MECHANICAL EQUIPMENT CONNECTION SCHEDULE

TAG NO.	EQUIP. ID	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	HP	kW	FLA	MCA	MOCP	FEEDER	BREAKER (TRIP/POLE)	SIZE	POLE	FUSE	FEATURES	REMARKS / KEYNOTES
			EQUIPMENT CHARACTERISTICS									DISCONNECT SWITCH				
1	WH-1	WATER HEATER	208	1		4.5	21.6	27.0	30	2#10(CU),1#10(CU)G-1/2"C(EMT)	30/2	30	2	NF		1,7
2	WH-2	WATER HEATER	208	1		4.5	21.6	27.0	30	2#10(CU),1#10(CU)G-1/2"C(EMT)	30/2	30	2	NF		1,7
3	WH-3	WATER HEATER	208	1		6.0	28.8	36.0	40	2#8(CU),1#10(CU)G-1/2"C(EMT)	40/2	60	2	NF		1,7
4	WH-4	WATER HEATER	208	1		6.0	28.8	36.0	40	2#8(CU),1#10(CU)G-1/2"C(EMT)	40/2	60	2	NF		1,7
5	WH-5	WATER HEATER	208	1		12.0	57.7	72.1	80	2#3(CU),1#8(CU)G-3/4"C(EMT)	80/2	100	2	NF		1,7
6	FCU-A	FAN COIL UNIT	208	1	1/3	3.8	20.2	25.0	30	2#10(CU),1#10(CU)G-1/2"C(EMT)	30/2	30	2	NF		1,7
7	FCU-B	FAN COIL UNIT	208	1	1/3	3.8	20.2	25.0	30	2#10(CU),1#10(CU)G-1/2"C(EMT)	30/2	30	2	NF		1,7
8	FCU-C	FAN COIL UNIT	208	1	1/2	3.8	21.0	26.0	30	2#10(CU),1#10(CU)G-1/2"C(EMT)	30/2	30	2	NF		1,7
9	HP-A	HEAT PUMP	208	1		2.0	9.5	11.8	20	2#12(CU),1#12(CU)G-1/2"C(EMT)	20/2	30	2	NF	NEMA-3R	1,7
10	HP-B	HEAT PUMP	208	1		2.4	11.5	14.2	25	2#10(CU),1#10(CU)G-1/2"C(EMT)	25/2	30	2	NF	NEMA-3R	1,7
11	HP-C	HEAT PUMP	208	1		3.1	14.9	16.9	30	2#10(CU),1#10(CU)G-1/2"C(EMT)	30/2	30	2	NF	NEMA-3R	1,7
12	TEF-A	EXHAUST FAN	120	1		0.0	0.3	0.3	20	2#12(CU),1#12(CU)G-1/2"C(EMT)	20/1	30	1	NF		1,7
13	HWCP-1	CIRCULATION PUMP	120	1		0.0	0.1	0.2	15	2#12(CU),1#12(CU)G-1/2"C(EMT)	15/1	30	1	NF		1,7
14	EWH-1.5	ELECTRIC WALL HEATER	208	1		1.5	7.2	9.0	20	2#12(CU),1#12(CU)G-1/2"C(EMT)	20/2	30	2	NF		1,7
15	FCU-1.5	FAN COIL UNIT	208	1	1/3	3.8	21.1	26.0	30	2#10(CU),1#10(CU)G-1/2"C(EMT)	30/2	30	2	NF		1,7
16	FCU-2.0	FAN COIL UNIT	208	1	1/3	3.8	21.1	26.0	30	2#10(CU),1#10(CU)G-1/2"C(EMT)	30/2	30	2	NF		1,7
17	FCU-2.5	FAN COIL UNIT	208	1	1/2	6.0	32.9	44.7	45	2#6(CU),1#10(CU)G-3/4"C(EMT)	45/2	60	2	NF		1,7
18	FCU-3.0	FAN COIL UNIT	208	1	1/2	6.0	32.9	44.7	45	2#6(CU),1#10(CU)G-3/4"C(EMT)	45/2	60	2	NF		1,7
19	FCU-3.5	FAN COIL UNIT	208	1	1/2	6.0	32.9	44.7	45	2#6(CU),1#10(CU)G-3/4"C(EMT)	45/2	60	2	NF		1,7
20	FCU-5.0	FAN COIL UNIT	208	1	3/4	7.5	42.1	53.8	60	2#4(CU),1#10(CU)G-3/4"C(EMT)	60/2	60	2	NF		1,7
21	HP-1.5	HEAT PUMP	208	1		2.0	9.5	11.8	20	2#12(CU),1#12(CU)G-1/2"C(EMT)	20/2	30	2	NF	NEMA-3R	1,7
22	HP-2.0	HEAT PUMP	208	1		2.4	11.5	14.2	25	2#10(CU),1#10(CU)G-1/2"C(EMT)	25/2	30	2	NF	NEMA-3R	1,7
23	HP-2.5	HEAT PUMP	208	1		3.1	14.9	16.9	30	2#10(CU),1#10(CU)G-1/2"C(EMT)	30/2	30	2	NF	NEMA-3R	1,7
24	HP-3.0	HEAT PUMP	208	1		3.4	16.2	20.0	30	2#10(CU),1#10(CU)G-1/2"C(EMT)	30/2	30	2	NF	NEMA-3R	1,7
25	HP-3.5	HEAT PUMP	208	1		4.1	19.5	24.0	40	2#8(CU),1#10(CU)G-1/2"C(EMT)	40/2	30	2	NF	NEMA-3R	1,7
26	HP-5.0	HEAT PUMP	208	1		5.4	25.9	32.0	50	2#8(CU),1#10(CU)G-3/4"C(EMT)	50/2	30	2	NF	NEMA-3R	1,7
27	ELEV	ELEVATOR	208	3	25		74.6	93.5	100	3#1(CU),1#6(CU)G-1 1/4"C(EMT)	100/3	100	3	NF		1,7
28	SP	SUMP PUMP	208	1	1		5.8	11.0	20	2#12(CU),1#12(CU)G-1/2"C(EMT)	20/1	30	2	NF	NEMA-3R	1,7
29	DSF/DCU-EV	DUCTLESS SPLIT	208	1		1.6	7.5	11.0	30	2#10(CU),1#10(CU)G-1/2"C(EMT)	30/2	30	2	NF	NEMA-3R	1,7,8,9
30	DSF/DCU-M	DUCTLESS SPLIT	208	1		1.6	7.6	19.0	30	2#10(CU),1#10(CU)G-1/2"C(EMT)	30/2	30	2	NF	NEMA-3R	1,7,8,9
31	WH-6	WATER HEATER	208	1		4.5	21.6	27.0	30	2#10(CU),1#10(CU)G-1/2"C(EMT)	30/2	30	2	NF		1,7

