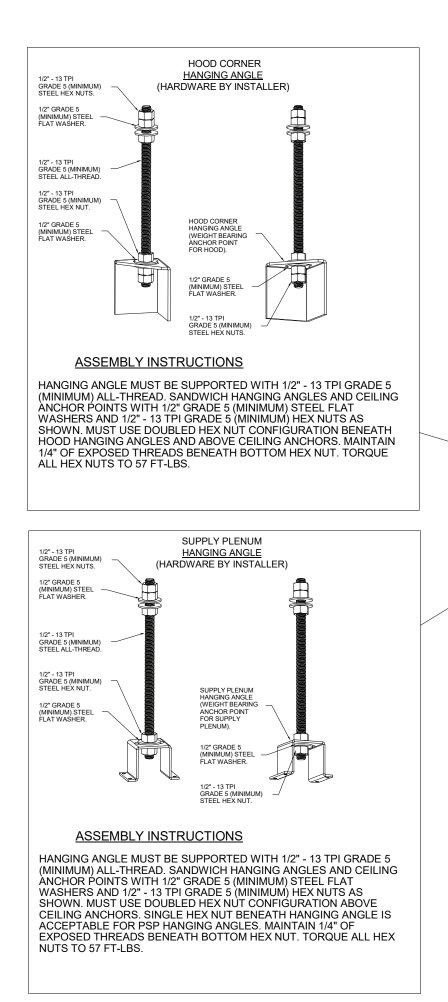
2 <i>B</i> -#	5210956						MAX			DERION	TOTAL							TOTAL	HOOD	HOOD	CONFIG			
ÓƠD [≁] NO	TAG	MODEL	MANUF	ACTURE	ER LEN	GTH (COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	WIDTH	LENG HEI	RISER(GHT DIA	CFM	VEL	SP	SUPPLY CFM	HOOD CONSTRUCTION	END TO END	ROW			
1		7224 VHB-G-PSP-F-ND	CAPT	TIVEAIRE	E 10	6"	700 DEG	Ш	N/A	150	1575		4	." 16"	1575	1128	-0.134"	1260	430 SS 100%	LEFT	ALONE			
2		7224 VHB-G-PSP-F-ND	CAPT	TIVEAIRE	E 10	6"	700 DEG	П	N/A	150	1575		4	." 16"	1575	1128	-0.134"	1260	430 SS 100%	RIGHT	ALONE			
3		6624 ND-2-PSP-F	CAPT	TIVEAIRE	8'	0"	450 DEG	I	MEDIUM	200	1600		4	- 14"	1600	1497	-0.734"	1300	430 SS WHERE EXPOSED	LEFT	BACK			
4		6624 ND-2-PSP-F	CAPT	TIVEAIRE	9'	0"	450 DEG	I	MEDIUM	175	1575		4	- 14"	1575	1473	-0.680"	1300	430 SS WHERE EXPOSED	RIGHT	BACK			
5		7224 ND-2-PSP-F	CAPT	TIVEAIRE	9'	0"	450 DEG	I	MEDIUM	175	1575		4	- 14"	1575	1473	-0.680"	1300	430 SS WHERE EXPOSED	LEFT	FRONT			
6		7224 ND-2-PSP-F	CAPT	TIVEAIRE	8'	0"	450 DEG	I	MEDIUM	200	1600		4	" 14"	1600	1497	-0.734"	1300	430 SS WHERE EXPOSED	RIGHT	FRONT			
7		7224 ND-2-PSP-F	CAPT	TIVEAIRE	8'	0"	450 DEG	I	MEDIUM	200	1600		4	." 16"	1600	1146	-0.416"	1280	430 SS WHERE EXPOSED	LEFT	BACK			
8		7224 ND-2-PSP-F	CAPT	TIVEAIRE	8'	0"	450 DEG	I	MEDIUM	200	1600		4	" 16"	1600	1146	-0.416"	1408	430 SS WHERE EXPOSED	RIGHT	BACK			
9		6024 ND-2-PSP-F	CAPT	TIVEAIRE	8'	0"	600 DEG	I	HEAVY	250	2000		4	." 18"	2000	1132	-0.530"	1580	430 SS WHERE EXPOSED	LEFT	FRONT			
10		6024 ND-2-PSP-F	CAPT	IVEAIRE	8'	0"	600 DEG	I	HEAVY	250	2000		4	." 18"	2000	1132	-0.530"	1580	430 SS WHERE EXPOSED	RIGHT	FRONT			
11	Test Kitchen	5424 ND-2	CAPT	TIVEAIRE	7'	0"	600 DEG	I	HEAVY	215	1505		4	- 14"	1505	1408	-0.722"	0	430 SS WHERE EXPOSED	ALONE	ALONE			
<u>00</u>						<u>, </u>						0)												
DOD NO	RMATION TAG	TYPE			FILTER(S	Í	HEFFICI	ENCY @ 7	MICRONS QT	TY	LIGHT(5)	WIRE	LOCATIO	N	SIZE			UTILITY CABINET(S) E SYSTEM			SWITCHES		HOOD HANGIN
													GUARD				Т	YPE	SIZE	N	IODEL #	QUANTITY	PIPING	WEIGH
1									5	5 R	ECESSED R	OUND	NO										NO	LBS
2									5	5 R	ECESSED R	OUND	NO										NO	462 LBS
3		CAPTRATE SOLO F	ILTER	5	16"	16"	85%	SEE FILTE	R SPEC 3	B R	ECESSED R	OUND	NO	LEFT	1	2"x66"x24	" TAT	NK FS	4.0/4.0				YES	769 LBS
4		CAPTRATE SOLO F	ILTER	6	16"	16"	85%	SEE FILTE	R SPEC 3	B R	ECESSED R	OUND	NO										YES	465 LBS
5		CAPTRATE SOLO F	ILTER	6	16"	16"	85%	SEE FILTE	R SPEC 3	B R	ECESSED R	OUND	NO										YES	482 LBS
6		CAPTRATE SOLO F	ILTER	5	16"	16"	85%	SEE FILTE	R SPEC 3	B R	ECESSED R	OUND	NO	RIGHT	1	2"x72"x24'	'IAT	NK FS	4.0/4.0	D	CV-2111	1 LIGHT 1 FAN	YES	836 LBS
7		CAPTRATE SOLO F	ILTER	5	20"	16"	85%	SEE FILTE	R SPEC 2	2 R	ECESSED R	OUND	NO										YES	484 LBS
8		CAPTRATE SOLO F	ILTER	5	20"	16"	85%	SEE FILTE	R SPEC 2	2 R	ECESSED R	OUND	NO	RIGHT	1	2"x72"x24'	IAT "	NK FS	4.0/4.0	D	CV-2111	1 LIGHT 1 FAN	YES	827 LBS
9		CAPTRATE SOLO F	ILTER	5	20"	16"	85%	SEE FILTE	R SPEC 2	2 R	ECESSED R	OUND	NO	LEFT	1	2"x60"x24'	IAT "	NK FS	4.0/4.0/4.0				YES	840 LBS
10		CAPTRATE SOLO F	ILTER	5	20"	16"	85%	SEE FILTE	R SPEC 2	2 R	ECESSED R	OUND	NO										YES	453 LBS
11	Test Kitchen	CAPTRATE SOLO F	ILTER	5	16"	16"	85%	SEE FILTE	R SPEC 2	2 R	ECESSED R	OUND	NO	LEFT	1	2"x54"x24'	" TAT	NK FS	4.0	SC-	210110MA	1 LIGHT 1 FAN	YES	598 LBS

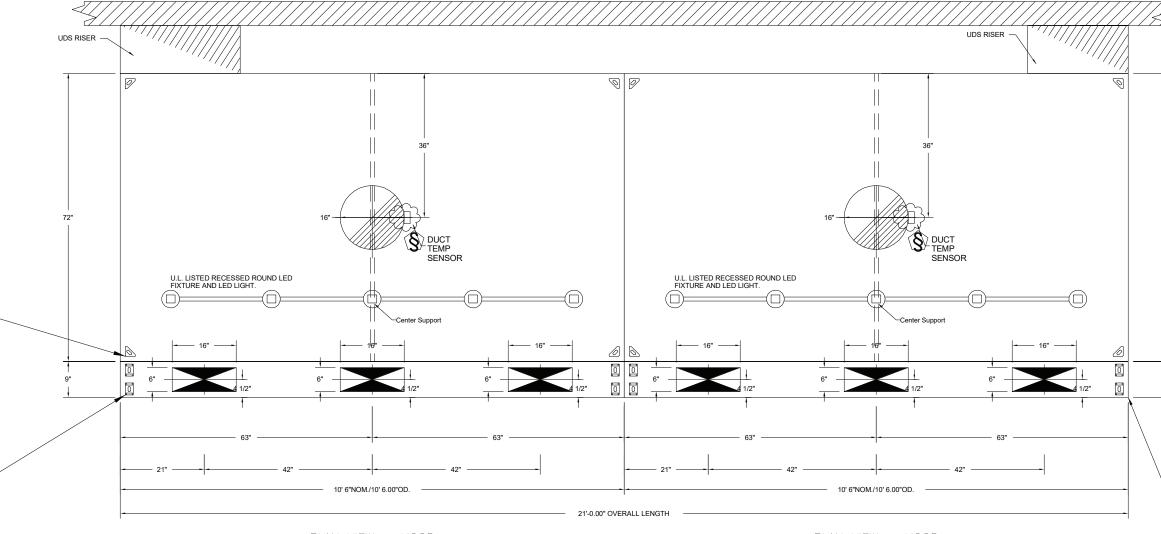


THESE ARE OLD CAPTIVE AIRE SELECTIONS. WAITING FOR NEW CAPTIVE AIRE DETAILS WITH 208V

		ED SL							RISER	S)	
	UM(S D TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	WIDTH	LENG	DIA	CFM	SP
						MUA	6"	16"		420	0.249
1		Front	126"	9"	6"	MUA	6"	16"		420	0.249
						MUA	6"	16"		420	0.249
						MUA	6"	16"		420	0.249
2		Front	126"	9"	6"	MUA	6"	16"		420	0.249
						MUA	6"	16"		420	0.249
						MUA	6"	16"		432	0.262
3		Front	108"	9"	6"	MUA	6"	16"		432	0.262
						MUA	6"	16"		432	0.262
						MUA	6"	16"		432	0.262
4		Front	109"	9"	6"	MUA	6"	16"		432	0.262
						MUA	6"	16"		432	0.262
						MUA	6"	16"		432	0.262
5		Front	109"	9"	6"	MUA	6"	16"		432	0.262
						MUA	6"	16"		432	0.262
						MUA	6"	16"		432	0.262
6		Front	108"	9"	6"	MUA	6"	16"		432	0.262
						MUA	6"	16"		432	0.262
7		Front	96"	9"	6"	MUA	6"	28"		636	0.310
		Front	90	9	0	MUA	6"	28"		636	0.310
		Front	108"	9"	6"	MUA	6"	28"		640	0.269
8		FIOIL	100	9	0	MUA	6"	28"		640	0.269
						MUA	6"	28"		600	0.278
9		Front	108"	9"	6"	MUA	6"	28"		600	0.278
						MUA	6"	16"		400	0.227
						MUA	6"	28"		600	0.278
10		Front	96"	9"	6"	MUA	6"	28"		600	0.278
						MUA	6"	16"		400	0.227

IQD/NQ)	NS tag	OPTION
		RISER SENSOR INSTALL 6IN PLEN.
3		LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 4 SS.
4		RIGHT END STANDOFF (FINISHED) 1" WIDE 66" LONG INSULATED.
4		RISER SENSOR INSTALL 6IN PLEN.
5		LEFT END STANDOFF (FINISHED) 1" WIDE 72" LONG INSULATED.
5		RISER SENSOR INSTALL 6IN PLEN.
		RISER SENSOR INSTALL 6IN PLEN.
6		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED SS.
7		LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 4 SS.
8		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED SS.
9		LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 4 SS.
10		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED SS.
		RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.
11	Test Kitchen	LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.
		DI-PSP 12" 309CFM [QTY. 3].

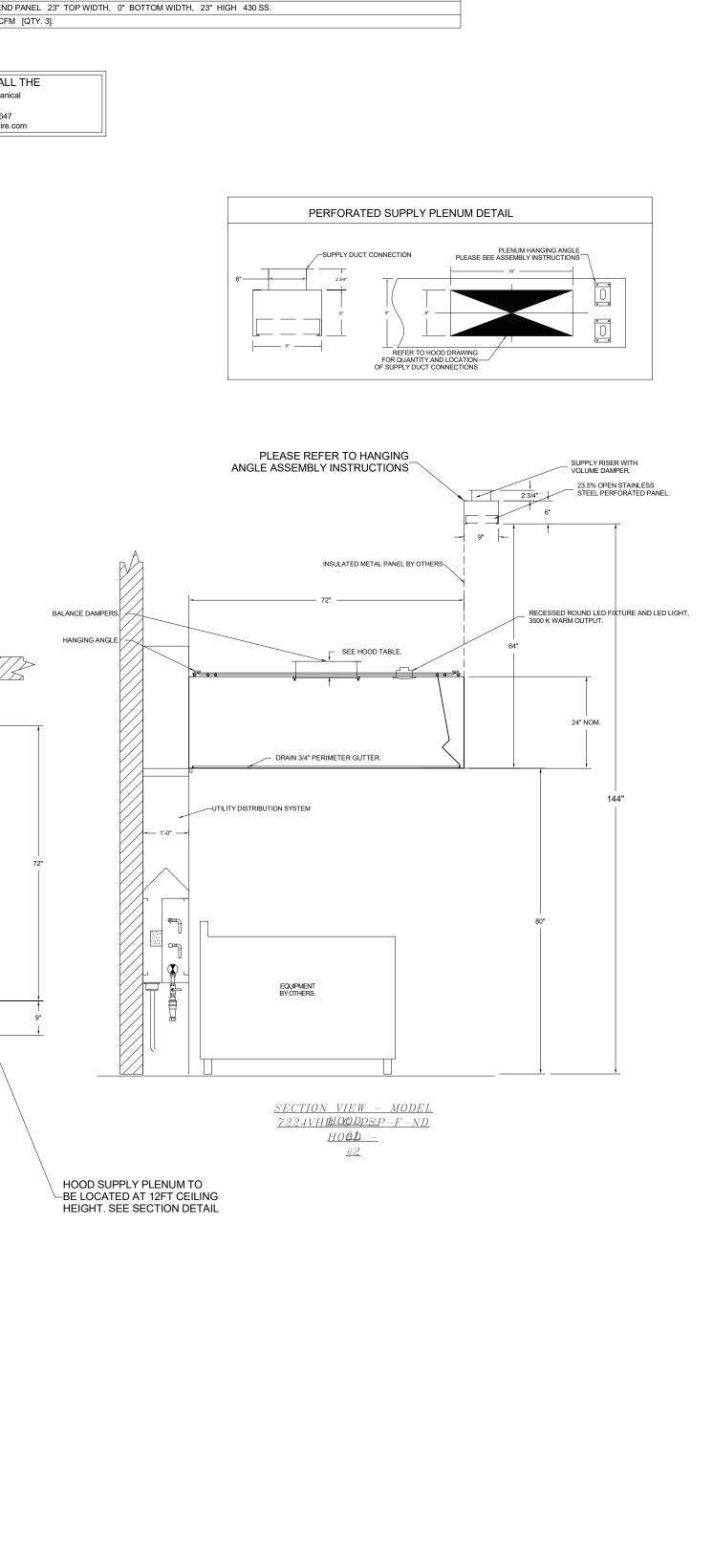
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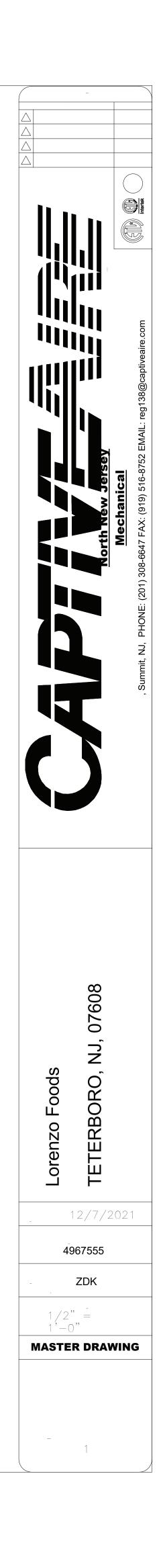


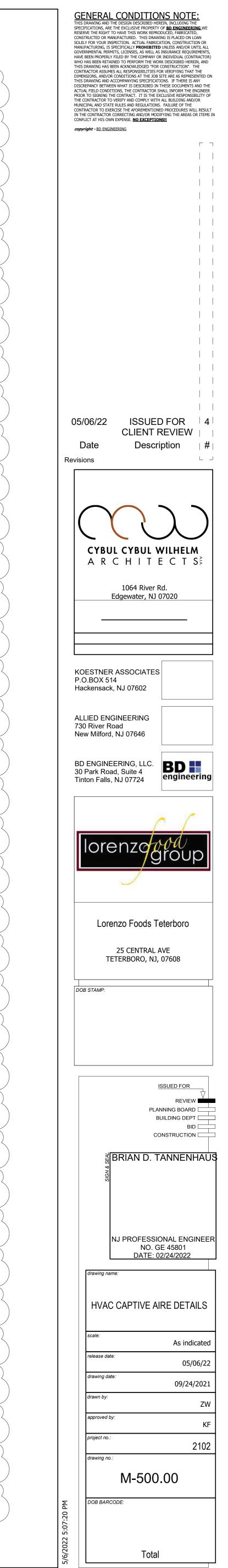
PLAN VIEW - HOOD 10' 6.000" LONG 7224VHB - G - PSP - F - N

