED MOTOR WARRANTY

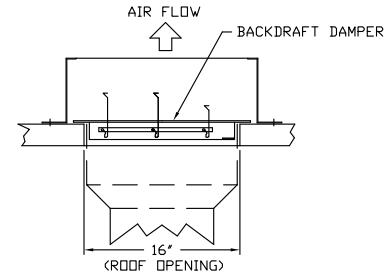


PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.



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

BACKDRAFT DAMPER INSTALLATION



CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

Revise and Resubmit

SIGNATURE _____

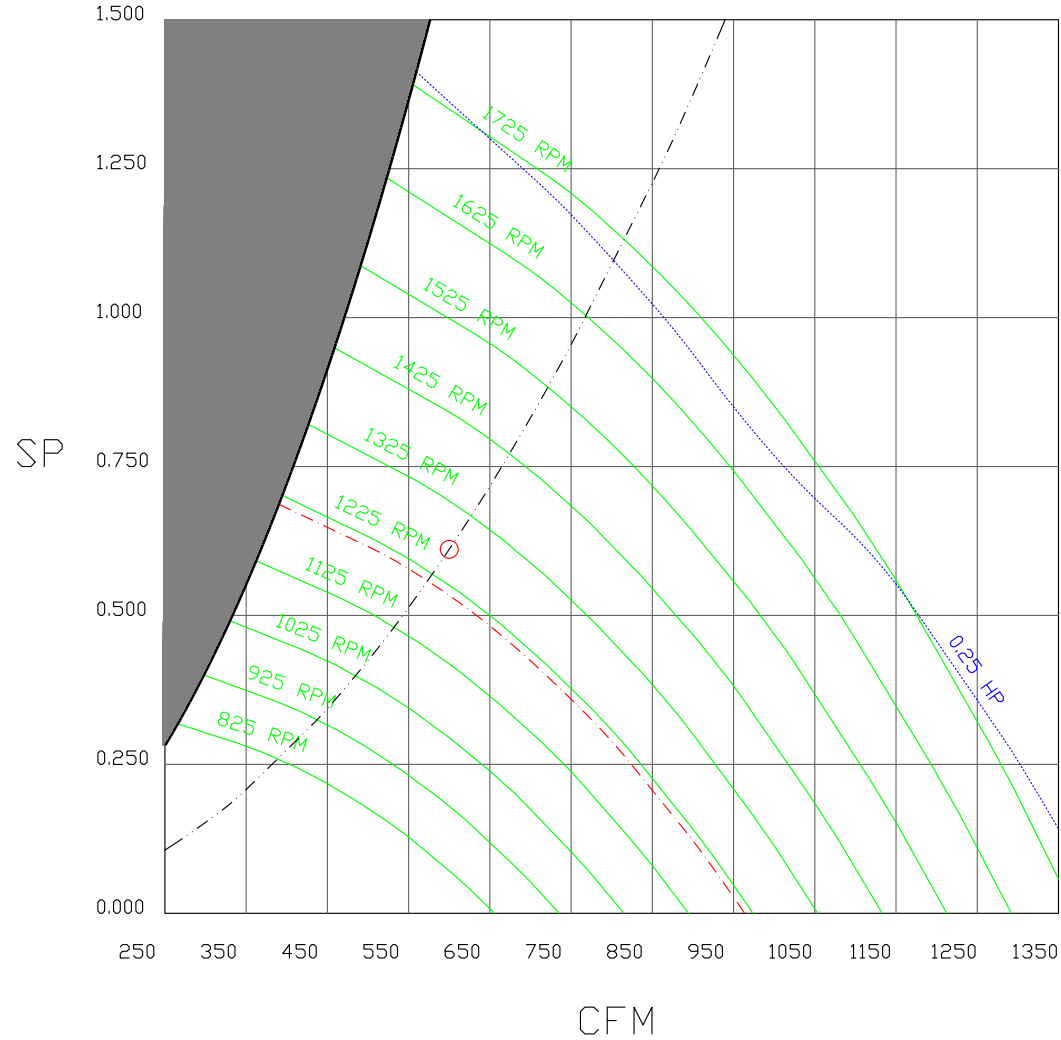
Your Title _____ Date _____



JOB Salvation Army - Portland	
LOCATION PORTLAND, ME, 04101	
DATE 5/4/2017	JOB # 2824941
DWG # 11	DRAWN BY BFC-21
REV.	SCALE 3/8" = 1'-0"

FAN#3 (EF-3) - EXHAUST PERFORMANCE CURVES.

600 CFM, 0.611 SP @ 1212 RPM and 0.092 BHP at 25 feet and 70 deg F
 * Please note that these curves were adjusted for job specific temperature and altitude.



CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

Revise and Resubmit

SIGNATURE _____

Your Title _____ Date _____



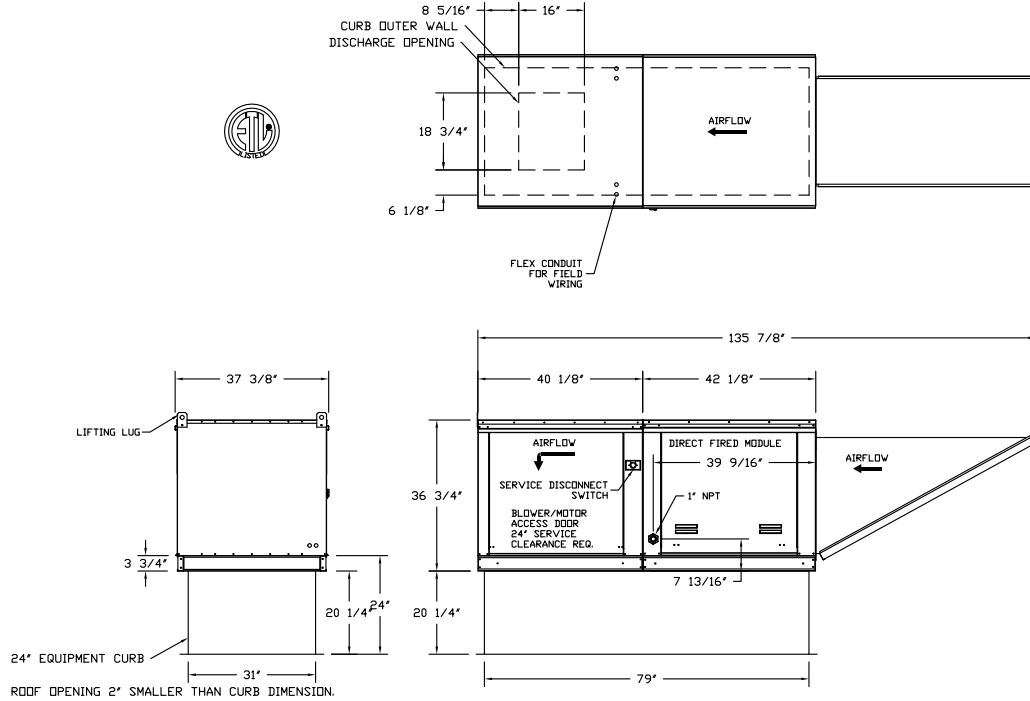
JOB Salvation Army - Portland	
LOCATION PORTLAND, ME, 04101	
DATE 5/4/2017	JOB # 2824941
DWG # 12	DRAWN BY BFC-21
REV.	SCALE 3/8" = 1'-0"

