



**ONE-LINE-DIAGRAM INSTALLATION**  
 NOT TO SCALE

**PANEL: A** VOLTAGE 208/120V 3P, 4W CAPACITY: 125 MLO AIC:22,000 MOUNTING SURFACE

LTS	RCPTS	MOTOR	MSC	LOAD DESCRIPTION	AMP	POLE	NO.	PHASE	NO.	AMP	POLE	LOAD DESCRIPTION	LTS	RCPTS	MOTOR	MSC			
			1.2	EXISTING LOAD	20	1	1	A	2	20	1	FRONT COUNTER							
			1.2	EXISTING LOAD	20	1	3	B	4	20	1	SOUTH KITCHEN LIGHTS	1.3	1.4					
1.4				KITCHEN	20	1	5	C	6	20	1	EXISTING LOAD				1.2			
1.4				OFFICE	20	1	7	A	8	20	1	KITCHEN LIGHTS				1.3			
			1.2	EXISTING LOAD	20	1	9	B	10	20	1	BATH ROOM LIGHTS/SEPS	0.4		0.5				
0.5				COOLER LIGHTS	20	1	11	C	12	20	1	LOBBY LIGHTS	1.5						
			1.5	RESTROOM HAND DRYER	20	1	13	A	14	20	1	SIGN LIGHTS							
			1.5	RESTROOM HAND DRYER	20	1	15	B	16	20	1	EXISTING LOAD				1.2			
			1.2	EXISTING LOAD	20	1	17	C	18	20	1	EXISTING LOAD				1.2			
			1.2	EXISTING LOAD	20	1	19	A	20	20	1	EXISTING LOAD				1.2			
			1.2	EXISTING LOAD	20	1	21	B	22	20	1	POP MACHINE			0.4				
0.7				READER BOARD	20	1	23	C	24	20	1	BUILDING LIGHTS	1.1						
			1.2	EXISTING LOAD	20	1	25	A	26	20	1	EXISTING LOAD				1.2			
			1.2	EXISTING LOAD	20	1	27	B	28	20	1	EXISTING LOAD				1.2			
			1.2	EXISTING LOAD	20	1	29	C	30	20	1	EXISTING LOAD				1.2			
			1.2	EXISTING LOAD	20	1	31	A	32	100	2	MAIN PREP TABLE				8.3			
			1.7	FRYER DUMP	20	2	33	B	34	100	2	MAIN PREP TABLE				8.3			
			1.7	FRYER DUMP	20	2	35	C	36	30	3	OVEN				2.7			
1.5				REFRIGERATOR	20	1	37	A	38	30	3	OVEN				2.7			
			0.8	FRYER HOOD *	20	2	39	B	40	30	3	OVEN				2.7			
			0.8	FRYER HOOD *	20	2	41	C	42	20	1	FRYER DUMP				2.7			
LOAD SUMMARY KVA:				LOAD PER PHASE KVA:												FEED: SEE RISER			
LTS	5.1			A:			25*			REPLACE EXISTING BREAKER WITH NEW SIZE AS INDICATED									
RCPT:	6.9			B:			25			NOTE: EXISTING LOADS ARE ESTIMATED									
MOTOR:	2.1			C:			16												
MSC:	52.7			CONNECTED LOAD KVA:			67												
				DEMAND LOAD KVA:			67												