NOTES FOR THIS SCHEDULE:

(1) IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ELECTRICAL WITH MECHANICAL EQUIPMENT REGARDING VOLTAGE AND PHASE.
(2) DISCONNECT PROVIDED INTEGRAL TO UNIT BY DIVISION 15.
(3) MRS SHALL BE NEMA 3R FOR DISCONNECTS LOCATED OUTDOORS.
(4) PROVIDE GFI RECEPTACLE IF NOT INTEGRAL TO UNIT. COORDINATE WITH MECHANICAL CONTRACTOR.
(5) CONTROLLED BY WALL MOUNTED SWITCH. SWITCH SHALL BE A TIMER TYPE WITH A 30 MINUTE MAX "ON" TIME.
(6) SWITCH AND CIRCUIT WITH LIGHTS.
(7) SEE FLOOR PLANS FOR CIRCUIT.
(8) DFC SHALL BE CONNECTED TO CORRESPONDING DCU. COORDINATE EXACT REQ. WITH EQUIP. SUPPLIER PRIOR TO ROUGH-IN.
(9) DCU LOAD INFORMATION INCLUDES DFC.
(10) CIRCUIT WITH LIGHTS, BUT PROVIDE SEPARATE MOTOR RATED SWITCH FOR EXHAUST FAN.
(11) LOCK OFF BREAKER USED DISCONNECT. LOCK MUST BE PAD LOCKABLE. NEC 422.31(B).