FAN #4 A2-D500-G15 - HEATER (MUA-1)

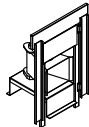
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15' BLOWER
2. INTAKE HOOD WITH EZ FILTERS
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT
4. COOLING INTERLOCK RELAY, 24VAC COIL, 120V CONTACTS, LOCKS OUT BURNER CIRCUIT WHEN AC IS ENERGIZED.
5. MOTORIZED BACK DRAFT DAMPER 22.75" X 24" FOR SIZE 2 STANDARD & MODULAR DIRECT FIRED HEATERS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LF120S ACTUATOR INCLUDED
6. FULL CRATING FOR COMMERCIAL HEATERS FOR SHIPPING.
7. LOW FIRE START, ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
8. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE
9. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC, 2.5" DIAMETER, 1/4" THREAD SIZE
10. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREVIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.
11. PROFILE PLATE CONFIGURATION FOR SIZE 2 DIRECT FIRED UNIT FOR LOW CFM APPLICATIONS.
12. FREEZESTAT WITH 10' SENSOR. FACTORY SET AT 35°F AND 10 MINUTES.
13. 3 YEAR EXTENDED WARRANTY FOR FAN MOTOR. PARTS ONLY; DOES NOT INCLUDE LABOR.
14. EXTRA SET OF V-BELTS. ONLY TO BE ORDERED AS FAN OPTION AT TIME FAN IS ORDERED.

SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 4°F. TEMP. RISE = 71°F.
 BTUS CALCULATED OFF STANDARD AIR DENSITY
 OUTPUT BTUS AT ALTITUDE OF 0.0 ft. = 281876
 INPUT BTUS AT ALTITUDE OF 0.0 ft. = 306387



ROOF OPENING 2" SMALLER THAN CURB DIMENSION.



Direct Fired (DF) Profile Plate Assembly

Direct Fired Profile Plate Specifications

Description:
 Direct fired burners shall have patented GSE Patent No. US6699280, self-adjusting profile plates designed to ensure proper air velocity and pressure drop across the burner. Profile plates shall allow burners to achieve clean combustion by meeting design levels to a maximum of 100% of carbon monoxide (CO) and nitrogen dioxide (NO₂) levels to a maximum of 100%.

Application:
 Spring-loaded burner profile plates are engineered to automatically react to the operation of a fan or blower, without the need for any motors or actuators to mechanically adjust them. With this feature, all DF units are designed for demand control ventilation (DCV) requirements.

Certification:
 All profile plate assemblies shall be included in the DF unit's ETL listing and comply with combined safety standards ANSI Z83.4 and CSA 3.7 (non-recructing DF heaters) and ANSI Z83.8 (recructing DF heaters).

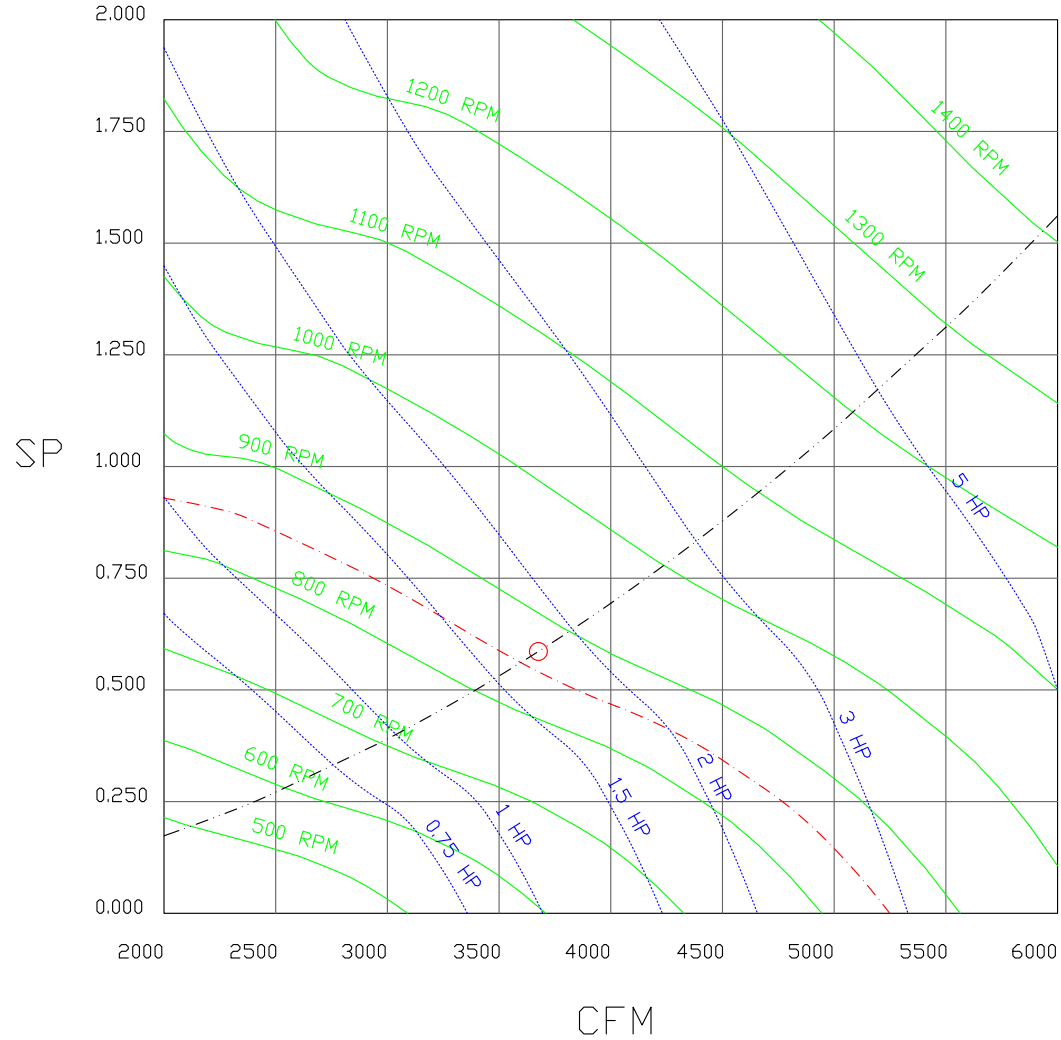
General Construction:
 -Profile plates shall be formed from 099 galvanized steel.
 -Profile plates shall vary in size per unit.
 -Profile plates shall be mounted along the same plane as the discharge of the burner.
 -Design shall incorporate properly torqued, permanently mounted spring hinges.
 -Spring hinges shall be made from plated steel.

