

Panel Wiring Schedule (3-Phase)

Ckt No.	Zone	Load Description	Brkr. Size	Brkr. Opts.	N.E.C. kVA	Phase	N.E.C. kVA	Brkr. Size	Brkr. Opts.	Load Description	Zone	Ckt. No.
1	E	SPACE	-	-	0.000	A	0.000	-	-	SPACE	E	2
3	E	SPACE	-	-	0.000	A	0.000	-	-	SPACE	E	4
5	E	EDH-1 W/ 15A FUSES	30/3	-	3.325	A	4.433	30/3	-	RF-1 W/ 20A FUSES	E	6
7	E	HWH W/ 20A FUSES	30/3	-	4.433	A	4.433	30/3	-	RF-2 W/ 20A FUSES	E	8
9	E	DP-1 (HP-1) W/ 40A FUSES	60/3	-	7.426	A	3.325	60/3	-	DP-4 (AHU-1) W/ 15A FUSES	E	10
11	E	DP-2 (HP-2) W/ 40A FUSES	60/3	-	7.426	A	3.325	60/3	-	DP-5 (AHU-2) W/ 15A FUSES	E	12
13	E	DP-3 (HP-3) W/ 40A FUSES	60/3	-	7.426	A	3.325	60/3	-	DP-6 (AHU-3) W/ 15A FUSES	E	14
15	E	PNL-E	60/3	-	2.310	B	0.000	60/3	-	SPARE	E	16
17	E	SPARE	60/3	-	0.000	A	0.000	60/3	-	SPARE	E	18
19	E	75 KVA XFMR	100/3	-	20.472	A	0.000	60/3	-	SPARE	E	20

Notes
 * All circuit breakers to be 20-Amp, 1-Pole unless otherwise noted.
 ** All Phases to be balanced to within 10% using Actual Load Totals.

Breaker Options:
 AS Powerlink AS Breaker
 LO Handle lock-on device
 ST Shunt Trip Type
 AUX Auxiliary Contacts
 PA Handle Padlock Attachment
 GFCI Ground Fault Circuit Interrupter
 HACR Heating, A/C & Refrigeration
 SF Subfeed
 AFC Arc Fault Circuit Interrupter

Connected Load: 259.8 amps
NEC Demand Feeder Load: 224.6 amps

ELECTRIC LOAD SUMMARY
208Y/120V SERVICE

DESCRIPTION	N.E.C. CONNECTED kVA	NEC DEMAND NOTES	N.E.C. DEMAND FACTOR	N.E.C. DEMAND kVA
LIGHTING (CONTINUOUS)	26.805	[1]	1.25	33.506
TRACK LIGHT DEMAND ALLOWANCE	-	[2]	-	0.000
SHOW WINDOW DEMAND ALLOWANCE	-	[3]	-	0.000
KIT APPLIANCE	0.000	[4]	1.00	0.000
RECEPTACLES	25.360	[5]	-	17.880
MOTORS	0.000	[6]	-	0.000
FIXED ELECTRIC SPACE HEATING	0.000	[7]	-	0.000
AIR CONDITIONING SYSTEM	0.000	[8],[7]	-	0.000
ELECTRIC WATER HEATER	1.440	-	1.0	1.440
MISCELLANEOUS	9.580	-	1.0	9.580
TOTAL	63.195			62.216

N.E.C. DEM. kVA X 1000 = MINIMUM FEEDER AMPERAGE
 62.216 X 1000 = 172.7 AMPS

ELECTRIC LOAD SUMMARY
480Y/277V SYSTEM

DESCRIPTION	N.E.C. CONNECTED kVA	NEC DEMAND NOTES	N.E.C. DEMAND FACTOR	N.E.C. DEMAND kVA
LIGHTING (CONTINUOUS)	32.848	[1]	1.25	41.060
TRACK LIGHT DEMAND ALLOWANCE	-	[2]	-	0.000
SHOW WINDOW DEMAND ALLOWANCE	-	[3]	-	0.000
KIT APPLIANCE	0.000	[4]	1.00	0.000
RECEPTACLES	25.360	[5]	-	17.880
MOTORS	0.000	[6]	-	0.000
FIXED ELECTRIC SPACE HEATING	76.812	[7]	-	76.812
AIR CONDITIONING SYSTEM	29.925	[8],[7]	-	0.000
ELECTRIC WATER HEATER	14.740	-	1.0	14.740
MISCELLANEOUS	36.190	-	1.0	36.190
TOTAL	186.051			186.808

