

SEE ADDITIONAL 14 SHEET DRAWINGS SUBMITTED BY CAPTIVEAIRE. UNABLE TO STAMP APPROVE.

BUILDING PERMIT

B-21-0544  
CITY OF PUYALLUP

PRMH20220512 -  
MECCANICAL PERMIT

FOR QUESTIONS, CALL THE  
Seattle Office  
REGION 85  
PHONE: (425) 212-5996  
EMAIL: reg85@captiveaire.com

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 - JOB#4932052

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)				TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG				
										WIDTH	LENG	HEIGHT	DIA			CFM	VEL	SP	END TO END	ROW
1		5424 ND-2-PSP-F	CAPTIVEAIRE	12' 0"	600 DEG	1	HEAVY	275	3300			4'	18'	3300	1867	-1.151'	2970	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

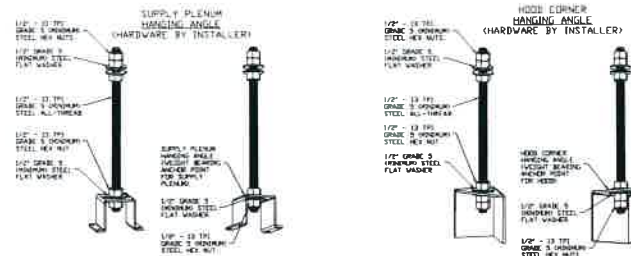
HOOD NO	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT		
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	TYPE	SIZE			MODEL #	QUANTITY
1		CAPTRATE SOLID FILTER	9	20"	16"	85% SEE FILTER SPEC	4	L55 SERIES E26	ND	RIGHT	12"x54"x24"	TANK FIRE SUPPRESSION	40/40/40	DCV-1111	1 LIGHT 1 FAN	YES	1162 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1		LEFT END STANDOFF (FINISHED) 1' WIDE 54" LONG INSULATED
		INSULATION FOR BACK OF HOOD
		RISER SENSOR INSTALL 3IN DBL
		SENSOR-CV
		RIGHT WIDE VERTICAL END PANEL 42" TOP WIDTH, 36" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		LEFT WALL AS END PANEL

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)			
							WIDTH	LENG	DIA	CFM
1		Front	157'	20'	6'	MUA	12'	28'	742	0.207'
						MUA	12'	28'	742	0.207'
						MUA	12'	28'	742	0.207'
						MUA	12'	28'	742	0.207'



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.

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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.

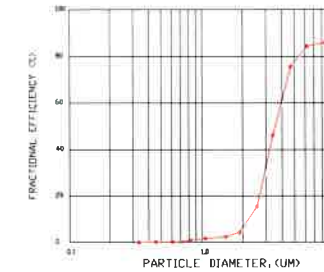
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

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

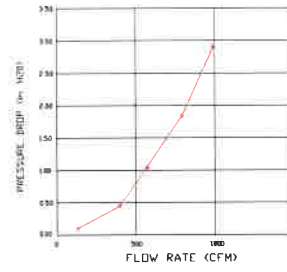
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 10 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLID WAS TESTED TO ASTM STANDARD ASTM F2519-05 MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

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.

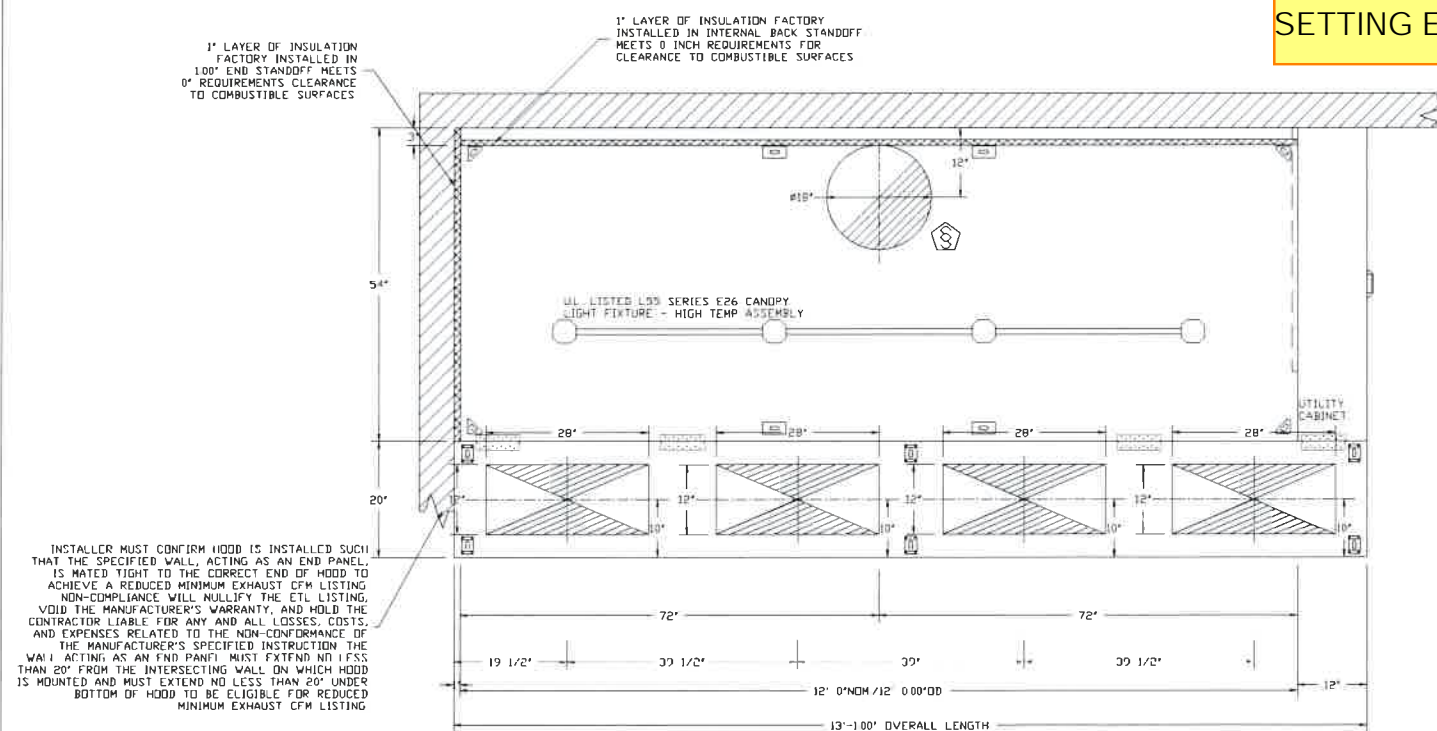


THE APPROVED CONSTRUCTION PLANS, DOCUMENTS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

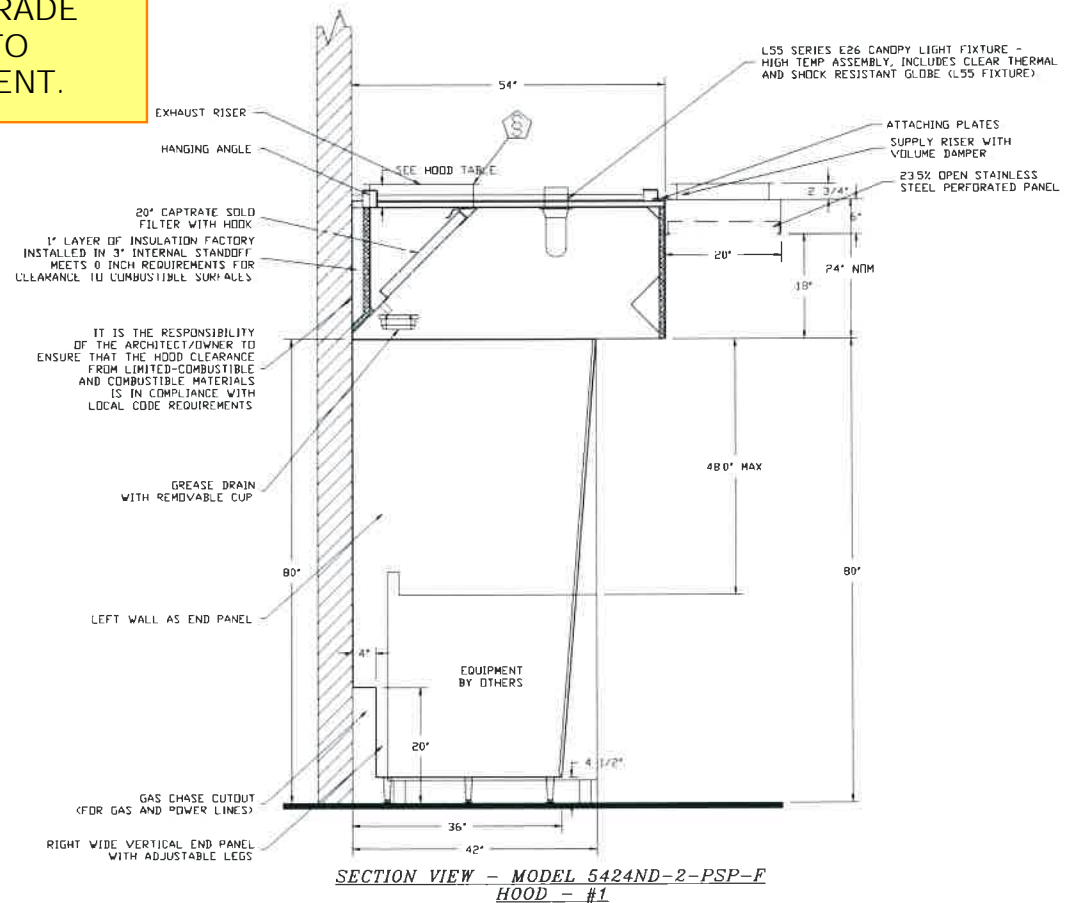
FULL SIZED LEDGIBLE COLOR PLANS ARE REQUIRED TO BE PROVIDED BY THE PERMITEE ON SITE FOR INSPECTION.

