

EXHAUST FAN INFORMATION – Job#4392068

FAN UNIT NO	TAG	FAN UNIT MODEL #	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	Ø	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1		VXB14	2500	0.500	1196	ODP	1.000	0.5240	3	208	3.1	791 FPM	168	14.8

FAN OPTIONS

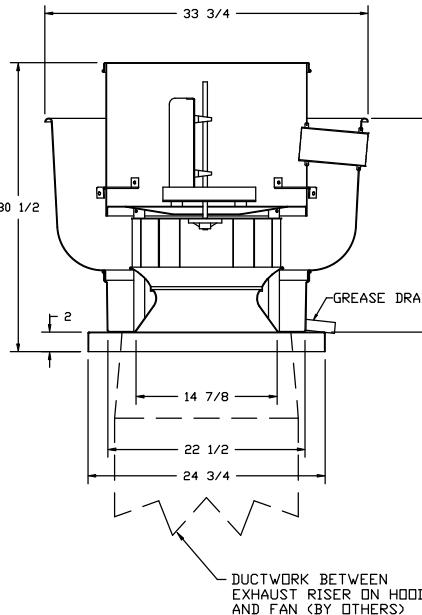
FAN UNIT NO	TAG	OPTION (Qty - Descr)
1		1 - Grease Box
		1 - Full Crating For Exhaust Fans
		1 - Fan Base Ceramic Seal - Installed At Plant - For Grease Ducts
		1 - VAV Package w/ Manual Control (VFD Included)

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST		SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER
1	YES						

CURB ASSEMBLIES

NO	ON FAN	WEIGHT	ITEM	SIZE
1		24 LBS	Exhaust Adapter	From 26.000"sq To 23.000"sq x 24.000"H

FAN #1 VXB14 – EXHAUST FAN

FEATURES:

- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762 AND ULC-S645
- 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 (326°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.
- FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.
- VAV PACKAGE W/ MANUAL CONTROL (VFD INCLUDED).



Ventilation Direct

JOB The Pony	LOCATION BURNABY, BC,
DATE 6/23/2020	JOB # 4392068
DWG # 1	DRAWN BY
REV.	SCALE 3/8" = 1'-0"



GREASE DUCT & CHIMNEY SPECIFICATIONS:

PROVIDE GREASE DUCT EQUAL TO VENTILATION DIRECT MODEL "VDW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "VDW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "VDW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURE'S INSTALLATION GUIDE.

PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURE'S LISTING MODEL "VDW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO VENTILATION DIRECT MODEL "VDW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

CUSTOMER APPROVAL TO MANUFACTURE:

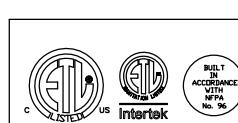
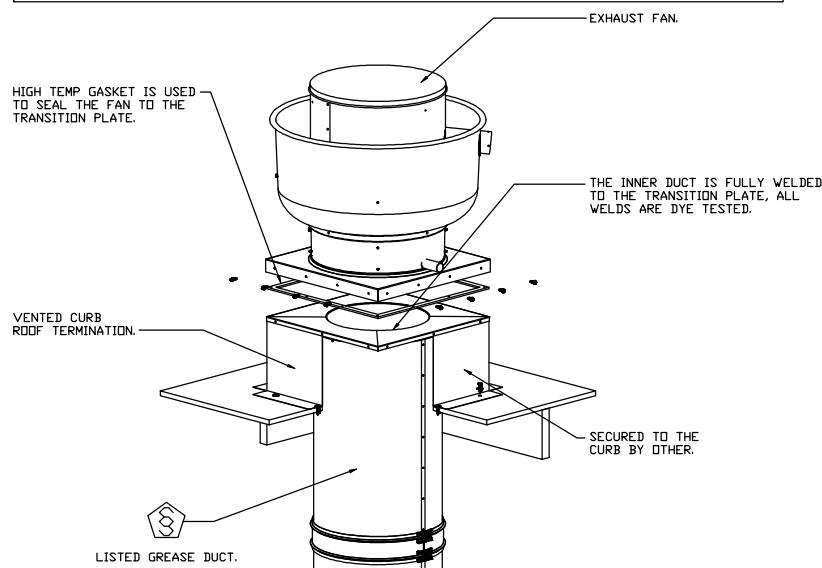
Approved as Noted