N.E.C. DEM. kVA X 1000 = MINIMUM FEEDER AMPERAGE
 186.051 X 1000 = 224.5 AMPS

LOAD SUMMARY NOTES:
 [1] POWER FACTORS ARE ALREADY INCLUDED IN LIGHTING LOAD.
 [2] 150VA/2FT OF TRACK LIGHTING + SUM OF W/VOLTS OF XFMRMS - CONNECTED LOAD
 [3] 200VA/FT OF TRACK LIGHTING LOAD
 [4] KIT APPLIANCE DEMAND FACTOR LIMITED TO 98
 [5] 0.0 < 100% = 100% DEMAND FACTOR
 [6] USE LARGER VALUE OF MOTOR OR COMPRESSOR IN SYSTEM APPLIED ON ONE UNIT.
 [7] USE GREATER VALUE OF THESE TWO CATEGORIES

Panel Wiring Schedule (3-Phase)

Ckt No.	Zone	Load Description	Brkr. Size	Brkr. Opts.	N.E.C. kVA	Phase	N.E.C. kVA	Brkr. Size	Brkr. Opts.	Load Description	Zone	Ckt. No.
1	N	LTG 1A - SALES TRACK	15/1	HT	1.440	A	0.360	LO	-	REC-PHONE BOARD IG1	N	2
3	N	LTG 2A - SALES FLUORESCENT	15/1	HT	0.912	B	0.360	LO	-	REC-PHONE BOARD IG2	N	4
5	N	LTG 1A - SALES TRACK	15/1	HT	1.400	C	0.360	LO	-	REC-PHONE BOARD IG3	N	6
7	N	LTG 2A - SALES FLUORESCENT	15/1	HT	0.912	A	0.180	LO	-	REC-MUSIC SYSTEM	N	8
9	N	LTG 1A - SALES TRACK	15/1	HT	1.860	B	0.180	LO	-	REC-DEDICATED	N	10
11	N	LTG 2A - SALES FLUORESCENT	15/1	HT	1.026	C	1.080	LO	-	REC-CASHWRAP IG CIRCUIT A	N	12
13	N	LTG 1A - SALES TRACK	15/1	HT	1.440	A	1.080	LO	-	REC-CASHWRAP IG CIRCUIT B	N	14
15	N	LTG 2A - SALES FLUORESCENT	15/1	HT	0.855	B	1.080	GFCI	-	REC-CASHWRAP GENERAL	N	16
17	N	LTG 1A - SALES TRACK	15/1	HT	1.700	C	1.000	GFCI	-	REC-CASHWRAP FRIDGE	N	18
19	N	LTG 1A - SALES TRACK	15/1	HT	1.520	A	0.180	LO	-	REC-BACKWRAP	N	20
21	N	LTG 1A - SALES TRACK	15/1	HT	1.520	B	0.360	LO	-	REC-CCTV IG	N	22
23	N	LTG 1A - SALES TRACK	15/1	HT	1.700	C	0.360	LO	-	REC-INTELLEX IG	N	24
25	N	SPARE	0.000	A	0.000	A	0.360	LO	-	REC-CCTV BACKBOARD	N	26
27	E	SPARE	0.540	B	0.180	-	-	-	-	REC-SOUND SYSTEM	N	28
29	E	RECEPTACLES & BUZZER	0.540	C	0.720	-	-	-	-	REC-BATTERY CHARGER	N	30
31	N	LTG 1B - SALES TRACK	1.800	A	0.900	-	-	-	-	REC-OFFICE CHAIR	N	32
33	N	LTG 1B - SALES TRACK	1.760	B	0.540	-	-	-	-	REC-OFFICE CHAIR	N	34
35	E	HVAC CONTROL	0.850	C	0.000	-	-	-	-	SPARE	N	36
37	E	CEILING RECEPTACLE/CONDENSATE PUMP AHU-1	0.600	A	0.900	-	-	-	-	REC-SALES	N	38
39	N	LTG 1B - PENDANTS	0.180	B	1.440	-	-	-	-	REC-NON SALES	N	40
41	N	LTG 1B - DIRECTIONAL SIGNS	0.400	C	0.360	-	-	-	-	REC-STORAGE	N	42
43	N	LTG 1B - DIRECTIONAL SIGNS	0.600	A	0.360	-	-	-	-	REC-LP MOTOR	N	44
45	N	LTG 2A - FITTING ROOM FLUORESCENT	0.456	B	0.500	-	-	-	-	ADA DOOR OPENERS	N	46
47	N	SCENE 2 - REC-PRINTERS	0.720	C	0.000	-	-	-	-	ADA DOOR OPENERS	N	48
49	N	LIGHTING/TCS BAYSIS CONTROLS	0.540	A	0.000	-	-	-	-	SPARE	E	50
51	N	EF-1-2B	0.000	B	0.000	-	-	-	-	SPARE	E	52
53	N	LTG 2B - FR MIRRORS/STOCK PEND	0.540	C	1.440	-	-	-	-	EW-1	N	54
55	N	LTG 3A - SHOW WINDOW TRACK	0.360	A	1.500	-	-	-	-	MICROWAVE	N	56
57	N	REC 3A - SHOW WINDOW	0.720	B	1.500	-	-	-	-	VENDING MACHINES	N	58
59	E	WATER COOLER	0.500	C	0.600	-	-	-	-	REFRIGERATOR	N	60
61	N	REC 3A - CEILING	0.360	A	0.000	-	-	-	-	SPARE	N	62
63	N	REC 3A - CEILING	0.360	B	0.000	-	-	-	-	SPARE	E	64
65	N	HAND DRYERS	1.500	C	0.720	-	-	-	-	REC-PHONE CHARGERS	N	66
67	N	HAND DRYERS	1.500	A	0.720	-	-	-	-	REC-CHARGING CABINET	N	68
69	N	PANIC HARDWARE	0.000	B	1.080	-	-	-	-	REC-CASHWRAP IG CIRCUIT A	E	70
71	N	REC-CASHWRAP IG CIRCUIT A	1.080	C	1.080	-	-	-	-	REC-CASHWRAP IG CIRCUIT B	E	72
73	E	REC-CASHWRAP IG CIRCUIT B	1.080	A	1.080	-	-	-	-	REC-CASHWRAP GENERAL	E	74
75	E	REC-CASHWRAP GENERAL	1.080	B	0.000	-	-	-	-	SPARE	E	76
77	N	LTG OFF	0.500	C	0.000	-	-	-	-	SPARE	E	78
79	E	REC-CASHWRAP IG CIRCUIT A	1.080	A	0.000	-	-	-	-	SPARE	E	80
81	E	REC-CASHWRAP IG CIRCUIT B	1.080	B	1.200	-	-	-	-	LTG 4A - SIGNS	N	82
83	E	REC-CASHWRAP GENERAL	1.080	C	1.200	-	-	-	-	LTG 4A - SIGNS	N	84