**PANEL: B** VOLTAGE 208/120V 3P, 4W CAPACITY: 100 MLO AIC:22,000 MOUNTING SURFACE

LTS	RCPTS	MOTOR	MSC	LOAD DESCRIPTION	AMP	POLE	NO.	PHASE	NO.	AMP	POLE	LOAD DESCRIPTION	LTS	RCPTS	MOTOR	MSC			
			1.2	EXISTING LOAD	20	1	1	A	2	20	2	FRIGEN POP MACHINE				2.0			
			1.2	EXISTING LOAD	20	1	3	B	4	20	2	FRIGEN POP MACHINE				2.0			
2.5				EXISTING LOAD	20	1	5	C	6	20	1	EXISTING LOAD				1.2			
2.5				LOT LIGHTS	30	2	7	A	8	20	1	EXISTING LOAD				1.2			
			1.2	EXISTING LOAD	20	1	11	B	10	20	1	EXISTING LOAD				1.2			
			1.2	EXISTING LOAD	20	1	13	A	14	20	2	LOT LIGHTS			1.8				
			1.2	EXISTING LOAD	20	1	15	B	16	20	1	EXISTING LOAD				1.2			
			1.2	EXISTING LOAD	20	1	17	C	18	20	1	EXISTING LOAD				1.2			
			1.2	EXISTING LOAD	20	1	19	A	20	20	1	EXISTING LOAD				1.2			
			1.2	EXISTING LOAD	20	1	21	B	22	20	1	EXISTING LOAD				1.2			
2.5				LOT LIGHTS	30	2	23	C	24	20	1	EXISTING LOAD				1.2			
2.5				LOT LIGHTS	30	2	25	A	26	20	1	EXISTING LOAD				1.2			
			1.2	EXISTING LOAD	20	1	27	B	28	20	1	EXISTING LOAD				1.2			
			1.2	EXISTING LOAD	20	1	29	C	30	20	1	EXISTING LOAD				1.2			
LOAD SUMMARY KVA:				LOAD PER PHASE KVA:												FEED: SEE RISER			
LTS	10.0			A:			16			NOTE: ALL EXISTING LOADS ARE ESTIMATED									
RCPT:	7.6			B:			14												
MOTOR:	0.0			C:			14												
MSC:	26.4			CONNECTED LOAD KVA:			44												
				DEMAND LOAD KVA:			44												

**PANEL: C** VOLTAGE 208/120V 3P, 4W CAPACITY: 100 MLO AIC:22,000 MOUNTING SURFACE

LTS	RCPTS	MOTOR	MSC	LOAD DESCRIPTION	AMP	POLE	NO.	PHASE	NO.	AMP	POLE	LOAD DESCRIPTION	LTS	RCPTS	MOTOR	MSC			
			0.2	STORAGE RECEPTACLE	20	1	1	A	2	20	2	ICE MACHINE				0.7			
			1.9	FRYERS	20	1	3	B	4	20	2	ICE MACHINE				0.7			
			1.5	FRYERS	20	1	5	C	6	30	2	COFFEE MAKER				1.5			
			1.5	HOT COCOA/TEA MACHINE	20	1	7	A	8	30	2	COFFEE MAKER				1.5			
			1.9	WATER COOLERS AND COOL	20	1	9	B	10	20	1	POS RECEPTACLES				1.5			
			0.2	EAST ROOF GFI	20	1	11	C	12	20	2	NEW OFFICE RECEPTACLES				0.7			
0.4				MONITOR BREAKERS	20	1	13	A	14	20	2	NEW OFFICE RECEPTACLES				0.7			
0.4				MONITOR BREAKERS	20	1	15	B	16	15	1	EXISTING LOAD				1.2			
				SPACE			17	C	18	20	1	SPACE							
LOAD SUMMARY KVA:				LOAD PER PHASE KVA:												FEED: SEE RISER			
LTS	0.0			A:			5												
RCPT:	6.8			B:			8												
MOTOR:	1.5			C:			4												
MSC:	8.6			CONNECTED LOAD KVA:			17												
				DEMAND LOAD KVA:			17												

DESIGNED BY: M/MT  
 REVIEWED BY: TC  
 DRAWN BY: M/MT  
 DATE: 2/21/2011  
 JOB NUMBER: 2010-5068  
 SCALE: 1/4" = 1'-0"  
**E501**

BRURGER King Restaurant  
 Kentwood, Michigan  
**BRAVOKILO, INC.**  
 4720 Edison Lakes Parkway  
 Mishawaka, Indiana  
 ELECTRICAL DETAILS, PANEL BOARD SCHEDULES  
 ONE-LINE DIAGRAM

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