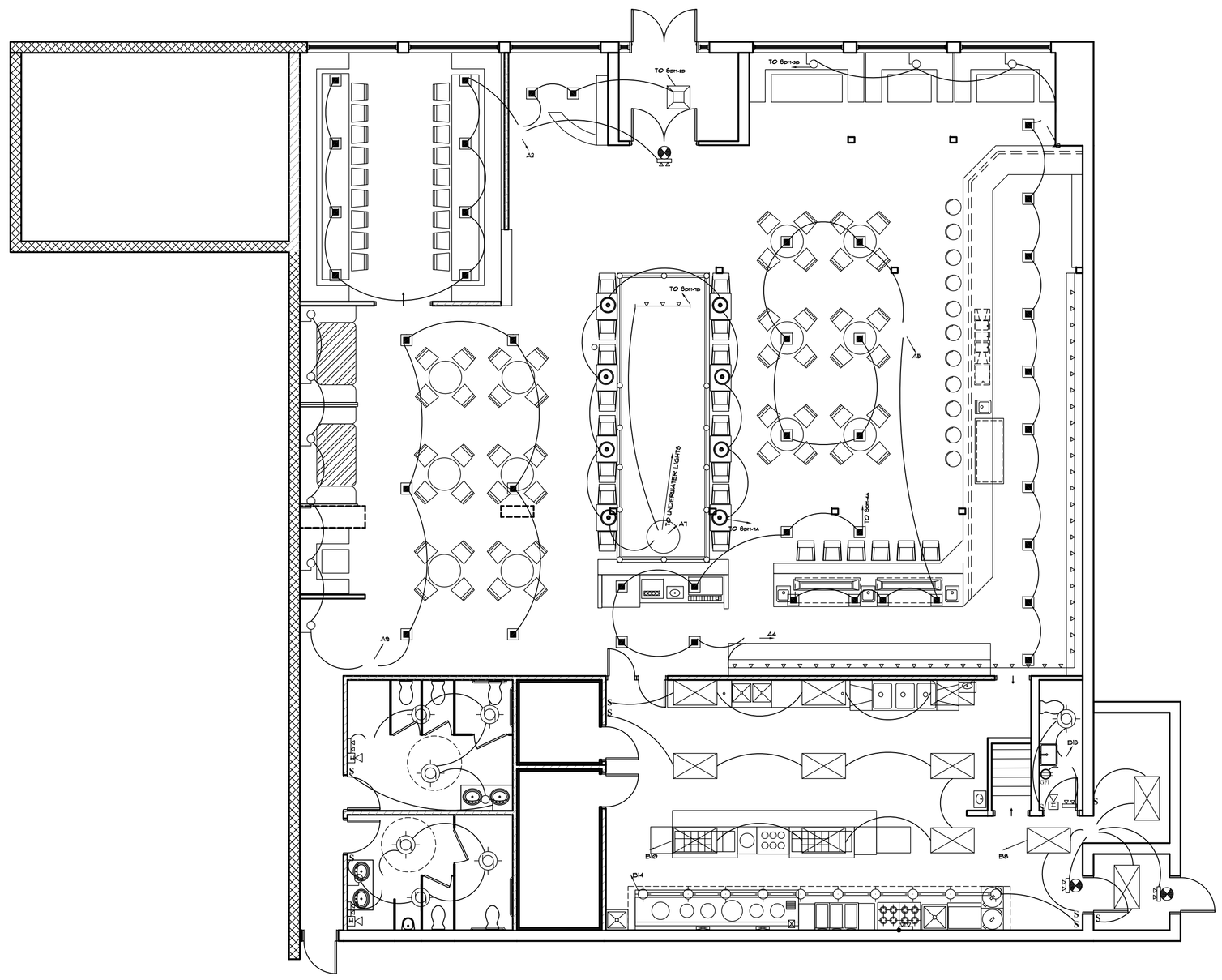
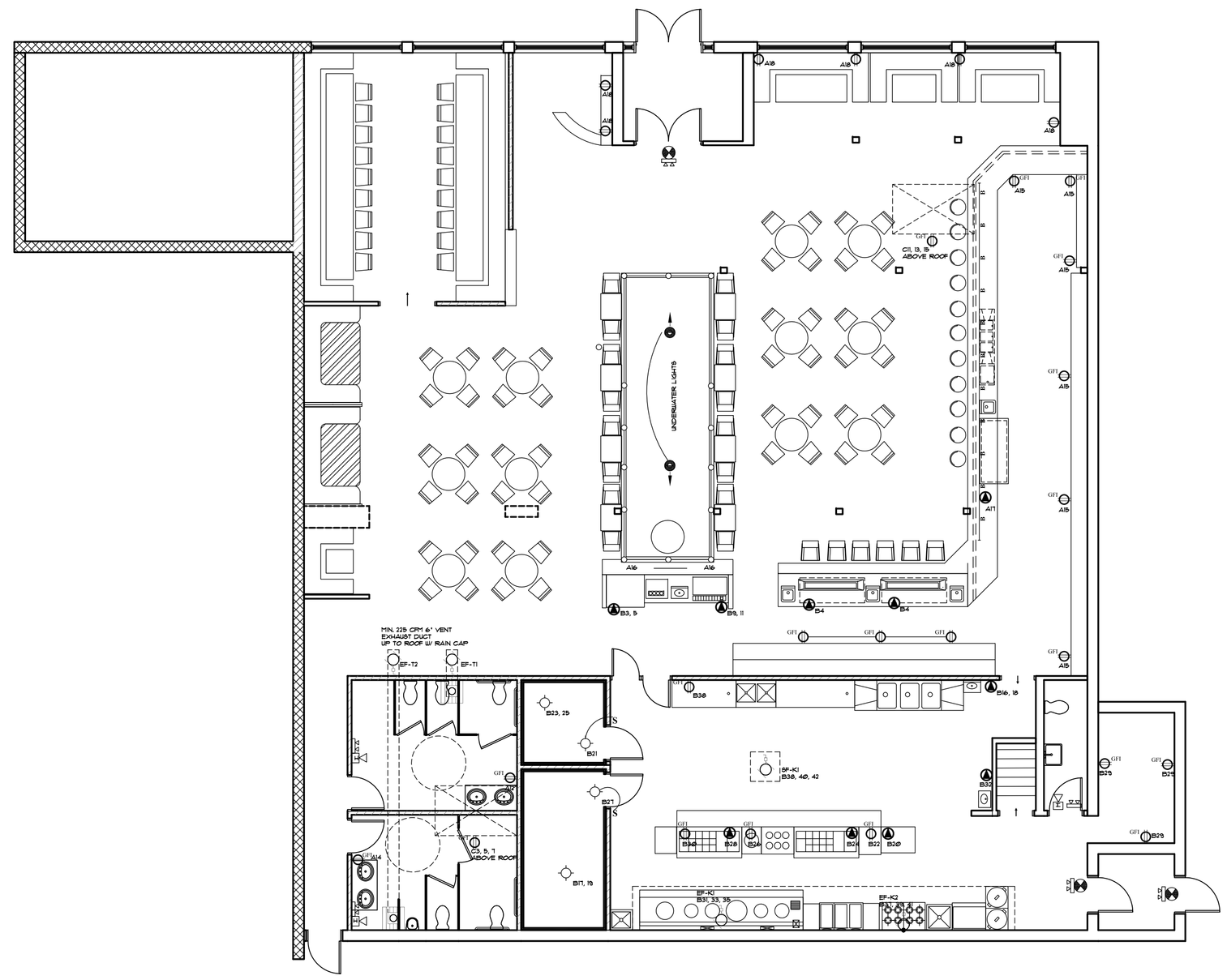