Notes
 * All circuit breakers to be 20-Amp, 1-Pole unless otherwise noted.
 ** All Phases to be balanced to within 10% using Actual Load Totals.

Breaker Options:
 AS Powerlink AS Breaker
 LO Handle lock-on device
 HT Handle Tie
 AUX Auxiliary Contacts
 PA Handle Padlock Attachment
 GFCI Ground Fault Circuit Interrupter
 HACR Heating, A/C & Refrigeration
 SF Subfeed
 AFC Arc Fault Circuit Interrupter

Connected Load: 175.4 amps
NEC Demand Feeder Load: 186.6 amps

Panel Wiring Schedule (3-Phase)

Ckt No.	Zone	Load Description	Brkr. Size	Brkr. Opts.	N.E.C. kVA	Phase	N.E.C. kVA	Brkr. Size	Brkr. Opts.	Load Description	Zone	Ckt. No.
1	N	LTG - 2C PERM FLUORESCENTS	3.021	A	0.813	-	-	-	-	NON SALES EMNLEXIT	E	2
3	N	SALES EMNLEXIT	1.200	B	1.110	-	-	-	-	LTG 2C - B.O.H. LIGHTING	E	4
5	N	SPARE	0.000	C	0.000	-	-	-	-	SPARE	E	6
7	N	SPARE	0.000	A	0.000	-	-	-	-	SPARE	E	8
9	E	SPARE	0.000	B	0.000	-	-	-	-	SPARE	E	10
11	E	SPARE	0.000	C	0.000	-	-	-	-	SPARE	E	12
13	E	SPARE	0.000	A	0.000	-	-	-	-	SPARE	E	14
15	E	SPARE	0.000	B	0.000	-	-	-	-	SPARE	E	16
17	E	SPARE	0.000	C	0.000	-	-	-	-	SPARE	E	18
19	E	SPARE	0.000	A	0.000	-	-	-	-	SPARE	E	20
21	E	SPARE	0.000	B	0.000	-	-	-	-	SPARE	E	22
23	E	SPARE	0.000	C	0.000	-	-	-	-	SPARE	E	24
25	E	SPARE	0.000	A	0.000	-	-	-	-	SPARE	E	26
27	E	SPARE	0.000	B	0.000	-	-	-	-	SPARE	E	28
29	E	SPARE	0.000	C	0.000	-	-	-	-	SPARE	E	30

Notes
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 HACR Heating, A/C & Refrigeration
 SF Subfeed
 AFC Arc Fault Circuit Interrupter

Connected Load: 7.4 amps
NEC Demand Feeder Load: 9.2 amps

Order Plans

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 1 BUCKHEAD LOOP NE
 ATLANTA, GA 30326

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 PROTOTYPE DATE: 08/31/17
 OPENING: 2018

CONSULTANT INFO:

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REVISIONS:

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 PANEL SCHEDULES

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