



BR+A  
 300 West Summit  
 Office Bldg

300 West Summit Ave.  
 Suite #310  
 Charlotte, NC 28203

PROJECT NUMBER: 19-018  
 CONSTRUCTION ISSUE: 6.20.2019  
 PERMIT COMMENTS: 05.24.2019  
 CLIENT CLARIFICATIONS: 07.03.2019

RISER DIAGRAM  
 SCALE: AS NOTED

**E0.4**

NEW PANEL SECTION 1 PANEL 1B10											
VOLTAGE:		277/480		SECTION 1		AMP:		200		MLO	
PHASE:		3		MAIN:		MLO		MLO		MLO	
DESCRIPTION	KW	BKR	CK	PH	CK	BKR	KW	DESCRIPTION	KW	BKR	CK
RTU-1	12.14	48/3	7	A	2	190/3	13.91	PANEL 1B10			
	12.14		3	B	4		13.76				
	12.14		6	C	6		11.08				
RTU-2	12.75	60/3	7	A	8	36/3	8.62	RTU-3			
	12.75		9	B	10		8.62				
	12.75		11	C	12		8.62				
WH-A	8.31	30/1	13	A	14	20/3	0	EMON-METER			
SPARE	0	20/1	15	B	16		0				
SPARE	0	20/1	17	C	18		0				
SPARE	0	20/1	19	A	20	20/1	0	SPARE			
SPARE	0	20/1	21	B	22	20/1	0	SPARE			
SPARE	0	20/1	23	C	24	20/1	0	SPARE			
SPARE	0	20/1	25	A	26	20/1	0	SPARE			
SPARE	0	20/1	27	B	28	20/1	0	SPARE			
SPARE	0	20/1	29	C	30	20/1	0	SPARE			
A TOTAL		55.73		VLL [PH]		23.70		RECEPTACLES			
B TOTAL		48.78		480 3		0.00		HEATING			
C TOTAL		44.59				104.64		AC/MOTORS			
CONN. kW		149.10				2.95		LIGHTING			
CONN. Amps		179.34				9.50		MISC.			
						8.31		WATER HEATERS			
						0.00		ELEVATORS			
						0.00		KITCHEN EQUIP			

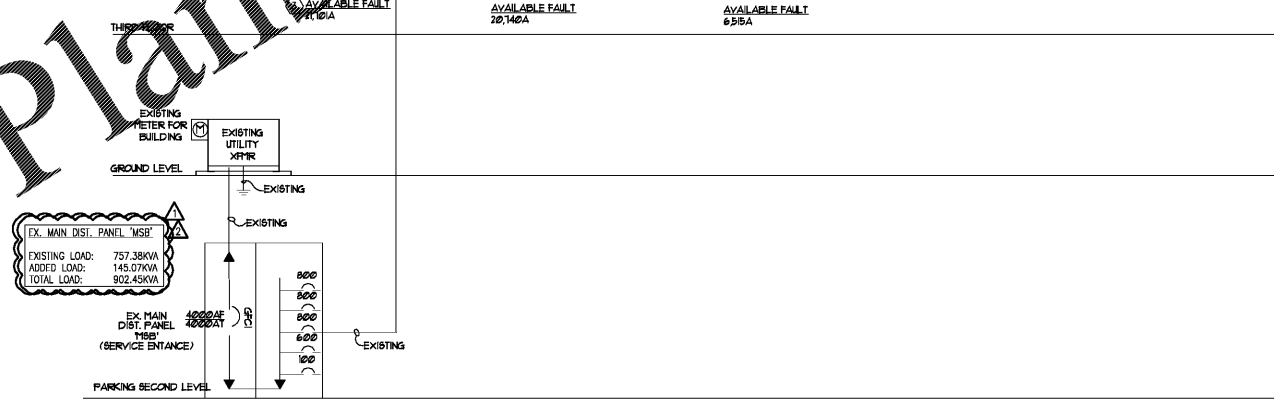
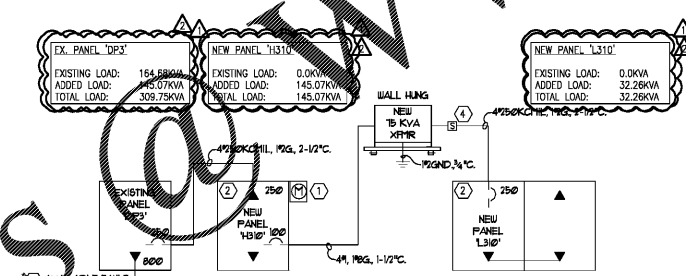
**TOTAL DEMAND LOAD**