Approval of submitted plans is not an approval of omissions or oversight by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable building codes and regulations of the local government.

REFERENCE STRUCTURAL DRAWING ENCLOSED PRIOR TO INSTALLING EQUIPMENT. STRUCTURAL UPGRADE REQUIRED PRIOR TO SETTING EQUIPEMENT.



PLAN VIEW - HOOD #1  
12' 0.00" LONG 5424ND-2-PSP-F  
NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12" AND LONGER



TANDOORI GRILL  
4425 S Meridian,  
Puyallup, WA, 98373

DATE: 6/10/2021  
DWG.#: 4932052  
DRAWN BY: A\_CASH 85  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING

SHEET NO. 1

**FIRE SYSTEM INFORMATION - JOB#4932052**

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		CAS ELECTRIC WET CHEMICAL	4/0/4/0	16	FIRE CABINET RIGHT	RIGHT, HOOD 1

**GAS VALVE(S)**

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	2000	CAPTIVEAIRE SYSTEMS

**FIRE SYSTEM PARTS LIST KEY**

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
		0 - 0 - 100-BW 2X4 BLANK PLATE FOR J-BOX	1	0
		0 - 0 - 12-F28021-005360 DUCT FIRE THERMOSTAT, NO. CLOSE ON TEMP RISE AT 360°F.	1	0
		0 - 0 - 59361-1/2 2X4 EXTENSION RING	1	0
		0 - 0 - 60-9196984-000 VENT PLUG FOR FIRE SYSTEM DISTRIBUTION PIPING, TANK FIRE SUPPRESSION	2	0
		0 - 0 - 87-120042-001 SECONDARY ACTUATOR VALVE (SVA) - SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION	2	0
		0 - 0 - 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 75' BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION	2	0
		0 - 0 - 87-300001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION	3	0
		0 - 0 - 87-300030-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION	1	0
		0 - 0 - 87-300033-001 DIN CONNECTOR, CANFIELD PART #5J560-201-EU0A, TANK FIRE SUPPRESSION, SUBMINATURE SOLENOID CONNECTION (CED VENDOR 30377)	1	0
		0 - 0 - 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION	6	0
		0 - 0 - A0034332 JUNCTION BOX FOR MANUAL PULL STATION 15" DEEP BACK BOX, RED COLOR	1	0
		0 - 0 - SLPCDN-15FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN END TO END HOODS WITH LESS THAN A 14" GAP OR BACK TO BACK HOODS KIT CONTAINS 17 FEET OF BLACK MG WIRE, 17 FEET OF TAN MG WIRE, 15 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS	1	0
		0 - 0 - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION	9	0
		0 - 0 - TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION	3	0
		0 - 0 - WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION	3	0
		34 - 34 - A0034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT, RED COLOR	1	0

INCLUDES: FIELD INSTALLATION AND HOOKUP DURING NORMAL BUSINESS HOURS BY CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE. TWO SITE VISITS ONLY (ONE VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISIT FOR ONE TEST, ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES). ONE MECHANICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2", PERMIT, AND SYSTEM TEST.  
EXCLUDES: UNION LABOR & PREVAILING WAGE (LABOR & WAGES WILL BE ADDED IF APPLICABLE). GAS VALVE INSTALLATION, ELECTRICAL HOOKUP AND CONNECTIONS, HANGING OF FIRE CABINET, SHUNT TRIP, HANDHELD EXTINGUISHER(S), ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.

JOB #: 4932052  
JOB NAME: TANDOORI GRILL

SYSTEM SIZE: TANK-SP-3 TOTAL FP REQUIRED: 16  
HOOD # 1 12' 0.00" LONG x 54" WIDE x 24" HIGH  
RISER # 1 SIZE: 0" x 0"

**B-21-0544  
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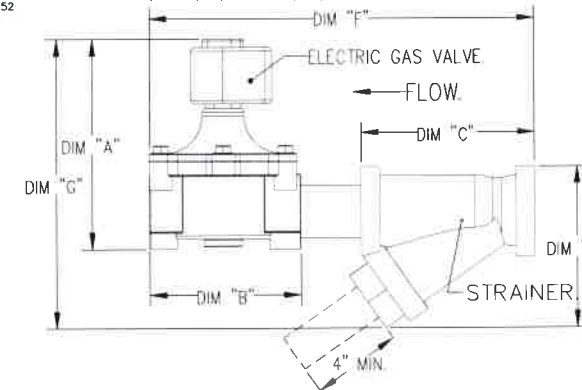
**NOTES**

- FIELD PIPE DROPS AS SHOWN SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- MAXIMUM 9 ELBOWS IN SUPPLY LINE.
- MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE COVERING A RANGE, FRYER, OR WOK TO REFLECT GENERAL PIPING REQUIREMENTS.
- IF APPLICABLE, PRE-PIPED CHARBROILER DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6' ABOVE THE TOP OF THE HOOD.
- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

GAS VALVE SIZING										GAS VALVE DIMENSIONS					INSTALLATION		PART NUMBERS		
TYPE	SIZE	VOLTAGE	MIN INLET PRESSURE	MAX INLET PRESSURE	FLOW AT 1 IN.W.C DROP NATURAL GAS	FLOW AT 1 IN.W.C DROP PROPANE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "G"	MOUNTING ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER	GAS VALVE/STRAINER KIT			
ELECTRICAL	2"	120 VAC	0 PSI (0 IN.W.C.)	5 PSI (138 IN.W.C.)	2,940,500 BTU/HR	1,908,048 BTU/HR	7-5/8"	6-3/8"	7-1/4"	7-13-16"	15-5/8"	13-15/16"	HORIZONTAL/VERTICAL	8214280	4417X68	(SC)EVA2			

**ALL GAS VALVES/STRAINERS**  
PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINERS A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER CUSTOMER MUST VERIFY BTU CONSUMPTION AS WELL AS PRESSURE RATING SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52

**CALCULATIONS**  
TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP  
NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP<sup>0.85</sup>  
TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY  
NEW BTU/HR = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY)<sup>0.85</sup>



**NOTES**

- FIELD PIPE DROPS AS SHOWN PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6' ABOVE THE TOP OF THE HOOD.
- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.
- THIS FIRE SYSTEM COMPLIES WITH UL 300 REQUIREMENTS
- MINIMUM 24" CLEARANCE ABOVE HOOD, REQUIRED FOR MAINTENANCE
- FOR THE FIRST SET OF NOZZLES NEAREST THE TANK, PIPE TO THE END OF THE NOZZLE RUN THEN RETURN THE PIPE TO THE NEAREST NOZZLES TO TANK

JOB #: 4932052  
JOB NAME: TANDOORI GRILL

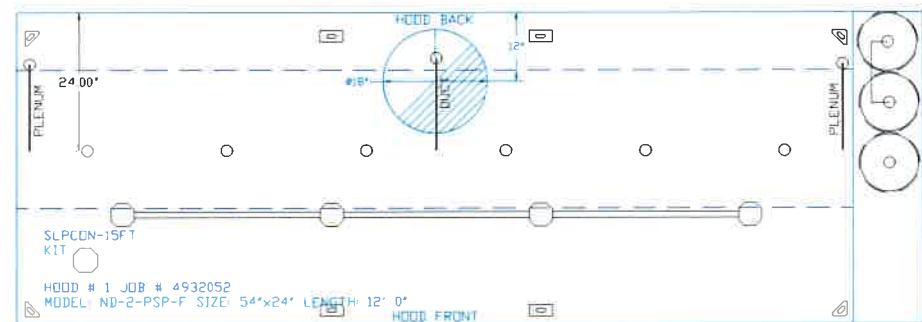
SYSTEM SIZE: TANK-SP-3 TOTAL FP REQUIRED: 16  
HOOD # 1 12' 0.00" LONG x 54" WIDE x 24" HIGH  
RISER # 1 SIZE: 18" DIA.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION

**LEGEND - FIRE CABINET CAS-EWC SYSTEM**

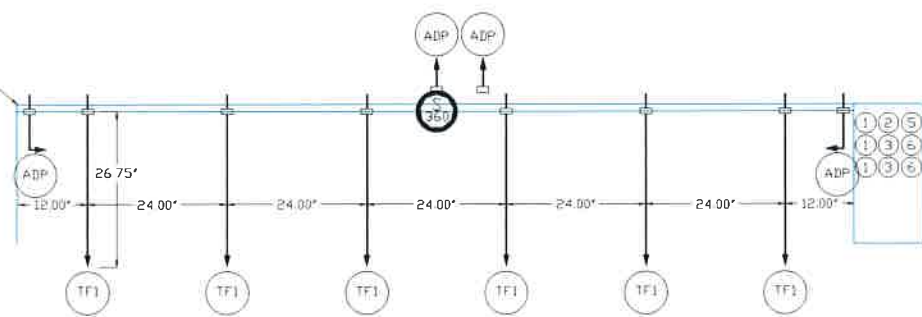
- 1 4 GALLON TANK
- 2 PRIMARY ACTUATOR RELEASE.
- 3 SECONDARY ACTUATOR RELEASE
- 4 PRESSURE SUPERVISION SWITCH
- 5 PRIMARY HOSE ASSEMBLY.
- 6 SECONDARY HOSE ASSEMBLY.
- 7 REMOTE MANUAL ACTUATION DEVICE.
- TF1 NOZZLE ASSEMBLY (TF1)
- ADP NOZZLE ASSEMBLY (ADP)
- R NOZZLE ASSEMBLY (R)
- S SWIVEL ADAPTER

**SEE ADDITIONAL 14 SHEET DRAWINGS SUBMITTED BY CAPTIVEAIRE. UNABLE TO STAMP APPROVE.**



SYSTEM REQUIRES A MINIMUM OF 2 FT OF PIPING BETWEEN TANK AND NEAREST APPLIANCE NOZZLE FOR MOST APPLIANCES. SEE MANUAL FOR DETAILS

MINIMUM 24" CLEARANCE ABOVE HOOD, REQUIRED FOR MAINTENANCE



EWC OVERLAPPING COVERAGE HIGH PROXIMITY 144.00" L X 24.00" D

**REVISIONS**

NO.	DESCRIPTION	DATE

**CAPTIVEAIRE**  
Seattle Office  
1508 Pacific Ave. Everett, WA 98201 PHONE: (425) 212-5996 FAX: (425) 212-5998 EMAIL: reg@captivaire.com

TANDOORI GRILL  
4425 S Meridian,  
Puyallup, WA, 98373

DATE: 6/10/2021  
DWG.#: 4932052  
DRAWN BY: A\_CASH 85  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING

SHEET NO. 2

**EXHAUST FAN INFORMATION - JOB#4932052**

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1		1	CASRE20DD	CAPTIVEAIRE	3300	1.300	1271	JDP,PREMIUM	3.000	1.8060	3	208	9.5	1533 FPM	379	22

**MUA FAN INFORMATION - JOB#4932052**

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCF	WEIGHT (LBS)	SONES
2		1	A2-D250-20D	20MF-2-MOD	A2-D250	2000	2970	0.500	1220	JDP,PREMIUM	1.500	1.0220	3	208	6.6	9.5A	15A	678	10.5

**GAS FIRED MAKE-UP AIR UNIT(S)**

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
2		169474	155916	50°F	7 IN W.C. - 14 IN. W.C	NATURAL	92

**FAN OPTIONS**

FAN UNIT NO	TAG	QTY	DESCRIPTION
1		1	UTILITY SET GREASE CUP
		1	RE20 - RAIN CAP ASSEMBLY - INCLUDES HARDWARE AND GASKET
		1	UNIT MOUNTED VFD FOR USE WITH ECPM03
		1	VFD MOUNTING BRACKET FOR CASRE20DD
		1	2 YEAR PARTS WARRANTY
2		1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
		1	MOTORIZED BACKDRAFT DAMPER FOR A2-D HOUSING MEETS AMCA CLASS 1A RATING
		1	TOTAL CFM MONITORING FOR MUA UNITS
		1	SIZE 2 DIRECT FIRED HEATER LOW CFM PROFILE PACKAGE USED ON HEATERS UNDER 2500 CFM
		1	UNIT MOUNTED VFD FOR USE WITH ECPM03
	1	2 YEAR PARTS WARRANTY	

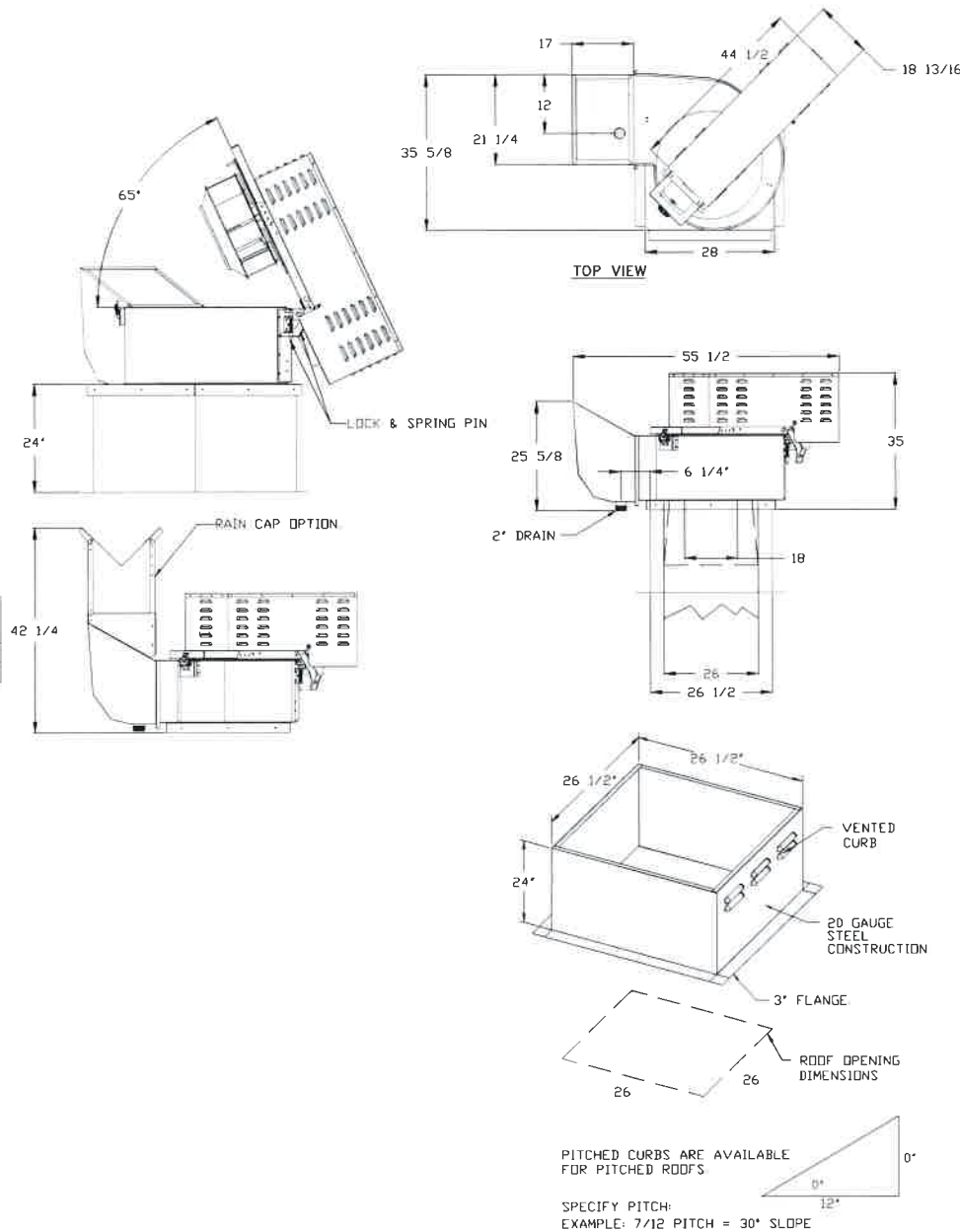
**FAN ACCESSORIES**

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

**CURB ASSEMBLIES**

NO	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	30 LBS	CURB	26.500"W X 26.500"L X 24.000"H ALONG LENGTH, RIGHT VENTED
2	# 2	80 LBS	CURB	31.000"W X 79.000"L X 20.000"H ALONG WIDTH, RIGHT INSULATED