Approved with NO Exception Taken

Revise and Resubmit

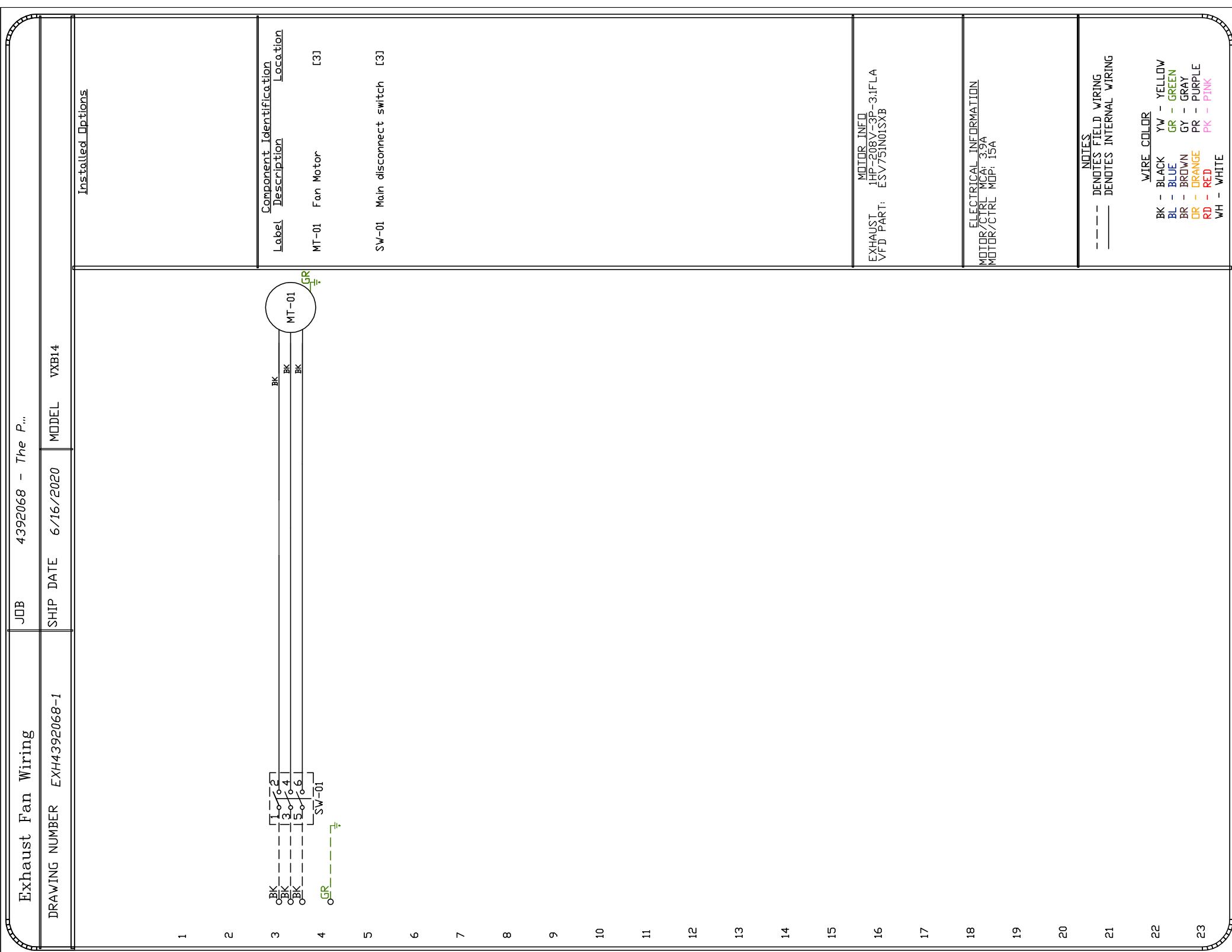
SIGNATURE _____

Your Title _____ Date _____



Ventilation  Direct

JOB	The Pony
LOCATION	BURNABY, BC
DATE	6/23/2020
DWG #	4392068
DRAWN BY	
REV.	
SCALE	3/8" = 1'-0"



VFD Wiring

DRAWING NUMBER VFD4392068-1

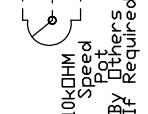
JOB 4392068 - The P...