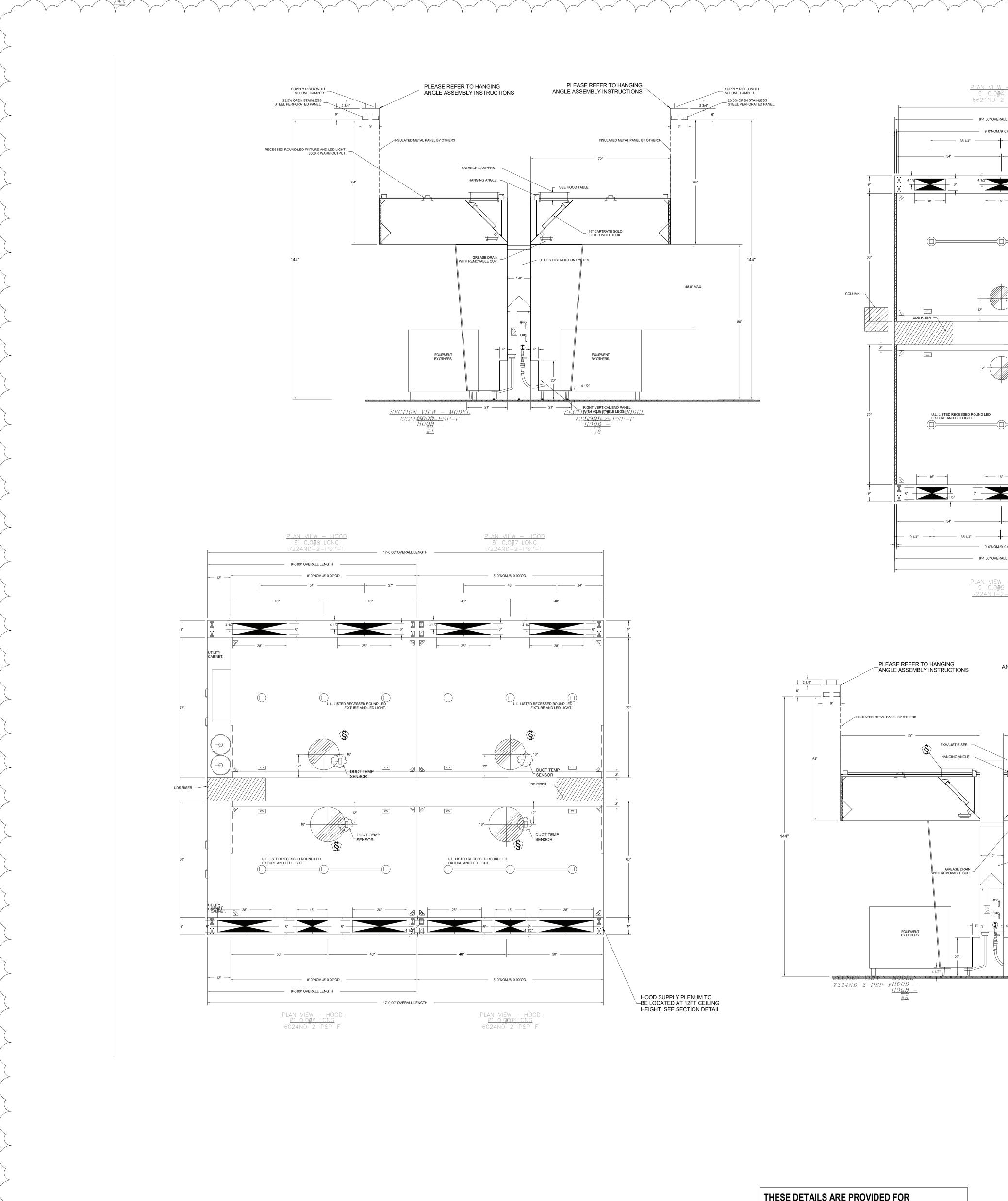
PLAN VIEW - HOOD /224VHB-G-PSP-F-N

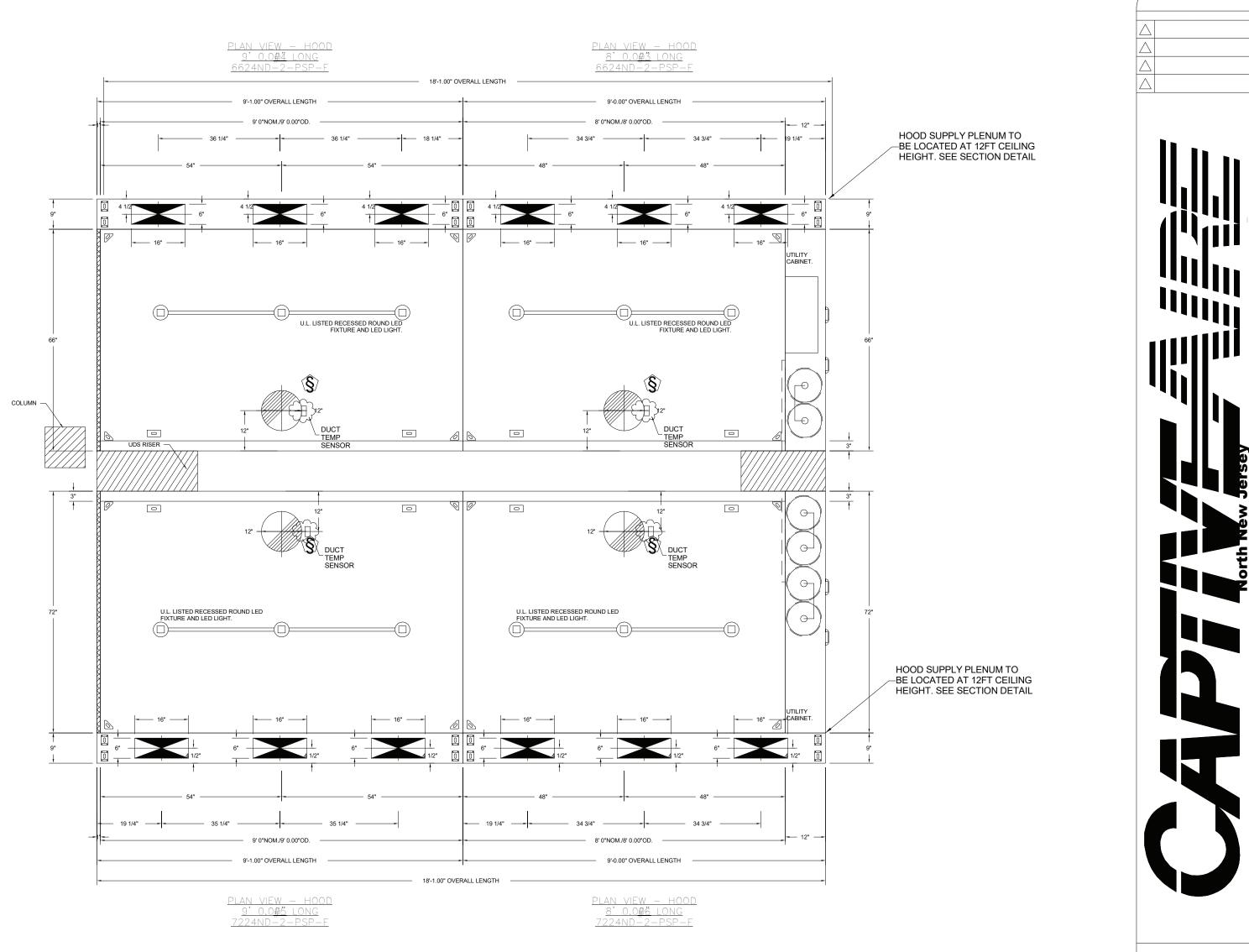
THESE DETAILS ARE PROVIDED FOR DIAGRAMMATIC PURPOSES ONLY. REFER TO THE MANUFACTURES SHOP DRAWINGS, DETAILS AND INSTALLATION INSTRUCTIONS FOR FINAL **REQUIREMENTS.**











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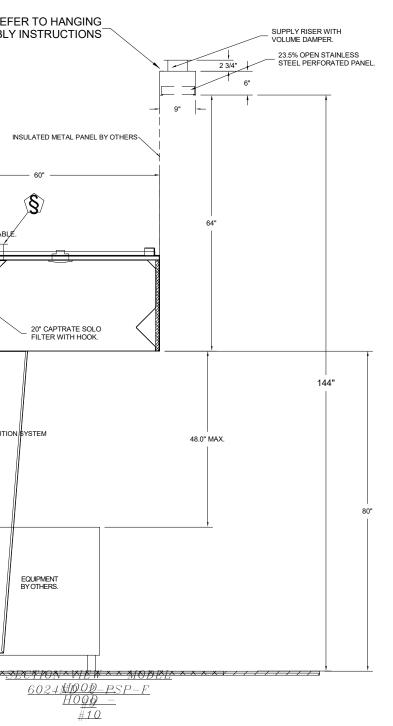
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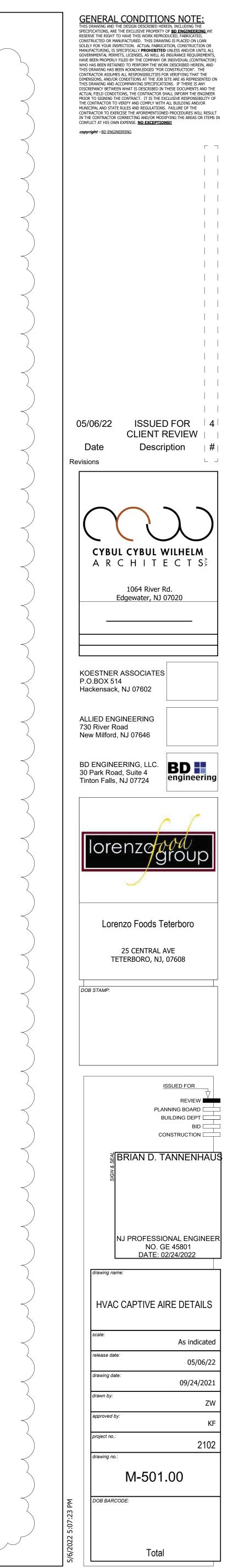
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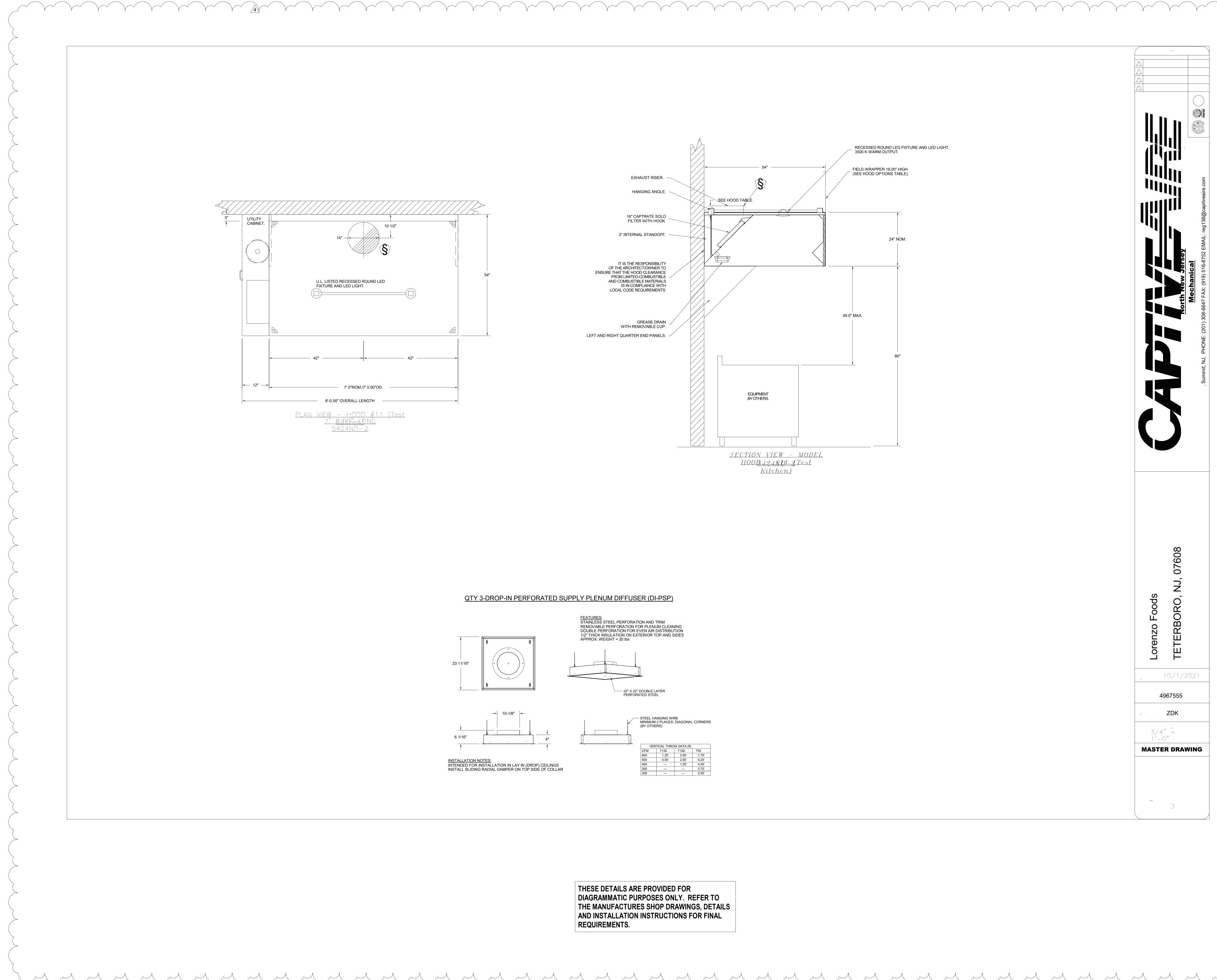
PLEASE REFER TO HANGING PLEASE REFER TO HANGING ANGLE ASSEMBLY INSTRUCTIONS ANGLE ASSEMBLY INSTRUCTIONS 2 3/4" 6" -- 9" /INSULATED METAL PANEL BY OTHERS EXHAUST RISER. -HANGING ANGLE. -SEE HOOD TABLE ∕¥∏ UTILITY DISTRIBUTION SYSTEM GREASE DRAIN VITH REMOVABLE CUP. EQUIPMENT BY OTHERS. EQUIPMENT BY OTHERS. 4 1/2 <u>7224ND-2-PSP-FH00D -</u> <u>H04P -</u> #8

THESE DETAILS ARE PROVIDED FOR DIAGRAMMATIC PURPOSES ONLY. REFER TO THE MANUFACTURES SHOP DRAWINGS, DETAILS AND INSTALLATION INSTRUCTIONS FOR FINAL **REQUIREMENTS.**



	, Summit, NJ, PHONE: (201) 308-6647 FAX: (919) 516-8752 EMAIL: reg138@captiveaire.com
Lorenzo Foods	TETERBORO, NJ, 07608
	967555
-	ZDK
1/2'	,,,,
	R DRAWING
-	2

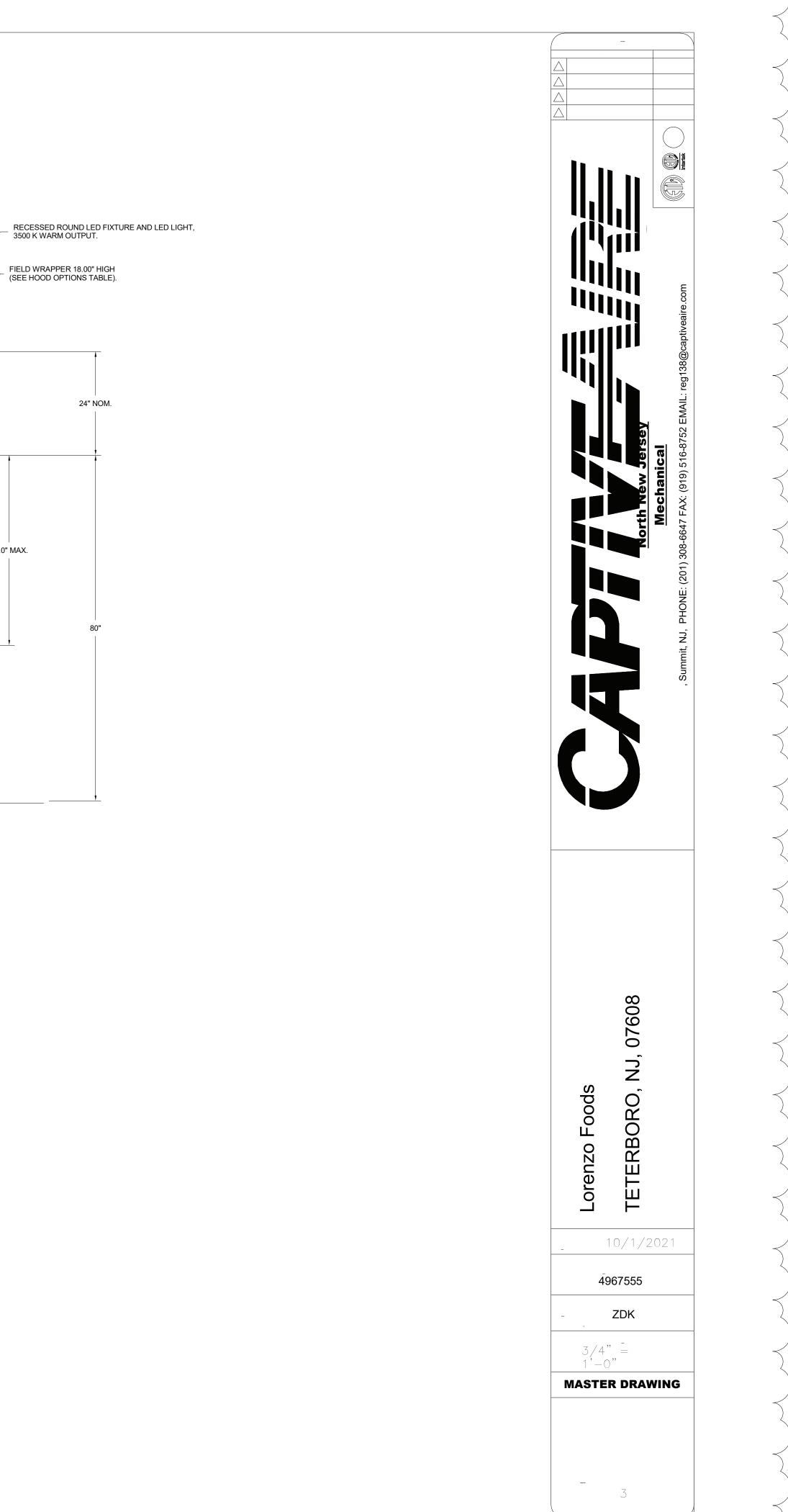




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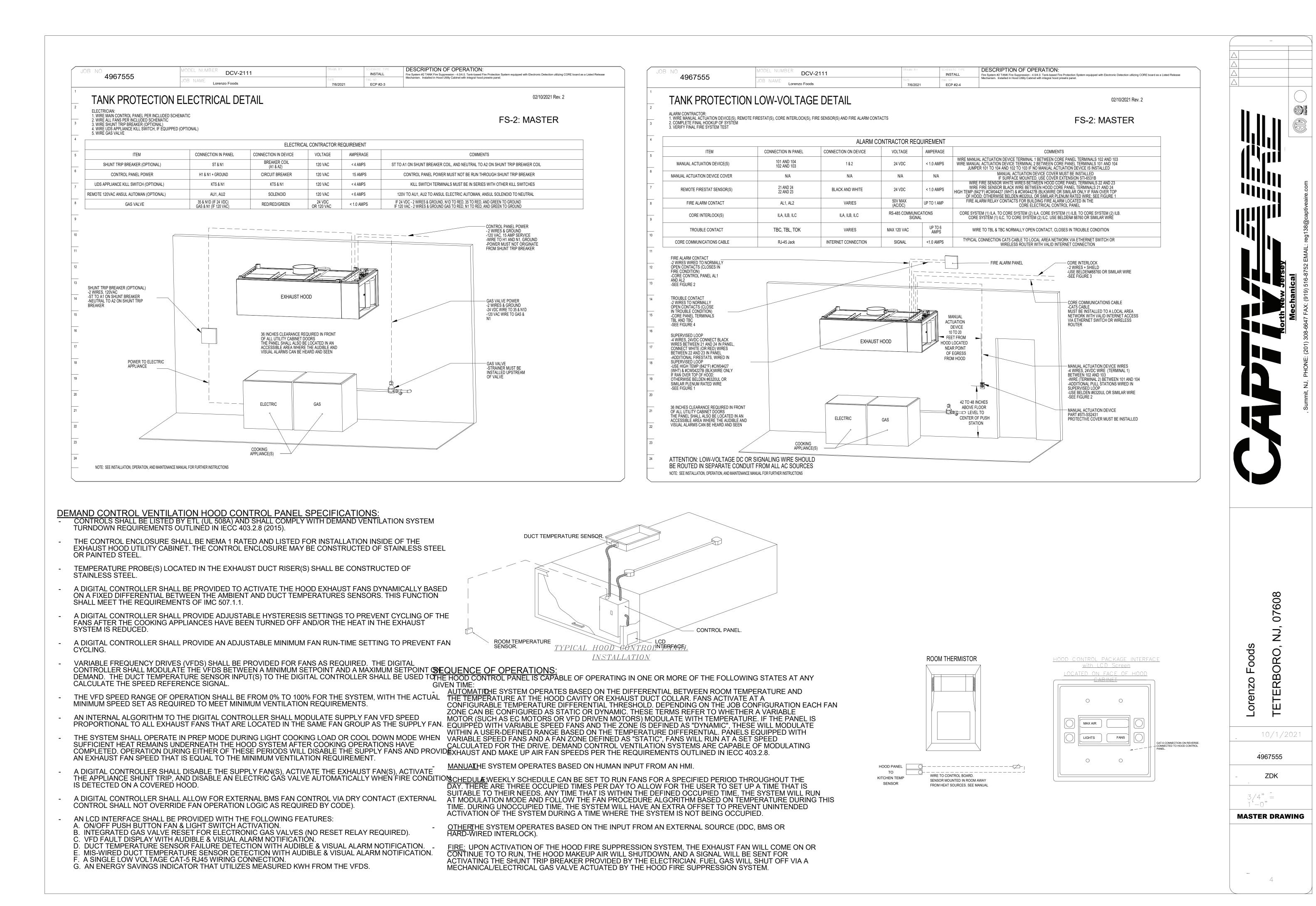


48.0" MAX.