FAN #1 CASRE20DD - EXHAUST FAN



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**FEATURES:**

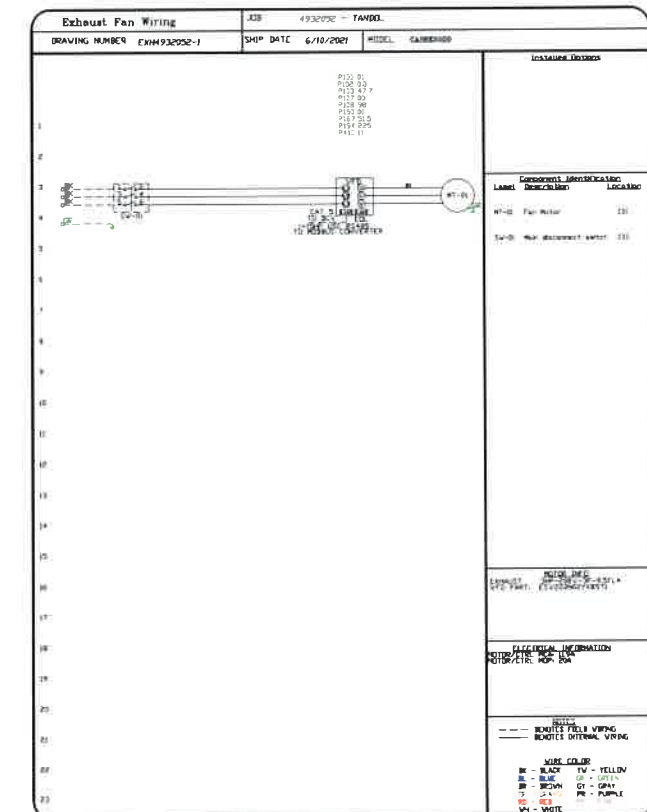
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL762 AND ULC-S645.
- HIGH HEAT OPERATION DIRECT DRIVE 300°F (149°C)
- HEAT SLINGER
- GREASE CLASSIFICATION TESTING
- TILT OUT WHEEL
- LOCKING PIN FOR POWER PACK
- MOTOR WEATHER COVER
- INTERLOCKED DISCONNECT SWITCH
- NEMA 4X SAFETY DISCONNECT SWITCH

**NORMAL TEMPERATURE TEST DIRECT DRIVE 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 BELT & DIRECT DRIVE 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**

UTILITY SET GREASE CUP  
RE20 - RAIN CAP ASSEMBLY - INCLUDES HARDWARE AND GASKET  
UNIT MOUNTED VFD FOR USE WITH ECPM03  
VFD MOUNTING BRACKET FOR CASRE20DD  
2 YEAR PARTS WARRANTY



**SEE ADDITIONAL 14 SHEET DRAWINGS SUBMITTED BY CAPTIVEAIRE. UNABLE TO STAMP APPROVE.**

**REVISIONS**

NO.	DESCRIPTION	DATE
1		
2		
3		

**CAPTIVEAIRE** Seattle Office  
1909 Pacific Ave. Everett, WA 98201 PHONE: (425) 212-5986 FAX: (425) 212-5986 EMAIL: reg@captivaire.com

TANDOORI GRILL  
4425 S Meridian,  
Puyallup, WA, 98373

DATE: 6/10/2021  
DWG.#: 4932052  
DRAWN BY: A\_CASH BS  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING

SHEET NO. 3

- FAN #2 A2-B250-20D - HEATER
- 1 DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 20" MIXED FLOW DIRECT DRIVE FAN
- 2 INTAKE HOOD WITH EZ FILTERS
- 3 DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT
- 4 GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE
- 5 GAS PRESSURE GAUGE, +/- 10 INCHES WG, 2.5" DIAMETER, 1/4" THREAD SIZE
- 6 CASLINK BUILDING MONITORING SYSTEM COMMUNICATIONS MODULE REQUIRES INTERNET & FIELD WIRED ETHERNET CONNECTION OR 35 CELLULAR SERVICE INCLUDES REV 3 COMM MODULE, RJ45 TO MODBUS CONVERTER, 3 FT CAT5 CABLE, AND 1 FT OF SHIELDED TWISTED PAIR
- 7 MOTORIZED BACK DRAFT DAMPER 22.75" X 24" FOR SIZE 2 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, LF120S ACTUATOR INCLUDED
- 8 TOTAL CFM MONITORING FOR HUA UNITS USES +/- 15 PRESSURE TRANSDUCER, RIVET NUTS, 1/4" AIRFLOW TUBING AND PUSH TO CONNECT FITTINGS
- 9 PROFILE PLATE CONFIGURATION FOR SIZE 2 DIRECT FIRED UNIT FOR LOW CFM APPLICATIONS
- 10 UNIT MOUNTED VFD FOR USE WITH ECPM02
- 11 HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION)
- 12 2 YEAR PARTS WARRANTY

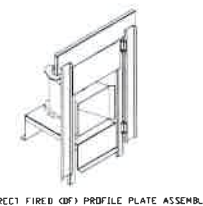
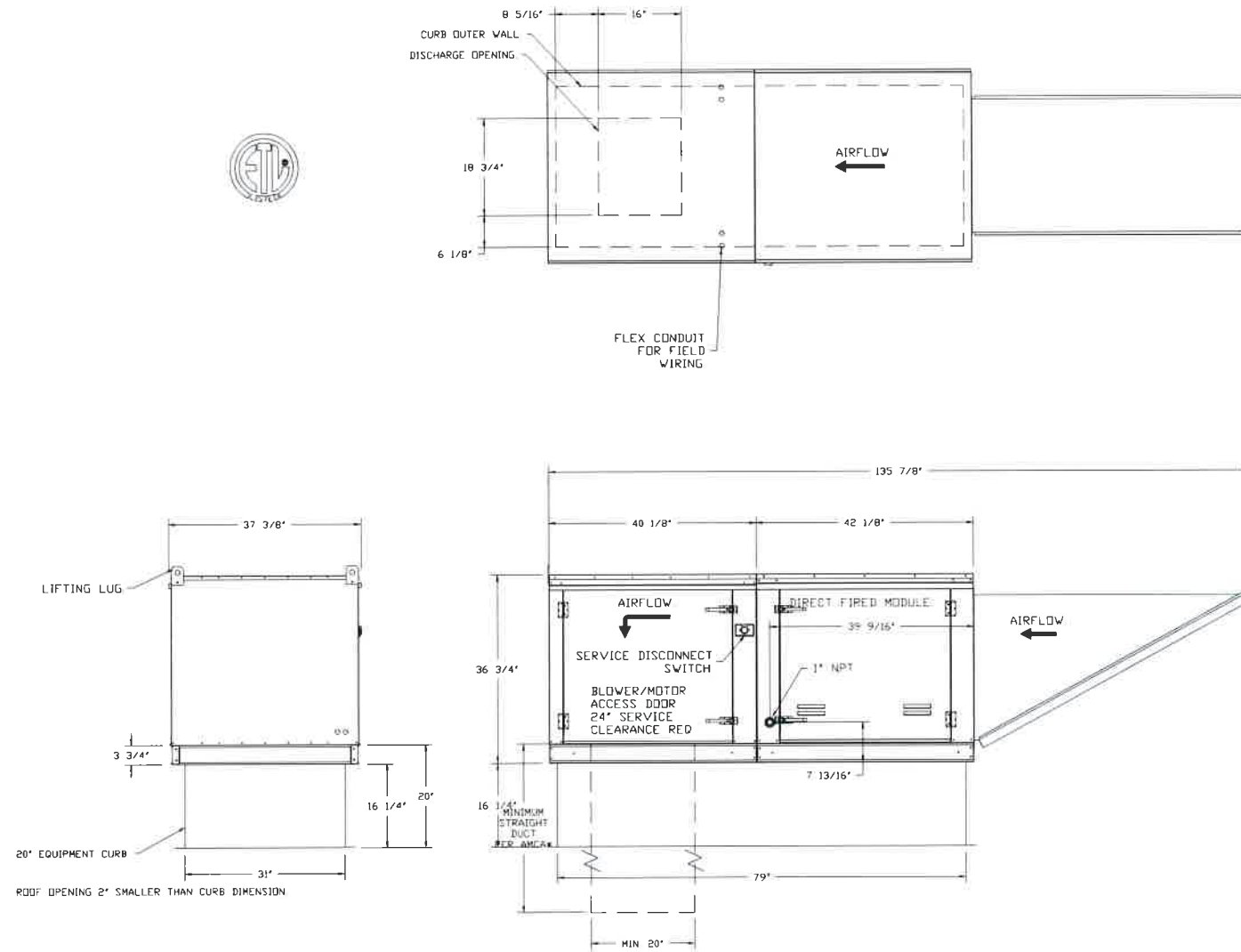
NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 20" X 20"