CEILING - ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"



ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

LEGEND

- S — SWITCH
- 6DM — DIMMER
- 4' 1-LAMP FLOURESCENT IN SOFFIT ABOVE CANOPY, RAPID START W/ 12"x12" SPECULAR SILVER PARABOLIC LENS LITHONIA "C-140 140 SI PROVIDE LENS TO MATCH OPENING.
- 4' 1-LAMP FLOURESCENT IN SOFFIT UNDER BAR COUNTER, RAPID START W/ 12"x12" SPECULAR SILVER PARABOLIC LENS LITHONIA "C-140 140 SI PROVIDE LENS TO MATCH OPENING.
- 2' 1-LAMP FLOURESCENT IN SOFFIT UNDER BAR COUNTER, RAPID START W/ 12"x12" SPECULAR SILVER PARABOLIC LENS LITHONIA "C-140 140 SI PROVIDE LENS TO MATCH OPENING.
- PENDENT LIGHT (75 WATT EACH)
- PENDENT LIGHT W/ LANTERN (75 WATT EACH)
- PENDENT LIGHT W/ LAMPSHADE (100 WATT EACH)
- GROUND MOUNTED ADJUSTABLE WEATHER PROOF FLOOD LIGHT W/ 150 PAR 38 HALOGEN FLOOD LAMP
- TRACK LIGHT (3ø @ 75 WATT EACH)
- DISCONNECT SWITCH
- 75 WATT LIGHT BULB
- POWER OUTLET
- DUPLEX CONVENIENCE OUTLET
- GFI — DUPLEX CONVENIENCE OUTLET W/ GROUND FAULT INTERRUPTER
- 2'x4' RECESSED 4-TUBE FLOURESCENT
- RECESSED CHANDELIER (100 WATT EACH)
- WALL LIGHT (75 WATT EACH)
- JUNCTION BOX
- MOTOR AND DISCONNECT SWITCH
- BATHROOM EXHAUST FAN VENT TO ROOF WITH RAIN CAP
- COMBINATION FAN/LIGHT UNIT 1-100W LAMP, 80 CFM EXHAUST TO WALL OR ROOF MTD CEILING RECESSED.