CUSTOMER APPROVAL TO MANUFACTURE:	
Approved as Noted	<input type="checkbox"/>
Approved with NO Exception Taken	<input type="checkbox"/>
Revise and Resubmit	<input type="checkbox"/>
SIGNATURE _____	
Your Title _____	Date _____

  	CAPTIVEAIRE	JOB Salvation Army - Portland LOCATION PORTLAND, ME, 04101 DATE 5/4/2017 JOB # 2824941 DWG # 13 DRAWN BY BFC-21 REV. SCALE 1/4" = 1'-0"
--	-------------	--

FAN#4 (MUA-1) - HEATER PERFORMANCE CURVES.

3676 CFM, 0.586 SP @ 849 RPM and 1.688 BHP at 25 feet and 75 deg F
 * Please note that these curves were adjusted for job specific temperature and altitude.



CUSTOMER APPROVAL TO MANUFACTURE:

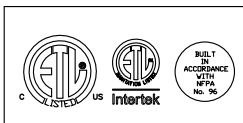
Approved as Noted

Approved with NO Exception Taken

Revise and Resubmit

SIGNATURE _____

Your Title _____ Date _____



JOB Salvation Army - Portland	
LOCATION PORTLAND, ME, 04101	
DATE 5/4/2017	JOB # 2824941
DWG # 14	DRAWN BY BFC-21
REV.	SCALE 3/8" = 1'-0"

System Design Verification (SDV)

If ordered, CAS Service will perform a System Design Verification (SDV) once all equipment has had a complete start up per the Operation and Installation Manual. Typically, the SDV will be performed after all inspections are complete.

Any field related discrepancies that are discovered during the SDV will be brought to the attention of the general contractor and corresponding trades on site. These issues will be documented and forwarded to the appropriate sales office. If CAS Service has to resolve a discrepancy that is a field issue, the general contractor will be notified and billed for the work. Should a return trip be required due to any field related discrepancy that cannot be resolved during the SDV, there will be additional trip charges.

During the SDV, CAS Service will address any discrepancy that is the fault of the manufacturer. Should a return trip be required, the general contractor and appropriate sales office will be notified. There will be no additional charges for manufacturer discrepancies.

CUSTOMER APPROVAL TO MANUFACTURE:

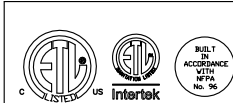
Approved as Noted

Approved with NO Exception Taken

Revise and Resubmit

SIGNATURE _____

Your Title _____ Date _____

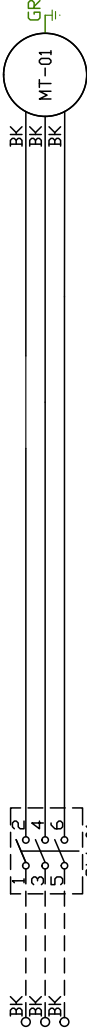


CAPTIVEAIRE

<i>JOB</i> Salvation Army - Portland	
<i>LOCATION</i> PORTLAND, ME, 04101	
<i>DATE</i> 5/4/2017	<i>JOB #</i> 2824941
<i>DWG #</i> 15	<i>DRAWN BY</i> BFC-21
<i>REV.</i>	<i>SCALE</i> 3/8" = 1'-0"

Installed Options

1



Label	Component Identification	Location
MT-01	Fan Motor	[20]
SW-01	Main disconnect switch	[20]

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

EXHAUST MOTOR_INFO
3HP-208V-3P-9.5FLA

ELECTRICAL INFORMATION
MOTOR/CTRL MOP: 119A
MOTOR/CTRL MOP: 20A

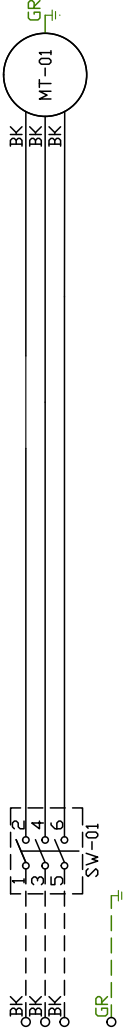
NOTES
- - - DENOTES FIELD WIRING
_ _ _ DENOTES INTERNAL WIRING

WIRE COLOR

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

Installed Options

1



Label	Component Description	Location
MT-01	Fan Motor	[20]
SW-01	Main disconnect switch	[20]

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

EXHAUST MOTOR_INFO
0.75HP-208V-3P-2.6FLA

ELECTRICAL INFORMATION
MOTOR/CTRL MOP: 39A
MOTOR/CTRL 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	

Exhaust Fan Wiring

JOB

2824941 - Salvation Army - Portland

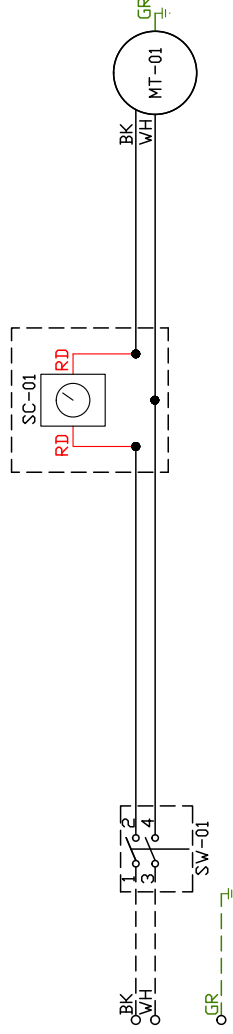
DRAWING NUMBER EXH2824941-3

SHIP DATE 5/4/2017

MODEL DU30HFA

Installed Options

Speed Control



Component Identification Location

Label	Description	Location
MT-01	Fan Motor	[20]
QD-01	Quick Disconnect	[20]
SC-01	Speed Control	[10]
SW-01	Main disconnect switch	[20]