PANELBOARD "G7" SCHEDULE

VOLTAGE: 208/120V 3 Ph 4 Wire | MAIN: 60A MCB | MOUNTING: SURFACE | REMARKS:
BUS SIZE: 60A | TOTAL LOAD: 10.1 KVA | FAULT DUTY: SEE RISER | Provide copper ground bus

CKT NO	DESCRIPTION	LTG	REC	MTR	A/C	HTG	MISC	KIT	BKR	A	B	C	BKR	KIT	MISC	HTG	A/C	MTR	REC	LTG	DESCRIPTION	CKT NO
1	RECEPT - MAINT. GARAGE		0.2	1.2					20/1	1.8			20/1						0.4		RECEPT - MAINT. GARAGE	2
3	RECEPT - GARAGE		0.2	1.2					20/1		1.8		20/1						0.4		RECEPT - MAINT. GARAGE	4
5	RECEPT - GARAGE		0.2	1.2					20/1			1.8	20/1						0.4		RECEPT - MAINT. GARAGE	6
7	RECEPT - GARAGE		0.2	1.2					20/1	1.4			20/1								SPACE	8
9	RECEPT - GARAGE		0.2	1.2					20/1		1.4		20/1								SPACE	10
11	RECEPT - GARAGE		0.4	1.2					20/1			1.6	20/1								SPACE	12
13	RECEPT - EXTERIOR		0.2						20/1	0.2			20/1								SPACE	14
15	LIGHTING - GARAGES	0.3							20/1		0.3		20/1								SPACE	16
17	SPARE								20/1			0.0	20/1								SPACE	18
19	SPARE								20/1	0.0			20/1								SPACE	20
21	SPARE								20/1		0.0		20/1								SPACE	22
23	SPARE								20/1			0.0	20/1								SPACE	24
LUG									/3	0.0	0.0	0.0										
	CONNECTED KVA	0.3	1.4	7.2	0.0	0.0	0.0	0.0		3.3	3.4	3.3		0.0	0.0	0.0	0.0	0.0	1.2	0.0	CONNECTED KVA	
	AMPERES/PHASE									27.8	28.5	27.8									AMPERES/PHASE	

TOTALS		Connected	Factor	Demand
T	Lighting:	0.3	X 125% =	0.3
O	Receptacles:	2.6	NEC 220.44	2.6
T	Motors:	7.2	NEC 220.18(A)	7.2
A	Largest Motor:	0.0	NEC 430.24	0.0
L	A/C:	0.0	X 100% =	0.0
S	Heating:	0.0	X 100% =	0.0
	Miscellaneous:	0.0	X 100% =	0.0
	Kitchen:	0.0	NEC 220.56	0.0
	Not Used.	--	Not Used.	--
	Not Used.	--	Not Used.	--
	CONNECTED KVA	10.1		10.2 CODE KVA
	TOTAL AMPS	28.1		28.3 CODE AMPS

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NOTES:
1) This circuit breaker to have pad lockable device.
2) This shall be a GFI type circuit breaker.
3) Provide shunt trip type circuit breaker.
4) Per NEC 2017, 210.4 Each multi-wire branch circuit shall be provided with a means that will simultaneously disconnect all ungrounded conductors at the point where the branch circuit originates. This means that any circuit that shares a neutral shall be disconnected by a common means. Utilize 2-pole, 3-pole, or wire-tied circuit breakers where necessary.
5) Demand load for guestroom ltg&recepts calculated by area per 2017 NEC Table 220.12, 220.14(J), & Table 220.42.
6) Diversity in accordance with 2017 NEC Table 220.84. 0 Units @ 100%.
7) Not used.
8) Not used.
9) Not used.

