ELECTRICAL SERVICE LOAD SUMMARY

120/208V 3 PH - 4W

LOAD DESCRIPTION	CONNECTED LOAD (WATTS)	DEMAND FACTOR	DEMAND LOAD (WATTS)	DEMAND LOAD (AMPS)
LIGHTING	8314	1.25	10393	29
RECEPTACLES	18000.0	NOTE # 1	14020	39
MECHANICAL	29176.0	NOTE #2	29176	81
SIGN LIGHTING	1200.0	1.25	1500	4
WATER HEATERS	12000.0	1.25	15875	47
TOTAL	70230	----	71964	200

NOTES:

1. 100% OF FIRST 10,000 WATTS , PLUS 50% OF REMAINING LOAD.
2. 100% OF LARGER A/C LOAD (COOLING VS HEATING), PLUS 25% OF HIGHEST LOAD.
3. PIECES OF EQUIPMENT:1-2 = 100%, 3 = 90%, 4 = 80%, 5 = 70%, 6 AND MORE = 65%.

CONTRACTOR TO COORDINATE ALL LIGHTING /DIMMING CONTROLS AND LIGHTING SPECIFICATIONS WITH CONTROL VENDOR PRIOR TO ORDERING TO ENSURE CORRECT COMPONENTS ARE PROVIDED FOR DIMMING AND CONTROL CAPABILITY.

NEW PANEL A

Service: 120/208 Volts 3 Phase 4 Wire Cabinets: Surface Mounted

Mains: 400 Amp 300 A MCB Total Watts: 70,230 NEMA 1

REM	CKT	DESCRIPTION	WATTS	WIRE	BKR	A	B	C	BKR	WIRE	DESCRIPTION	WATTS	CKT	REM
C1	1	DAYLIGHT ZONE 1	288	12	1/20				1/20	12	SHOW WINDOW RECS.	360	2	TC
C1	3	DAYLIGHT ZONE 2	240	12	1/20				1/20	12	GENERAL RECEPTS	720	4	
C2	5	ACCENT LTG	162	12	1/20				1/20	12	GENERAL RECEPTS	540	6	
C2	7	DECOR LTG	200	12	1/20				1/20	12	SHOW WINDOW RECS.	360	8	TC
	9	GENERAL SALES LTG	314	12	1/20				1/20	12	MANAGERS DESK	360	10	DED
	11	GENERAL SALES LTG	370	12	1/20				1/20	12	MANAGERS DESK	720	12	
C2	13	SALES TRACK LTG	1080	12	1/20				1/20	12	SHOW WINDOW RECS.	360	14	TC
C2	15	SALES TRACK LTG	480	12	1/20				1/20	12	POS	360	16	
C2	17	SALES TRACK LTG	960	12	1/20				1/20	12	RR WATER HEATER	12000	18	LD
	19	SALES AREA FANS	400	12	1/20				2/40	8	EX AHU-1	3075	20	HR
C2	21	SALES TRACK LTG	960	12	1/20							3075	22	
	23	B.O.H./ HALL / RR LTG	620	12	1/20				1/20	12	RE-CIRCULATION PUMP	180	24	
TC	25	EXTERIOR LIGHT	100	12	1/20				2/40	8	EX AHU-2	3075	26	HR
TC	27	S/F TRACK LTG	600	12	1/20							3075	28	
LD	29	FIRE ALARM PANEL	700	12	1/20				2/60	4	EX CU-1	4500	30	HR
TC	31	S/F SIGN	1200	12	1/20							4500	32	
	33	REF-02	500	12	1/20				2/50	6	EX CU-2	3040	34	HR
C1	35	WALL FIXTURE	400	12	1/20							3040	36	
C1	37	WALL FIXTURE	1000	12	1/20				1/20	12	POS	360	38	
LD	39	WATER HEATER	6000	3	2/80				1/20	12	KG-01		40	
	41		6000						1/20		DC-01		42	
	43	DISHWASHER	500	12	1/20				1/20	12	[illegible] RECEPTACLES	1200	44	
	45	REFRIDGERATOR	500	12	1/20				1/20	12	[illegible] T.V. RECEPTACLES	540	46	
	47	IT RECEPTACLE	500	12	1/20				1/20	12	KITCHEN RECEPTACLES	540	48	
	49	REF-01	500	12	1/20				1/20	12	POS	360	50	
	51	ICE MACHINE	500	12	1/20				1/20	12	UR-01 FRIDGE	500	52	
	53	MICROWAVE	1200		1/20				1/20	12	LR-01 FRIDGE	500	54	
	55	DUCT DETECTOR	360	12	1/20				1/20	12	POS	360	56	
	57	HVAC G.F.I. RECEPTACLE		12	1/20						SPARE		58	
	59	GFI RECEPTACLES		12					1/20		SPARE		60	
	61	GENERAL RECEPTS		12					1/20		SPARE		62	
	63	SPARE			1/20				1/20		SPARE		64	
	65	SPARE			1/20				1/20		SPARE		66	
	67	EMERGENCY LIGHTING	200		1/20				1/20		SPARE		68	
	69	SPARE			1/20				1/20		SPARE		70	
	71	SPARE			1/20				1/20		SPARE		72	
	73	SPARE			1/20				1/20		SPARE		74	
	75	SPARE			1/20				1/20		SPARE		76	
	77	SPARE			1/20				1/20		SPARE		78	
	79	SPARE			1/20				1/20		SPARE		80	
	81	SPARE			1/20				1/20		SPARE		82	
	83	SPARE			1/20				1/20		SPARE		84	