MOTOR_INFO
EXHAUST 0.25HP-115V-IP-38FLA

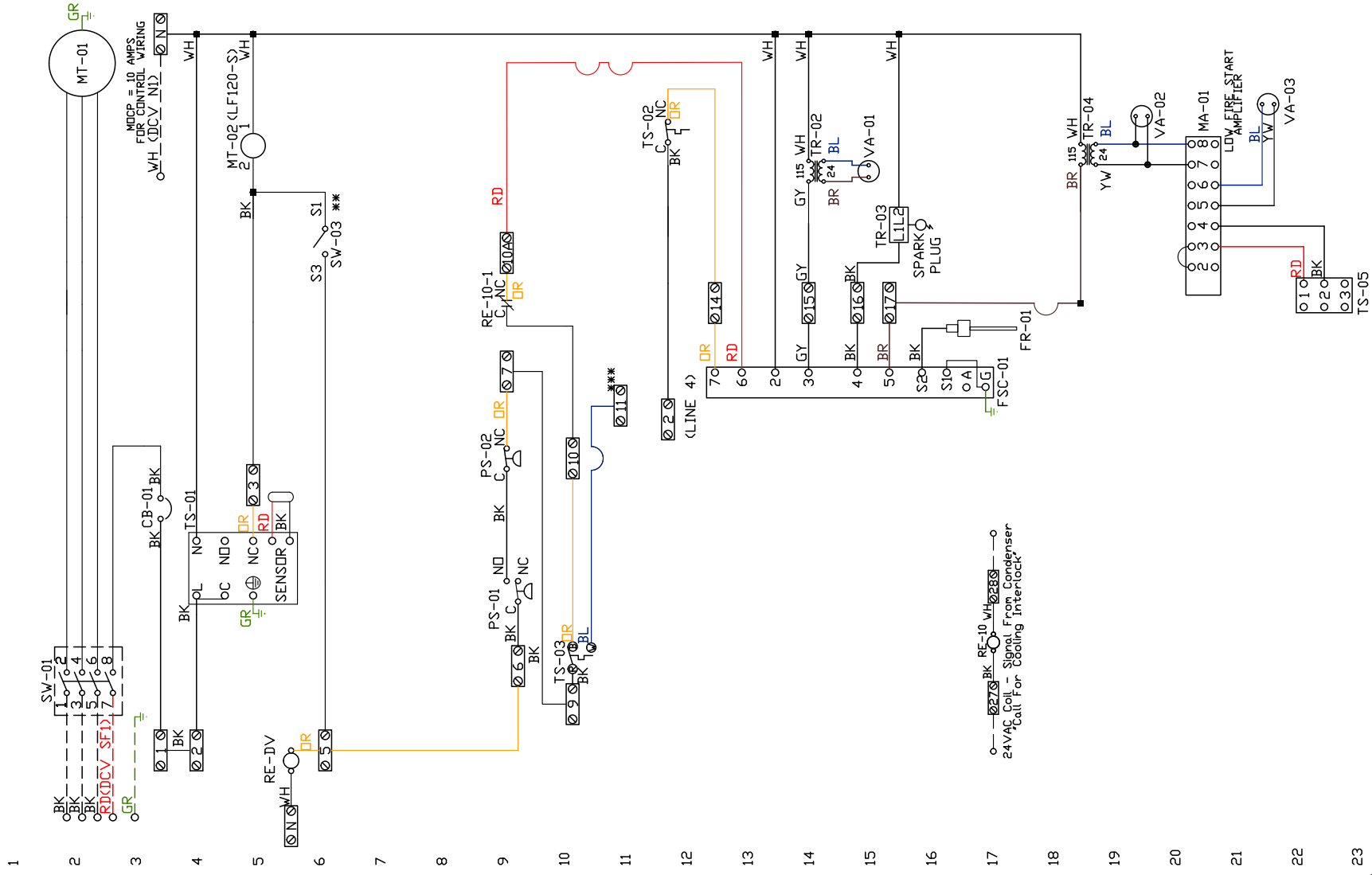
ELECTRICAL INFORMATION
MOTOR/CTRL MOP: 48A
MOTOR/CTRL MOP: 15A

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		

ATTENTION ELECTRICIAN
 DROP FOR DISCONNECT CONNECTION WIRE TO YW C11ND
 IS FACTORY SUPPLIED IN DCV RE-DV-1
 CONNECT POWER TO THE DROP (D3&D7 IN EMSPLUS)



Installed Options
 Motorized Back Draft Damper
 Freeze Stat
 Discharge Temp. Control

DCV Wiring
 24V AC Interlock Relay

Label	Description	Location
CB-01	Circuit breaker (comp)	[3]
FR-01	Flame rod	[16]
FSC-01	Fireye FSC	[11-14]
MA-01	Modulating amplifier	[19]
MT-01	Supply motor	[2]
MT-02	Damper motor	[5]
PS-01	Low Air-flow Switch	[9]
PS-02	High Air-flow Switch	[9]
RE-DV	DCV Relay	[10E5]
RE-10	AC Interlock Relay	[10D17]

SW-01	Main disconnect switch	[2]
SW-03	Damper end limit switch	[4]
TR-01	Power transformer(200v)	[3]
TR-02	Power transformer(20v)	[2]
TR-03	Ignition transformer	[14]
TR-04	Power transformer(20v)	[17]
TS-01	Freeze stat	[4-5]
TS-02	High temp limit switch	[10]
TS-03	Intake Air Sensor	[10]
TS-05	Discharge Air Sensor	[21]

VA-01	Pilot gas valve	[13]
VA-02	Main gas valve	[18]
VA-03	Modulating gas valve	[20]

SUPPLY MOTOR INFO
 2HP-208V-3P-61FLA

ELECTRICAL INFORMATION
 MOTOR ELECTRICAL DATA
 CONTROL CIRCUIT MCA: 7.20A
 MOTOR CIRCUIT MOP: 15.20A
 CONTROL CIRCUIT MOP: 15A

NOTES
 --- DENOTES FIELD WIRING
 --- DENOTES INTERNAL WIRING

*** TERMINALS S4 AND S6 USED ON NF & AF SERIES ACTUATORS
 *** TERMINAL 11 PROVIDES COOLING CONNECTION

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

SOCKET STYLE
 --- FIELD WIRING
 --- INTERNAL WIRING

NO	NO	NO
4	2	1
3	1	1
6	7	5

Installation Wiring

JOB

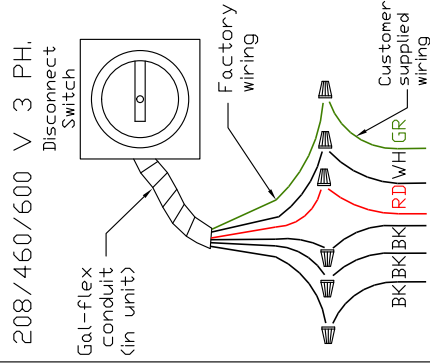
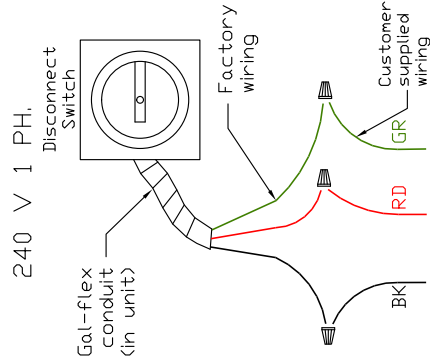
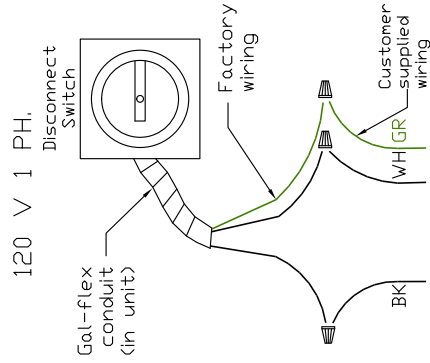
2824941 - Salvation Army - Portland