SUPPLY SIDE HEATER INFORMATION

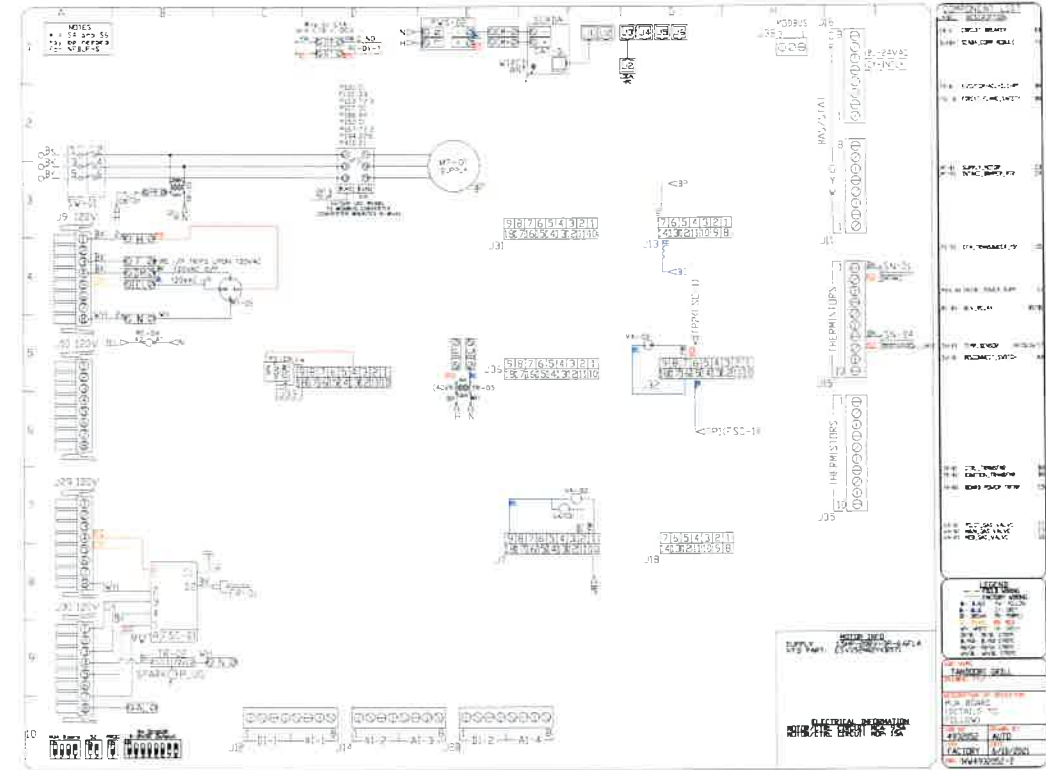
WINTER TEMPERATURE = 25°F, TEMP RISE = 50°F  
 BTUS CALCULATED OFF ACTUAL AIR DENSITY  
 OUTPUT BTUS AT ALTITUDE OF 00 FT = 159649  
 INPUT BTUS AT ALTITUDE OF 00 FT = 172444  
 OUTPUT BTUS AT ALTITUDE OF 400 FT = 155916  
 INPUT BTUS AT ALTITUDE OF 400 FT = 169474

SEE ADDITIONAL 14 SHEET DRAWINGS SUBMITTED BY CAPTIVEAIRE. UNABLE TO STAMP APPROVE.

B-21-0544  
 CITY OF PUYALLUP



**DIRECT FIRED (DP) PROFILE PLATE SPECIFICATIONS:**  
**DESCRIPTION:**  
 DIRECT FIRED BURNERS SHALL HAVE PATENTED (US PATENT NO. US6629523B2) 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 LIMITING BY-PRODUCT LEVELS TO A MAXIMUM OF 50PPM OF CARBON MONOXIDE (CO) AND 50PPM OF NITROGEN DIOXIDE (NO2). DIRECT FIRED UNITS SHALL BE CONFIGURED WITH THE BURNER MOUNTED DOWNSTREAM OF THE BURNER. THIS ARRANGEMENT WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF INLET AIR TEMPERATURE.  
**APPLICATION:**  
 SPRING-LOADED BURNER PROFILE PLATES ARE ENGINEERED TO AUTOMATICALLY REACT TO THE MOMENTUM OF A FRESH AIR STREAM WITHOUT THE NEED FOR ANY MOTORS OR ACTUATORS TO MECHANICALLY ADJUST THEM WITH THIS FEATURE, ALL OF UNITS ARE DESIGNED FOR BEHIND CONTROL VENTILATION (BCV) REQUIREMENTS.  
**CERTIFICATIONS:**  
 ALL PROFILE PLATE ASSEMBLIES SHALL BE INCLUDED IN THE DP UNITS ETL LISTING AND COMPLY WITH COMBINED SAFETY STANDARDS ANSI Z83.4 AND CSA 37 (NON-RECIRCULATING OF HEATERS) AND ANSI Z83.10 (RECIRCULATING OF HEATERS).  
**GENERAL CONSTRUCTION:**  
 -PROFILE PLATES SHALL BE FORMED FROM G90 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 TOLERATED PERMANENTLY MOUNTED SPRING HINGES.  
 -SPRING HINGES SHALL BE MADE FROM PLATED STEEL.



Installation Wiring		JOB	4932052	TANDEL																		
DRAWING NUMBER	4932052-2	DATE	6/10/2021	MODEL																		
120 V   1 PH	240 V   1 PH	208/460/600 V   3 PH	Factory wiring																			
Customer wiring	Customer wiring	Customer wiring	Face View Section																			
<p>See above details. Power Connection. Gas Valve. FIELD WIRED CONTACTS WHEN USED WITH MELVAC WIRE TO BE USED. BURNER INTERLOCK. FIELD WIRED CONTACTS TO BE USED WITH MELVAC WIRE TO BE USED.</p>																						
<p>WIRE COLOR</p> <table border="0"> <tr> <td>BLACK</td> <td>1V</td> <td>YELLOW</td> </tr> <tr> <td>BROWN</td> <td>2V</td> <td>GREEN</td> </tr> <tr> <td>RED</td> <td>3V</td> <td>GRAY</td> </tr> <tr> <td>ORANGE</td> <td>4V</td> <td>PURPLE</td> </tr> <tr> <td>BLUE</td> <td>5V</td> <td>PINK</td> </tr> <tr> <td>WHITE</td> <td>6V</td> <td></td> </tr> </table>					BLACK	1V	YELLOW	BROWN	2V	GREEN	RED	3V	GRAY	ORANGE	4V	PURPLE	BLUE	5V	PINK	WHITE	6V	
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RED	3V	GRAY																				
ORANGE	4V	PURPLE																				
BLUE	5V	PINK																				
WHITE	6V																					

**REVISIONS**

NO.	DESCRIPTION	DATE

**CAPTIVEAIRE**

1309 Pacific Ave. Everett, WA 98201 PHONE: (425) 212-5986 FAX: (425) 212-5986 EMAIL: [ng856@captivaire.com](mailto:ng856@captivaire.com)

Seattle Office

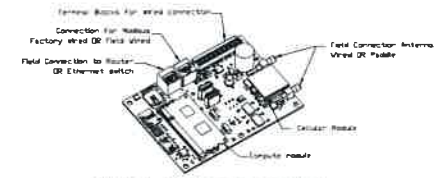
TANDOORI GRILL  
 4425 S Meridian,  
 Puyallup, WA, 98373

DATE: 6/10/2021  
 DWG.#: 4932052  
 DRAWN BY: A\_CASH 85  
 SCALE: 3/4" = 1'-0"  
 MASTER DRAWING

SHEET NO. 4

ELECTRICAL PACKAGE - JOB#4932052

Table with columns: NO, TAG, PACKAGE #, LOCATION, SWITCHES, OPTION, FANS CONTROLLED. Includes details for DCV-1111 and SMART CONTROLS DCV.