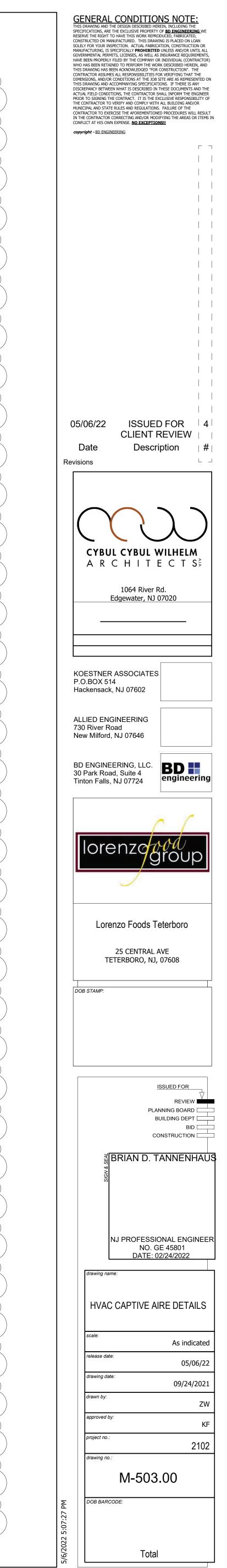
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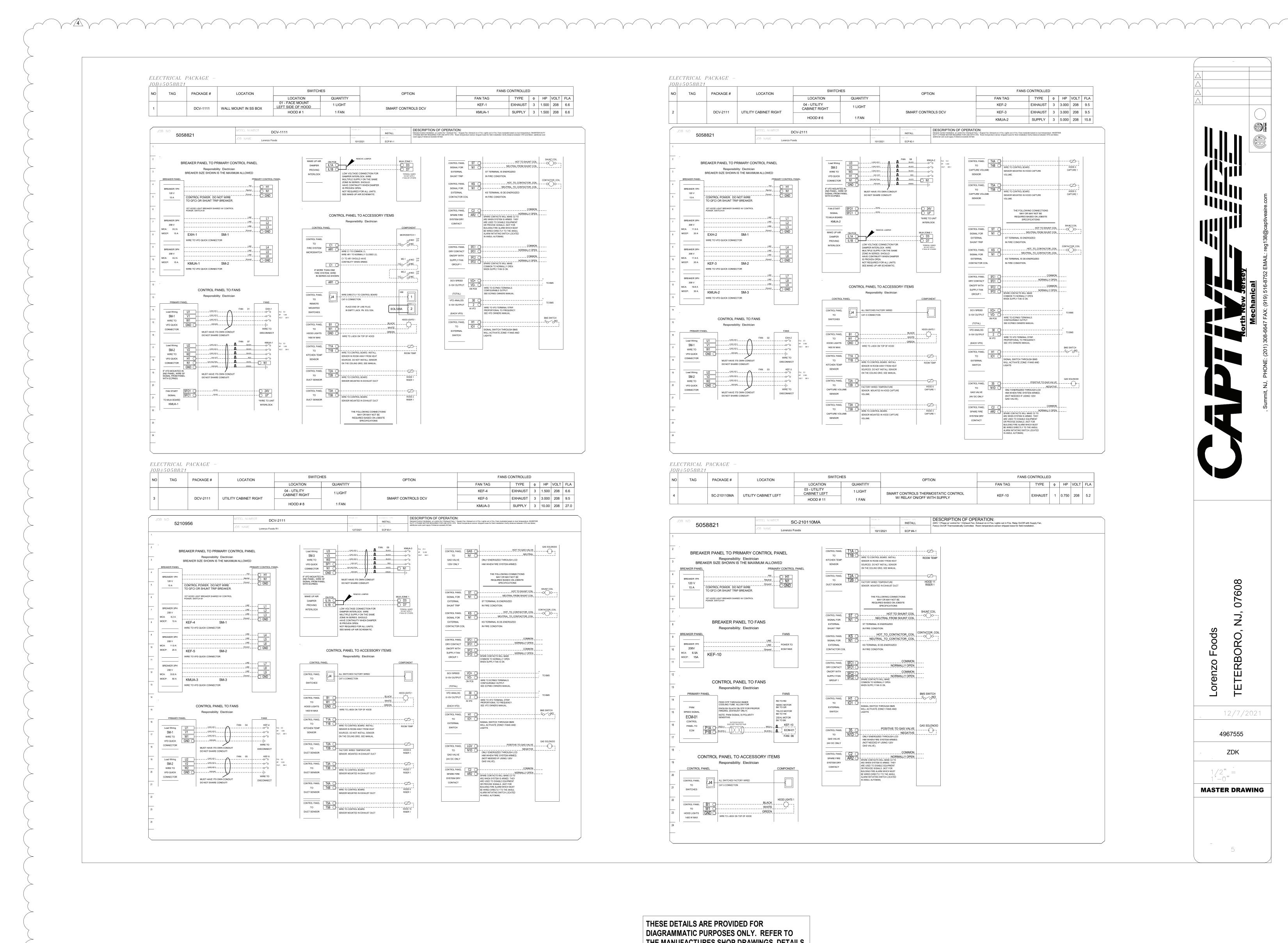


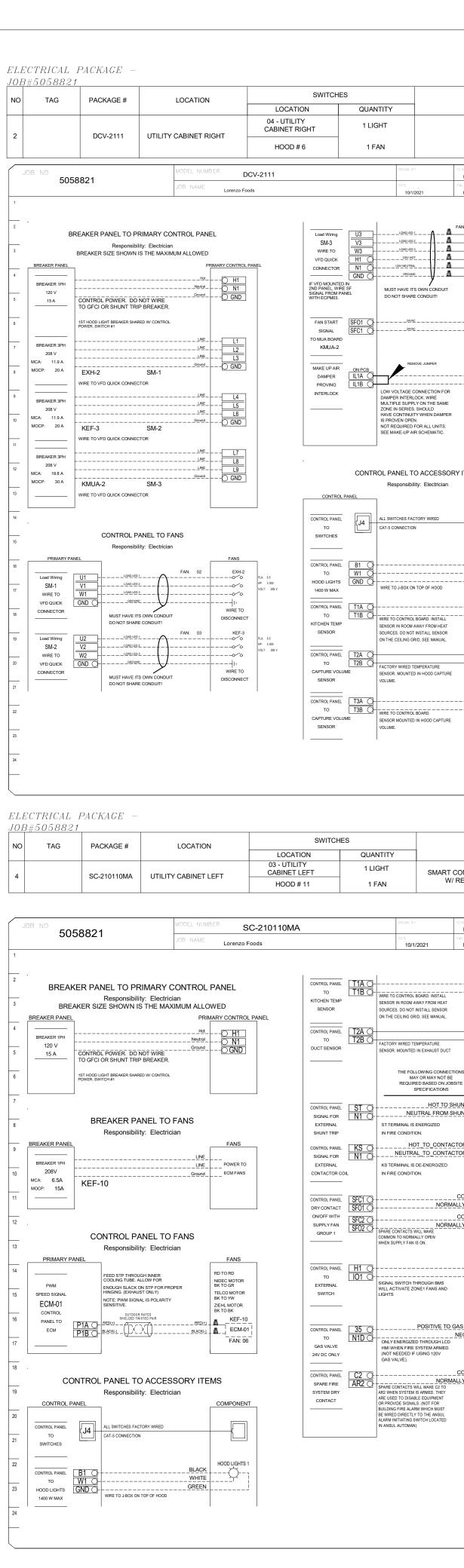
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THESE DETAILS ARE PROVIDED FOR DIAGRAMMATIC PURPOSES ONLY. REFER TO THE MANUFACTURES SHOP DRAWINGS. DETAILS AND INSTALLATION INSTRUCTIONS FOR FINAL **REQUIREMENTS.**

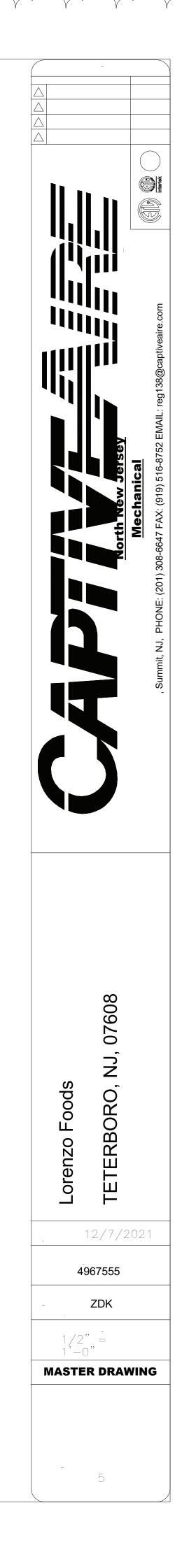


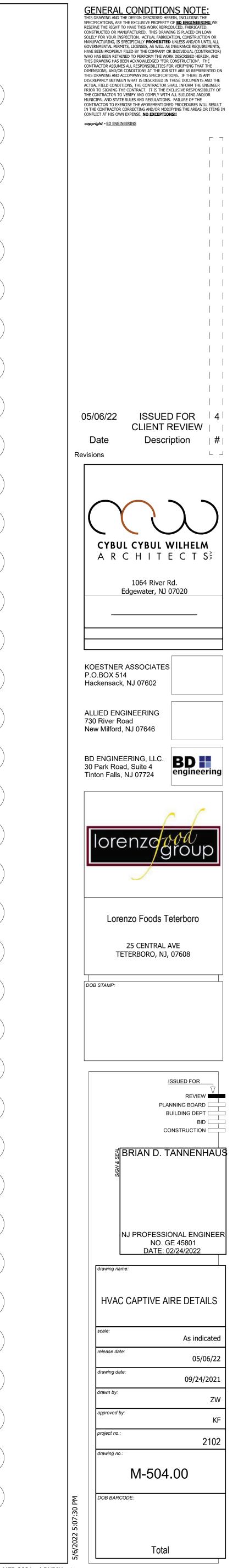




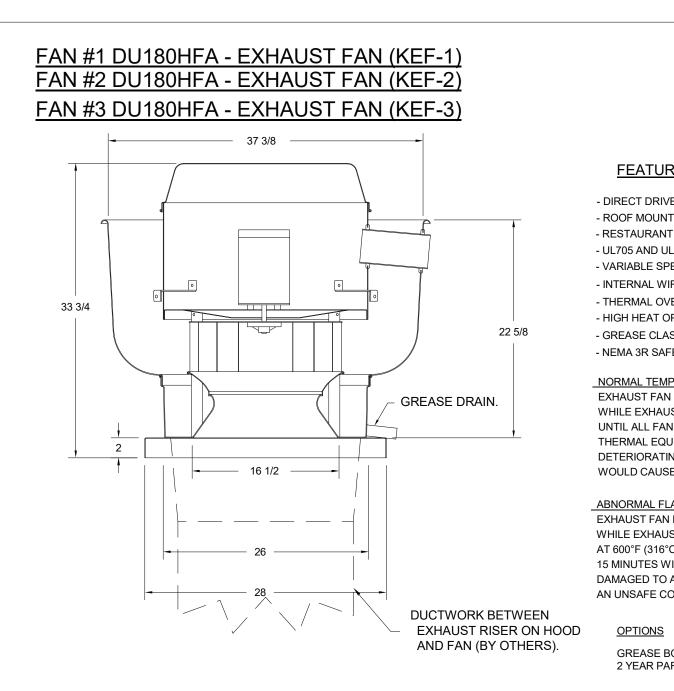
OPTION	FANS CONTROLLED
	FAN TAG TYPE ϕ HP VOLT FL
	KEF-2 EXHAUST 3 3.000 208 9.
SMART CONTROLS DCV	KEF-3 EXHAUST 3 3.000 208 9.
	KMUA-2 SUPPLY 3 5.000 208 15
Schedulatic Type INSTALL Demand Control Vertiliation, w/ con DUTY 3 PARAM COTOR RECOUNT UTY 3 PARAM COTOR RECOUNT additional cost could apply if distant ECP #2-1	ntrol for 2 Exhaust Fans, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fans modulate based on duct temperature. INVERTER ED FOR USE WITH VFD. Room temperature sensor shipped loose for field installation.Verify distance between VFD and Motor;
FAN: 08 KMUA-2 FA. 15.8 BLACK 0	CONTROL PANEL T4A O TO T4B O CAPTURE VOLUME SENSOR MOUNTED IN HOOD CAPTURE CAPTURE 1 VOLUME. CONTROL PANEL T5A O TO T5B O WIRE TO CONTROL BOARD. HOOD 5
	CAPTURE VOLUME SENSOR MOUNTED IN HOOD CAPTURE CAPTURE 1 VOLUME THE FOLLOWING CONNECTIONS MAY OR MAY NOT BE REQUIRED BASED ON JOBSITE SPECIFICATIONS CONTROL PANEL ST N CONTROL PANEL ST N CONTROL PANEL ST N CONTROL PANEL ST CONTR
R	EXTERNAL ST TERMINAL IS ENERGIZED SHUNT TRIP IN FIRE CONDITION. CONTROL PANEL KS
	CONTROL PANEL SFC1 DRY CONTACT SFC1 ON/OFF WITH SUPPLY FAN GROUP 1 SFC2 SFARE CONTACTS WILL MAKE COMMON TO NORMALLY OPEN WHEN SUPPLY FAN IS ON.
	DCV SPEED V0+ - * TO BMS 0-10V OUTPUT VO- - - TO BMS (TOTAL) WIRE TO ECPM03 TERMINALS. CONFIGURABLE OUTPUT. SEE ECPM03 OWNERS MANUAL. - - - TO BMS VFD ANALOG 30 - - - TO BMS NVFD ANALOG 30 - - - TO BMS
	(EACH VFD) (EACH VFD) CONTROL PANEL TO EXTERNAL SWITCH
HOOD 6 CAPTURE 1	CONTROL PANEL 35 C POSITIVE TO GAS VALVE GAS SOLENOID TO NID CONLY ENERGIZED THROUGH LCD NEGATIVE CONLY ENERGIZED THROUGH LCD HAILWHEN FIRE SYSTEM ARMED. (NOT NEEDED IF USING 120V GAS VALVE).
	CONTROL PANEL C2 SPARE FIRE AR2 SYSTEM DRY AR2 WHEN SYSTEM IS ARMED: THEY AR2 WHEN SYSTEM IS ARMED: THEY AR2 WHEN SYSTEM IS ARMED. THEY AR2 USED TO DISABLE EQUIPMENT CONTACT OR PROVIDE SIGNALS, (NOT FOR BUILDING FIRE ALARM WHICH MUST BE WIRED DIRECTLY TO THE ANSUL ALARM INITIATING SWTCH LOCATED IN ANSUL AUTOMN)

		NI.			F	ANS CONTROLLE	D			
	OPTIO	/IN			FAN TAG	TYPE	φ	HP	VOLT	FLA
RT CONTROL W/ RELAY O					KEF-10	EXHAUST	1	0.750	208	5.2
				I			1	1	1	1
SCHEMATIC TYPE		220V 1 Phase w	PTION OF control for 1 Exhau	st Fan, Exhaust on	ON: in Fire, Lights out in Fire, Relay C erature sensor shipped loose for	Dn/Off with Supply Fan,				
DWG NO ECP #4-1		Fail(s) OffOIT	lernostatically con	rolled. Room temp	erature sensor snipped loose for	nero instanation.				
	├⊄	_ _آ ا								
 Γ Π	ROOM TI	EMP								
R 										
JCT	HOOD RISER	1								
ECTIONS										
T BE JOBSITE NS										
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M SHUNT COIL										
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COMMON RMALLY OPEN										
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	<u>-</u> o-o <u>r</u>	<u>NO</u>								
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TO GAS VALVE	GAS SOLE									
NEGATIVE										
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RMALLY OPEN	+									