PANELBOARD "AM1" SCHEDULE

VOLTAGE: 208/120V 3 Ph 4 Wire | MAIN: --- MLO | MOUNTING: SURFACE | REMARKS:
BUS SIZE: 600A | TOTAL LOAD: 98.6 KVA | FAULT DUTY: SEE RISER | Provide copper ground bus

CKT NO	DESCRIPTION	LTG	REC	MTR	A/C	HTG	MISC	KIT	BKR	A	B	C	BKR	KIT	MISC	HTG	A/C	MTR	REC	LTG	DESCRIPTION	CKT NO
1	LIGHTING	1.9							20/1	3.2			20/1						1.3		RECEPT - GAME ROOM	2
3	LIGHTING	1.9							20/1		2.3		20/1						0.4		RECEPT - PARCEL ROOM	4
5	LIGHTING	1.9							20/1			2.9	20/1		1.0						FRIDGE - PARCEL ROOM	6
7	RECEPT - ROOF		0.2						20/1	1.2			20/1		1.0						LOCKERS - PARCEL ROOM	8
9	UC ICE - CLUBROOM						0.5		20/1		1.8		20/1						1.3		RECEPT - MAIL ROOM	10
11	DISPOSAL - CLUBROOM						1.0		20/1			2.3	20/1						1.3		RECEPT - MAIL ROOM	12
13	UC FRIDGE - CLUBROOM						0.5		20/1	1.0			20/1		0.5						UC FRIDGE - MAIL ROOM	14
15	RECEPT - OFFICES		1.1						20/1		2.6		20/1		1.5						COFFEE - MAIL ROOM	16
17	RECEPT - RESTROOMS		0.7						20/1			1.4	20/1						0.7		RECEPT - CONF RM	18
19	EWC						0.6		20/1	1.1			20/1		0.5						PRINTER - MAIL ROOM	20
21	RECEPT - OFFICE		0.5						20/1		0.9		20/1						0.4		APPLIANCE - MODEL UNIT	22
23	RECEPT - MAINTENANCE		0.6						20/1			0.6	20/1									24
25	RECEPT - WORKROOM		0.5						20/1	1.7			20/1		1.2						DISHWASHER - MODEL UNIT	26
27	MICROWAVE - WORKROOM						1.5		20/1		3.0		20/1		1.5						APPLIANCE/MW - MODEL UNIT	28
29	FRIDGE - WORKROOM						1.0		20/1			6.0	50/2		5.0						RANGE - MODEL UNIT	30
31	DISHWASHER - WORKROOM						1.0		20/1	6.0					5.0							32
33	DISPOSAL - WORKROOM						1.0		20/1		2.3		20/1						1.3		RECEPT - CLUBROOM	34
35	RECEPT - WORKROOM		0.9						20/1			2.2	20/1						1.3		RECEPT - CLUBROOM	36
37	RECEPT - ELEC		0.4						20/1	1.4			20/1						1.1		RECEPT - CLUBROOM	38
39	FACP - ELEC						0.6		20/1		1.7		20/1						1.1		RECEPT - LOBBY	40
41	DATA RECEPT - ELEC		0.4						20/1			0.9	20/1						0.5		RECEPT - MECH/WATER	42
43	DATA RECEPT - ELEC		0.4						20/1	2.6			30/2			1.9		0.3			FCU - 2.0	44
45	FCU - 2.0			0.3		1.9			30/2		4.4					1.9		0.3				46
47				0.3		1.9						6.3	60/2			3.5		0.6			FCU - 5.0	48
49	FCU - 5.0			0.6		3.5			60/2	8.2						3.5		0.6				50
51				0.6		3.5					5.6		30/2				1.5				HP - 2.0	52
53	HP - 2.0				1.5				30/2			3.0					1.5					54
55					1.5					4.2			50/2				2.7				HP - 5.0	56
57	HP - 5.0				2.7				50/2		5.3						2.7					58
59					2.7							2.7	20/1								SPACE	60
61	RECEPT - EXTERIOR		0.4						20/1	0.4			20/1								SPACE	62
63	LUXE RECEPTS - PARCEL		0.9						20/1		0.9		20/1								SPACE	64
65	FIREPLACE RECEPT						0.6		20/1			0.6	20/1								SPACE	66
67	DFC-VDSS-1				0.9				15/2	0.9			20/1								SPACE	68
69					0.9						0.9		20/1								SPACE	70
71	HAND DRYER						1.2		20/1			1.2	20/1								SPACE	72
73	HAND DRYER						1.2		20/1	1.2			20/1								SPACE	74
75	MONUMENT SIGN						1.0		20/1		1.0		20/1								SPACE	76
77	HAND DRYER						1.2		20/1			1.2	20/1								SPACE	78
79	COPIER - WORKROOM						1.2		20/1	1.2			20/1								SPACE	80
81	PEDESTRIAN GATES						0.2		20/1		0.2		20/1								SPACE	82
83	SPARE								20/1			0.0	20/1								SPACE	84
LUG									/3	0.0	0.0	0.0										
	CONNECTED KVA	5.7	7.2	1.8	10.1	10.8	14.3	0.0		34.2	32.8	31.6		0.0	17.2	10.8	8.4	1.8	10.4	0.0	CONNECTED KVA	
	AMPERES/PHASE									285.0	272.9	263.1									AMPERES/PHASE	