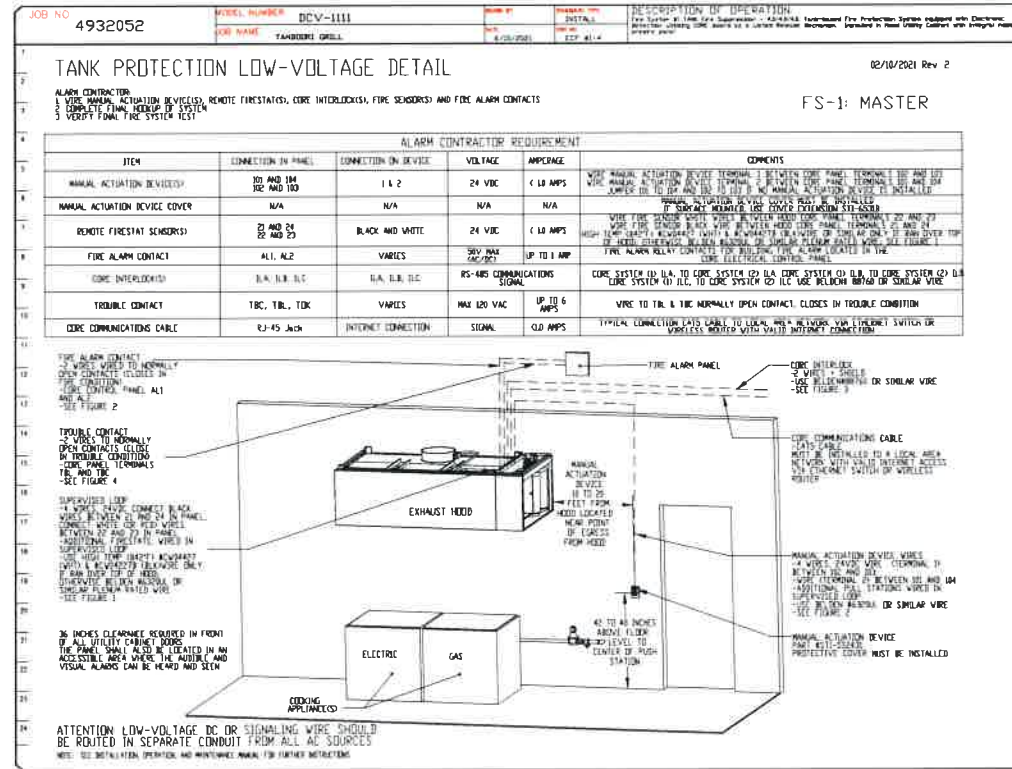
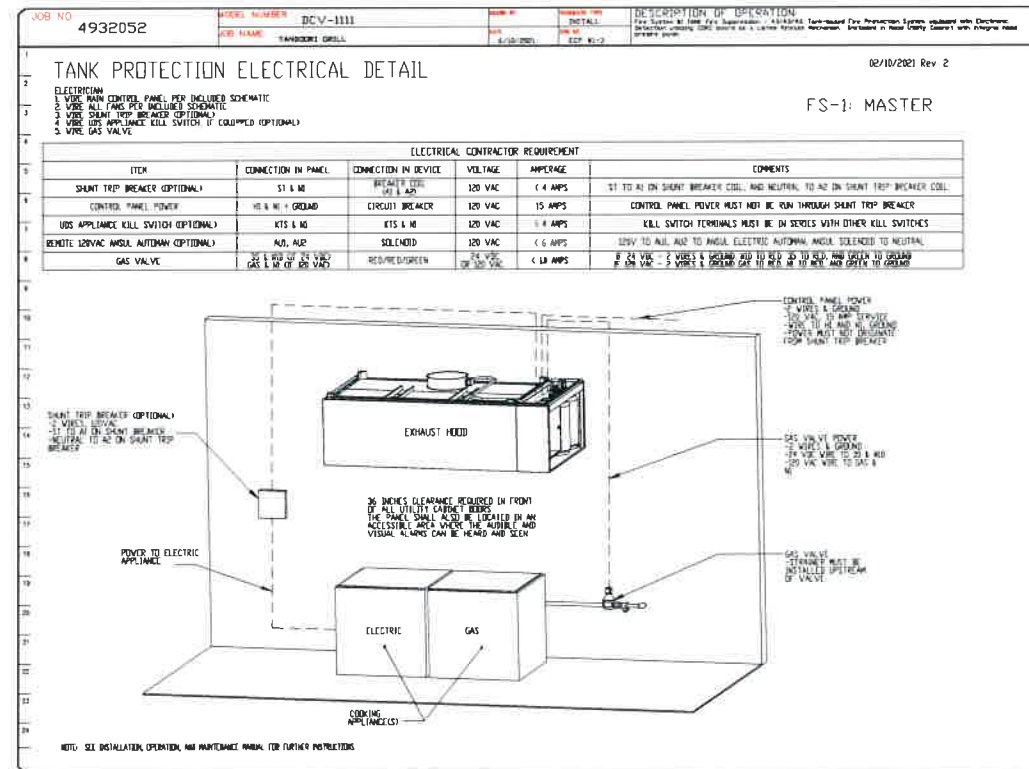
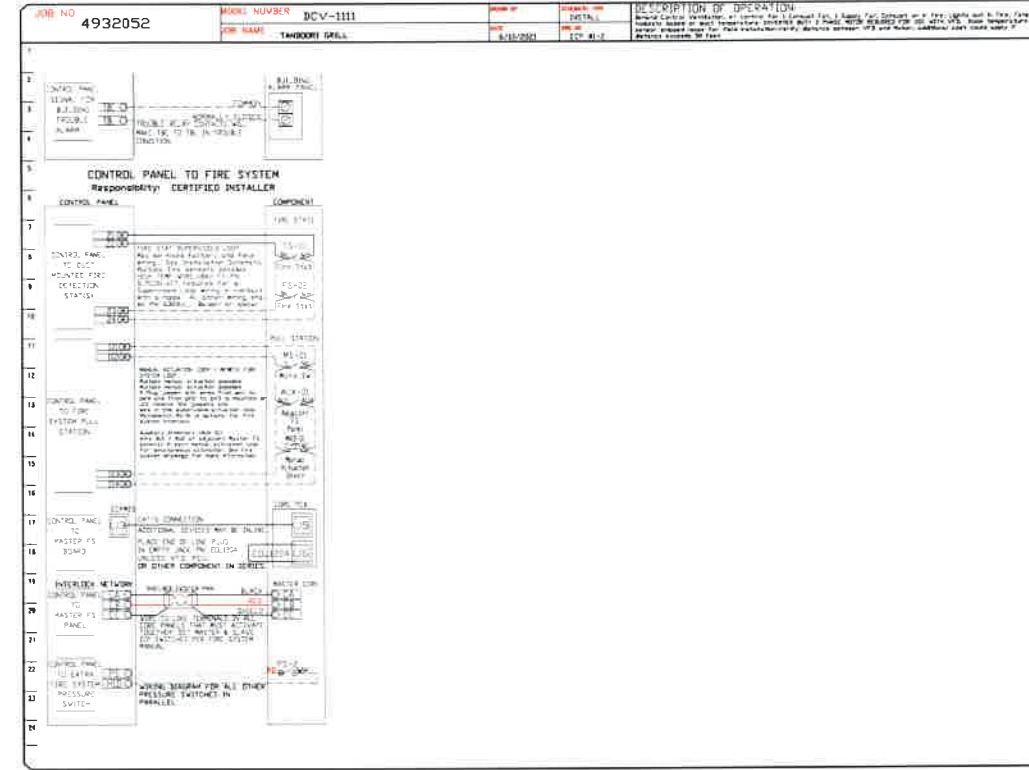
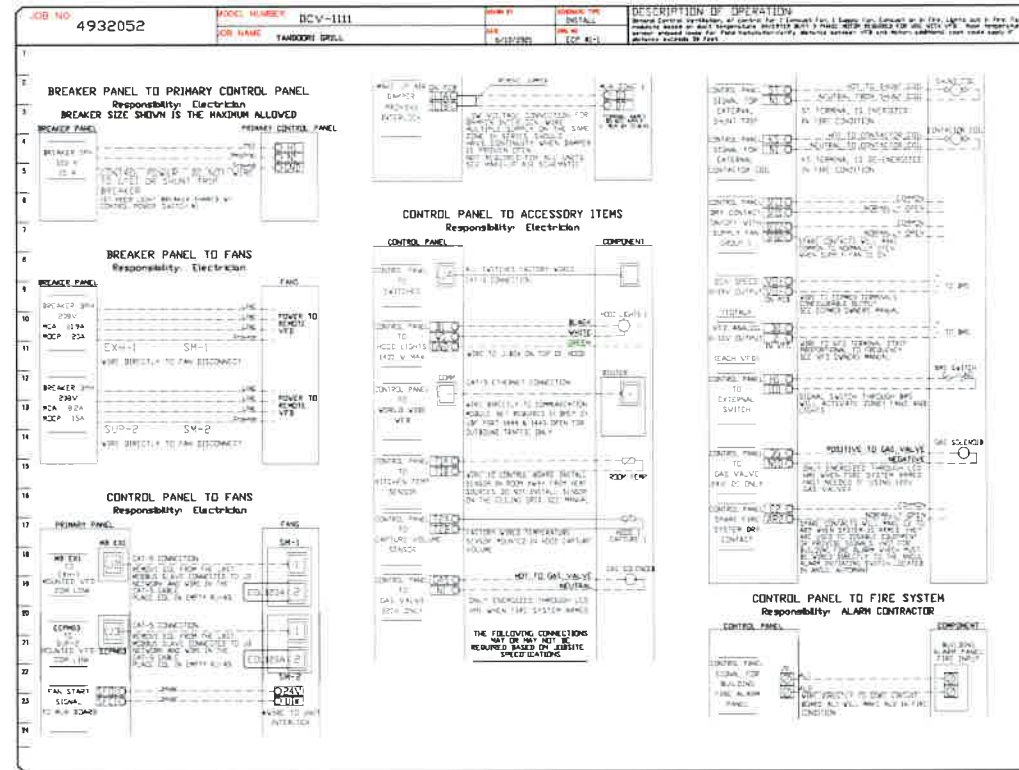


CASink Monitor and Control

Head central panel to support communications to cloud-based Building Management System. Head Central Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.

MONITORING AND CONTROL POINTS LIST

Table listing monitoring and control points for DCV Packages, including items like Room Temperature, Humidity, and Fan Status.



B-21-0544 CITY OF PUYALLUP

REVISIONS table and CAPTIVEAIRE logo with contact information for Seattle Office.

TANDOORI GRILL 4425 S Meridian, Puyallup, WA, 98373

DATE: 6/10/2021 DWG#: 4932052 DRAWN BY: A\_CASH 85 SCALE: 3/4" = 1'-0" MASTER DRAWING SHEET NO. 5

SEE ADDITIONAL 14 SHEET DRAWINGS SUBMITTED BY CAPTIVEAIRE. UNABLE TO STAMP APPROVE.

