

PANEL	"L"
VOLTAGE	120/240V,1PH,3W
MAIN	200AF,200/2 MCB
LOCATION	KITCHEN
MTG./TYPE	SURFACE/NEMA 1

MAIN BUSS: 200A  
FEED FROM:  
SVC. SW.

CONNECTED LOAD	VA	A
LINE 1	11,280	94
LINE 2	10,560	88
TOTAL	21,840	

MCB AIC = 22,000 (22KAIC)  
BCB'S AIC = 10,000 (10KAIC)



CKT. NO.	W	LOAD DESCRIPTION	C/B
1	12	10A,5C,2D,1X1,1EGL,1EF-1,646W	20
3	12	7A,2X1,2EGL,2EF-1,054W	20
5	12	4B-400W	20
7	-	*SHUNT-TRIP	-
9	12	EFU-1-1,920W	20
11	12	2#12,1#12(G),1/2"C	↓
13	12	MAU-1-1,920W	20
15	12	2#12,1#12(G),1/2"C	↓
17	-	*SHUNT-TRIP	-
19	10	HW HTR 4.6KW-5,750W	30
21	10	2#10,1#10(G),1/2"C	↓
23	-	SPARE	20
25	-	SPARE	20
27	-	SPARE	20
29	-	SPARE	20
31	-	SPARE	-
33	-	SPACE	-
35	-	SPACE	-
37	-	SPACE	-
39	-	SPACE	-

C/B	LOAD DESCRIPTION	W	CKT. SIZE NO.	LOAD LN1 LN2
20	3 REC'S-540W	12	2	18
20	2 REC'S-360W	12	4	12
20	3 REC'S-540W	12	6	8
20	3 REC'S-540W	12	8	5
20	2 REC'S-360W	12	10	11
20	FREEZER-1,740W	12	12	23
20	1 REC-180W	12	14	10
20	1 REC-180W	12	16	10
20	COOLER-1,080W	12	18	9
20	ICE MACHINE-3,360W	12	20	38
↓	2#12,1#12(G),1/2"C	12	22	38
20	SPARE	12	24	-
20	SPARE	12	26	-
20	SPARE	-	28	-
20	SPARE	-	30	-
-	SPACE	-	32	-
-	SPACE	-	34	-
-	SPACE	-	36	-
-	SPACE	-	38	-
-	SPACE	-	40	-

ELECTRICAL LOAD ANALYSIS

PROPOSED RESTAURANT BUILDOUT :

- . LIGHTING-1,560 SQ FT X 2 W/SQ FT X 125%-----= 3,900 W
- . RECEPTACLES-14 @ 180W-----= 2,520 W
- . HW HTR-1 @ 4.6KW X 125%-----= 5,750 W
- . HVAC-HTG>AC--1 @ 15KW X 125%-----= 18,750 W
- . 25% OF LARGEST MOTOR-----25 X 1,920W-----= 480 W
- . OTHER LOAD :
- . STORE FRONT SIGN-1 @ 12.5A, 120V X 125%-----= 1,875 W
- . MICROWAVE-----1 @ 12A, 120V-----= 1,440 W
- . COFFEE MAKER-1 @ 13A, 120V-----= 1,560 W
- . COOLER-----1 @ 9A, 120V-----= 1,080 W
- . HOOD EXHAUST FAN-1 @ 1 HP, 8A, 240V, 1PH-----= 1,920 W
- . HOOD SUPPLY FAN--1 @ 1 HP, 8A, 240V, 1PH-----= 1,920 W
- . HOOD LIGHTS-4 @ 100W, 120V X 125%-----= 500 W
- . ICE MACHINE-1 @ 14A, 240V, 1PH-----= 3,360 W
- . MEAT GRINDER-1 @ 12A, 120V-----= 1,440 W
- . FREEZER--1 @ 14.5A, 120V-----= 1,740 W
- . DOUGH MIXER-----1 @ 11A, 120V-----= 1,320 W
- . BLENDER-----1 @ 11A, 120V-----= 1,320 W
- . SOUND EQUIPMENT-9.8A, 120V-----= 1,176 W

SUBTOTAL CONNECTED LOAD-PROPOSED RESTAURANT-----= 52,051 W

SUMMARY AMPS @ 120/240V,3PH,4W  
FOR PROPOSED RESTAURANT BUILD OUT

	PHASE A	(HI-LEG) PHASE B	PHASE C	NEUTRAL
. LIGHTING-----	16.3A	-0-	16.3A	16.3A
. RECEPTACLES-----	10.5A	-0-	10.5A	10.5A
. HW HTR-----	24.0A	-0-	24.0A	-0-
. HVAC-HTG > AC-----	45.2A	-0-	45.2A	-0-
. 25% LARGEST MTR---	2.0A	-0-	2.0A	-0-
. OTHER LOAD :				
. STORE FRNT SGN--	-0-	-0-	12.5A	12.5A
. MICROWAVE-----	12.0A	-0-	-0-	12.0A
. COFFEE MAKER-----	13.0A	-0-	-0-	13.0A
. COOLER-----	-0-	-0-	9.0A	9.0A
. HOOD EXH FAN-----	8.0A	-0-	8.0A	-0-
. HOOD SUPP. FAN----	8.0A	-0-	8.0A	-0-
. HOOD LTS-----	-0-	-0-	4.2A	4.2A
. ICE MACHINE-----	14.0A	-0-	14.0A	-0-
. MEAT GRINDER-----	-0-	-0-	12.0A	12.0A
. FREEZER-----	14.5A	-0-	-0-	14.5A
. DOUGH MIXER-----	-0-	-0-	11.0A	11.0A
. BLENDER-----	11.0A	-0-	-0-	11.0A
. SOUND EQUIP.-----	9.8A	-0-	-0-	9.8A

I. TOTAL CONNECTED LOAD AMPS PROP. RESTAURANT BUILD OUT:

	PHASE A	(HI-LEG) PHASE B	PHASE C	NEUTRAL
188.3A	45.2A	176.7A	135.8A	

II. "EXISTING LOADS" --

- OWNERS PANEL - "7610 KEMPWOOD DR" - 100A, 120/240V, 1PH, 3W SERVICE
- OFFICE - "7610 KEMPWOOD DR, SUITE B" - 200A, 120/240V, 3PH, 4W SERVICE
- 200.0A
- 200.0A
- 140.0A

TOTAL OVERALL SERVICE CONNECTED LOAD AMPS AT MAIN GUTTER :

	PHASE A	(HI-LEG) PHASE B	PHASE C	NEUTRAL
458.3A	105.2A	446.7A	345.8A	
SVC WIRE AMP RATING	1140.0A	690.0A	1140.0A	600.0A
AVAILABLE SPARE -----	681.7A	564.8A	693.3A	254.2A

REFER TO ABBREVIATED ELECTRICAL ONE LINE DIAGRAM

REVISION  
1. 06/18/10 COH COMMENT

ELECTRICAL PLAN FOR A PROPOSED  
BUILD-OUT "LA BOTANA REGIA"  
LOCATED AT  
7610 KEMPWOOD, STE A  
HOUSTON TX 77055

02/25/10  
DATE

M.A.  
CHECK BY

M.A.  
DRAWN BY  
1/4"=1'-0"  
SCALE

PRO. NO.

ELECTRICAL SCHEDULES

1/4"=1'-0"

SHEET:  
E2.1