TOTALS		Connected	Factor	Demand
T	Lighting:	5.7	X 125% =	7.2
O	Receptacles:	17.6	NEC 220.44	13.8
T	Motors:	3.7	NEC 220.18(A)	3.7
A	Largest Motor:	0.0	NEC 430.24	0.0
L	A/C:	18.5	X 100% =	18.5
S	Heating:	21.6	X 100% =	21.6
	Miscellaneous:	31.5	X 100% =	31.5
	Kitchen:	0.0	NEC 220.56	0.0
	Not Used.	--	Not Used	--
	Not Used.	--	Not Used	--
	CONNECTED KVA	98.6		96.2 CODE KVA
	TOTAL AMPS	274.0		267.4 CODE AMPS

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NOTES:
1) This circuit breaker to have pad lockable device.
2) This shall be a GFI type circuit breaker.
3) Provide shunt trip type circuit breaker.
4) Per NEC 2017, 210.4 Each multi-wire branch circuit shall be provided with a means that will simultaneously disconnect all ungrounded conductors at the point where the branch circuit originates. This means that any circuit that shares a neutral shall be disconnected by a common means. Utilize 2-pole, 3-pole, or wire-tied circuit breakers where necessary.
5) Demand load for guestroom ltg&recepts calculated by area per 2017 NEC Table 220.12, 220.14(J), & Table 220.42.
6) Diversity in accordance with 2017 NEC Table 220.84. 0 Units @ 100%.
7) Not used.
8) Not used.
9) Not used.

PANELBOARD "[illegible]" SCHEDULE

VOLTAGE: 208/120V 3 Ph 4 Wire | MAIN: --- MLO | MOUNTING: SURFACE | REMARKS:
BUS SIZE: 200A | TOTAL LOAD: 27.4 KVA | FAULT DUTY: SEE RISER | Provide copper ground bus