RECEPTS: 100% 1ST 10 KW + 50% REMAINING: = 16.85 KVA  
 HEAT: 100% : = 0 KVA  
 AC/MOTORS: 125% LARGEST + 100% REMAINING: = 104.64 KVA  
 LIGHTING: 125% : = 3.6875 KVA  
 MISC: 100% : = 9.5 KVA  
 WATER HEATER: 125% : = 10.3875 KVA  
 ELEVATORS: PER NEC: = 0 KVA  
 KITCHEN EQUIP: PER NEC : = 0 KVA  
 TOTAL DEMAND LOAD KW: = 145.065 KVA  
 TOTAL DEMAND LOAD AMPS: = 174.49 AMP

NEW PANEL SECTION 1 PANEL 1B10											
VOLTAGE:		120/208		SECTION 1		AMP:		200		MCB	
PHASE:		3		MAIN:		MCB		MCB		MCB	
DESCRIPTION	KW	BKR	CK	PH	CK	BKR	KW	DESCRIPTION	KW	BKR	CK
MOD. FURN.	0.54	20/3	7	A	2	20/1	11.54	RECEPTION REC.			
	0.54		9	B	4	20/1	11.54	OFFICE 310,311 REC.			
	0.54		6	C	6	20/1	11.54				
MOD. FURN.	0.9	20/3	7	A	8	20/1	0.3	COPY REC.			
	0.9		9	B	10	20/1	0.3	COPY REC.			
	0.9		11	C	12	20/1	0.3	COPY REC.			
MOD. FURN.	1.08	20/3	7	A	14	20/1	1.1	CONF RM 303 REC.			
	1.08		15	B	16	20/1	1.1	CONF RM 303 REC.			
	1.08		17	C	18	20/1	1.1	CONF RM 303 REC.			
MOD. FURN.	1.08	20/3	7	A	20	20/1	0.72	INP CONF RM REC.			
	1.08		21	B	22	20/1	0.9	BREAKROOM REC.			
	1.08		23	C	24	20/1	0.4	BRKRM-ICE REC.*			
MOD. FURN.	0.54	20/3	7	A	26	20/1	0.5	BRKRM-ICE REC.			
	0.54		27	B	28	20/1	0.36	BRKRM-GEN. REC.			
	0.54		29	C	30	20/1	1.42	DISPOSAL			
BRKRM COFFEE REC.	0.4	20/1	31	A	32	20/1	1.98	IT ROOM REC.			
	0.4		33	B	34	20/1	1.5	WELLNESS RM REC.			
	0.4		35	C	36	20/1	1.5	IT ROOM REC.			
	0.4		37	A	38	20/1	0.36	TELEPHONE BACKBOARD			
	0.4		39	B	40	20/1	0.4	WELLNESS RM REC.			
	0.4		41	C	42	20/1	0.3	WHITE NOISE			
A TOTAL		10.78		VLL [PH]		19.02		RECEPTACLES			
B TOTAL		11.56		208 3		0.00		HEATING			
C TOTAL		10.08				3.98		AC/MOTORS			
SECTION 2 TOTAL kW		6.33				1.44		LIGHTING			
CONN. kW		38.75				8.00		MISC.			
CONN. Amps		107.56				0.00		WATER HEATERS			
						0.00		ELEVATORS			
						0.00		KITCHEN EQUIP			

**TOTAL DEMAND LOAD**

RECEPTS: 100% 1ST 10 KW + 50% REMAINING: = 16.85 KVA  
 HEAT: 100% : = 0 KVA  
 AC/MOTORS: 125% LARGEST + 100% REMAINING: = 4.11 KVA  
 LIGHTING: 125% : = 1.8 KVA  
 MISC: 100% : = 9.5 KVA  
 WATER HEATER: 125% : = 0 KVA  
 ELEVATORS: PER NEC: = 0 KVA  
 KITCHEN EQUIP: PER NEC : = 0 KVA  
 TOTAL DEMAND LOAD KW: = 32.26 KVA  
 TOTAL DEMAND LOAD AMPS: = 89.55 AMP



**1 RISER DIAGRAM - ELECTRICAL**  
 NO SCALE

LEGEND NOTES:  
 (APPLY TO THIS SHEET ONLY)

① PROVIDE EMON-DMON OR EQUAL DEMAND METER. COORDINATE EXACT REQUIREMENTS WITH BUILDING MANAGEMENT.  
 ② CONTRACTOR TO PROVIDE ADDITIONAL LABEL ON PANEL TO INDICATE THE PANEL TO ONLY SERVE TENANT IN SUITE 310.  
 ③ EXISTING AVAILABLE FAULT CURRENT PROVIDED BY CORE AND SHELL.  
 ④ PROVIDE 250A ENCLOSED CIRCUIT BREAKER.

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