DRAWING NUMBER RP2824941-4

SHIP DATE 5/4/2017

MODEL A2-D.500-G15

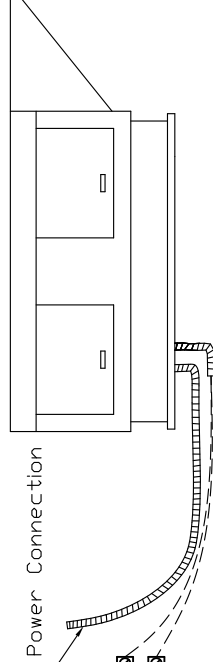
Installed Options
DCV Connections



POWER FROM DEDICATED BREAKER

See above details. Power Connection

D3 IN HEATER TO IL1A IN DCV
D7 IN HEATER TO IL1B IN DCV
WIRE TO D135
DCV D175

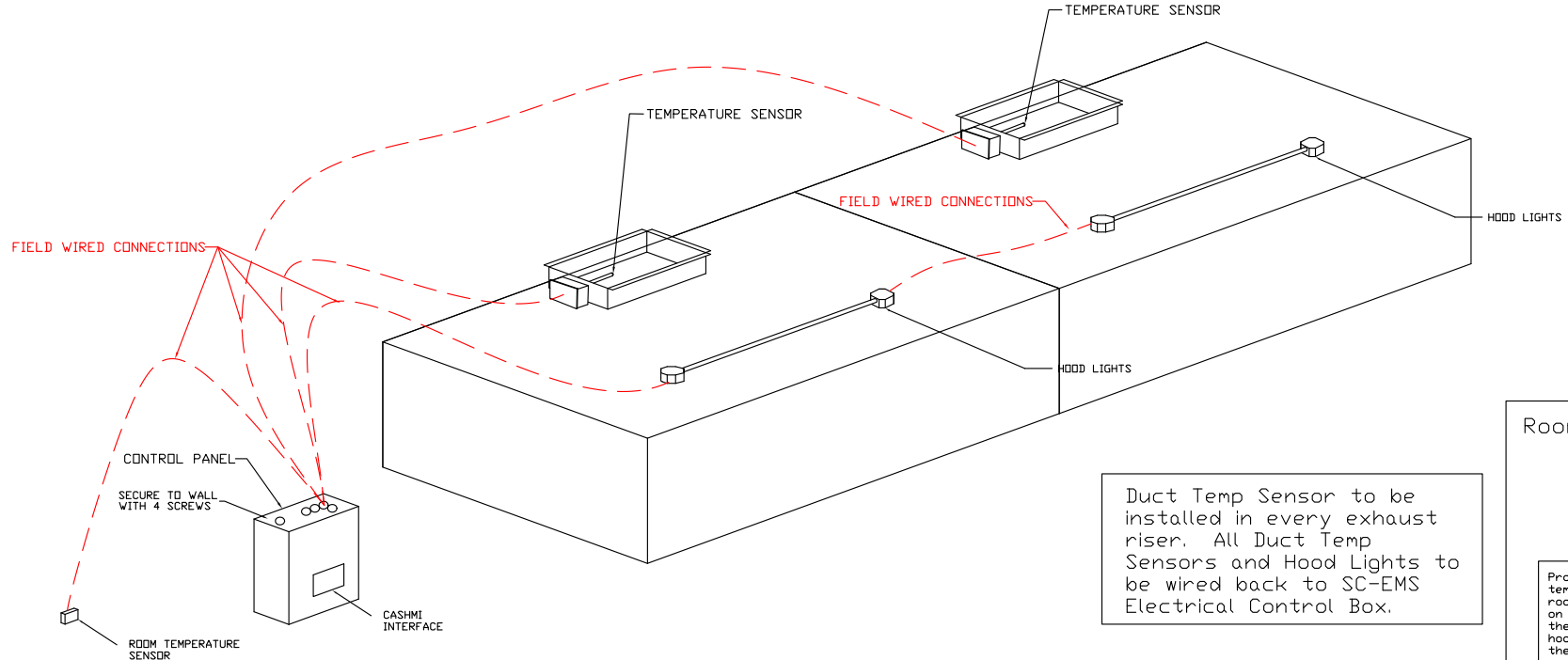


NOTES

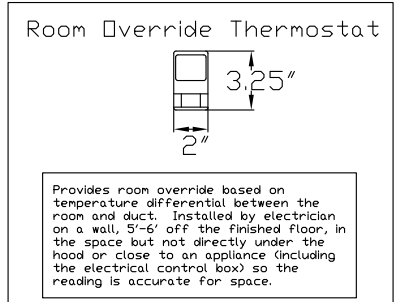
- WIRE COLOR
- BK - BLACK
 - BL - BLUE
 - BR - BROWN
 - OR - ORANGE
 - RD - RED
 - WH - WHITE
 - YW - YELLOW
 - GR - GREEN
 - GY - GRAY
 - PR - PURPLE
 - PK - PINK

ELECTRICAL PACKAGES - Job#2824941

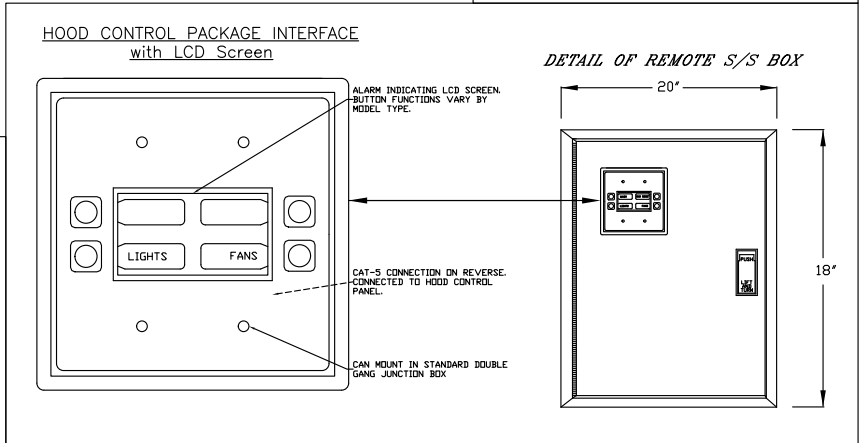
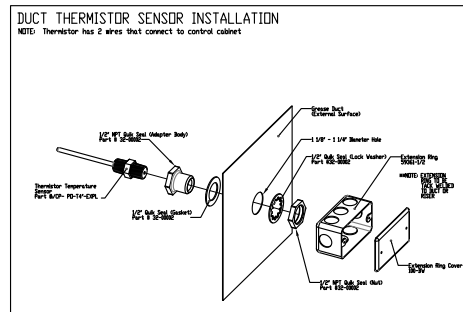
NO.	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED							
				LOCATION	QUANTITY		FAN TAG	TYPE	? H.P.	VOLT	FLA			
1		DCV-2111	Wall Mount In SS Box	05 - SS Wall Mount Box	1 Light 1 Fan	Smart Controls DCV	EF-1	Exhaust	3	3.000	208	9.5		
							EF-2	Exhaust	3	0.750	208	2.6		
							MUA-1	Supply	3	2.000	208	6.1		



Duct Temp Sensor to be installed in every exhaust riser. All Duct Temp Sensors and Hood Lights to be wired back to SC-EMS Electrical Control Box.