CKT NO	DESCRIPTION	LTG	REC	MTR	A/C	HTG	MISC	KIT	BKR	A	B	C	BKR	KIT	MISC	HTG	A/C	MTR	REC	LTG	DESCRIPTION	CKT NO
1	LIGHTING	0.1							[illegible]	0.5			20/1						0.4		RECEPT - POOL EQ	2
3	FANS - VERANDA			0.2					20/1		2.7		30/2					2.5			POOL PUMP	4
5	SPACE								20/1			2.5						2.5				6
7	SPACE								20/1	2.5			30/2					2.5			POOL PUMP	8
9	SPACE								20/1		2.5							2.5				10
11	SPACE								20/1			1.1	20/1						1.1		RECEPT - VERANDA	12
13	SPACE								20/1	0.6			20/1		0.6						GRILL E-STOP - VERANDA	14
15	SPACE								20/1		0.6		20/1		0.6						FIREPLACE - VERANDA	16
17	SPACE								20/1			0.4	20/1						0.4		RECEPT - VERANDA	18
19	SPACE								20/1	6.7			90/2			6.7					WH-5	20
21	SPACE								20/1		6.7					6.7						22
23	SPACE								20/1			0.4	20/1						0.4		EXTERIOR POOL RECEPTS	24
25	SPACE								20/1	0.4			20/1		0.4						STRING LTG	26
27	SPACE								20/1		0.0		20/1								SPARE	28
29	SPACE								20/1			0.0	20/1								SPARE	30
31	SPACE								20/1	0.0			20/1								SPARE	32
33	SPACE								20/1		0.0		20/1								SPARE	34
35	SPACE								20/1			0.0	20/1								SPARE	36
37	SPACE								20/1	0.0			20/1								SPARE	38
39	SPACE								20/1		0.0		20/1								SPARE	40
41	SPACE								20/1			0.0	20/1								SPARE	42
LUG									/3	0.0	0.0	0.0										
	CONNECTED KVA	0.1	0.0	0.2	0.0	0.0	0.0	0.0		10.5	12.5	4.3		0.0	1.6	13.3	0.0	10.0	2.2	0.0	CONNECTED KVA	
	AMPERES/PHASE									88.2	103.8	35.8									AMPERES/PHASE	

TOTALS		Connected	Factor	Demand
T	Lighting:	0.1	X 125% =	0.1
O	Receptacles:	2.2	NEC 220.44	2.2
T	Motors:	10.2	NEC 220.18(A)	10.2
A	Largest Motor:	0.0	NEC 430.24	0.0
L	A/C:	0.0	X 100% =	0.0
S	Heating:	13.3	X 100% =	13.3
	Miscellaneous:	1.6	X 100% =	1.6
	Kitchen:	0.0	NEC 220.56	0.0
	Not Used.	--	Not Used	--
	Not Used.	--	Not Used	--
	CONNECTED KVA	27.4		27.4 CODE KVA
	TOTAL AMPS	76.0		76.1 CODE AMPS

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NOTES:
1) This circuit breaker to have pad lockable device.
2) This shall be a GFI type circuit breaker.
3) Provide shunt trip type circuit breaker.
4) Per NEC 2017, 210.4 Each multi-wire branch circuit shall be provided with a means that will simultaneously disconnect all ungrounded conductors at the point where the branch circuit originates. This means that any circuit that shares a neutral shall be disconnected by a common means. Utilize 2-pole, 3-pole, or wire-tied circuit breakers where necessary.
5) Demand load for guestroom ltg&recepts calculated by area per 2017 NEC Table 220.12, 220.14(J), & Table 220.42.
6) Diversity in accordance with 2017 NEC Table 220.84. 0 Units @ 100%.
7) Not used.
8) Not used.
9) Not used.

PANELBOARD "MDP" SCHEDULE

VOLTAGE: 208/120V 3 Ph 4 Wire | MAIN: 400A MCB | MOUNTING: SURFACE | REMARKS:
BUS SIZE: 400A | TOTAL LOAD: 99.3 KVA | FAULT DUTY: SEE RISER | Provide copper ground bus