REVISIONS

REVISIONS	DESCRIPTION	DATE

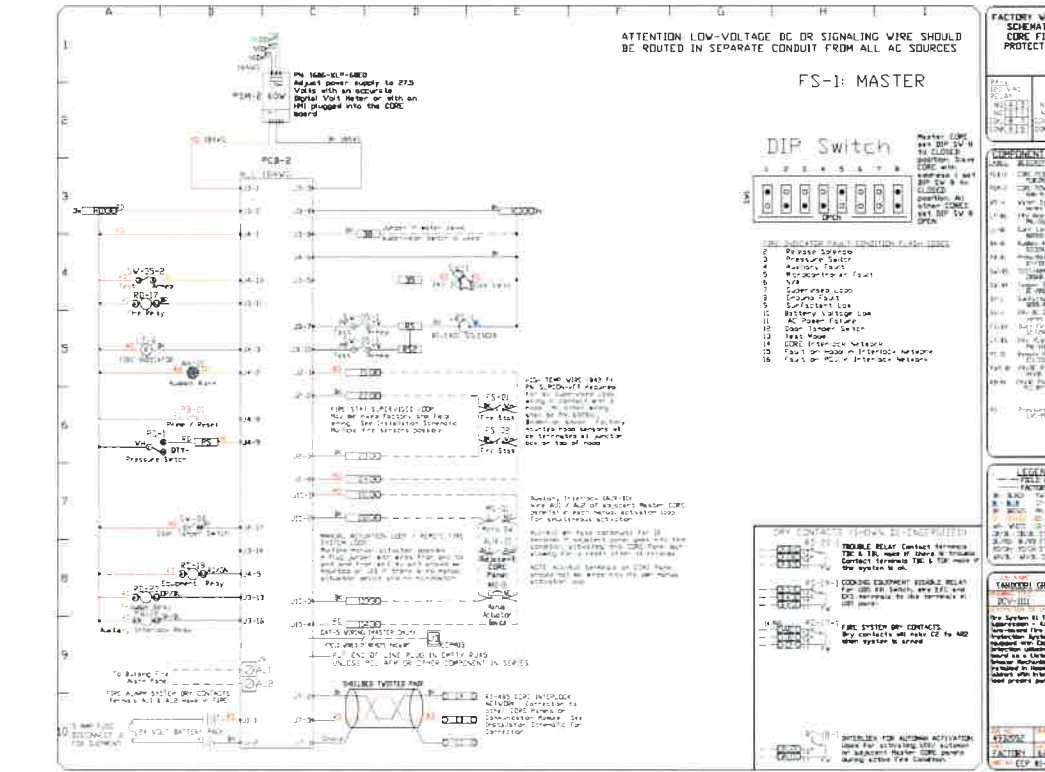
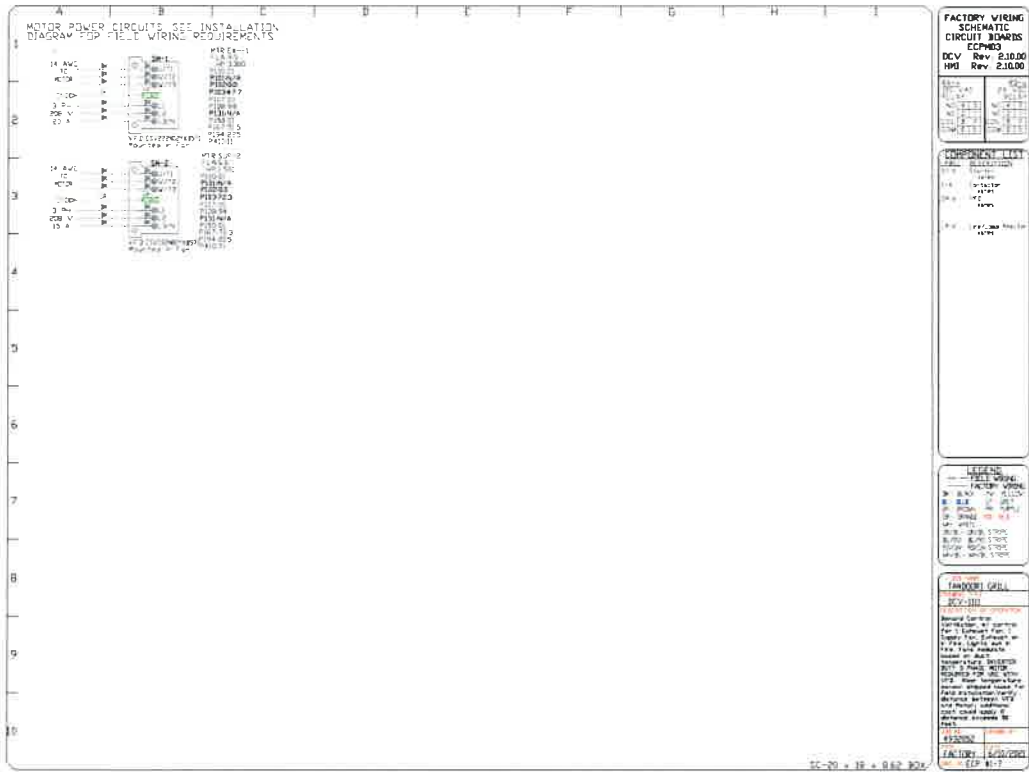
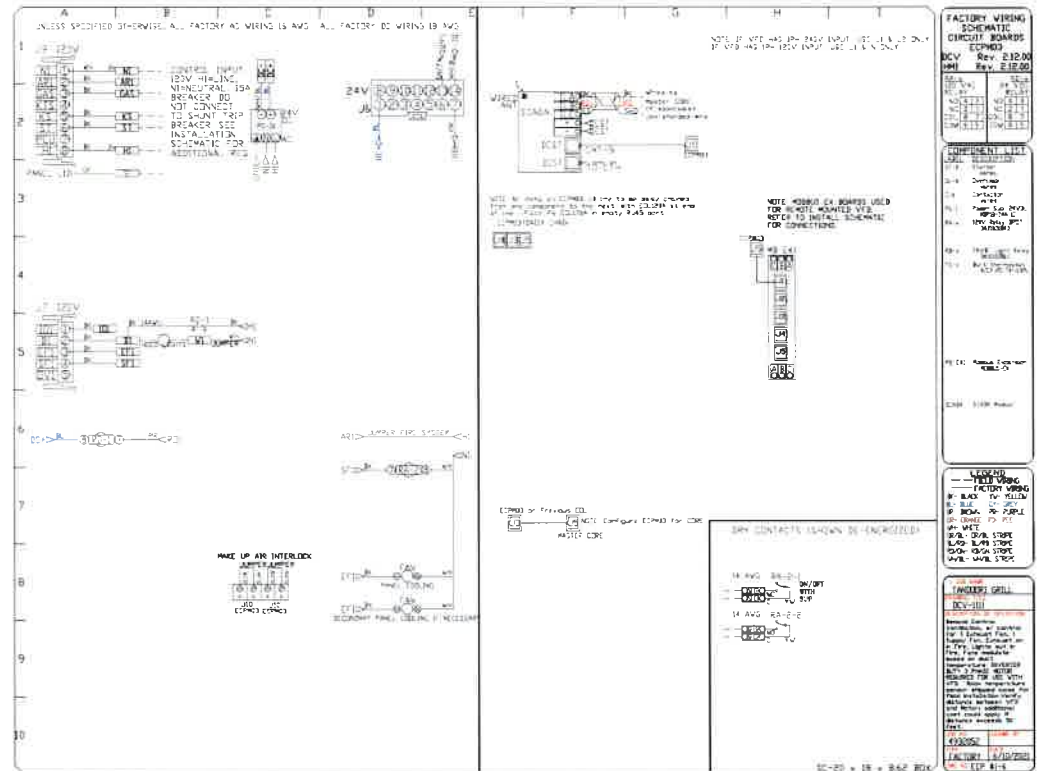
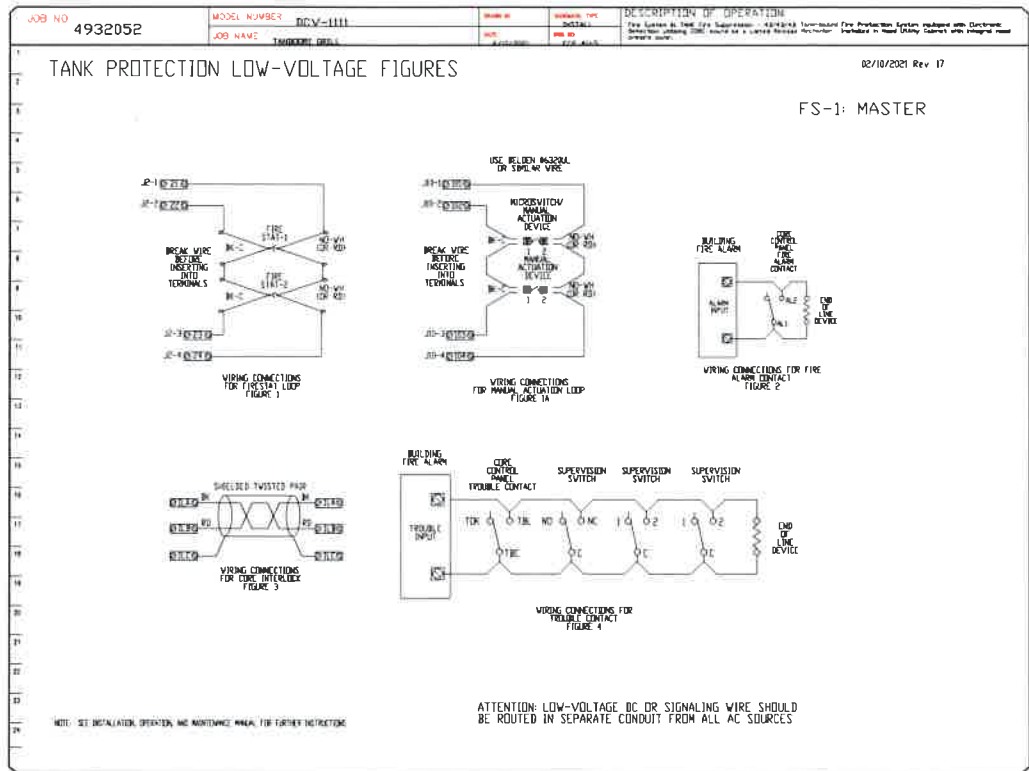
**CAPTIVEAIR**  
Seattle Office  
1309 Pacific Ave. Everett, WA 98201 PHONE: (425) 212-5998 FAX: (425) 212-5998 EMAIL: reg@captivateire.com