TYPICAL SC-ENERGY MANAGEMENT SYSTEM WITH REMOTE MOUNTED PANEL



CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

Revise and Resubmit

SIGNATURE _____

Your Title _____ Date _____



JOB Salvation Army - Portland	
LOCATION PORTLAND, ME, 04101	
DATE 5/4/2017	JOB # 2824941
DWG # 21	DRAWN BY BFC-21
REV.	SCALE 3/8" = 1'-0"

Demand Control Ventilation Hood Control Panel Specifications:

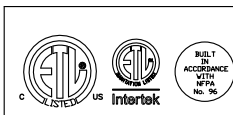
- Controls shall be listed by ETL (UL 508A) and shall comply with demand ventilation system turndown requirements outlined in IECC 403.2.8 (2015).
- The control enclosure shall be NEMA 1 rated and listed for installation inside of the exhaust hood utility cabinet. The control enclosure may be constructed of stainless steel or painted steel.
- Temperature probe(s) located in the exhaust duct riser(s) shall be constructed of stainless steel.
- A digital controller shall be provided to activate the hood exhaust fans dynamically based on a fixed differential between the ambient and duct temperatures sensors. This function shall meet the requirements of IMC 507.2.1.1
- A digital controller shall provide adjustable hysteresis settings to prevent cycling of the fans after the cooking appliances have been turned off and/or the heat in the exhaust system is reduced.
- A digital controller shall provide an adjustable minimum fan run-time setting to prevent fan cycling.
- Variable Frequency Drives (VFDs) shall be provided for fans as required. The digital controller shall modulate the VFDs between a minimum setpoint and a maximum setpoint on demand. The duct temperature sensor input(s) to the digital controller shall be used to calculate the speed reference signal.
- The VFD speed range of operation shall be from 0% to 100% for the system, with the actual minimum speed set as required to meet minimum ventilation requirements.
- An internal algorithm to the digital controller shall modulate supply fan VFD speed proportional to all exhaust fans that are located in the same fan group as the supply fan.
- The system shall operate in PREP MODE during light cooking load or COOL DOWN MODE when sufficient heat remains underneath the hood system after cooking operations have completed. Operation during either of these periods will disable the supply fans and provide an exhaust fan speed that is equal to the minimum ventilation requirement.
- A digital controller shall disable the supply fan(s), activate the exhaust fan(s), activate the appliance shunt trip, and disable an electric gas valve automatically when fire condition is detected on a covered hood.
- A digital controller shall allow for external BMS fan control via Dry Contact (external control shall not override fan operation logic as required by code).
- An LCD interface shall be provided with the following features:
 - a. On/Off push button fan & light switch activation
 - b. Integrated gas valve reset for electronic gas valves (no reset relay required)
 - c. VFD Fault display with audible & visual alarm notification
 - d. Duct temperature sensor failure detection with audible & visual alarm notification
 - e. Mis-wired duct temperature sensor detection with audible & visual alarm notification
 - f. A single low voltage Cat-5 RJ45 wiring connection
 - g. An energy savings indicator that utilizes measured kWh from the VFDs

Sequence of Operations:

The hood control panel is capable of operating in one or more of the following states at any given time:

- Automatic: The system operates based on the differential between room temperature and the temperature at the hood cavity or exhaust duct collar. Fans activate at a configurable temperature differential threshold. Depending on the job configuration each fan zone can be configured as static or dynamic. These terms refer to whether a variable motor (such as EC Motors or VFD driven motors) modulate with temperature. If the panel is equipped with variable speed fans and the zone is defined as "dynamic", these will modulate within a user-defined range based on the temperature differential. Panels equipped with variable speed fans and a fan zone defined as "static", fans will run at a set speed calculated for the drive. Demand control ventilation systems are capable of modulating exhaust and make up air fan speeds per the requirements outlined in IECC 403.2.8.
- Manual: The system operates based on human input from an HMI.
- Schedule: A weekly schedule can be set to run fans for a specified period throughout the day. There are three occupied times per day to allow for the user to set up a time that is suitable to their needs. Any time that is within the defined occupied time, the system will run at modulation mode and follow the fan procedure algorithm based on temperature during this time. During unoccupied time, the system will have an extra offset to prevent unintended activation of the system during a time where the system is not being occupied.
- Other: The system operates based on the input from an external source (DDC, BMS or hard-wired interlock)

CUSTOMER APPROVAL TO MANUFACTURE:	
Approved as Noted	<input type="checkbox"/>
Approved with NO Exception Taken	<input type="checkbox"/>
Revise and Resubmit	<input type="checkbox"/>
SIGNATURE _____	
Your Title _____	Date _____



<i>JOB</i> Salvation Army - Portland	
<i>LOCATION</i> PORTLAND, ME, 04101	
<i>DATE</i> 5/4/2017	<i>JOB #</i> 2824941
<i>DWG #</i> 22	<i>DRAWN BY</i> BFC-21
<i>REV.</i>	<i>SCALE</i> 3/8" = 1'-0"

JOB NO
2824941

MODEL NUMBER
DCV-2111

DRAWN BY
INSTALL

DESCRIPTION OF OPERATION:
Demand Control Ventilation, w/ control for 2 Exhaust Fans, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fans modulate based on duct temperature. INVERTER DUTY THREE PHASE MOTOR REQUIRED! Room temperature sensor shipped loose for field installation. Verify distance between VFD and Motor; additional cost could apply if distance exceeds 50 feet.