CKT NO	DESCRIPTION	LTG	REC	MTR	A/C	HTG	MISC	KIT	BKR	A	B	C	BKR	KIT	MISC	HTG	A/C	MTR	REC	LTG	DESCRIPTION	CKT NO
1	FITNESS EQUIP		1.2						20/1	3.1			20/1							1.9	LIGHTING	2
3	FITNESS EQUIP		1.2						20/1		3.1		20/1							1.9	LIGHTING	4
5	FITNESS EQUIP		1.2						20/1			1.2	20/1								SPARE	6
7	FITNESS EQUIP		1.2						20/1	1.9			20/1						0.7		RECEPT - EXTERIOR	8
9	FITNESS EQUIP		1.2						20/1		3.7		30/2		2.5						DRYER - PET SPA	10
11	FITNESS EQUIP		1.2						20/1			3.7			2.5							12
13	FITNESS EQUIP		1.2						20/1	3.7			30/2		2.5						DRYER - PET SPA	14
15	FITNESS EQUIP		1.2						20/1		3.7				2.5							16
17	FITNESS EQUIP		1.2						20/1			2.1	20/1						0.9		RECEPT - PET SPA	18
19	FITNESS EQUIP		1.2						20/1	3.4			30/2			1.9		0.3			FCU - 2.0	20
21	FITNESS EQUIP		1.2						20/1		3.4					1.9		0.3				22
23	RECEPT - FITNESS		0.5						20/1			4.7	60/2			3.5		0.6			FCU - 5.0	24
25	RECEPT - YOGA		0.5						20/1	4.7						3.5		0.6				26
27	RECEPT - RESTROOMS		0.5						20/1		4.7		60/2			3.5		0.6			FCU - [illegible]	28
29	EWC						0.6		20/1			4.7				3.5		0.6				30
31	HAND DRYER						1.2		20/1	1.2			20/1								SPARE	32
33	HAND DRYER						1.2		20/1		1.2		20/1								[illegible]	34
35	RECEPT - FITNESS		0.7						20/1			0.7	20/1								[illegible]	36
37	UC FRIDGE						0.5		20/1	1.1			200/3		1.0	6.7		2.5	0.[illegible]	0.1	P	38
39	EWC - FITNESS						1.2		20/1		10.7				0.8	6.7						40
41	RECEPT - MECH		0.4						20/1			4.7						[illegible]	[illegible]			42
43	RECEPT - ROOF		0.2						20/1	1.7			30/2			1.5					HP - 2.0	44
45	FITNESS EQUIP		1.2						20/1		2.7					1.5						46
47	SPARE								20/1			2.7	50/2			2.7					HP - 5.0	48
49	SPARE								20/1	2.7						2.7						50
51	SPARE								20/1		2.7		50/2			2.7					HP - 5.0	52
53	SPARE								20/1			2.7				[illegible]						54
55	SPARE								20/1	[illegible]			20/1								SPACE	56
57	SPARE								20/1		[illegible]		20/1								SPACE	58
59	SPARE								20/1			0.0	20/1								SPACE	60
LUG									[illegible]	[illegible]	[illegible]	0.0										
	CONNECTED KVA	0.0	17.3	0.0	0.0	[illegible]	4.[illegible]	0.0		[illegible]	38.8	27.1		0.0	11.6	44.8	0.0	13.3	3.2	3.9	CONNECTED KVA	
	AMPERES/PHASE									278.3	323.1	225.6									AMPERES/PHASE	

TOTALS		Connected	Factor	Demand
T	Lighting:	[illegible]	X 125% =	4.9
O	Receptacles:	[illegible]	NEC 220.44	15.5
T	Motors:	13.3	NEC 220.18(A)	13.3
A	Largest Motor:	0.0	NEC 430.24	0.0
L	A/C:	0.0	X 100% =	0.0
S	Heating:	44.8	X 100% =	44.8
	Miscellaneous:	16.3	X 100% =	16.3
	Kitchen:	[illegible]	NEC 220.56	0.0
	Not Used.	--	Not Used.	--
	Not Used.	--	Not Used.	--
	CONNECTED KVA	99.3		94.8 CODE KVA
	TOTAL AMPS	276.0		263.3 CODE AMPS

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NOTES:
1) This circuit breaker to have pad lockable device.
2) This shall be a GFI type circuit breaker.
3) Provide shunt trip type circuit breaker.
4) Per NEC 2017, 210.4 Each multi-wire branch circuit shall be provided with a means that will simultaneously disconnect all ungrounded conductors at the point where the branch circuit originates. This means that any circuit that shares a neutral shall be disconnected by a common means. Utilize 2-pole, 3-pole, or wire-tied circuit breakers where necessary.
5) Demand load for guestroom ltg&recepts calculated by area per 2017 NEC Table 220.12, 220.14(J), & Table 220.42.
6) Diversity in accordance with 2017 NEC Table 220.84. 0 Units @ 100%.
7) Not used.
8) Not used.
9) Not used.