ELECTRICAL NOTES & REQUIREMENTS

1. ALL WIREING TO COMPLY WITH N.E.C. 1999.
2. MINIMUM CIRCUIT TO BE 20 AMP. BREAKER, (2) #12 IN 3/4" CONDUIT (+GND) UNLESS SHOWN OTHERWISE.
3. WIRE SIZES BASED ON THW COPPER, A.W.G.
4. PROVIDE DISCONNECTION MEANS AT ALL MOTOR LOADS.
5. VERIFY ALL REQUIREMENTS FOR KITCHEN EQUIPMENT WITH EQUIPMENT SUPPLIER.
6. MAKE ALL FINAL CONNECTIONS.
7. MOUNT ALL ELECTRICAL DEVICES AND SWITCHES AS REQUIRED BY THE ADA AND LOCAL STATE BARRIER FREE RULES.
8. FUSE ALL MOTORS AND MOTOR ASSEMBLIES IN A ACCORDANCE WITH THE N.E.C. 1990 AND MANUFACTURER'S RECOMMENATIONS.
9. BALANCE THE LOADS EVENLY BETWEEN THE PHASES OF THE SYSTEM. MINIMUM UNBALANCE OF 3%.
10. MAINTAIN A MAXIMUM VOLTAGE DROP OF 5% THROUGHOUT THE ENTIRE SYSTEM.
11. COORDINATE ALL WORK WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING TRADES IN FIELD.
12. VERIFY ALL EXISTING JOB CONDITIONS AND ACCOMMODATE AS REQUIRED FOR A COMPLETE INSTALLATION.
13. ELECTRICAL PANEL SHALL BE INCLOSED INTO THE WALL.

PANEL "A" 200 AMP. 120/208V 3Φ 4W

VA	TRIP POLE	WIRE	DESCRIPTION	CK	CK	DESCRIPTION	WIRE	TRIP POLE	VA
840	20/1	12	BAR AREA CEILING LIGHTING	1	2	BAR / VESTIBULE AREA LIGHTING	12	20/1	1030
1200	20/1	12	LOUNGE AREA LIGHTING	3	4	SUSHI AREA / WAITER AREA LIGHTING	12	20/1	1050
525	20/1	12	DINING AREA LIGHTING	5	6				
900	20/1	12	DINING AREA LIGHTING	7	8				
900	20/1	12	DINING AREA LIGHTING	9	10				
1500	20/1	12	FRONT SIGN OUTLET	11	12	WOMEN'S ROOM LIGHT & FAN GIF REC.	12	20/1	1500
1500	20/1	12	NEON SIGN OUTLET	13	14	MEN'S ROOM LIGHT & FAN, GIF REC.	12	20/1	1500
1000	20/1	12	BAR AREA REC.	15	16	POOL SIDE BUDDA LIGHT REC.	12	20/1	1500
1000	20/1	12	LOW BOY (UNDER BAR COUNTER)	17	18	LOUNGE AREA REC.	12	20/1	1000
1000	20/1	12	CASHIER OUTLET	19	20				
				21	22				
				23	24				
				25	26				
				27	28				
				29	30				
				31	32				
				33	34				
				35	36				
				37	38				
				39	40				
				41	42				
24,065	TOTAL LOAD = 48,770 W = 135.38 A @ 208V/ 3Ø 4W								24,705

