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New Kitchen  
Facility for



701 Boutwell Road  
Lake Worth, FL 33461



Project No. 22.046  
24 February 2023  
Bidding, Permit and  
Construction

E  
14



JLRD PROJECT NO:  
122110

NEW ELEC PANEL				PANELBOARD SCHEDULE								'FOSKL2'			
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA				
A	B	C									A	B	C		
0.8			PLN MIX / CAN OPEN	1	15	1	2	15	2	POWER WSH SNK	1.0				
	1.1		-			3	4			-		1.0			
		1.1	MIXER - FLOOR	3	20	5	6			-			0.8		
1.1			-			7	8	20	3	FOOD PROCESSOR	0.8				
	0.8		POT & VEG PEELER	2	15	9	10			-		0.8			
		0.8	-			11	12	20	1	CONV OUTLET			0.7		
0.3			MACH VEG DRYER	1	15	13	14	20	1	CONV OUTLET	0.5				
	0.4		AIR CURTAIN 1	1	15	15	16	15	1	PLAT CONV SYST		1.4			
		0.4	AIR CURTAIN 2	1	15	17	18	20	1	CONV OUTLET			0.4		
0.7			ACUM TABLE	1	15	19	20	20	1	INTERM MOT SYST	0.7				
	0.7		INTERM MOT SYST	1	20	21	22	20	1	ACUM TABLE		0.7			
		0.7	CU-2	2	15	23	24	15	1	HD RANGE - GAS			0.5		
			-			25	26	15	1	HD RANGE - GAS	0.5				
0.7	1.6		COMBIN OVEN - GAS	1	20	27	28	15	1	OVEN L - GAS		0.7			
		1.6	COMBIN OVEN - GAS	1	20	29	30	15	1	OVEN U - GAS			0.7		
1.6			COMBIN OVEN - GAS	1	20	31	32	15	1	OVEN L - GAS	0.7				
	1.6		COMBIN OVEN - GAS	1	20	33	34	15	1	OVEN U - GAS		0.7			
		0.5	CONV OUTLET	1	20	35	36			COMBIN OVEN - GAS					
			SPARE	1	20	37	38			-					
			SPARE	1	20	39	40	30	3	SPD					
			SPARE	1	20	41	42			-					
RATED VOLTAGE: 120/208V				3 PHASE, 4 WIRE				FEED IS TO BE ( ) BOTTOM ( X ) TOP FROM				'FOSDP'			
RATINGS IS TO BE 100				AMPS				GROUND BAR IS REQUIRED							
MAIN PROTECTION: MAIN LUGS ONLY								NEUTRAL BUS IS TO BE ( X ) FULL ( ) DOUBLE SIZE							
BRANCH POLES: 42								HINGED DOOR WITH KEYED LATCH ( X ) IS ( ) IS NOT REQUIRED							
PANELBOARD IS TO BE ( ) FUSED ( X ) BOLT IN CB TYPE								HARD WIRED SURGE PROTECTION ( X ) IS ( ) IS NOT REQUIRED							
ALL BREAKERS RATED: 10,000 AMPS, SYM RMS															
I = 16607.388 VA				= 46.1 A				CONNECTED LOAD: 30 kVA							
208* V3								DEDUCT NEC -13 kVA							
								DEMAND LOAD 17 kVA							