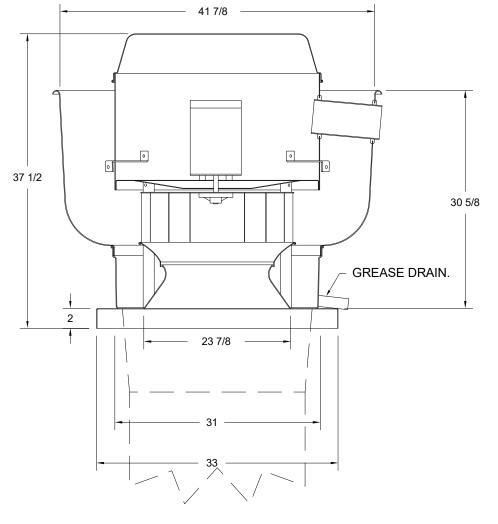




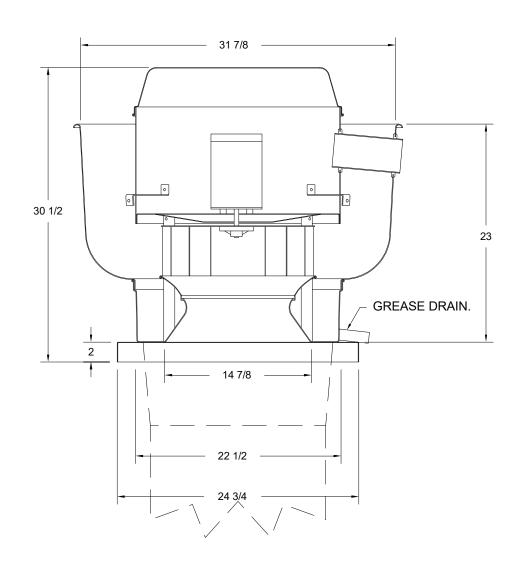
/EAN UNIT#	5 <i>2109</i> 3 TAG	δíγ	<u>DRMATIO.</u> FAN UNIT		MANUFACTUR	ER CFM	ESP	RPM	MO		HP	BHP	PHASE	VOLT	FLA		HARGE OCITY		WEIGHT (LBS)	SONE	ES
NO 1	KEF-1	1	DU18	OHFA	CAPTIVEAIR	E 3150	0.750	1130		REMIUM	1.500	1.0310	3	208	6.6		FPM		169	15.5	
2	KEF-2	1	DU18	OHFA	CAPTIVEAIR	E 3175	1.500	1336	ODP,PF	EMIUM	3.000	1.7120	3	208	9.5	733	FPM		183	19.9)
3	KEF-3 KEF-4	1	DU18		CAPTIVEAIR		1.500	1336	· ·			1.7120 1.2740	3 3	208 208	9.5 6.6		FPM FPM		183 176	19.9	
5	KEF-5	1	DU18		CAPTIVEAIR		1.000	1386		EMIUM		1.8960	3	208	9.5		FPM		183	23	
6	KEF-10			5HFA	CAPTIVEAIR	E 1505	1.000	1275	TEAO	-ECM	0.750	0.3760	1	208	5.2	476	FPM		88	11.2	:
	FAN I. 52109: TAG	NFORMA 56 QTY		MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM		DTOR	HP	BHP	PHASE	VOLT	FLA	MCA	МОСР	WEIGHT (LBS)	SONE
NO 7	KMUA-1	1	A2-D.2	250-20D	20MF-2-MOD	A2-D.250	2000	2520	0.500	1109		REMIUM	1.500	0.7660	3	208	6.6	8.3A	15A	677	9.1
8	KMUA-2	1	A3-D.5	500-24D	24MF-3-MOD	A3-D.500	3500	5200	0.500	1261	ODP,P	REMIUM	5.000	3.9720	3	208	15.8	19.8A	35A	913	12
9	KMUA-3	1	A3-D.5	500-24D	24MF-3-MOD	A3-D.500	3500	5760	0.750	1427	ODP,P	REMIUM	10.000	5.7010	3	208	27.0	33.8A	60A	934	14.5
10	KMUA-4	1	A3-D.5	500-24D	24MF-3-MOD	A3-D.500	3500	6600	0.500	1541	ODP,P	REMIUM	10.000	7.3480	3	208	27.0	35A	60A	966	16.5
11	KMUA-5	1	A2-IBT-	-300-20D	20MF-2-MOD	A2-IBT-300	1200	3500	0.500	1342	ODP,P	REMIUM	2.000	1.5670	3	208	8.9	12.8A	20A	1200	12.1
12	KMUA-6	1	A2-IBT-	-300-20D	20MF-2-MOD	A2-IBT-300	1200	3500	0.500	1342	ODP,P	REMIUM	2.000	1.5670	3	208	8.9	12.8A	20A	1200	12.1
	(S)	INPUT	OUTPUT	TEMP RISE	REQUIRED INPU	GAS PRESSU	RE G	AS TYPE	BURN												
NO 7	KMUA-1	BTUs 175528	BTUs 161486	60°F		- 5 LB.		ATURAL	EFFICIEN	. ,											
8	KMUA-2		333226	60°F		- 5 LB.		ATURAL	92												
9	KMUA-3	401209	369112	60°F		- 5 LB.		ATURAL	92												
10 11	KMUA-4 KMUA-5		422940 240000	63°F		- 5 LB. - 5 LB.		ATURAL	92												
12	KMUA-6	300000	240000	63°F	1 LB.	- 5 LB.	N	ATURAL	80												
<u>'AN</u> Fant	ON_{TAG}^S	QTY				DESCRIPTION															
NO 1	KEF-1																				
2	KEF-2	1 G	REASE BOX.																		
3	KEF-3	1 G	YEAR PARTS N																		
			YEAR PARTS N REASE BOX.	WARRANTY.																	
4	KEF-4	1 2	YEAR PARTS \	WARRANTY.																	
5	KEF-5		REASE BOX. YEAR PARTS N	WARRANTY.																	
6	KEF-10	1 E0			GIGNAL FROM ECPM	D3 PREWIRE (T	ELCO MOT	FOR), CCW	ROTATIO	٨.											
				AR PARTS WARRANTY. T PRESSURE GAUGE, 0-35". FOLD PRESSURE GAUGE, -5 TO 15" WC. ORIZED BACKDRAFT DAMPER FOR A2-D HOUSING - MEETS AMCA CLASS 1A RATING.																	
				,		NG - MEETS AN	ICA CLASS	5 1A RATIN	G.												
		SI	JRB DUCT HAI PARATE 120V D) - THREE		GE (REQUIRED AND	USED ONLY FO	OR DCV OR	PREWIRE	WITH												
7	KMUA-1	PI	IÁSE ONLY.	FIRED HEATER L	OW CFM PROFILE PA	ACKAGE - USEI	D ON HEAT	ERS UNDE	R 2500												
			•M. 10 PSI HIGH (GAS PRESSURE	REGULATOR.																
		1 L0	W FIRE STAR	RT.																	
		1 IN	LET PRESSUR	RE GAUGE, 0-35". SSURE GAUGE																	
		1 M	-	CKDRAFT DAMP	ER FOR A3-D HOUSI	NG - MEETS AN	ICA CLASS	6 1A RATIN	G.												
8	KMUA-2	1 VI			GE (REQUIRED AND	USED ONLY FO	OR DCV OR	PREWIRE	WITH												
				GAS PRESSURE	REGULATOR.																
			W FIRE STAR																		
		1 M		SSURE GAUGE, -																	
		1 CI	JRB DUCT HAI	NGER.	ER FOR A4-D HOUSI																
9	KMUA-3	1 VI PI	D) - THREE	RE GAUGE, 0-15#	、 																
		1 L0	W FIRE STAR	RT.	·																
				RE GAUGE, 0-35".																	
				SSURE GAUGE, - CKDRAFT DAMP	-5 TO 15" WC. ER FOR A3-D HOUSI	NG - MEETS AN	ICA CLASS	5 1A RATIN	G.												
10	KMUA-4		DMMERCIAL S JRB DUCT HAI		R/ALARM INTERLOC	K - ALARM SUF	PPLIED BY	OTHERS.													
			10 PSI HIGH (W FIRE STAR	GAS PRESSURE RT.	REGULATOR.																
		1 V/	V PACKAGE V	W/ MANUAL CON	ITROL (VFD INCLUDE	ED).															
				RE GAUGE, 0-35"																	
		1 M	OTORIZED BA	CKDRAFT DAMP	0 TO 10" WC, 1 FURN ER FOR A2-I HOUSIN	IG - MEETS AM															
		U:	SED ON THE IE	BT HEATER,	RALARM INTERLOC INECTION SINGLE M " PREWIRE OPTION		NON-DCV	PREWIRE	S												
11 / 12	KMUA-5 / KMUA-6	B	SELECTED.	DO NOT PROVID	DE SUPPLY STARTER	IN															
		1 CI	OGGED FILTE	ER SWITCH - NO	TIFICATION ON HMI. CONTROL (571 VFD																
		1 L0	AD REACTOR	R MOUNTED IN F	``	,	OL VESTIB	ULE.													
		1 2	YEAR ENTIRE	UNIT PARTS WA	RRANTY, 25 YEAR S	TAINLESS STE	EL FURNA	CE PARTS	WARRANT	Ŷ											
<u>'URE</u> SSE	ENGBLIE	S tag		WEIGHT	ITEM					SIZ	E										
NO 1	FAN	KEF-1		41 LBS	CURB	26.500"W	/ X 26.500"	L X 20.000"	H ALONG			VENTED	HINGED								
2 3	# 2 # 3	KEF-2 KEF-2		41 LBS 41 LBS	CURB CURB			L X 20.000" L X 20.000"													
4	# 4 # 5	KEF-4 KEF-5		41 LBS 41 LBS	CURB			L X 20.000" L X 20.000"													
5				36 LBS	CURB																



FAN #4 (KEF-4) - DU240HFA EXHAUST FAN FAN #5 (KEF-5) - DU240HFA EXHAUST FAN



FAN #6 DU85HFA - EXHAUST FAN (KEF-10)



THESE DETAILS ARE PROVIDED FOR DIAGRAMMATIC PURPOSES ONLY. REFER TO THE MANUFACTURES SHOP DRAWINGS, DETAILS AND INSTALLATION INSTRUCTIONS FOR FINAL **REQUIREMENTS.**

FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS). - ROOF MOUNTED FANS. - RESTAURANT MODEL. - UL705 AND UL762 AND ULC-S645

- VARIABLE SPEED CONTROL.

- INTERNAL WIRING. - THERMAL OVERLOAD PROTECTION (SINGLE PHASE). - HIGH HEAT OPERATION 300°F (149°C). - GREASE CLASSIFICATION TESTING. - NEMA 3R SAFETY DISCONNECT SWITCH.

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.

GREASE BOX. 2 YEAR PARTS WARRANTY.

FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).

- ROOF MOUNTED FANS. - RESTAURANT MODEL.

- UL705 AND UL762 AND ULC-S645

- VARIABLE SPEED CONTROL. - INTERNAL WIRING.
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OPTIONS GREASE BOX. 2 YEAR PARTS WARRANTY.

FEATURES:

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- RESTAURANT MODEL. - UL705 AND UL762 AND ULC-S645

- VARIABLE SPEED CONTROL. - INTERNAL WIRING. - THERMAL OVERLOAD PROTECTION (SINGLE PHASE). - HIGH HEAT OPERATION 300°F (149°C). - GREASE CLASSIFICATION TESTING. - NEMA 3R SAFETY DISCONNECT SWITCH.

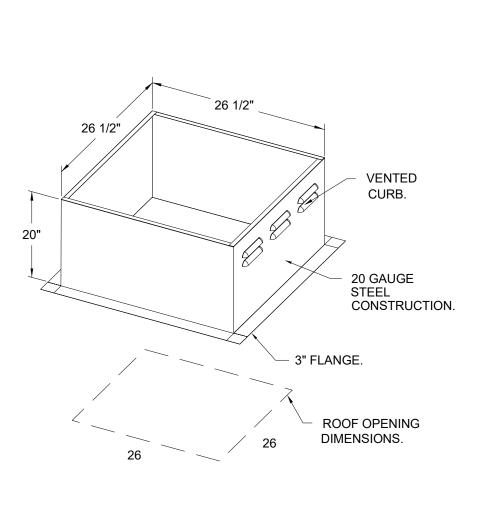
NORMAL TEMPERATURE TEST EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

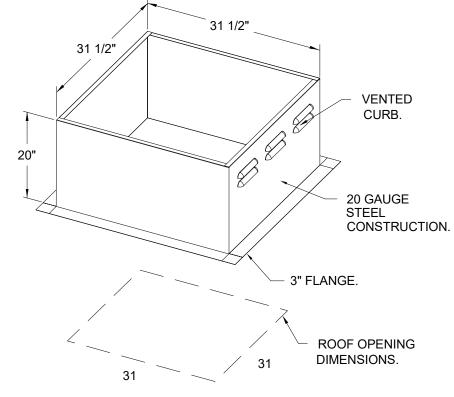
ABNORMAL FLARE-UP TEST EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF

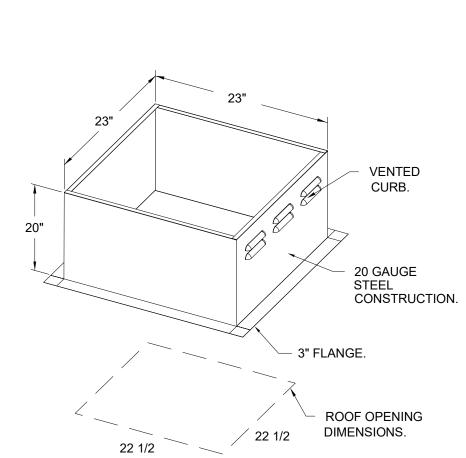
15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

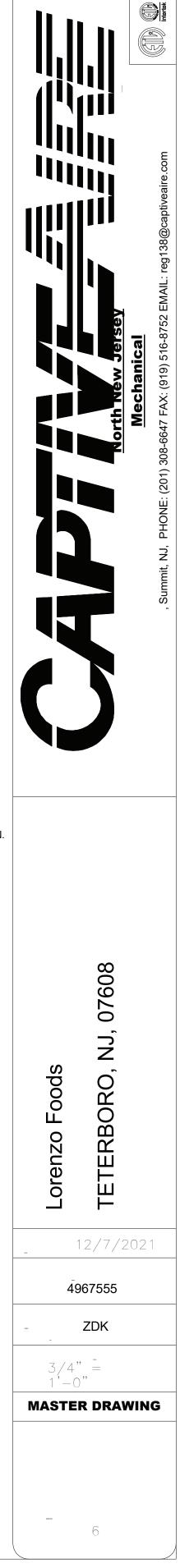
<u>OPTIONS</u> GREASE BOX.

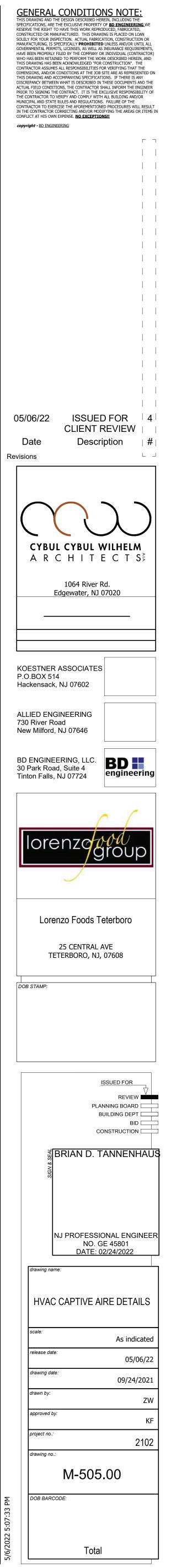
ECM WIRING PACKAGE - PWM SIGNAL FROM ECPMO3 PREWIRE (TELCO MOTOR), CCW ROTATION. 2 YEAR PARTS WARRANTY.