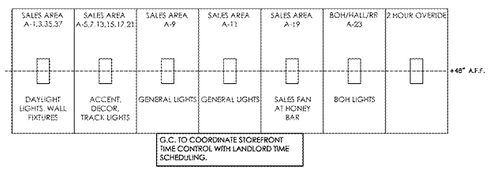
REMARKS
(E) EXISTING TIME CLOCK TO REMAIN - NO WORK
(T) TIME CLOCK CONTROLLED
(LD) LOCK DOWN DEVICE
(LO) LOCK OFF DEVICE
(DED) DEDICATED GROUND
(HR) HACR RATED CB
ALL BREAKERS TO BE 20A BOLT-ON UNLESS NOTED OTHERWISE

TOTAL LOAD PHASE 'A' 20756
TOTAL LOAD PHASE 'B' 24574
TOTAL LOAD PHASE 'C' 24900

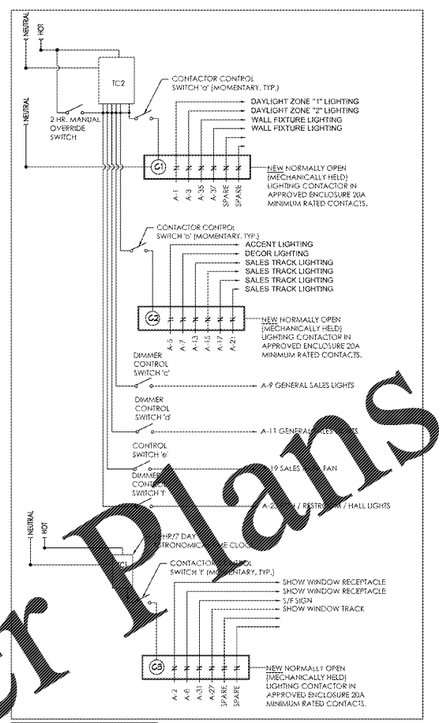
TOTAL LOAD ALL PHASES 70230 WATTS
195.08 AMPS

ELECTRICAL PANELS

SCALE: N.T.S.



G.C. TO COORDINATE STOREFRONT TIME CONTROL WITH LANDLORD TIME SCHEDULING.



G.C. TO COORDINATE STOREFRONT TIME CONTROL WITH LANDLORD TIME SCHEDULING.

NOTE:
EMERGENCY, EXIT, AND NIGHT LIGHTING SHALL NOT RUN THRU BUILDING SHUTOFF.

BUILDING SHUT OFF & MASTER BANK DETAIL

SCALE: N.T.S.