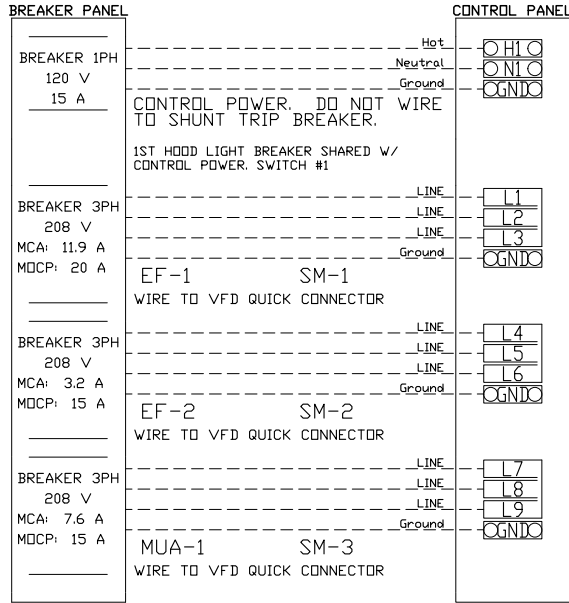
JOB NAME
Salvation Army - Portland

DATE
5/4/2017

DWG NO
ECP #1-1

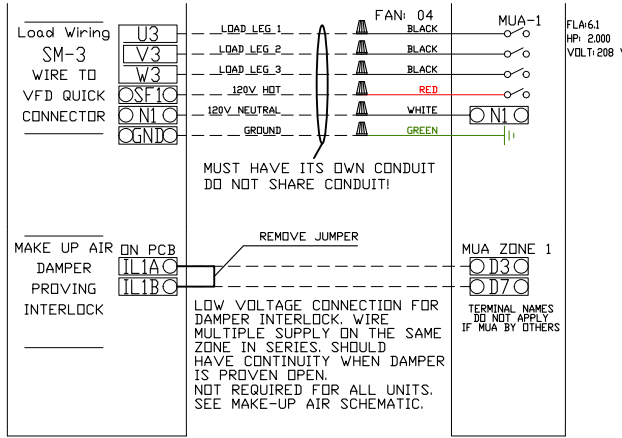
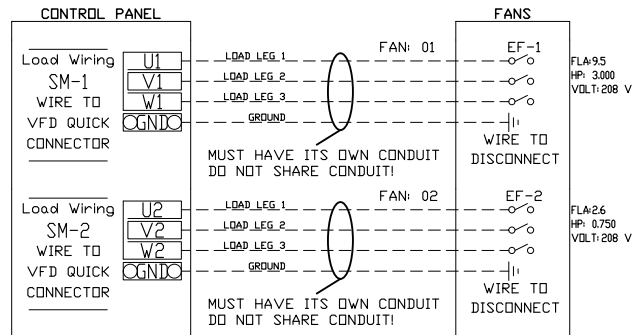
BREAKER PANEL TO CONTROL PANEL

Responsibility: Electrician
BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED



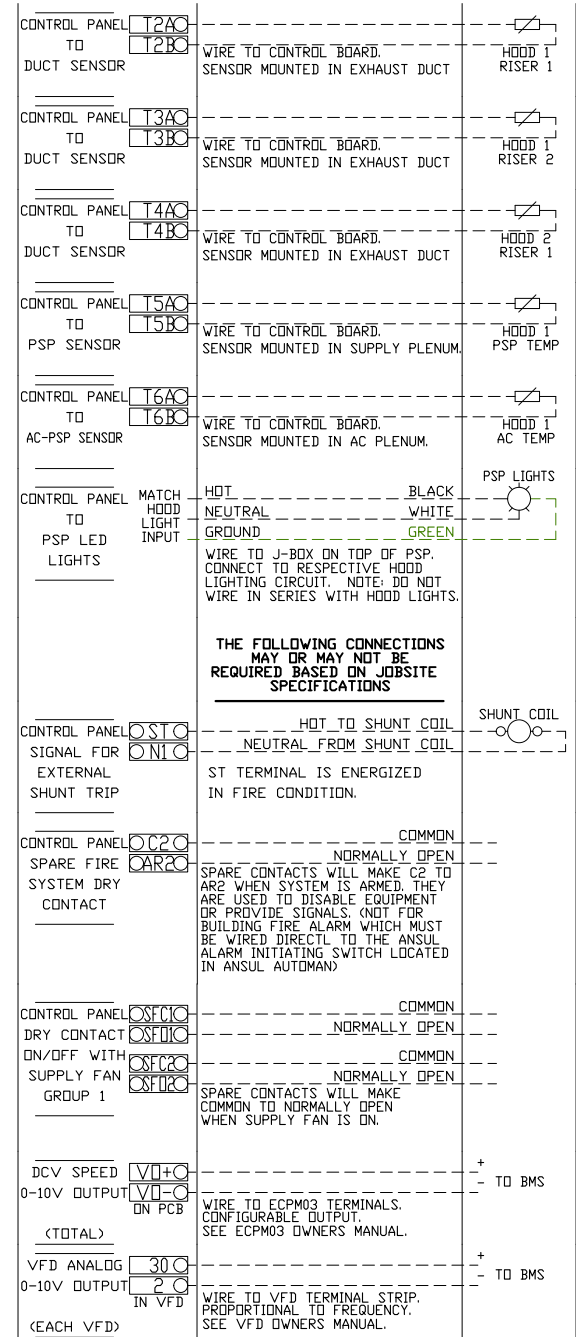
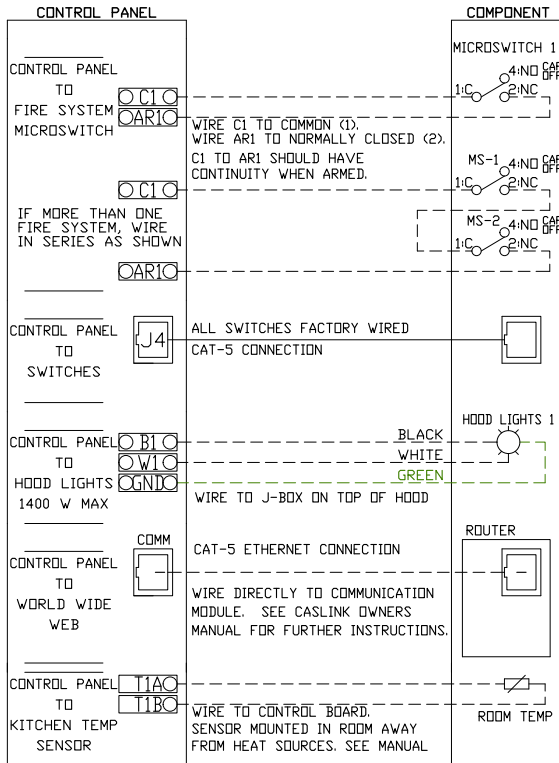
CONTROL PANEL TO FANS

Responsibility: Electrician



CONTROL PANEL TO ACCESSORY ITEMS

Responsibility: Electrician



JOB NO
2824941

MODEL NUMBER
DCV-2111

DRAWN BY

SCHEMATIC TYPE
INSTALL

DESCRIPTION OF OPERATION:

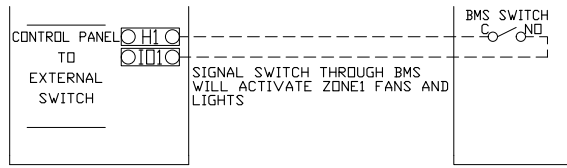
Demand Control Ventilation, w/ control for 2 Exhaust Fans, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fans modulate based on duct temperature. INVERTER DUTY THREE PHASE MOTOR REQUIRED! Room temperature sensor shipped loose for field installation. Verify distance between VFD and Motor; additional cost could apply if distance exceeds 50 feet.