PANEL "B" 200 AMP. 120/208V 3Φ 4W

VA	TRIP POLE	WIRE	DESCRIPTION	CK	CK	DESCRIPTION	WIRE	TRIP POLE	VA
1000	20/1	12	REC. IN WAITER STATION	1	2	SUSHI AREA REC.	12	20/1	1000
3170	30/2	10	ICE MAKER	3	4	LOW BOY (UNDER SUSHI CASE)	12	20/1	1000
				5	6	LOW BOY (UNDER SUSHI CASE)	12	20/1	1000
1000	20/1	12	SODA DISP.	7	8	KITCHEN LIGHTING	12	20/1	320
5300	40/2	8	COFFEE AND TEA URN	9	10	KITCHEN LIGHTING	12	20/1	960
				11	12	KITCHEN LIGHTING	12	20/1	875
1000	20/1	12	CREW'S ROOM LIGHT @ FAN, GIF REC.	13	14	KITCHEN HOOD LIGHT	12	20/1	1000
				15	16	DISHWASHER	10	30/2	3170
2770	30/2	10	WALK-IN COOLER ACCU	17	18				
				19	20	REFRIGERATOR	12	20/1	1000
500	20/1	12	COOLER LIGHTING / HEATERS	21	22	WORK TABLE OUTLET	12	20/1	1000
2770	30/2	10	WALK-IN FREEZER ACCU	23	24	BAIN MARIE	12	20/1	1200
				25	26	RICE WARMER	12	20/1	1000
500	20/1	12	FREEZER LIGHTING / HEATERS	27	28	BAIN MARIE	12	20/1	1200
1000	20/1	12	DTORAGE AREA REC.	29	30	WORK TABLE OUTLET	12	20/1	1000
				31	32	LOW BOY (UNDER SUSHI CASE)	12	20/1	1000
2500	30/3	10	EXHAUST FAN (EF-K1)	33	34	KITCHEN AREA REC.	12	20/1	1000
				35	36	KITECHEN AREA REC	12	20/1	1000
				37	38				
2500	30/3	10	EXHAUST FAN (EF-K2)	39	40	MAKE-UP FAN (SF-K1)	10	30/3	5000
				41	42				
24,010	TOTAL LOAD = 47,735 W = 132.50 A @ 208V/ 3Ø 4W								23,725

PANEL "C" 200 AMP. 120/208V 3Φ 4W

VA	TRIP POLE	WIRE	DESCRIPTION	CK	CK	DESCRIPTION	WIRE	TRIP POLE	VA
1000	20/1	12	HVAC RTU GFI REC.	1	2	HVAC RTU GFI REC.	12	20/1	1000
				3	4				
19600	85/3	4	EXT'G HVAC-1 (10 TONS)	5	6	EXT'G HVAC-2 (10 TONS)	4	65/3	19600
				7	8				
1000	20/1	12	HVAC RTU GFI REC	9	10	SPARE	---	---	---
				11	12	SPARE	---	---	---
19600	85/3	4	EXT'G HVAC-3 (10 TONS)	13	14	SPARE	---	---	---
				15	16	SPARE	---	---	---
----	----	---	SPARE	17	18	SPARE	---	---	---
----	----	---	SPARE	19	20	SPARE	---	---	---
----	----	---	SPARE	21	22	SPARE	---	---	---
----	----	---	SPARE	23	24	SPARE	---	---	---
----	----	---	SPARE	25	26	SPARE	---	---	---
----	----	---	SPARE	27	28	SPARE	---	---	---
----	----	---	SPARE	29	30	SPARE	---	---	---
----	----	---	SPARE	31	32	SPARE	---	---	---
----	----	---	SPARE	33	34	SPARE	---	---	---
----	----	---	SPARE	35	36	SPARE	---	---	---
----	----	---	SPARE	37	38	SPARE	---	---	---
----	----	---	SPARE	39	40	SPARE	---	---	---
----	----	---	SPARE	41	42	SPARE	---	---	---
41,200	TOTAL LOAD = 61,800 W = 171.54 A @ 208V/ 3Ø 4W								20,600

CONDUCTOR AMPACITY
NEC - TABLE 310-16

SIZE	ALLOWABLE AMPACITY OF INSULATED COPPER CONDUCTOR
AWG MCM	THW
18	
16	
14	15
12	20
10	30
8	45
6	65
4	85
3	100
2	115
1	130
0	150

STATE OF MAINE
LAWRENCE FISCHER
No. 8770
4/4/08
LICENSED PROFESSIONAL ENGINEER
CIVIL | STRUCT

DATE: 03/25/08

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ELECTRICAL PLAN

DWG. NO. ME080206J
A4
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