SHIP DATE 6/16/2020

MODEL VXB14

SMV SERIES VARIABLE FREQUENCY DRIVE

TERMINAL	FUNCTION
1	Digital Input(Start/Stop)
2	Analog Common
5	Analog Input 0-10 VDC
6	Internal DC Supply for Speed Poti +10 VDC
25	Analog Input 4-20 mA
30	Analog Output
3	
4	Digital Reference/Common
11	Internal DC Supply for External Devices
13A	Digital Input: Configurable with P121
13B	Digital Input: Configurable with P122
13C	Digital Input: Configurable with P123
14	Digital Output: Configurable with P142
30	Analog Output: Configurable with P150...P155
16	Relay Output: Configurable with P140
17	
7	
8	
8	PE Ground Terminal
L1	3 Phase Input or Single Phase Input
L2	3 Phase Input or Single Phase Input
L3 (N)	3 Phase Input (Neutral for 120v)
U	3 Phase AC Motor
V	3 Phase AC Motor
W	3 Phase AC Motor
11	TERMINAL BLOCKS LOCATED IN HEATER UNIT (IF SINGLE PHASE INPUT, UNIT MAY NOT CONTAIN ALL TERMINAL BLOCKS)
12	EXHAUST FANS AND NON-HEATED UNITS DO NOT HAVE TERMINALS
13	All external control wires to motor speed control should be 16-20 AWG shielded multiconductor cables and must not be run in the same conduit or raceway with any high power wiring. Ground shielded cable at the drive chassis ONLY.
14	PG. 19 OF THE DRIVE MANUAL DESCRIBES THE PROGRAMMING PROCEDURE OF THE DRIVE
15	PG. 23 OF THE DRIVE MANUAL DESCRIBES THE PARAMETER SETTINGS OF THE DRIVE
16	*NOTE: THE DEFAULT PASSWORD FROM THE FACTORY REQUIRED TO PROGRAM THE DRIVE IS '225'.
17	
18	
21	
22	
23	



Installed Options

Component Identification

NOT USED FOR EXHAUST FANS OR NON-HEATED SUPPLY FANS

OR BURNER CIRCUIT CONTACT

NOT USED FOR EXHAUST FANS OR NON-HEATED SUPPLY FANS

OR BURNER CIRCUIT CONTACT

NOT USED FOR EXHAUST FANS OR NON-HEATED SUPPLY FANS

OR BURNER CIRCUIT CONTACT

NOT USED FOR EXHAUST FANS OR NON-HEATED SUPPLY FANS

OR BURNER CIRCUIT CONTACT

NOT USED FOR EXHAUST FANS OR NON-HEATED SUPPLY FANS

OR BURNER CIRCUIT CONTACT

NOT USED FOR EXHAUST FANS OR NON-HEATED SUPPLY FANS

OR BURNER CIRCUIT CONTACT

NOT USED FOR EXHAUST FANS OR NON-HEATED SUPPLY FANS

OR BURNER CIRCUIT CONTACT

NOT USED FOR EXHAUST FANS OR NON-HEATED SUPPLY FANS

OR BURNER CIRCUIT CONTACT

NOT USED FOR EXHAUST FANS OR NON-HEATED SUPPLY FANS

OR BURNER CIRCUIT CONTACT

SUPPLY DRIVE PARAMETER SETTINGS*

EXHAUST FANS AND NON-HEATED UNITS DO NOT HAVE TERMINALS

All external control wires to motor speed control should be 16-20 AWG shielded multiconductor cables and must not be run in the same conduit or raceway with any high power wiring. Ground shielded cable at the drive chassis ONLY.

PG. 11 OF THE DRIVE MANUAL DESCRIBES THE PROPER INSTALLATION PROCEDURE

PG. 19 OF THE DRIVE MANUAL DESCRIBES THE PROGRAMMING PROCEDURE OF THE DRIVE

PG. 23 OF THE DRIVE MANUAL DESCRIBES THE PARAMETER SETTINGS OF THE DRIVE

*NOTE: THE DEFAULT PASSWORD FROM THE FACTORY REQUIRED TO PROGRAM THE DRIVE IS '225'.

EXHAUST VFD PART: ESV75IN01SX-B

MOTOR INFO

EXHAUST VFD PART: ESV75IN01SX-B

When Speed P01 is Required, the Following Parameters Must be Set:
 P101 (Reference Source) = 01 (0-10 VDC)
 P160 (Speed @ 0 VDC Signal) = Min Frequency
 P161 (Speed @ 10 VDC Signal) = Max Frequency

ELECTRICAL INFORMATION
 MOTOR/CTRL MCA: 3.9A
 MOTOR/CTRL MOP: 15A

IT MAY BE REQUIRED TO FULLY POWER DOWN THE DRIVE AND TURN BACK ON IN ORDER TO INITIATE NEW PARAMETER SETTINGS.

*Min and Max Frequency Settings override all other Preset speeds/parameters.

GENERAL NOTES

— — —	DENOTES FIELD WIRING
— — —	DENOTES INTERNAL WIRING
BK —	BLACK
BL —	BLUE
BR —	BROWN
OR —	ORANGE
RD —	RED
WH —	WHITE
GR —	GREEN
GY —	GRAY
PR —	PURPLE
PINK —	PINK