JOB NAME
Salvation Army - Portland

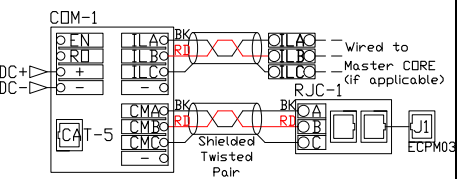
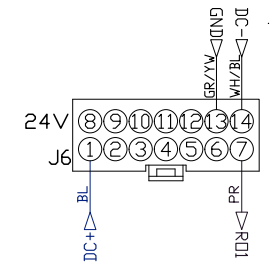
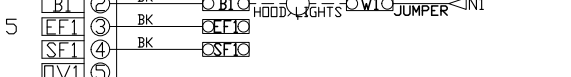
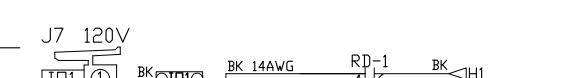
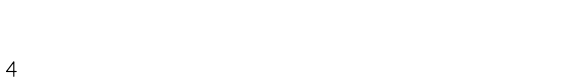
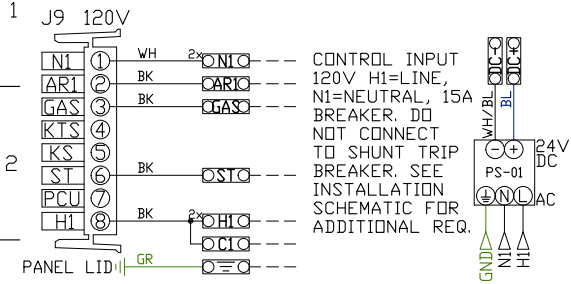
DATE
5/4/2017

DWG NO
ECP #1-2

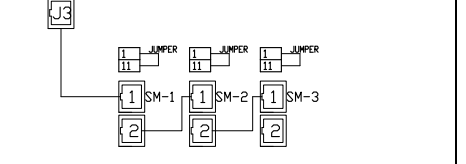
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24



UNLESS SPECIFIED OTHERWISE, ALL FACTORY AC WIRING 16 AWG. ALL FACTORY DC WIRING 18 AWG.

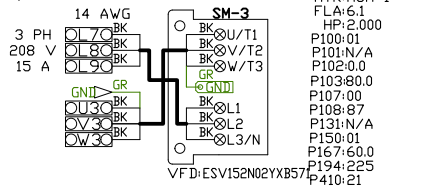
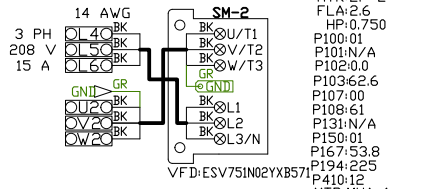
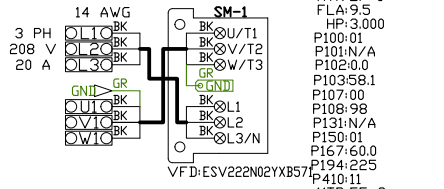


NOTE: All items on ECPM03 J3 line to be daisy chained from one component to the next, with EDL120A at end of line. Place PN: EDL120A in empty RJ45 port.
ECPM03/DAISY CHAIN



MOTOR POWER CIRCUIT

NOTE: IF VFD HAS 1PH 240V INPUT, USE L1 & L2 ONLY. IF VFD HAS 1PH 120V INPUT, USE L1 & N ONLY.



FACTORY WIRING SCHEMATIC CIRCUIT BOARDS ECPM03

DCV Rev. 2.06.00
HMI Rev. 2.06.00

RA-x	120 VAC RELAY	RD-x	24 VDC RELAY
NO	4 3	NO	4 3
NC	2 1	NC	2 1
COIL	8 7	COIL	8 7
COM	6 5	COM	6 5

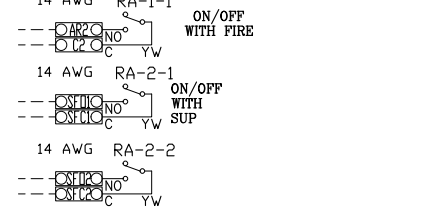
COMPONENT LIST

LABEL	DESCRIPTION
ST-X	Starter PN-varies
DL-X	Overload PN-varies
C-X	Contactors PN-varies
PS-1	Power Sup. 24VDC PN-MDP18-24A-1C
RA-x	120V Relay DPDT PN-34.110.0184.0
RD-x	24VDC Light Relay PN-34.110.0186.0
RJC-x	RJ45 to Twist Pair PN:RJ45_M08BUS_CONV
CDM-1	CASLink MODULE PN:CDM01

LEGEND

--- FIELD WIRING
--- FACTORY WIRING
BK- BLACK YW- YELLOW
BL- BLUE GY- GREY
BR- BROWN PR- PURPLE
OR- ORANGE RD- RED
WH- WHITE GR- GREEN
OR/BL- OR/BL STRIPE
BL/RD- BL/RD STRIPE
RD/GN- RD/GN STRIPE
WH/BL- WH/BL STRIPE

DRY CONTACTS (SHOWN DE-ENERGIZED)



JOB NAME

Salvation Army - ...

DRAWING TITLE

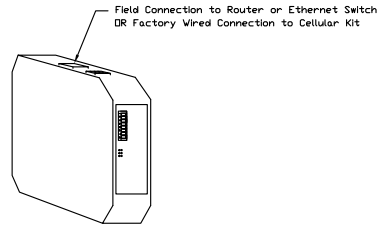
DCV-2111

DESCRIPTION OF OPERATION

Demand Control Ventilation, w/ control for 2 Exhaust Fans; 1 Supply Fan; Exhaust on in Fire; Lights out in Fire; Fans modulate based on duct temperature. INVERTER DUTY THREE PHASE MOTOR REQUIRED! Room temperature sensor shipped loose for field installation. Verify distance between VFD and Motor; additional cost could apply if distance exceeds 50 feet.

JOB NO	DRAWN BY
2824941	
TYPE	DATE
FACTORY	5/4/2017

DWG NO ECP #1-3



CASlink Monitor and Control

- Hood control panel to support communications to cloud-based Building Management System.
- Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.
- Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.
- Hood control panel to allow remote changes to system setting such as: VFD Frequencies, ECM speeds, temperature set points, fan and wash schedules, etc.

MONITORING AND CONTROL POINTS LIST

DCV Packages	Function	SC Packages	Function
Room Temperature	MONITOR	Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR	Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR	MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR	Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR	Controller Faults	MONITOR
Fan Amperage	MONITOR	Fan Faults	MONITOR
Fan Power	MONITOR	Fan Status	MONITOR
VFD Faults	MONITOR	PCU Faults	MONITOR
Controller Faults	MONITOR	PCU Filter Clog Percentages	MONITOR
Fan Faults	MONITOR	Fire Condition	MONITOR
Fan Status	MONITOR	CDRE Fire System	MONITOR
PCU Faults	MONITOR	Building Pressures	MONITOR
PCU Filter Clog Percentages	MONITOR	Fans Button(s)	MONITOR & CONTROL
Fire Condition	MONITOR	Lights Button(s)	MONITOR & CONTROL
CDRE Fire System	MONITOR	Wash Button	MONITOR & CONTROL
Building Pressures	MONITOR		
Prep Time Button	MONITOR & CONTROL		
Fans Button	MONITOR & CONTROL		
Lights Button	MONITOR & CONTROL		
Wash Button	MONITOR & CONTROL		

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

Revise and Resubmit

SIGNATURE _____

Your Title _____ Date _____



<i>JOB</i> Salvation Army - Portland	
<i>LOCATION</i> PORTLAND, ME, 04101	
<i>DATE</i> 5/4/2017	<i>JOB #</i> 2824941
<i>DWG #</i> 26	<i>DRAWN BY</i> BFC-21
<i>REV.</i>	<i>SCALE</i> 3/8" = 1'-0"