120/208V 4 WIRE ELECTRIC SERVICE

DIAGRAM BASED ON INFORMATION AVAILABLE AT TIME OF DESIGN. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO ROUGH IN.

ELECTRICIAN MUST FIELD VERIFY AND REPORT ANY DISCREPANCIES TO ARCHITECT-G.C. TO BALANCE ALL PHASES TO WITHIN 10% IN FIELD.

G.C. IS RESPONSIBLE FOR COORDINATION OF MEP SYSTEMS AND TO INFORM CLIENT/ARCHITECT/ENGINEER REGARDING ANY CONFLICT IN FIELD

T.G.C. SHALL REUSE EXISTING ELECTRICAL SERVICE AND OR EQUIPMENT IF IT MEETS OR EXCEEDS THE LOADS SHOWN. SIZES SHOWN ARE MINIMUM REQUIRED BASED ON TENANTS LOADS.VERIFY EXACT SIZE AND LOCATIONS IN FIELD. NOTIFY THE FIELD REPRESENTATIVE AND ENGINEER IF EXISTING ELECTRICAL DOES NOT MEET THE REQUIRED AS SHOWN.

T.G.C. SHALL COORDINATE METER REQUIREMENTS & COST WITH L.L. & LOCAL UTILITY PRIOR TO BID.

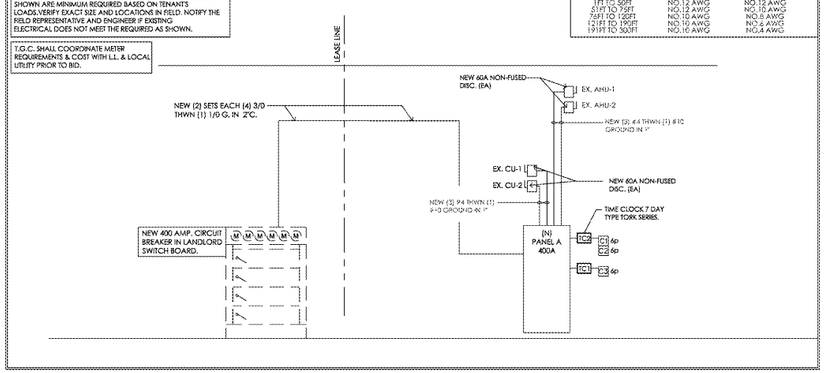
T.G.C. SHALL REUSE EXISTING ELECTRICAL SERVICE IF IT MEETS OR EXCEEDS THE LOADS SHOWN. SIZES SHOWN ARE MINIMUM REQUIRED BASED ON TENANT'S LOADS. VERIFY EXACT SIZE AND LOCATIONS IN FIELD. NOTIFY THE FIELD REPRESENTATIVE AND ENGINEER IF EXISTING ELECTRICAL DOES NOT MEET THE REQUIRED AS SHOWN.

-%5 TIMECLOCK SHALL CONTROL THE FOLLOWING:
-STOREFRONT SIGNAGE
-SHOW WINDOW LIGHTING
-SHOW WINDOW RECEPTACLES
-ENTRY LIGHTING

TENANT'S GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL COPPER CONDUCTORS.

HOMERUNS AND BRANCH WIRING FOR 20 AMP CIRCUITS SHALL BE AS FOLLOWS:

LENGTH	CIRCUIT WIRE SIZE	HOMERUN WIRE SIZE
1FT TO 50FT	NO.12 AWG	NO.12 AWG
51FT TO 75FT	NO.12 AWG	NO.10 AWG
76FT TO 120FT	NO.10 AWG	NO.8 AWG
121FT TO 190FT	NO.10 AWG	NO.6 AWG
191FT TO 300FT	NO.10 AWG	NO.4 AWG



RISER DIAGRAM

SCALE: N.T.S.

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NO.	BY	DATE	DESCRIPTION
	MS	04/19/17	ISSUED FOR PERMIT
	MS	03/24/17	ISSUED FOR LL REVIEW

SAVANNAH BEE ATLANTA

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ATLANTA, GA 30318

PANEL / RISER PLAN

DRAWN BY: Author
REVIEWED BY Checker
JOB NO 16201.00

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