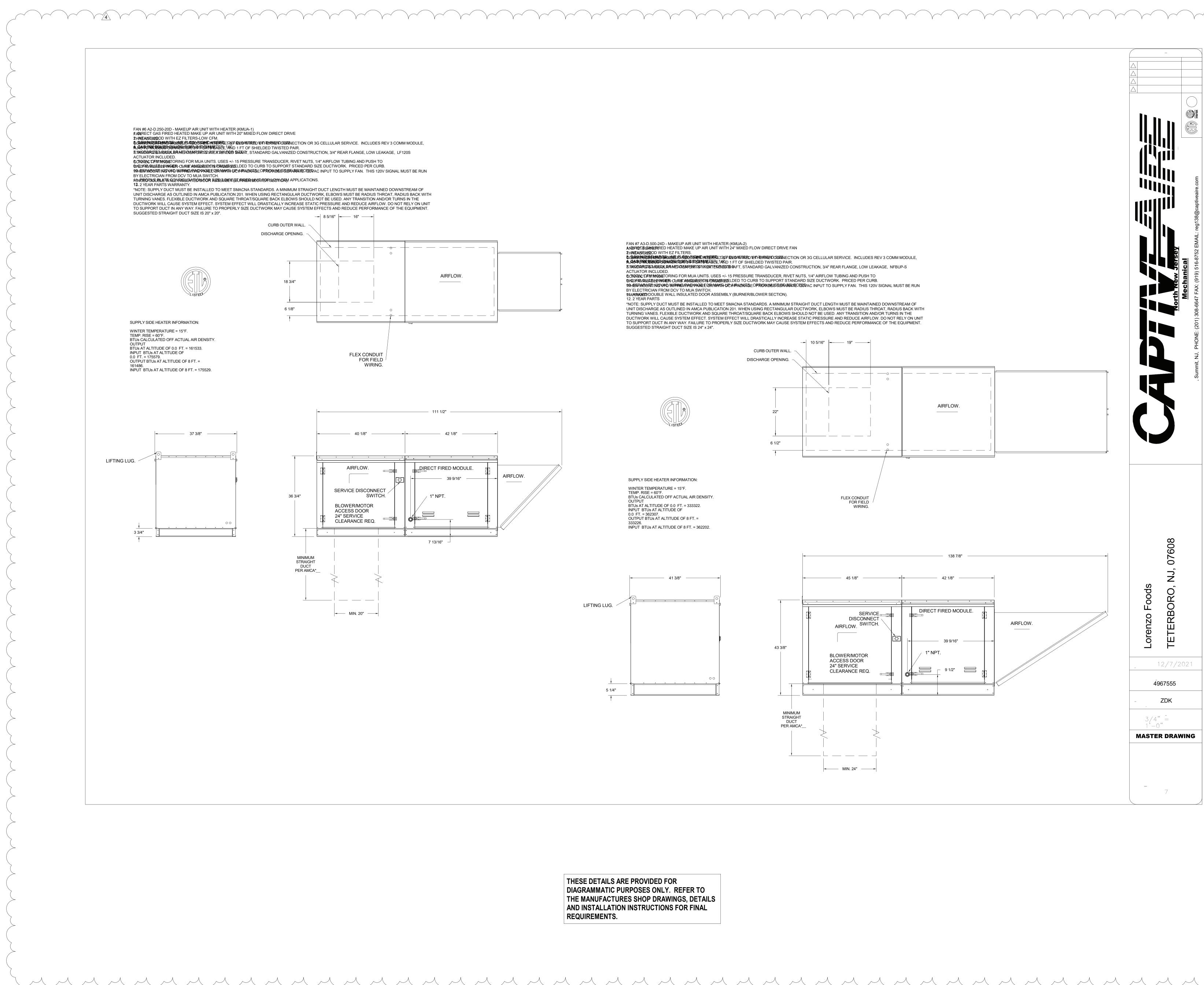


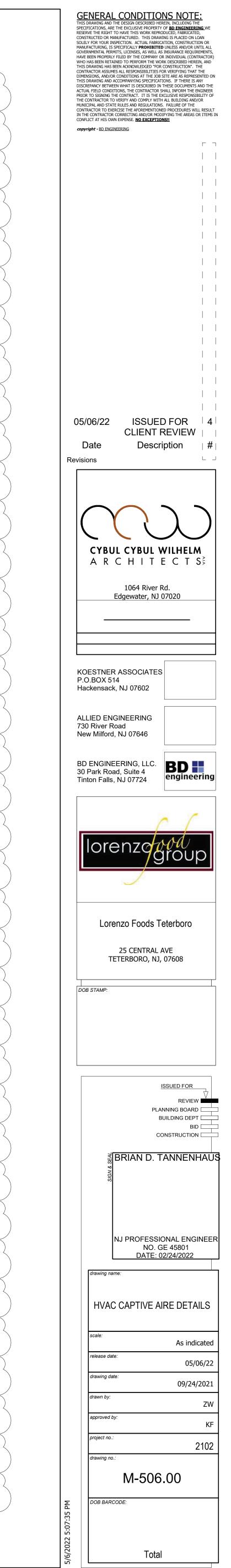


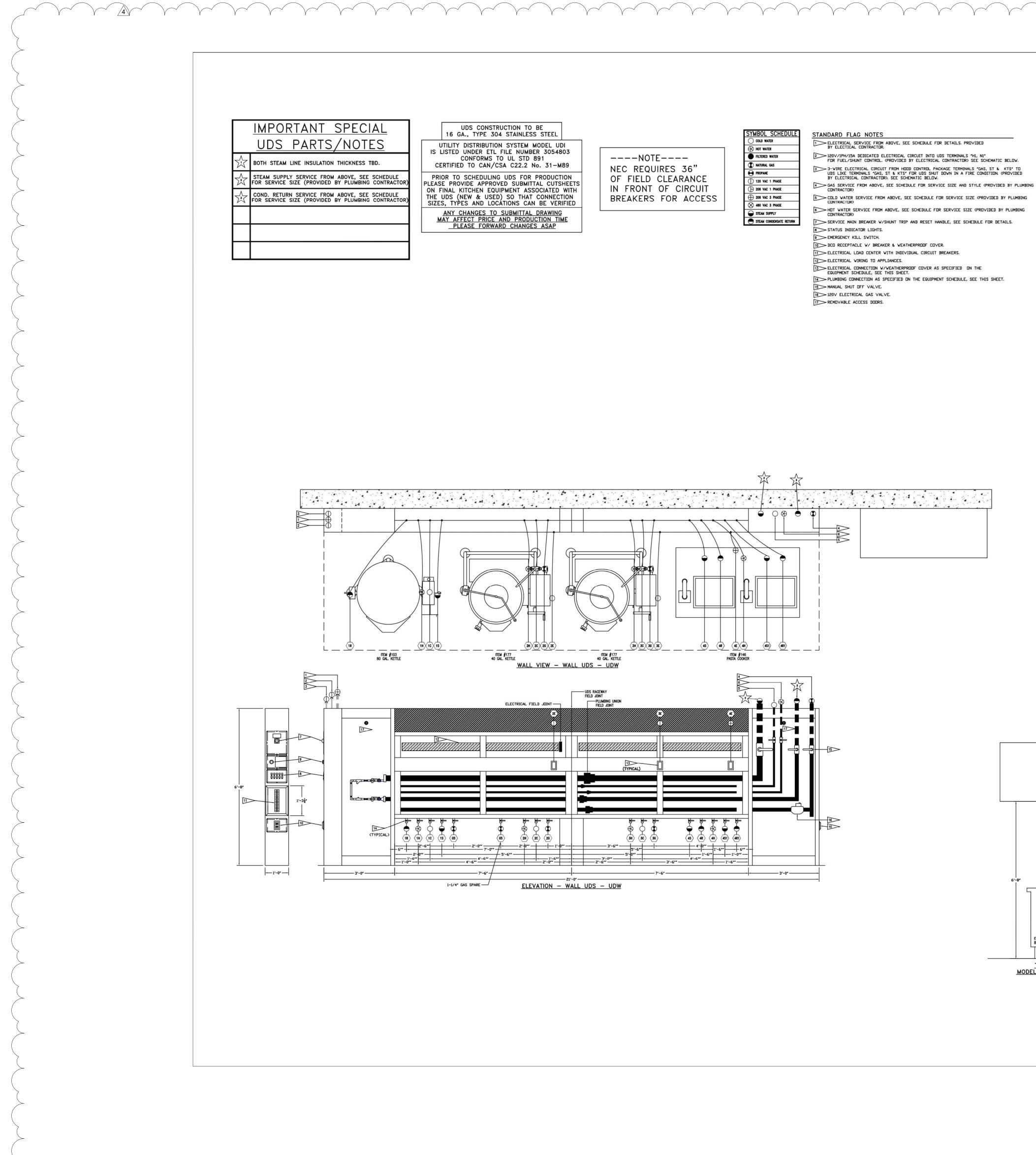












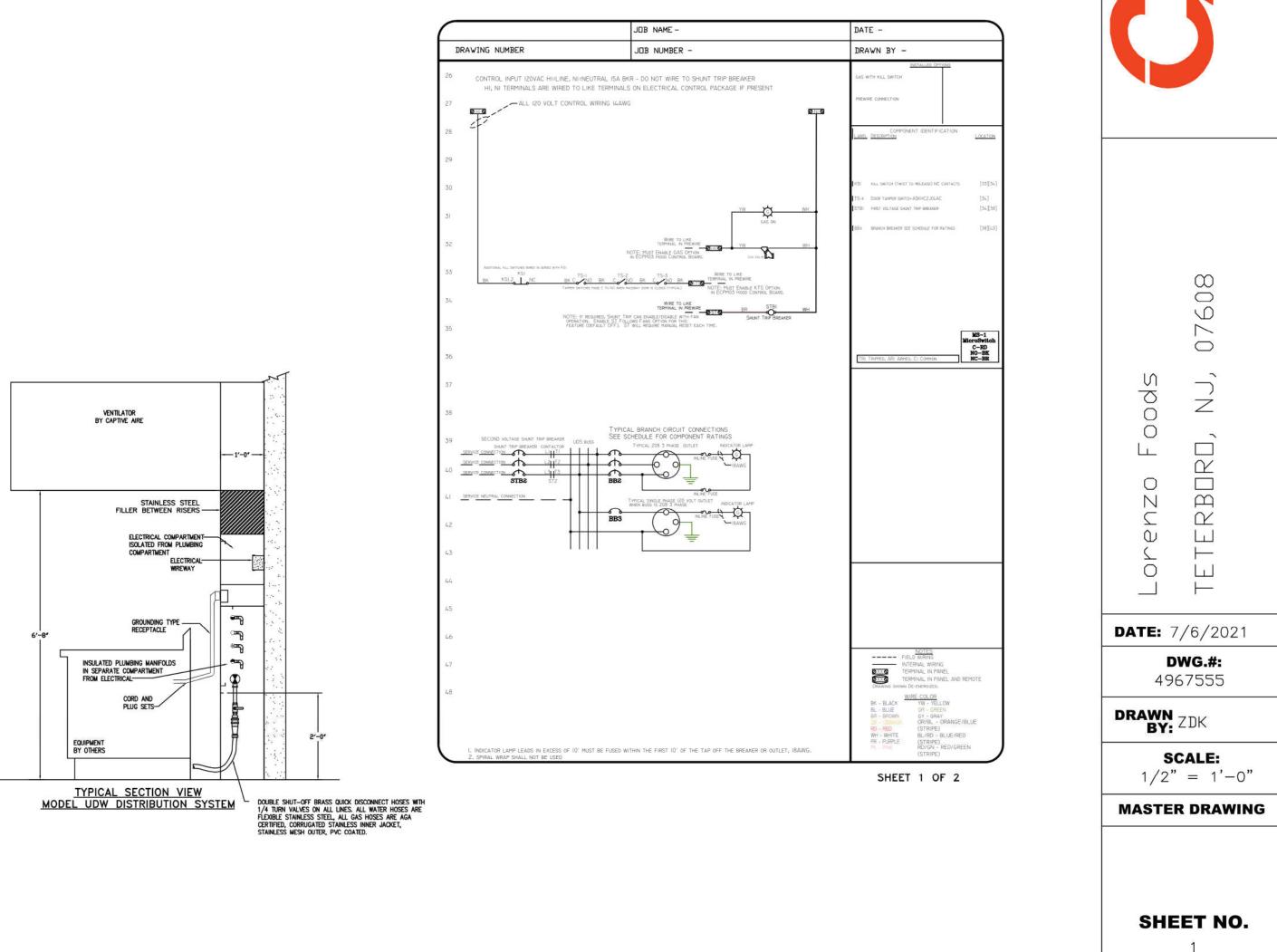
<u>n</u>	BOL SCHEDUL
\cup	COLD WATER
Ð	HOT WATER
	FILTERED WATER
D	NATURAL GAS
0	PROPANE
D	120 VAC 1 PHASE
Ð	208 VAC 1 PHASE
Ð	208 VAC 3 PHASE
8	480 VAC 3 PHASE
0	STEAM SUPPLY
	STEAM CONDENSATE RETURN

3 - WIRE ELECTRICAL CIRCUIT FROM HODD CONTROL PACKAGE TERMINALS 'GAS, ST & KTS' TO UDS LIKE TERMINALS 'GAS, ST & KTS' FOR UDS SHUT DOWN IN A FIRE CONDITION. (PROVIDED BY ELECTRICAL CONTRACTOR). SEE SCHEMATIC BELOW.

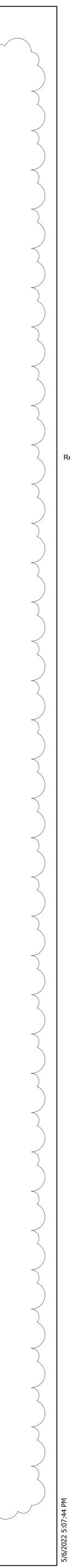
5 COLD WATER SERVICE FROM ABOVE, SEE SCHEDULE FOR SERVICE SIZE (PROVIDED BY PLUMBING CONTRACTOR) B HOT WATER SERVICE FROM ABOVE, SEE SCHEDULE FOR SERVICE SIZE (PROVIDED BY PLUMBING

PLUMBING CONNECTION AS SPECIFIED ON THE EQUIPMENT SCHEDULE, SEE THIS SHEET.

				UTILII	Y	DIS	TRI	BU	ΓIC	N SYS	STEM	EQUI	PM	EN	ΤS	SCH	IEDU	JLE				
		EC	QUIPMENT			ELI	ECTRIC	AL		CIRCUIT	BREAKER	RECEPTACLE	G	AS	W	ATER		STEAM		CONNECTION	N	
CONN.#	ITEM	DESCRIPTION	MANUFACTURER	MODEL #	KW.	AMPS	HP	VOLT	PH	AMPS	POLES	PART #	SIZE	MBH	нот	COLD	SUPPLY	COLD RETURN	LBS/HR	TYPE	LENGTH	NOTES
1S	103	80 GAL. KETTLE	GROEN	DL-80	-	*	-	~	•	(1 4)		-	-	Ч	-		3/4"		(4)	QUICK DISCONNECT	5'	÷
1R	103	80 GAL. KETTLE	GROEN	DL-80	-	-	353	-	-	1980		27		z	~		~	3/4"	-	QUICK DISCONNECT	5'	
1C	103	80 GAL. KETTLE	GROEN	DL-80	-	-					•	•	•	÷.	-	1/2"	•		-	QUICK DISCONNECT	5'	
1H	103	80 GAL. KETTLE	GROEN	DL-80	-	÷		÷.,		-	÷	-	-	÷.	1/2"	-	÷.	-	-	QUICK DISCONNECT	5'	
2E	177	40 GAL. KETTLE	CLEVELAND	KGL-40-T	1.2	10.0	-	120	1	20	1	DR20		-	2	~	A	-	-	SUPPLIED	-	GFI BREAKER
2G	177	40 GAL. KETTLE	CLEVELAND	KGL-40-T		-		19		()#C		(*)	3/4"	140	-	- 22				QUICK DISCONNECT	5'	1.
2C	177	40 GAL. KETTLE	CLEVELAND	KGL-40-T	-	-	-	-	1.00			-	-	÷	-	1/2"		-		QUICK DISCONNECT	5'	
2H	177	40 GAL. KETTLE	CLEVELAND	KGL-40-T	100	71	4.74			670	(7)	1223	1970	57.	1/2"	1.75	100	121		QUICK DISCONNECT	5'	
3E	177	40 GAL. KETTLE	CLEVELAND	KGL-40-T	1.2	10.0		120	1	20	1	DR20			•	-				SUPPLIED		GFI BREAKER
3G	177	40 GAL. KETTLE	CLEVELAND	KGL-40-T	-	2	82	2	-	-	-	22	3/4"	140	-	~	~		120	QUICK DISCONNECT	5'	
3C	177	40 GAL. KETTLE	CLEVELAND	KGL-40-T	ŝ	-			ŝ	-	-			-	-	1/2"		-	1	QUICK DISCONNECT	5'	-
ЗH	177	40 GAL. KETTLE	CLEVELAND	KGL-40-T	-	4	- (*)		ŝ	-	-		-	×	1/2"	-		-		QUICK DISCONNECT	5'	-
4E	146	PASTA COOKER	NILMA	DOUGH-O-MAT C40/2	1.5	4.2		208	3	15	3	L15-20R	-			-			140	CORD & PLUG	6'	GFI BREAKER
4S	146	PASTA COOKER	NILMA	DOUGH-O-MAT C40/2	-	2	122	- 2	-	(12)	-	3 2 5		2	-		3/4"	-		QUICK DISCONNECT	5'	2
4S1	146		NILMA	DOUGH-O-MAT C40/2	-	-		-			-	-	-	-	-		3/4"		-	QUICK DISCONNECT	5'	-
4R	146			DOUGH-O-MAT C40/2		-	12	- 2		-		-	-			- 20	-	W Har W		QUICK DISCONNECT	5'	ि अ =
4R1	146	PASTA COOKER	NILMA	DOUGH-O-MAT C40/2	-	•			8	-		-	-	-			- E	1/2"	-	QUICK DISCONNECT	5'	5
4H	146	PASTA COOKER	NILMA	DOUGH-O-MAT C40/2		•	18 7 5			æ		~		*	3/4"					QUICK DISCONNECT	5'	
D1	~	DUPLEX OUTLET	- 2	-	-	-		120	1	20	1	DR20		-	-		्यः			FACTORY	-	GFI BREAKER
D2		DUPLEX OUTLET	-	-				120	1	20	1	DR20		15	5	0.74	1.2	(17)		FACTORY		GFI BREAKER
OTAL CONNECTED LOAD: 3.9						10.9	AMP	0.0	KW.	0.0	AMP	280	M	BH	Н	.w.		STEAM SUPPL	Y	L.	EGEND	
JTURE AVAILABLE LOAD CAPACITY: 10.5					KW.	29.1	AMP	0.0	KW.	0.0	AMP	270	M	BH		1"		3"		SB = STRAIG	PER HOUR (1000 HT BLADE PLUG T LOCK PLUGS	5) 5
YSTEN	YSTEM CAPACITY: 14.4					40.0	AMP	0.0	KW.	0.0	AMP	550	M	BH	C	.W.		COND. RETUR	N	PS = PIN & DCO = DUAL CO	SLEEVE PLUGS	TLET
RVIC	SIZE:		120/208 V/ 3 F	PH/ 5	0 AMP			١	// PH/ AMF		1-1/2" IP	S SING	GLE		1"		13 7 1			ONDUIT & WIRE		



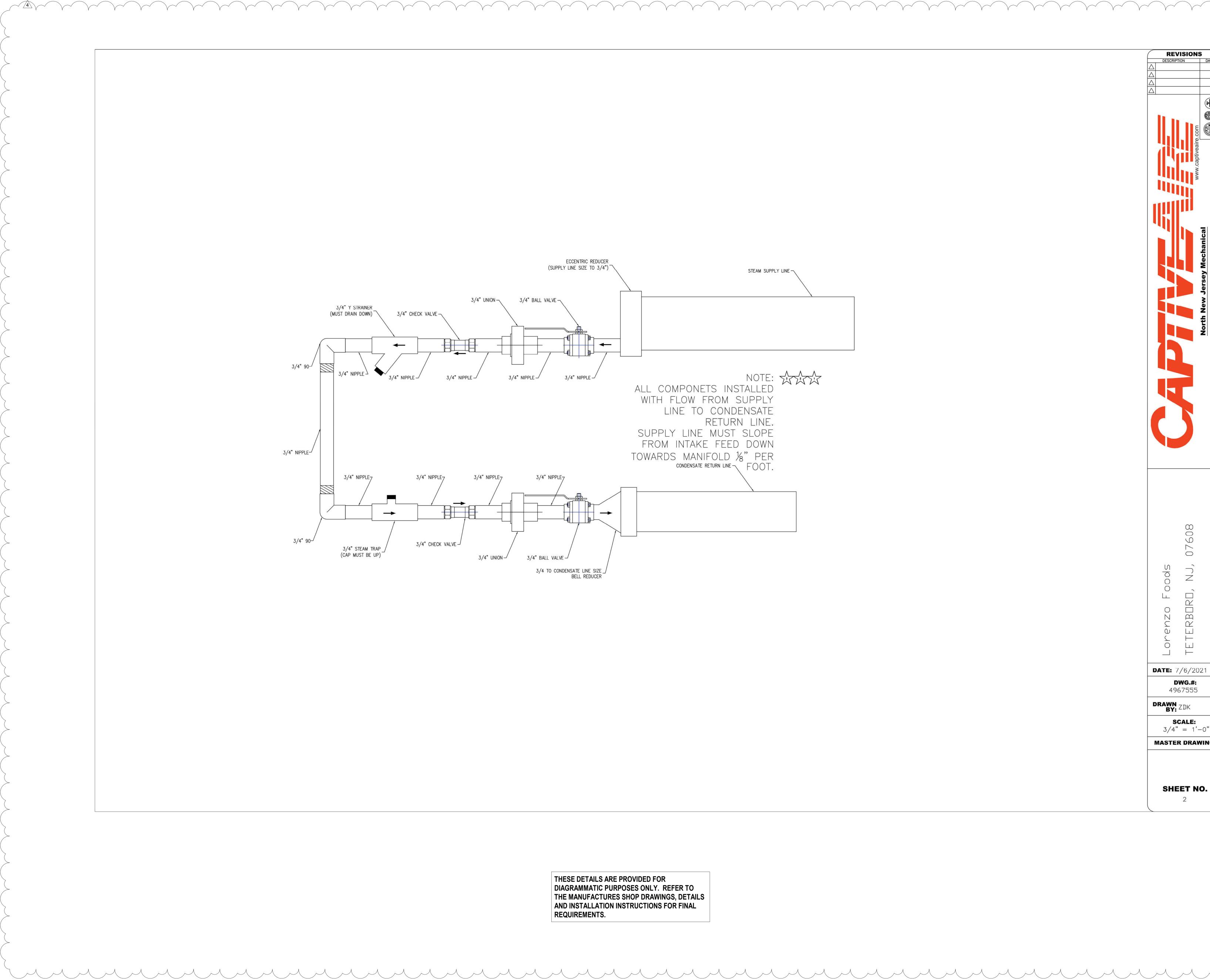
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REVISIONS DESCRIPTION DATE:

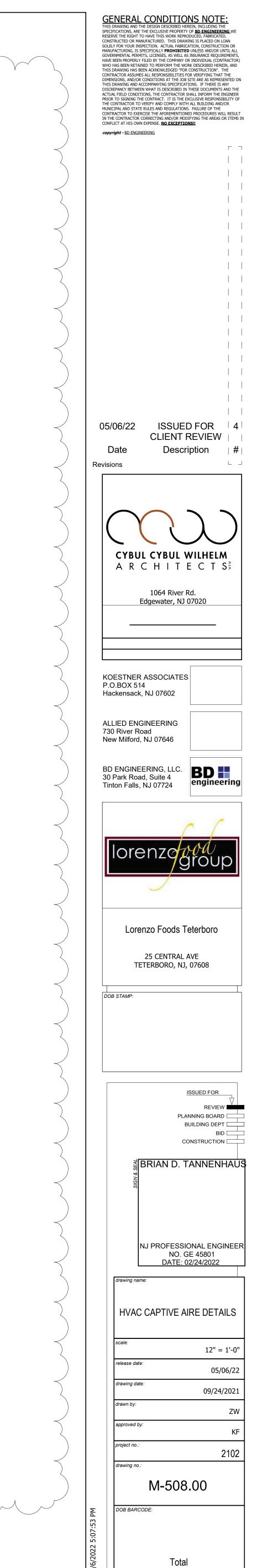
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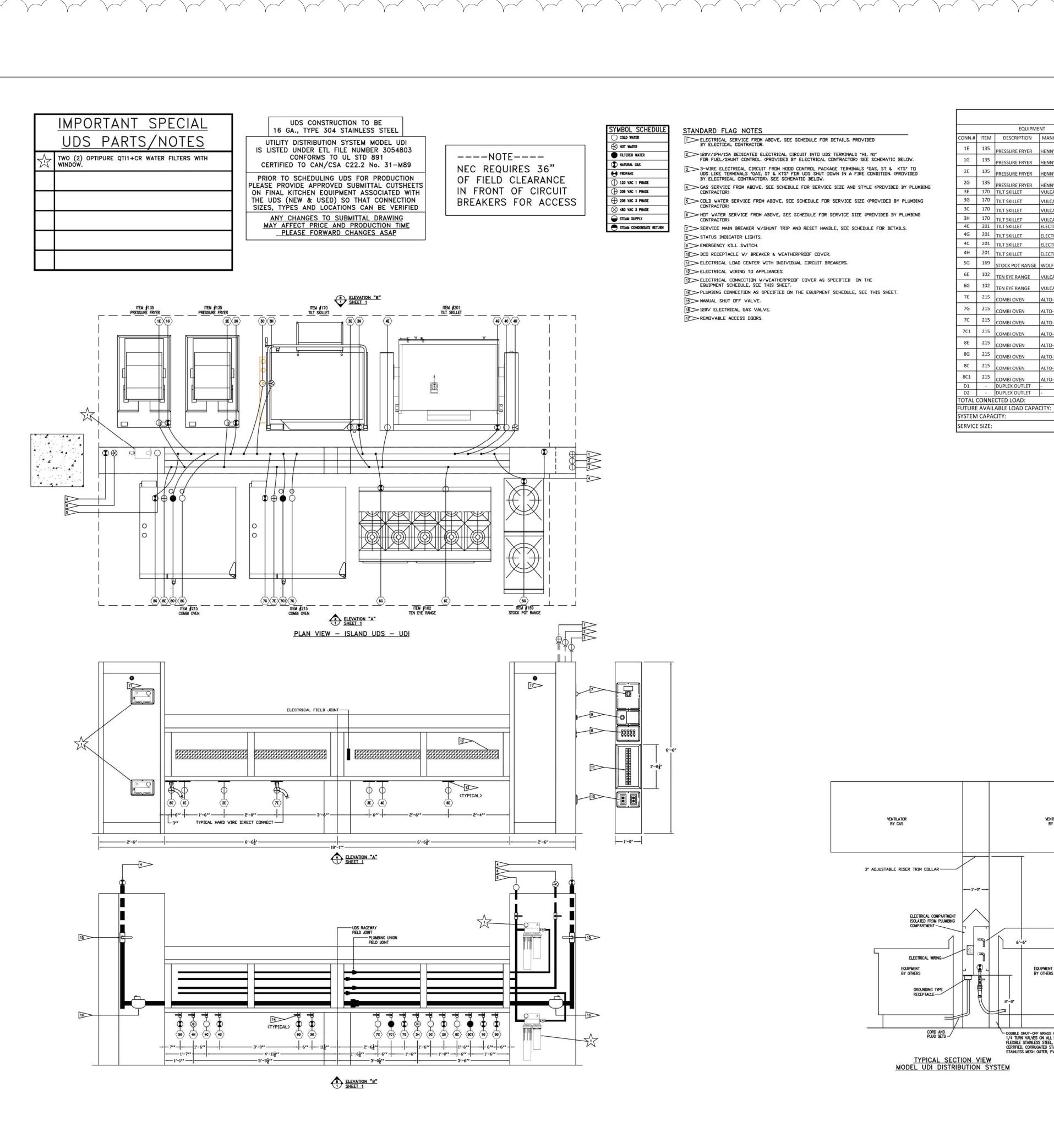


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Equipment By others

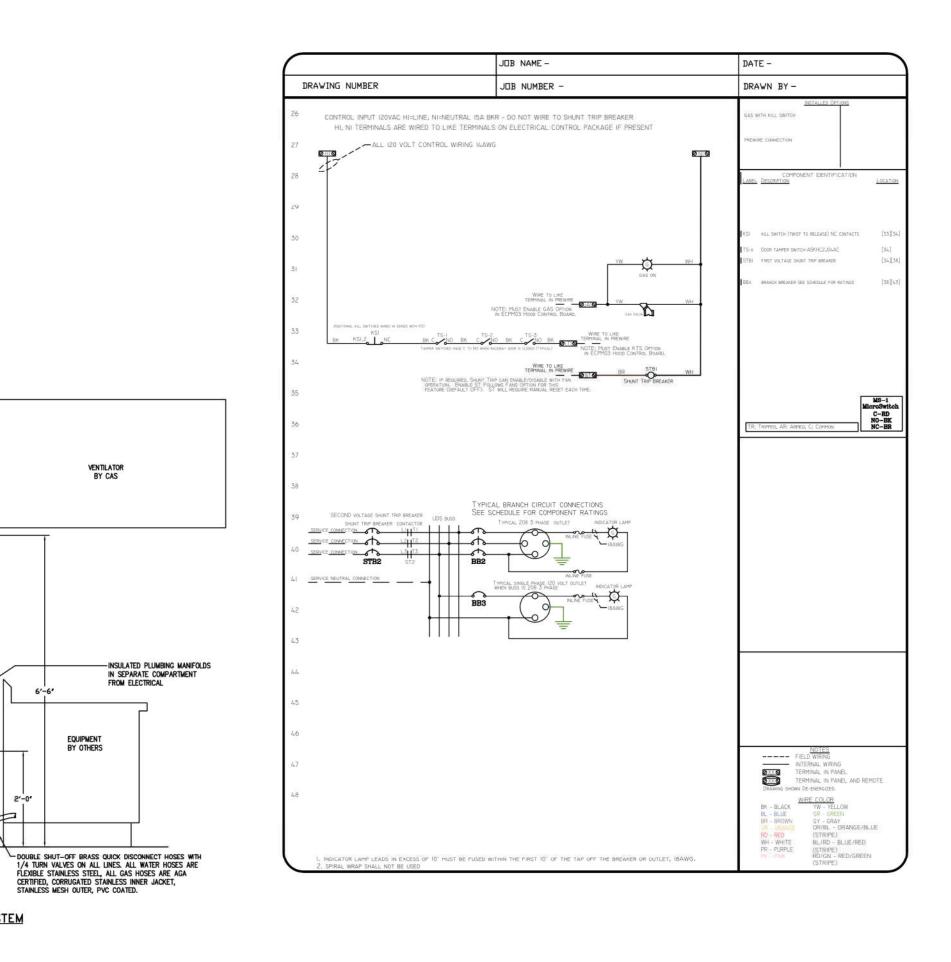
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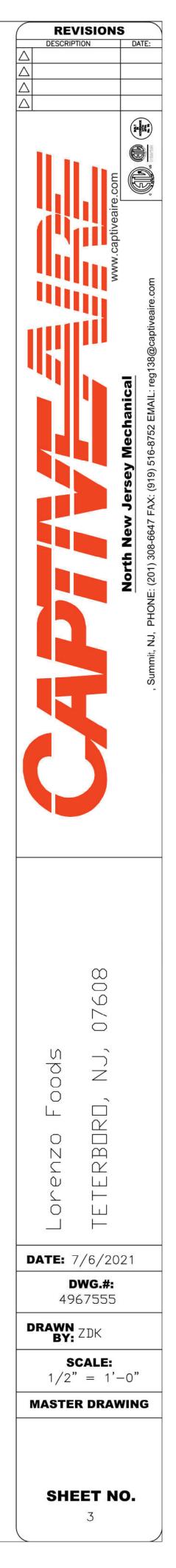
EQUIPMENT

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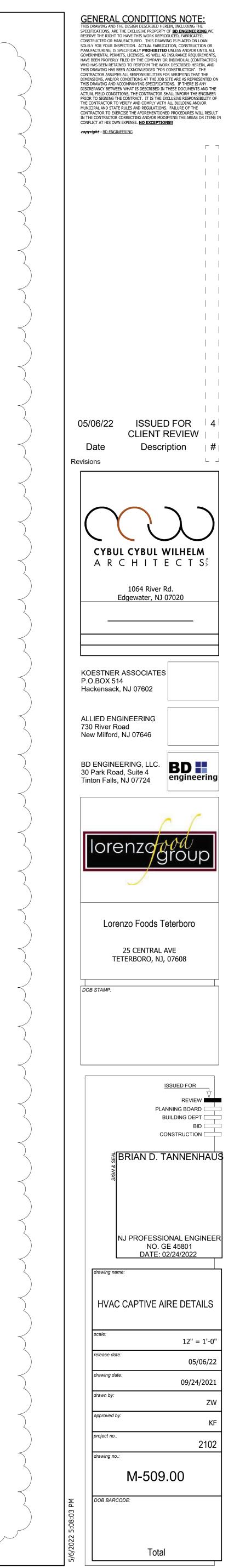
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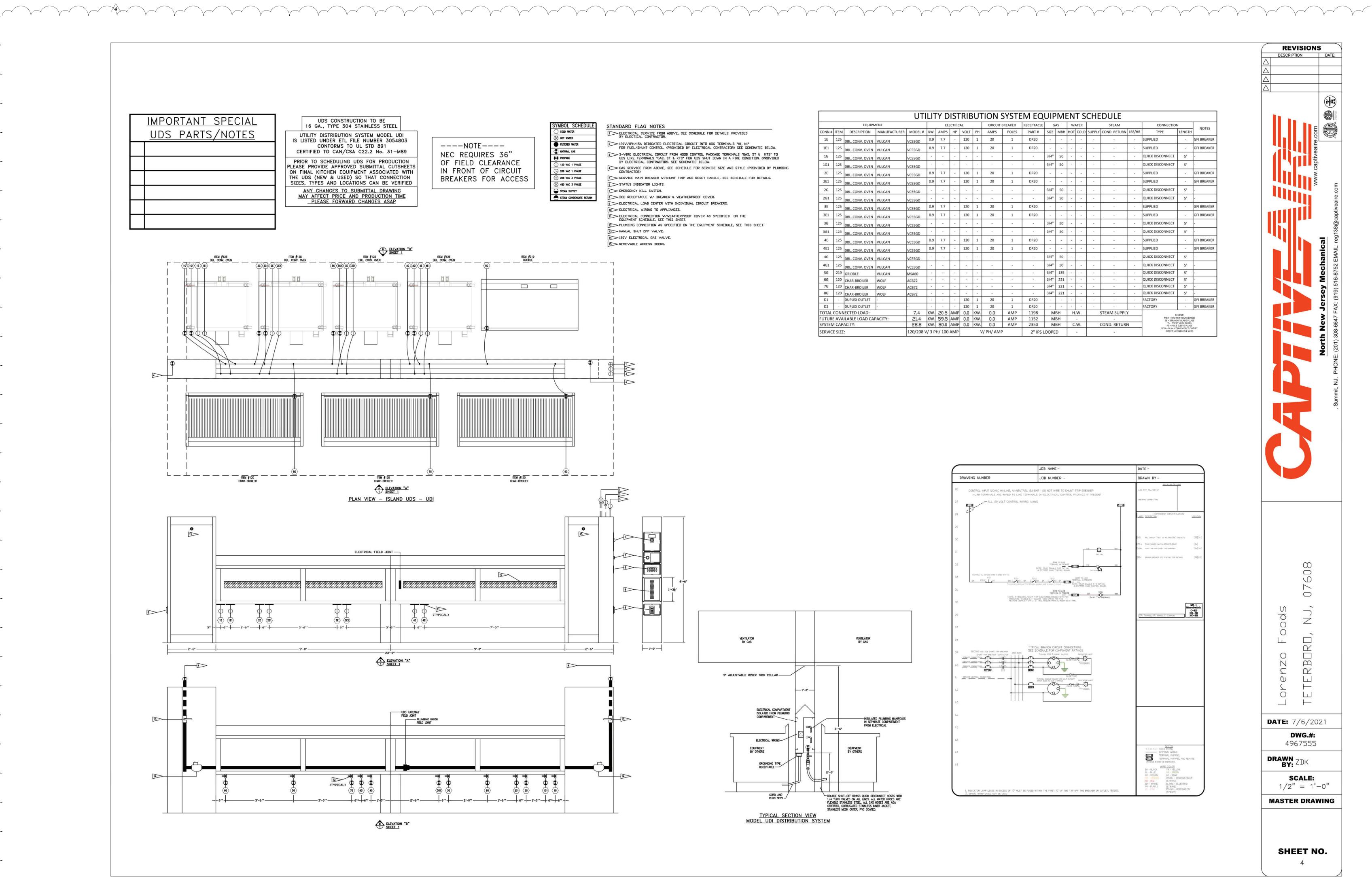
	22000-01000-0	-												-	EDULE				1
NUFACTURER	MODEL #	KW.	AMPS	ECTRIC HP	AL VOLT	PH	CIRCUIT I	POLES	RECEPTACLE PART #	G/ SIZE	AS	0.55	COLD	SUPPLY	STEAM COND. RETURN	IRS/HR	CONNECTIO	N LENGTH	NOTES
NOFACTORER	WODEL #			nr					50,000-00 2	SIZE	WIDH	noi	COLD	SUPPLI	COND. RETORN			LENGTH	CELODEAKED
NY PENNY	PFG-691	1.2	10.0		120	1	20	1	DR20		100	ः	्	-			SUPPLIED	-	GFI BREAKER
NY PENNY	PFG-691	2	~	-	-	-	-	-	-	3/4"	100	-	-	-	-		QUICK DISCONNECT	5'	-
NY PENNY	PFG-691	1.2	10.0	12	120	1	20	1	DR20	2	-	-	12	-	-	*	SUPPLIED	-	GFI BREAKER
NY PENNY	PFG-691	-			- 42	-			μ.	3/4"	100	(#)	-		-		QUICK DISCONNECT	5'	-
CAN	VG40	1.1	9.0	-	120	1	20	1	DR20			-	-	· · · ·	-		SUPPLIED	(H)	GFI BREAKER
CAN	VG40	-		-		-		-		3/4"	120	1.00	-	-	-		QUICK DISCONNECT	5'	7
CAN	VG40				-	-	ø.,	-		, e		100	1/2"		-		QUICK DISCONNECT	5'	3
CAN	VG40			-	÷.,	-	-		÷ .		1990	1/2"		-		-	QUICK DISCONNECT	5'	-1
TROLUX	587028	1.2	10.0	-	120	1	20	1	DR20	-	(14C)	-	-	-	-		SUPPLIED	-	GFI BREAKER
TROLUX	587028	-		-	-	-	-		-	3/4"	100	-	-	2	-		QUICK DISCONNECT	5'	-
TROLUX	587028	2	(a)	12		-	-	2	-	i a	1	-	1/2"	2	-	-	QUICK DISCONNECT	5'	-
TROLUX	587028	2	- 24	-	-	-	2	-	-	-	14	1/2"	<u> </u>	-	-	-	QUICK DISCONNECT	5'	2
.F	WSPR2F	•	(72)			-	2	5	a l	3/4"	220			ē.	-	-	QUICK DISCONNECT	5'	5
CAN	60SS-10B	0.5	4.0		120	1	20	1	DR20						-		SUPPLIED		GFI BREAKER
CAN	60SS-10B	22	- 121	<u>_</u>	- 21	-	2	12	-	1"	358	-1-1	<u></u>	<u>_</u>	-	2	QUICK DISCONNECT	5'	2
)-SHAAM	CTP20-20G	2.0	9.6	2	208	3	15	3	-	1	1	-	ੁ	2	2	2	DIRECT	8'	CONDUIT & WIR
D-SHAAM	CTP20-20G	-		-	-	-	-	•	~	3/4"	266				-		QUICK DISCONNECT	5'	-
D-SHAAM	CTP20-20G	-		-	-	-		÷:	ă.			~	3/4"		e in Th		QUICK DISCONNECT	5'	•
D-SHAAM	CTP20-20G	-		-	-	-	-	-	-	-			3/4"	-	-	-	QUICK DISCONNECT	5'	FILTERED
D-SHAAM	CTP20-20G	2.0	9.6	-	208	3	15	3	-	-		-	-	3	-	-	DIRECT	8'	CONDUIT & WIR
)-SHAAM	CTP20-20G	-	142	-	- 22	-	-	-	~	3/4"	266	-	-	2	2	-	QUICK DISCONNECT	5'	2
-SHAAM	CTP20-20G	-	12	-		-	-	-	-	1	12		3/4"	4	-	2	QUICK DISCONNECT	5'	2
)-SHAAM	CTP20-20G	-	-	-		-			-		-	-	3/4"	-	-		QUICK DISCONNECT	5'	FILTERED
	-	-	1	-	120	1	20	1	DR20	-	14	-	-	-	-	-	FACTORY	-	GFI BREAKER
	2) 	-	(a)	-	120	1	20	1	DR20	а 1		-	-		-	-	FACTORY	-	GFI BREAKER
6		KW.	25.4	AMP	0.0	KW.	0.0	AMP	1530	M		-	.W.		STEAM SUPPLY	'		LEGEND	
	19.7	KW.	54.6	AMP	0.0	KW.	0.0	AMP	1370	M	BH		1"	-	-		SB = ST	TU PER HOUR (RAIGHT BLADE F	PLUGS
3	28.8	KW.	80.0	AMP	0.0	KW.	0.0	AMP	2900	M	BH	C.	W.	(COND. RETURN	1	PS = P	TWIST LOCK PLU	UGS
	120/208 V	1/20	H/100			V	/ PH/ AMP		2" IPS L	OODE	D		1"	-			DCO = DUAL CONVENI DIRECT = CONDUI		E OUTLET WIRE