TANDORI GRILL  
4425 S Meridian,  
Puyallup, WA, 98373

DATE: 6/10/2021  
DWG#: 4932052  
DRAWN BY: A\_CASH 85  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING

SHEET NO. 6

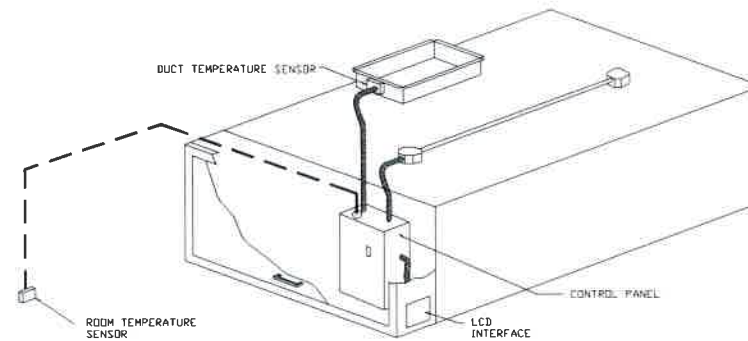
B-21-0544  
CITY OF PUYALLUP



SEE ADDITIONAL 14 SHEET DRAWINGS SUBMITTED BY CAPTIVEAIRE. UNABLE TO STAMP APPROVE.

**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 TEMPERATURE SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.11.
- 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.



TYPICAL HOOD CONTROL PANEL INSTALLATION

**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).
  - **FIRE:** UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.

**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.

**B-21-0544  
CITY OF PUYALLUP**

SEE ADDITIONAL 14 SHEET DRAWINGS SUBMITTED BY CAPTIVEAIRE. UNABLE TO STAMP APPROVE.

REVISIONS	
DESCRIPTION	DATE

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TANDOORI GRILL  
4425 S Meridian,  
Puyallup, WA, 98373

DATE: 6/10/2021  
DWG.#: 4932052  
DRAWN BY: A\_CASH 85  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING

SHEET NO.  
7

DUCTWORK #1 PARTS - JOB#4932052 DOUBLE WALL

TAG	PART #	CFM	GPM	ZONE	COVERED BY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1830DWASY-2R-S	3300				-0.0455	21.94	1867.42	1	DOUBLE WALL DUCT - 18" INNER 30 DUCT - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL
P2	DW1830DWASY-2R-S	3300				-0.0302	21.94	1867.42	1	DOUBLE WALL DUCT - 18" INNER 30 DUCT - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL
P3	DW1835DWLT-2R-S	3300				-0.0109	57.50	1867.42	1	DOUBLE WALL DUCT - 18" INNER DUCT, 35' LONG - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL
P4	DW1847DWAJD-2R-S	3300				-0.0142	107.98	1867.42	1	DOUBLE WALL ADJUSTABLE DUCT - 18" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11' / MAX LENGTH = 48.5' / ADJUSTMENT = 30.5' / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS
P5	ASSEMBLED W/P6	DW1845500WLTP-2R-S	3300			-0.014	75.96	1867.42	1	DOUBLE WALL DUCT - 18" INNER DUCT, 45.5' LONG - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL - USED WITH TRANSITION PLATE
P6	ASSEMBLED W/P5 SYSTEM AT P6	DW2618TP	3300				10.58	1867.42	1	DUCT TO CURB TRANSITION, 26-1/2" CURB TO 18" DUCT, 16 GA ALUMINIZED USED ON BDU18 & 20
		3M-2000PLUS					0.80		2	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
		DW18DWCLASY-2R-S					8.70		2	DUCT - 18" DUCT - 22" DOUBLE "V" CLAMP - 2R INSULATION & SINGLE "V" CLAMP INCLUDED - REDUCED CLEARANCE.
TOTAL WEIGHT							314.70			

DOUBLE WALL FACTORY BUILT DUCTWORK

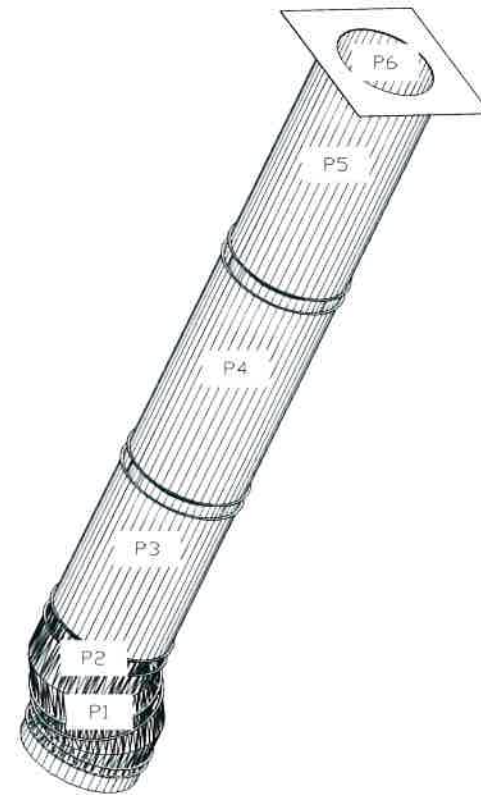
- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT

HORIZONTAL	
DUCT DIAMETER	SUPPORT SPACING (FT)
5'	7'
6'	7'
7'	7'
8'	7'
10'	7'
12'	7'
14'	7'
16'	7'
18'	5'
20'	5'
22'	5'
24'	5'
26'	5'
28'	5'
30'	5'
32'	5'
34'	5'
36'	5'

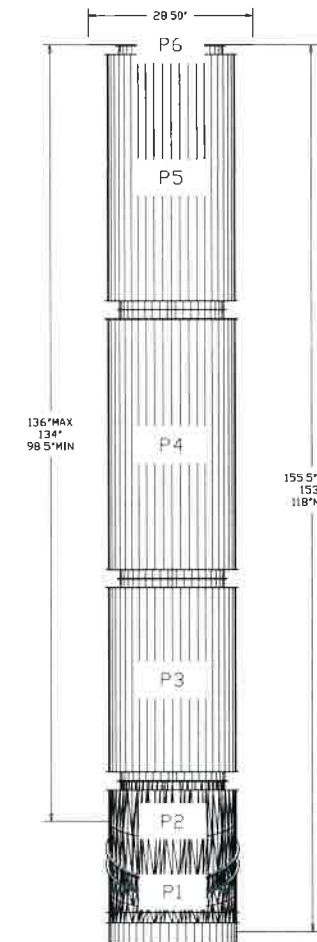
VERTICAL			
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
2R & 2R HT (5'-16')	20'	24'	24'
2R (18')	18'	24'	24'
3R & 3Z (5'-24')	10'	24'	24'
3Z (26' -36')	10'	20'	20'

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

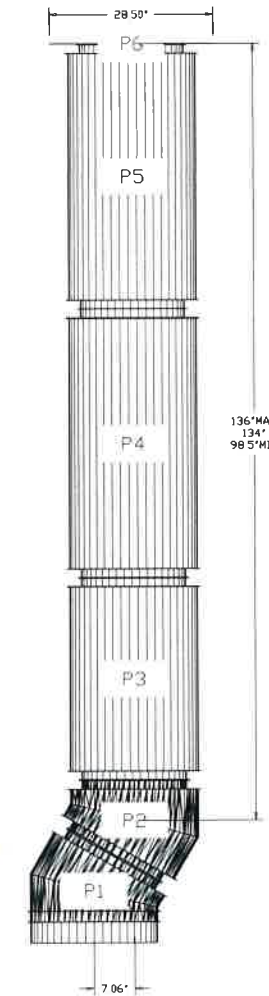
DUCTWORK #1 SE VIEW



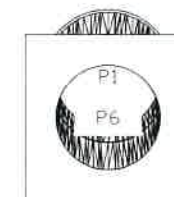
DUCTWORK #1 FRONT VIEW



DUCTWORK #1 SIDE VIEW



DUCTWORK #1 TOP VIEW



SEE ADDITIONAL 14 SHEET DRAWINGS SUBMITTED BY CAPTIVEAIRE. UNABLE TO STAMP APPROVE.

B-21-0544  
CITY OF PUYALLUP

REVISIONS	
DESCRIPTION	DATE

**CAPTIVEAIRE**

Sustainable Airflow

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TANDORI GRILL  
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DATE: 6/10/2021  
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SHEET NO. 8