PANELBOARD "G6 & G8-G13" SCHEDULE

VOLTAGE: 208/120V 3 Ph 4 Wire | MAIN: 60A MCB | MOUNTING: SURFACE | REMARKS:
BUS SIZE: 60A | TOTAL LOAD: 8.7 KVA | FAULT DUTY: SEE RISER | Provide copper ground bus

CKT NO	DESCRIPTION	LTG	REC	MTR	A/C	HTG	MISC	KIT	BKR	A	B	C	BKR	KIT	MISC	HTG	A/C	MTR	REC	LTG	DESCRIPTION	CKT NO
1	RECEPT - GARAGE		0.2	1.2					20/1	1.4			20/1								SPACE	2
3	RECEPT - GARAGE		0.2	1.2					20/1		1.4		20/1								SPACE	4
5	RECEPT - GARAGE		0.2	1.2					20/1			1.4	20/1								SPACE	6
7	RECEPT - GARAGE		0.2	1.2					20/1	1.4			20/1								SPACE	8
9	RECEPT - GARAGE		0.2	1.2					20/1		1.4		20/1								SPACE	10
11	RECEPT - GARAGE		0.2	1.2					20/1			1.4	20/1								SPACE	12
13	RECEPT - EXTERIOR		0.2						20/1	0.2			20/1								SPACE	14
15	LIGHTING - GARAGES	0.3							20/1		0.3		20/1								SPACE	16
17	SPARE								20/1			0.0	20/1								SPACE	18
19	SPARE								20/1	0.0			20/1								SPACE	20
21	SPARE								20/1		0.0		20/1								SPACE	22
23	SPARE								20/1			0.0	20/1								SPACE	24
LUG									/3	0.0	0.0	0.0										
	CONNECTED KVA	0.3	1.3	7.2	0.0	0.0	0.0	0.0		2.9	3.0	2.8		0.0	0.0	0.0	0.0	0.0	0.0	0.0	CONNECTED KVA	
	AMPERES/PHASE									24.5	25.2	23.0									AMPERES/PHASE	

TOTALS		Connected	Factor	Demand
T	Lighting:	0.3	X 125% =	0.3
O	Receptacles:	1.3	NEC 220.44	1.3
T	Motors:	7.2	NEC 220.18(A)	7.2
A	Largest Motor:	0.0	NEC 430.24	0.0
L	A/C:	0.0	X 100% =	0.0
S	Heating:	0.0	X 100% =	0.0
	Miscellaneous:	0.0	X 100% =	0.0
	Kitchen:	0.0	NEC 220.56	0.0
	Not Used.	--	NotUsed	--
	Not Used.	--	NotUsed	--
	CONNECTED KVA	8.7		8.8 CODE KVA
	TOTAL AMPS	24.2		24.4 CODE AMPS

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NOTES:
1) This circuit breaker to have pad lockable device.
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3) Provide shunt trip type circuit breaker.
4) Per NEC 2017, 210.4 Each multi-wire branch circuit shall be provided with a means that will simultaneously disconnect all ungrounded conductors at the point where the branch circuit originates. This means that any circuit that shares a neutral shall be disconnected by a common means. Utilize 2-pole, 3-pole, or wire-tied circuit breakers where necessary.
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6) Diversity in accordance with 2017 NEC Table 220.84. 0 Units @ 100%.
7) Not used.
8) Not used.
9) Not used.

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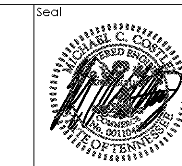
Seal



03-19-2021

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Project: 1928
CADD File:
Drawn By: SW
Checked By: WM

Permit Release:
May 15, 2020
Construction Release Set:
May 15, 2020

Revisions

No.	Date	Description
1	03/19/21	Owner Comments

ASI / RFI Revisions

No.	Date	Description

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Borough 33
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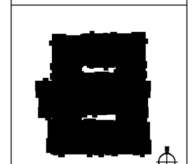

Drawing Title:
Panel Schedules

E8.0

ISSUED FOR CONSTRUCTION