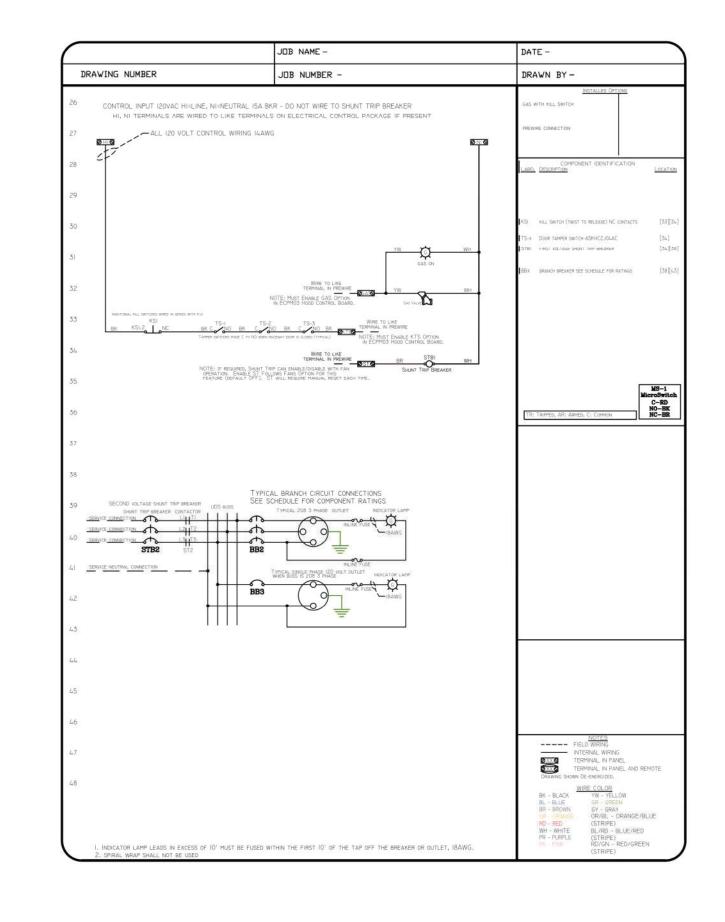


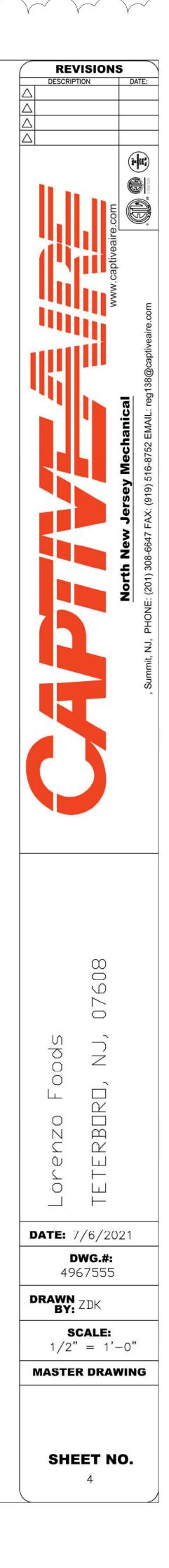
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			ELE	CTRIC	AL		CIRCUIT	BREAKER	RECEPTACLE	G	AS	W	ATER		STEAM	1	CONNECTION	N	
RER	MODEL #	KW.	AMPS	HP	VOLT	PH	AMPS	POLES	PART #	SIZE	MBH	нот	COLD	SUPPLY	COND. RETURN	LBS/HR	TYPE	LENGTH	NOTES
	VC55GD	0.9	7.7	-	120	1	20	1	DR20		-	-	-				SUPPLIED		GFI BREAKEF
	VC55GD	0.9	7.7		120	1	20	1	DR20			-					SUPPLIED		GFI BREAKEF
	VC55GD	-	1	-		-		-	-	3/4"	50	-	24	<u>.</u>	-	-	QUICK DISCONNECT	5'	-
	VC55GD	8		4	3	5	24	3	12	3/4"	50	1	14	4	÷	-	QUICK DISCONNECT	5'	÷
	VC55GD	0.9	7.7		120	1	20	1	DR20							-	SUPPLIED	-	GFI BREAKEF
	VC55GD	0.9	7.7		120	1	20	1	DR20			-					SUPPLIED		GFI BREAKEF
	VC55GD	-	*	· .	-		-		·	3/4"	50		-	-	-	-	QUICK DISCONNECT	5'	-
	VC55GD	2	1	1	2	-		2	-	3/4"	50	1.0	12	-	2	-	QUICK DISCONNECT	5'	-
	VC55GD	0.9	7.7	-	120	1	20	1	DR20		-			-		-	SUPPLIED	-	GFI BREAKEF
_	VC55GD	0.9	7.7	-	120	1	20	1	DR20	-			-	-	-	-	SUPPLIED	-	GFI BREAKEF
	VC55GD				-			•	-	3/4"	50					-	QUICK DISCONNECT	5'	-
	VC55GD	-	-		-		-		-	3/4"	50		۰.	-		-	QUICK DISCONNECT	5'	-
	VC55GD	0.9	7.7	2	120	1	20	1	DR20	2	-	12	2	5 5	-	8	SUPPLIED	-	GFI BREAKEF
	VC55GD	0.9	7.7		120	1	20	1	DR20		-	-		-		-	SUPPLIED		GFI BREAKEF
	VC55GD	-			-		-	-	-	3/4"	50					-	QUICK DISCONNECT	5'	-
_	e e compañía de la co		-		-		-		-	3/4"	50		-		-	-	QUICK DISCONNECT	5'	-
	VC55GD MSA60		-	а.						3/4"	135		-	14		-	QUICK DISCONNECT	5'	
	ACB72	- 2	140	1	2		32 - ²	U .	10	3/4"	221	1	14	- G			QUICK DISCONNECT	5'	ų.
_	ACB72	-	1		2			2	-	3/4"	221		×.	<u>.</u>	-	2	QUICK DISCONNECT	5'	2
	ACB72	3		-	ŝ	1	-	3	-	3/4"	221		- G	- E	-	1	QUICK DISCONNECT	5'	-
	-	-	1.1	-	120	1	20	1	DR20	1	<u></u>		-	-	-		FACTORY	-	GFI BREAKEF
		-			120	1	20	1	DR20					-			FACTORY	-	GFI BREAKEF
	7.4	KW.	20.5	AMP	0.0	KW.	0.0	AMP	1198	М	вн	н	w.	1	STEAM SUPPLY	LEGEND		GEND	
	21.4		AMP	1152	M	BH		-		14	l.	MBH = BTU P	ER HOUR (1000						
	28.8	KW.	80.0	AMP	0.0	KW.	0.0	AMP	2350	M	вн	C.	W.		COND. RETURN	N	PS = PIN &	SLEEVE PLUGS	THET
	120/208 V	/3P	H/ 100	AMP		V	/ PH/ AMP	,	2" IPS L	OOPE	D		<u>_</u>		14		DCO = DUAL CO DIRECT = C	ONDUIT & WIRI	







REVIEW

12" = 1'-0"

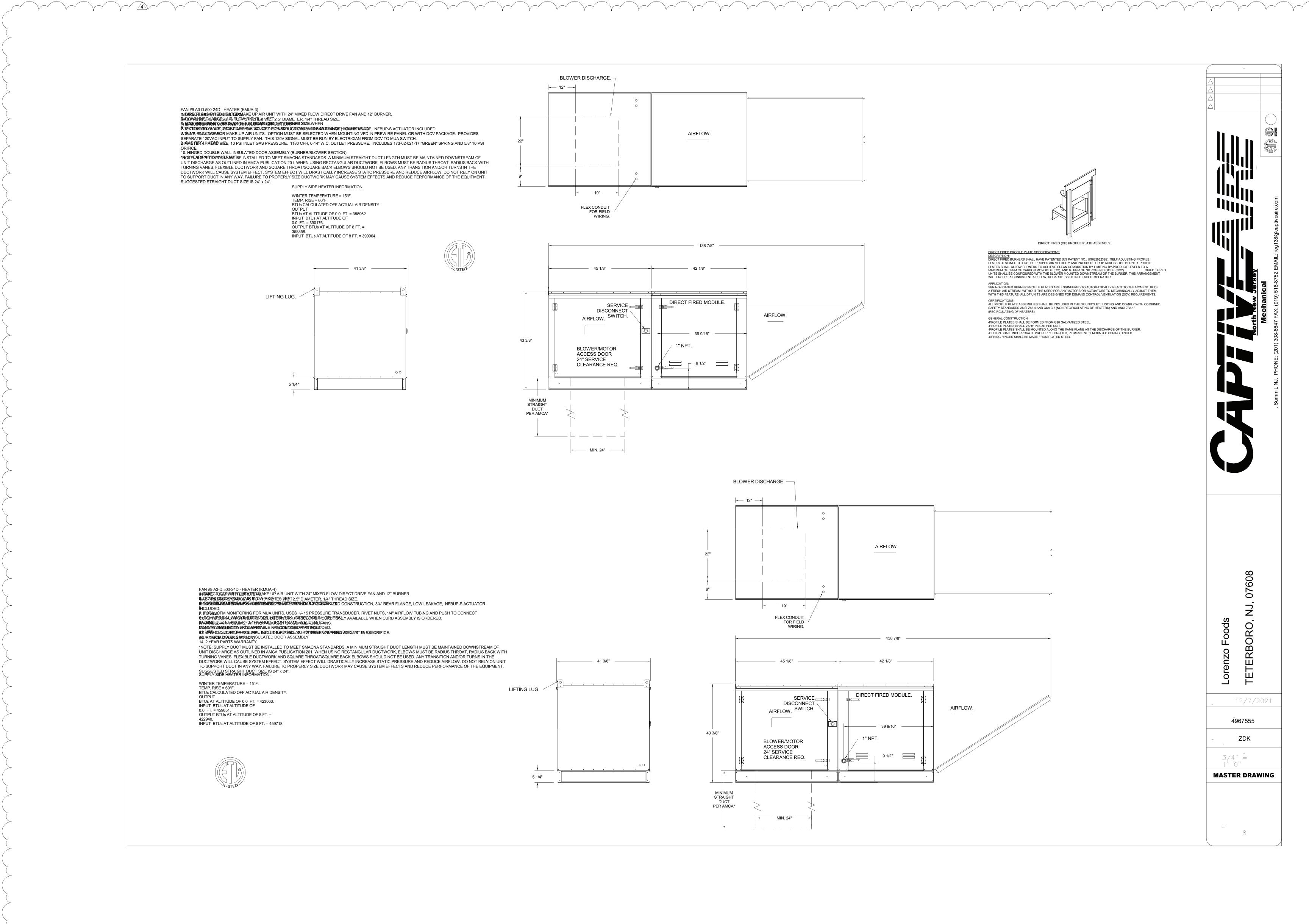
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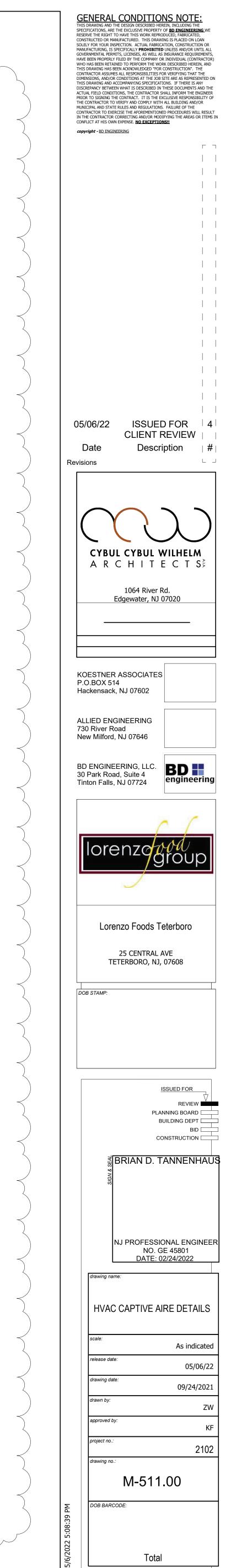
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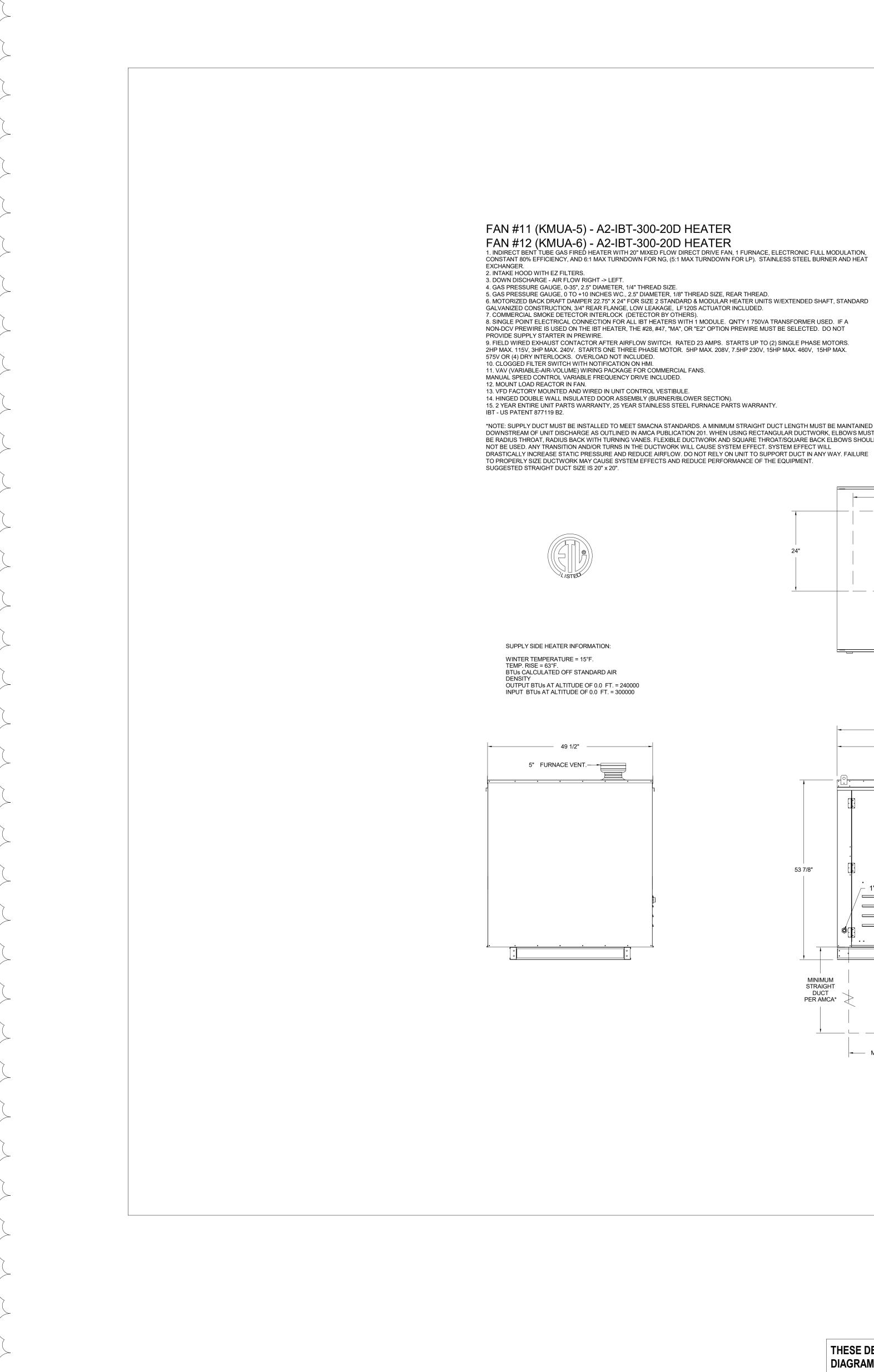
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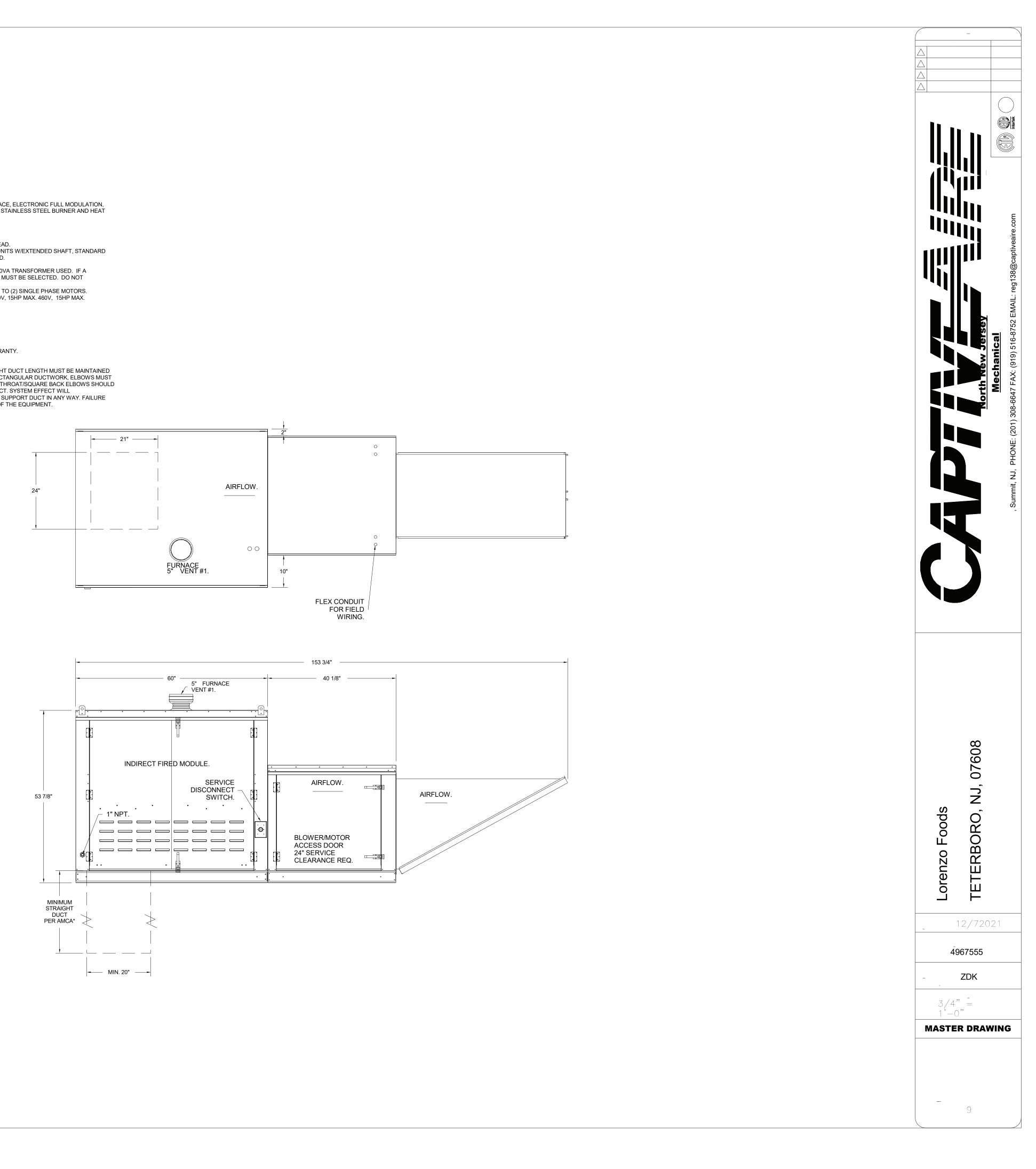
5. GAS PRESSURE GAUGE, 0 TO +10 INCHES WC., 2.5" DIAMETER, 1/8" THREAD SIZE, REAR THREAD. 6. MOTORIZED BACK DRAFT DAMPER 22.75" X 24" FOR SIZE 2 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD

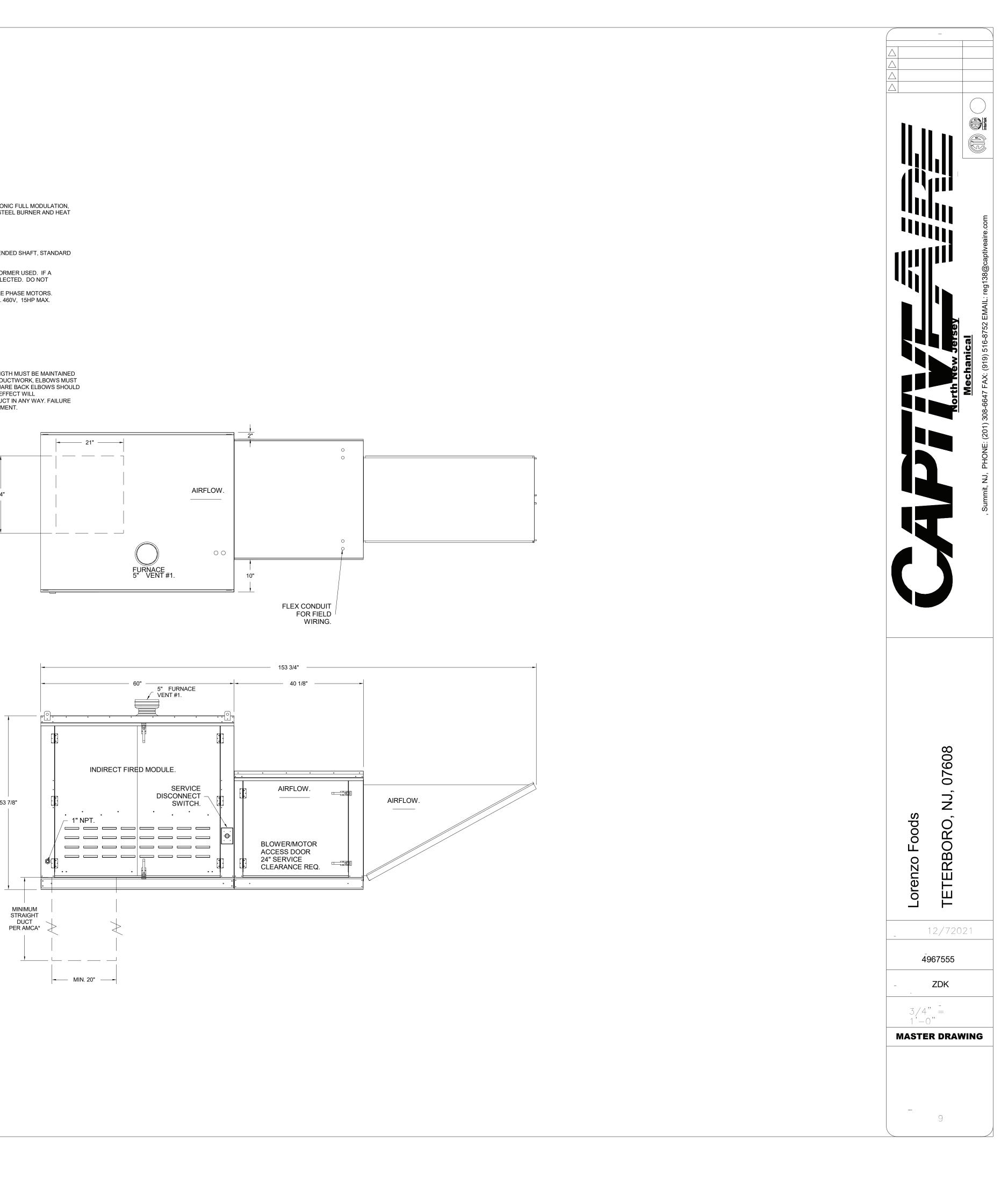
8. SINGLE POINT ELECTRICAL CONNECTION FOR ALL IBT HEATERS WITH 1 MODULE. QNTY 1 750VA TRANSFORMER USED. IF A

9. FIELD WIRED EXHAUST CONTACTOR AFTER AIRFLOW SWITCH. RATED 23 AMPS. STARTS UP TO (2) SINGLE PHASE MOTORS.

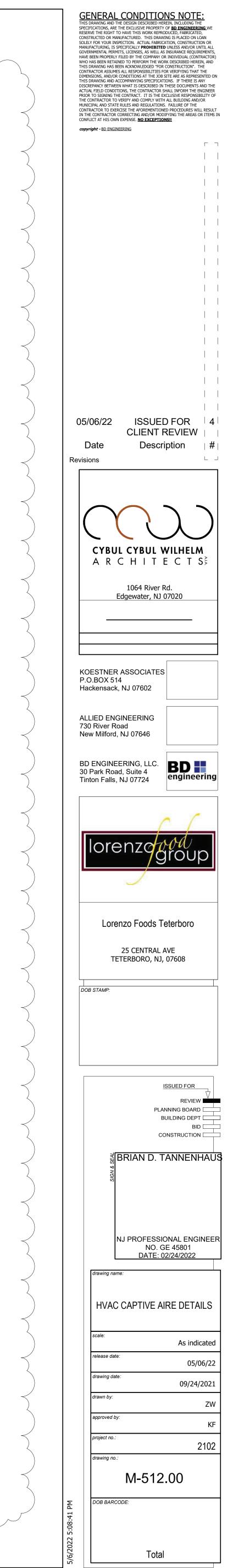
*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD

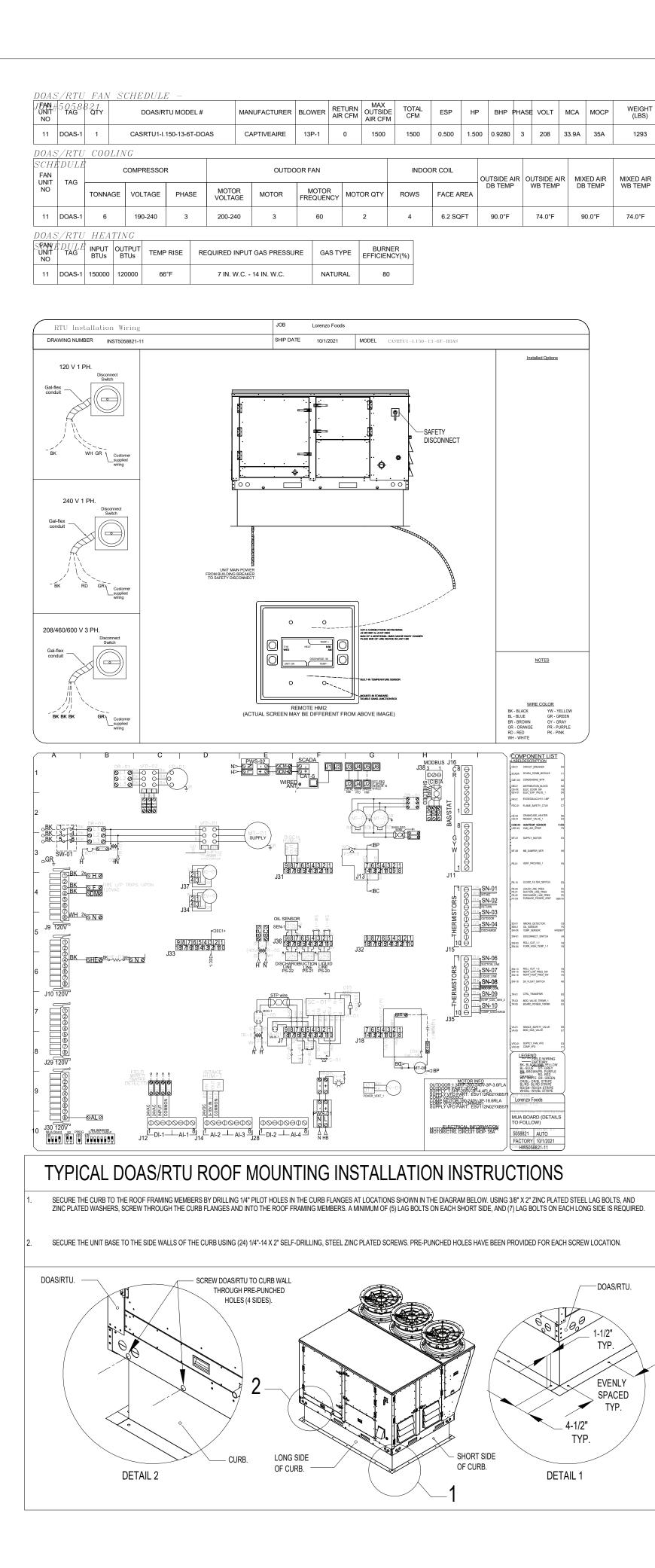
DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE





THESE DETAILS ARE PROVIDED FOR DIAGRAMMATIC PURPOSES ONLY. REFER TO THE MANUFACTURES SHOP DRAWINGS, DETAILS AND INSTALLATION INSTRUCTIONS FOR FINAL REQUIREMENTS.





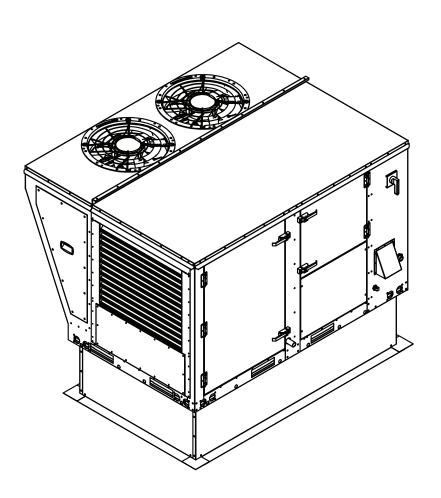
EIGHT (LBS)													
1293													
									1 1				
ED AIR TEMP	LEAVING DB TEMP	LEAVING WB TEMP	LEAVING DP TEMP	TOTAL CAPACITY	SENSIBLE CAPACITY	LATENT CAPACITY	REHEAT LEAVING DB TEMP	REHEAT LEAVING WB TEMP	DESIRED REHEAT CAPACITY	MAX REHEAT CAPACITY	REHEAT LEAVING RELATIVE HUMIDITY	MOISTURE REMOVAL RATE	IEER
.0°F	59.7°F	56.9°F	55.1°F	84.0 MBH	48.0 MBH	36.0 MBH	70.0°F	64.2°F	17.2 MBH	56 MBH	73	32.7 LBS/HR	19.5

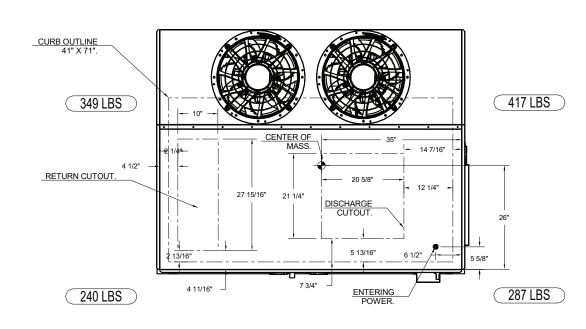
FAN #11 CASRTU1-I.150-13-6T-DOAS - HEATER (DOAS-1)

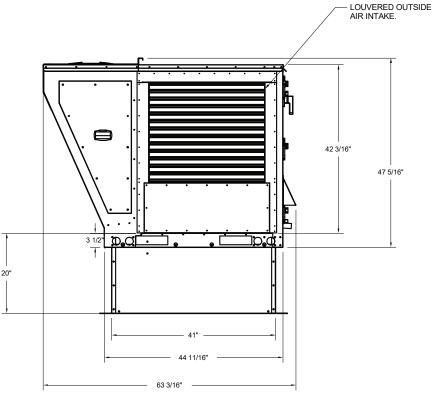
NOTES:

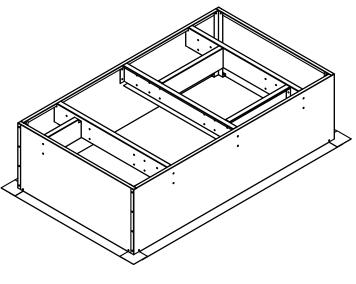
1. DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL

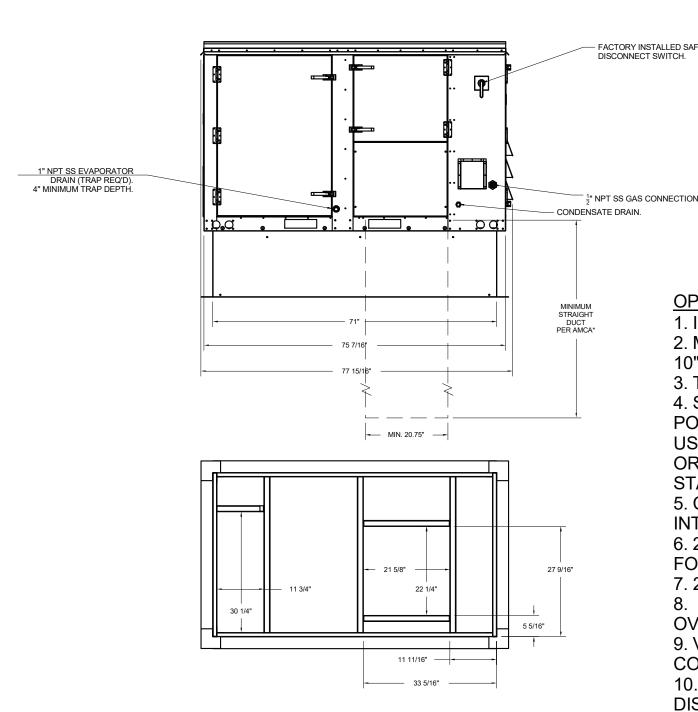
DENOTES CORNER WEIGHT. ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.









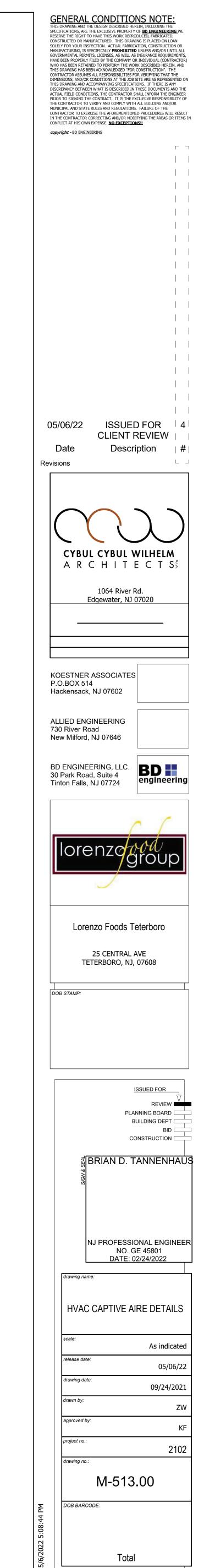


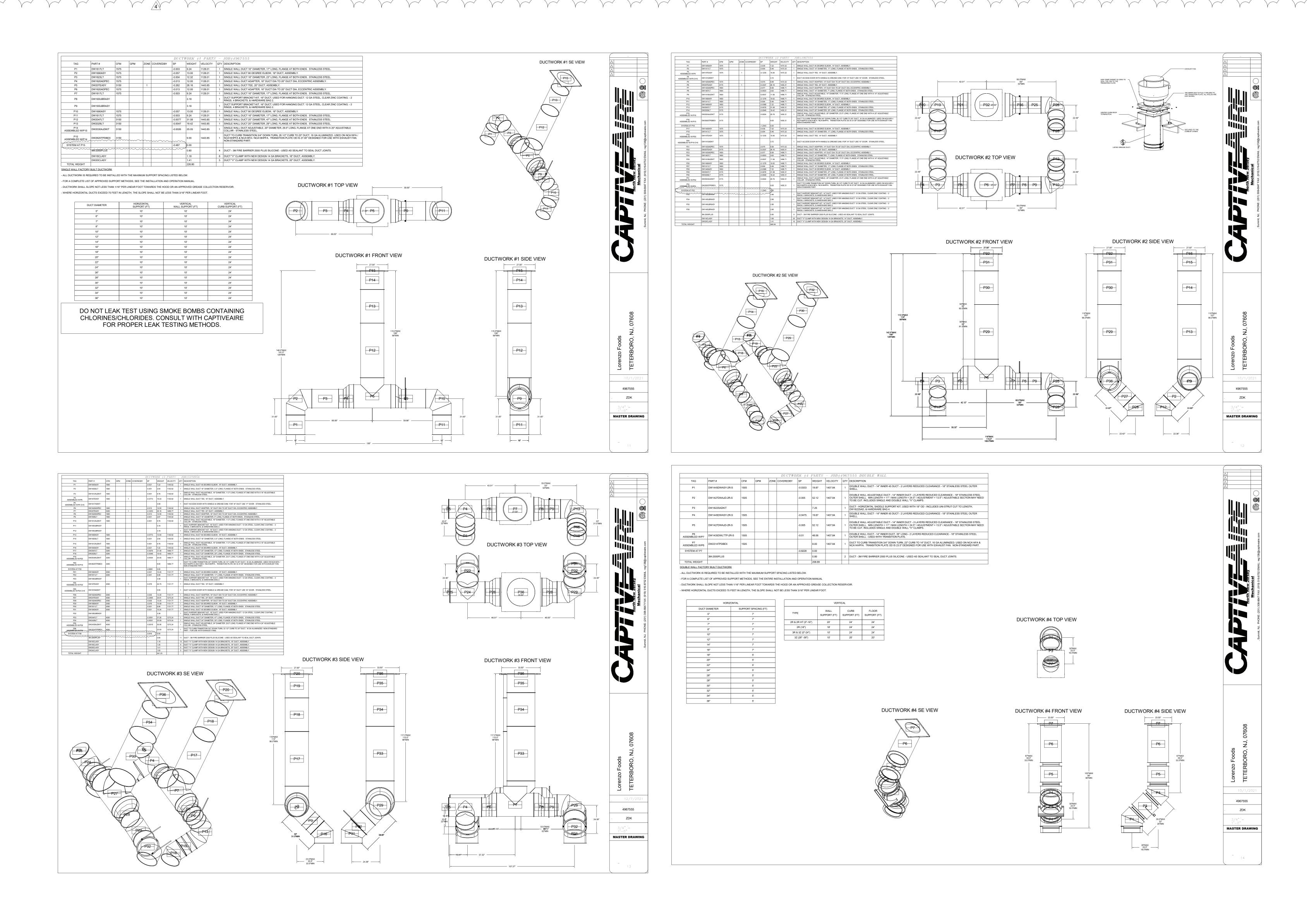
DETAILS).

*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 20.75" x 21.5".

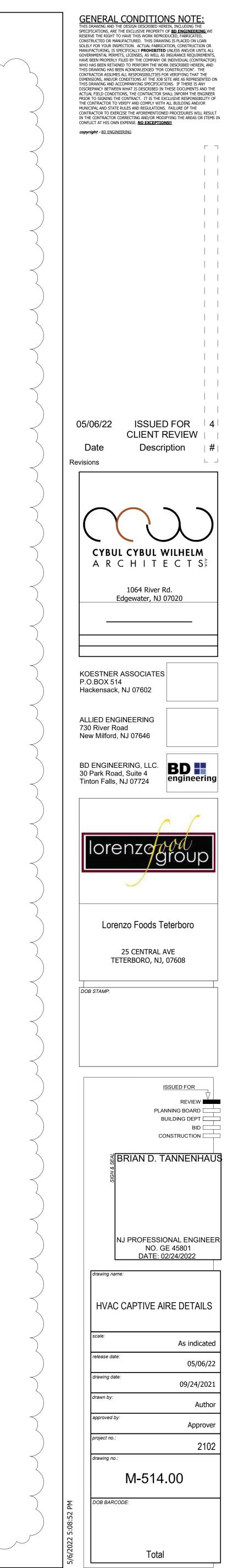
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