NEW ELEC PANEL					PANELBOARD SCHEDULE										'FOSKL3'		
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA						
A	B	C									A	B	C				
1.8			MEAT CLR D. PUMP	1	20	1	2	25	2	MEAT CLR CU	1.1						
	1.8		MEAT CLR	1	20	3	4			-		1.1					
		1.8	DAIRY CLR	1	20	5	6	25	2	DAIRY CLR CU			1.1				
1.8			FREEZER D. PUMP	1	20	7	8			-	1.1						
	1.8		FREEZER	1	20	9	10	50	2	FREEZER CU		2.5					
		1.8	PRODUCE CLR	1	20	11	12			-			2.5				
1.8			PAN RK CLR	1	20	13	14	25	2	PRODUCE CLR CU	1.2						
	1.8		PAN RK CLR D. PUMP	1	20	15	16			-		1.2					
		1.8	PAN RK CLR D. PUMP	1	20	17	18	35	2	PAN RACK CLR CU			1.7				
0.2			MEAT CLR EVAP	1	15	19	20			-	1.7						
	0.2		DAIRY CLR EVAP	1	15	21	22	15	1	CAB MOB HOT DOG		1.1					
		1.5	FREEZER CL EVAP	2	20	23	24	15	1	CAB MOB HOT DOG			1.1				
1.5			-			25	26	15	1	CAB MOB HOT DOG	1.1						
	0.2		PRODUCE CLR EVAP	1	15	27	28	15	1	CAB MOB HOT DOG		1.1					
		0.4	PAN RK CLR EVAP	1	15	29	30	15	1	CAB MOB HOT DOG			1.1				
1.1			CAB MOB HOT DOG	1	15	31	32	15	1	CAB MOB HOT DOG	1.1						
	1.1		CAB MOB HOT DOG	1	15	33	34	15	1	CAB MOB HOT DOG		1.1					
		1.1	CAB MOB HOT DOG	1	15	35	36	15	1	CAB MOB HOT DOG			1.1				
1.1			CAB MOB HOT DOG	1	15	37	38	15	1	CAB MOB HOT DOG	1.1						
	1.1		CAB MOB HOT DOG	1	15	39	40	15	1	CAB MOB HOT DOG		1.1					
		1.1	CAB MOB HOT DOG	1	15	41	42	30	2	CHILLER BLAST RI		2.5					
1.1			CAB MOB HOT DOG	1	15	43	44			-	2.5						
			SPARE	2	20	45	46	30	2	CHILLER BLAST RI		2.5					
			-			47	48			-			2.5				
			SPARE	2	20	49	50	20	1	CONV REC	0.2						
			-			51	52	20	1	SPARE							
			SPARE	1	20	53	54	20	1	SPARE							
			SPARE	1	20	55	56			-							
			SPARE	1	20	57	58	30	3	SPD							
			SPARE	1	20	59	60			-							
RATED VOLTAGE: 120/208V			3 PHASE, 4 WIRE			FEED IS TO BE ( ) BOTTOM ( X ) TOP FROM			'FOSDP'								
RATINGS IS TO BE 225			AMPS			GROUND BAR IS REQUIRED											
MAIN PROTECTION: 60			MAIN LUGS ONLY			NEUTRAL BUS IS TO BE ( X ) FULL ( ) DOUBLE SIZE											
BRANCH POLES: 60						HINGED DOOR WITH KEYED LATCH ( X ) IS ( ) IS NOT REQUIRED											
PANELBOARD IS TO BE ( ) FUSED ( X ) BOLT IN CB TYPE			10,000 AMPS, SYM RMS			HARD WIRED SURGE PROTECTION ( X ) IS ( ) IS NOT REQUIRED											
ALL BREAKERS RATED:			10,000 AMPS, SYM RMS														
I = 45591.96 VA			= 126.6 A			CONNECTED LOAD: 64 kVA											
208* V3						DEDUCT NEC -18 kVA											
						DEMAND LOAD 46 kVA											

REVISED ELEC PANEL				PANELBOARD SCHEDULE										'H'			
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA						
A	B	C									A	B	C				
			-			1	2			-	0.8						
			SPD	3	20	3	4	15	3	EF 7-2		0.8					
			-			5	6			-		0.8	0.8				
2.1			-			7	8			-	0.8						
	2.1		W-EF (EF-7-1)	3	15	9	10	15	3	EF 7-3		0.8					
		2.1	-			11	12			-		0.8					
2.1			-			13	14			-	0.8						
	2.1		E-EF (EF-8-1)	3	15	15	16	15	3	EF 7-4		0.8					
		2.1	-			17	18			-		0.8					
			-			19	20			-	5.1						
			SPARE	3	60	21	22	25	3	RTU-1		5.1					
			-			23	24			-		5.1					
			-			25	26			-	5.8						
			SPARE	3	60	27	28	30	3	RTU-2		5.8					
			-			29	30			-	5.8		5.8				
			-			31	32			-	5.8						
13.2			TR-L	3	70	33	34	30	3	RTU-3		5.8					
			-			35	36			-		5.8					
1.9		17.7	-			37	38	20	1	LIGHTING VOL CNTR	1.5						
	1.1		LIGHTING FRONT	1	20	37	38	20	1	LIGHTING KITCHEN	1.8						
			LIGHTING OFFICES	1	20	39	40	20	1	LIGHTING KITCHEN		1.8					
		0.4	LIGHTING WAREHOUSE	1	20	41	42		1	SPACE							
RATED VOLTAGE: 480/277V			3 PHASE, 4 WIRE			FEED IS TO BE ( ) BOTTOM ( X ) TOP FROM					'FOSDP'						
RATINGS IS TO BE 400			AMPS			GROUND BAR IS REQUIRED											
MAIN PROTECTION: MAIN LUGS ONLY			NEUTRAL BUS IS TO BE ( X ) FULL ( ) DOUBLE SIZE														
BRANCH POLES: 42			HINGED DOOR WITH KEY LATCH ( X ) IS ( ) IS NOT REQUIRED														
PANELBOARD IS TO BE ( ) FUSED ( X ) BOLT IN CB TYPE			HARD WIRED SURGE PROTECTION ( X ) IS ( ) IS NOT REQUIRED														
ALL BREAKERS RATED: 18,000 AMPS, SYM RMS			NOTE: Double Section panelboard														
I = $\frac{130561.88 \text{ VA}}{480 \times \sqrt{3}}$			= 157.0 A			CONNECTED LOAD: 129 KVA			DEDUCT NEC 2 KVA								
						DEMAND LOAD			131 KVA								