

ELECTRICAL LOAD ANALYSIS

I.	DESCRIPTION OF LOADS	SO. FT.	V/A	NO. ROOMS	TOTAL V/A	DEMAND LOAD
A.	GUEST DOUBLE QUEEN	312	3	45	42,120	
B.	ACC. DOUBLE QUEEN W/ TUB	500	3	2	3,000	
C.	ACC. DOUBLE QUEEN W/ RIS	500	3	1	1,500	
D.	DOUBLE QUEEN PARLOR	530	3	1	1,590	
E.	KING W/ TUB	530	3	2	1,590	
F.	MULTI-SHOWER	312	3	60	57,600	
G.	KING CORNER	315	3	20	18,900	
H.	KING EXTENDED	388	3	4	4,416	
I.	KING PARLOR	574	3	1	1,710	
J.	ACC. KING W/ TUB	574	3	1	5,166	
K.	ACC. KING W/ RIS	574	3	2	5,166	
L.	SUBTOTAL				140,964	
M.	CORRIDORS	13,070 x 0.50			6,535	
N.	STORAGE	3,078 x 0.25			41,010	
O.	LOBBY LIGHTING				157,300	
P.	GUESTROOM HOSPITALITY CRTS	1100 x 143			170,085	
Q.	SUBTOTAL				370,869	
R.	LIGHTING LOAD CALCULATIONS:					
S.	2) NEXT 80,000 W @40%				32,000	
T.	3) REMAINDER OF WATTAGE @ 30%				91,491	
U.	SUBTOTAL LIGHTING AND POWER				133,491	
V.	COMMERCIAL AREA LIGHTING	46,601 SO. FT. @100% (1 WPER SQ. FT.)			91,382	
W.	COMM. AREA RECEPTACLES	10,000			46,601	
X.	1) 1st 10,000 WATTS @ 100%				10,000	
Y.	2) REMAINDER OF WATTAGE @ 50%				17,846	
Z.	TOTAL				27,846	
AA.	ROOM HVAC UNITS:					
AB.	10 UNITS @ 2,800 VA =				29,000	
AC.	133 UNITS @ 1,600 VA =				212,800	
AD.	7 AHU-6 @ 2,500 VA=				17,500	
AE.	CL-6 1,400 VA=				9,800	
AF.	TOTAL				259,900	

III.	MECHANICAL AND MISCELLANEOUS EQUIPMENT					
A.	KITCHEN EQUIPMENT					116,020
B.	LAUNDRY EQUIPMENT					23,000
C.	ELEVATOR MOTORS					13,000
D.	DRIVERS - COMMERCIAL					7,000
E.	JOCKEY PUMP					2,700
F.	EXHAUST FANS					26,820
G.	HEATING AND COOLING					10,000
H.	POW. EQUIPMENT					28,100
I.	WATER HEATERS	pumps, heaters, etc				5,760
J.	CIRCULATING PUMPS					1,908
K.	HOUSE PUMPS	(2) 10HP pumps				22,200
L.	MALU AND MALU-2					61,920
M.	AHU-1C2 GREATER OF HEATING OR COOLING					55,440
N.	AHU-1C2 GREATER OF HEATING OR COOLING					11,800
O.	AHU-1C3 GREATER OF HEATING OR COOLING					75,960
P.	AHU-1C4 GREATER OF HEATING OR COOLING					13,320
Q.	AHU-1C5 GREATER OF HEATING OR COOLING					12,960
R.	RTU-1					11,800
S.	RTU-2					11,800
T.	RTU-3					11,800
U.	RTU-4					22,700
V.	RTU-5					6,700
W.	RTU-6					11,800
X.	RTU-7					11,340
Y.	RTU-8					21,300
Z.	RTU-9					18,836
AA.	FOURCU					7,842
AB.	500 HP MOTOR=	77,000 @25%=				18,950
AC.	CH-4, CH-B, CH-C, CH-D, CH-E					7,842
AD.	DEMAND TOTAL					1,287,727
AE.	TOTAL AMPERES @ 120/208V, 3-PH, 4-W =					3,577
AF.	AMPERES					50 HP
AG.	NOT INCLUDED IN SERVICE LOAD, FIRE PUMP, TAPPED AHEAD OF MAIN					

MSB1

Room

Mounting

Fed from

New:

SURFACE

UTILITY

U/LSE RATED

Vols

Bus Amps

Neutral

208V/120V/3P/4W

4000

100%

AC

Main Bkr

Lugs

65,000

4000

STANDARD

Circuit #	Circuit Description	Breaker Trippoles	Cond.	Feeder Raceway and Conductors
1	PANEL CA	200/3	CU	2" C, #3/10, #50N, #6G
3	5	—	—	—
7	PANEL CB	200/3	CU	2" C, #3/10, #50N, #6G
9	11	—	—	—
13	PANEL CK	400/3	CU	2 RUNS EACH - 2" C, #3/10, #50N, #6G
15	15	—	—	—
17	17	100/3	CU	1-1/2" C, 3#11, #1N, #6G
19	PANEL HM	—	—	—
21	21	—	—	—
23	23	—	—	—
25	PANEL L1A	200/3	CU	2" C, #3/10, #50N, #6G
27	27	—	—	—
29	29	—	—	—
31	PANEL L2A	200/3	CU	2" C, #3/10, #50N, #6G
33	33	—	—	—
35	35	—	—	—
37	PANEL L3A	200/3	CU	2" C, #3/10, #50N, #6G
39	39	—	—	—
41	41	—	—	—
4	PANEL LDY	100/3	CU	1-1/2" C, 3#11, #1N, #6G
4	4	—	—	—
6	6	—	—	—
8	PANEL M1A	200/3	CU	2" C, #3/10, #50N, #6G
10	10	—	—	—
12	12	—	—	—
14	PANEL M2A	200/3	CU	2" C, #3/10, #50N, #6G
16	16	—	—	—
18	18	—	—	—
20	PANEL M3	400/3	CU	2 RUNS EACH - 2" C, #3/10, #50N, #6G
22	22	—	—	—
24	24	—	—	—
26	PANEL M4	600/3	CU	2 RUNS EACH - 3" C, #3/50cm(1), 350kcm(1), #1G
28	28	—	—	—
30	30	—	—	—
32	PANEL OL	225/3	CU	2-1/2" C, 3#10, #4/0N, #4G
34	34	—	—	—
36	36	—	—	—
38	PANEL PL	225/3	CU	2 1/2" C, #3/10, #4/0N, #4G
40	40	—	—	—
42	42	—	—	—

MSB2

Room	Volts	208V/120V/99-4W	AC	65,000
Mounting	Bus Mains	4000	Main Br	MLO
Fed from	MSB1	Neutral	100%	Lugs
Notes:				STANDARD
CCT				
#	CIRCUIT DESCRIPTION	BREAKER TRIP POLES	COND.	FEEDER RACEWAY AND CONDUCTORS
1	PANEL MR	400/3	CU	2 RUNS EACH - 2" C, 3#30, #30N, #3G
2		—		
3		—		
4		—		
5		—		
6		—		
7	PANEL MTB	225/3	CU	2 1/2" C, 3#40, #40N, #4G
8		—		
9		—		
10		—		
11		—		
12	PANEL M2B	200/3	CU	2" C, 3#30, #30N, #6G
13		—		
14		—		
15		—		
16		—		
17		—		
18	PANEL L1B	200/3	CU	2" C, 3#30, #30N, #6G
19		—		
20		—		
21		—		
22		—		
23	PANEL L2B	200/3	CU	2" C, 3#30, #30N, #6G
24		—		
25		—		
26		—		
27		—		
28	PANEL L3B	200/3	CU	2" C, 3#30, #30N, #6G
29		—		
30		—		
31		—		
32		—		
33		—		
34		—		
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36		—		
37	SERVICE ELEVATOR	150/3	CU	1 1/2" C, 3#10, #6G
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NO.	ISSUED	DATE
1	ISSUED	10/26/07

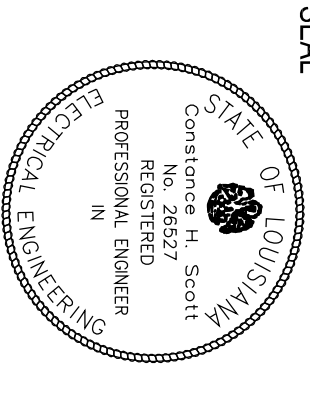
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#HolidayDnr
MILLENNIUM
BOSSIER CITY,
LOUISIANA

MAIN SWITCHBOARD AND LOAD CALCULATIONS

DATE	10/26/07
DRAWN BY	JSH
CHECKED BY	CHS
FILE NAME	

NONE

PROJECT NO.

DRAWING

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