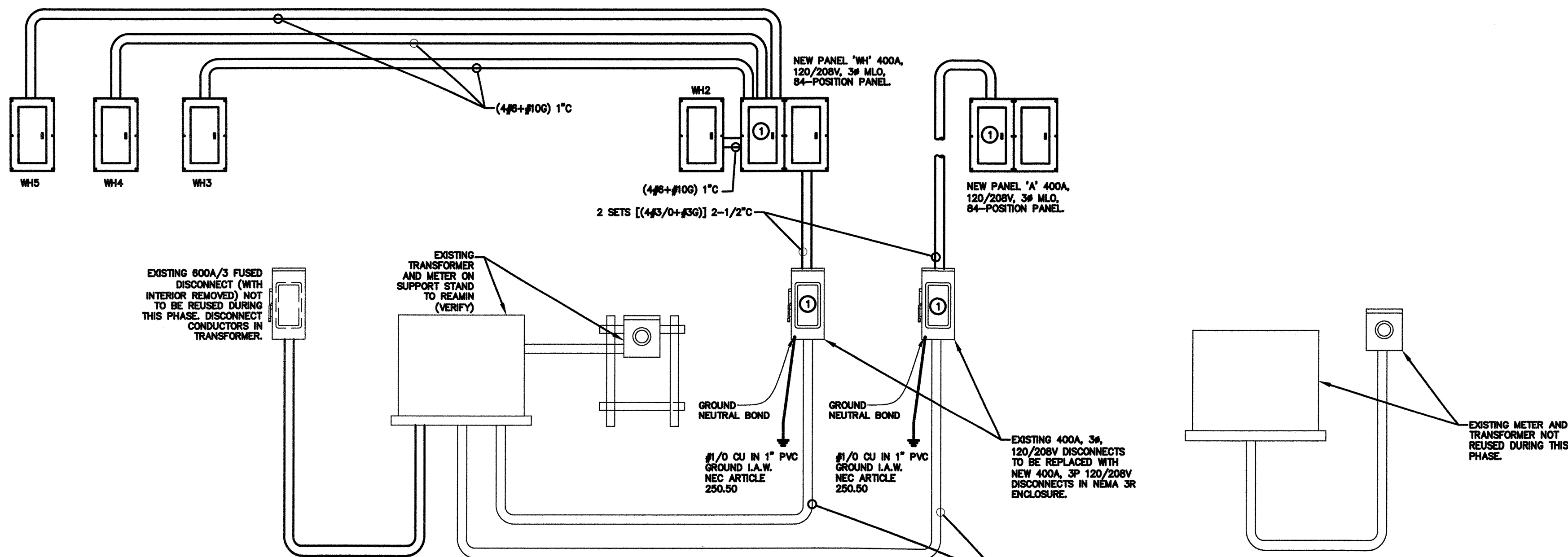


TAG: A		SECTION 1		Existing Hallway						ENTRY: TOP		AIC: 10,000	
MAINS: 400A		MLO								FEED THRU LUGS: NONE		SPD: NO	
SERVICE: 208/120V,3PH,4W													
CKT	C/B	LOAD		kVA	A PHASE	B PHASE	C PHASE	kVA	LOAD		C/B	CKT	
1	20/1	R - Accounting		0.5	1.3			0.7	R - New Office		20/1	2	
3	20/1	R - Accounting		0.5		1.1		0.5	R - New Office		20/1	4	
5	20/1	R - Accounting		0.7			2.2	1.5	R - New Break Room Counter		20/1	6	
7	20/1	R - Existing Restrooms (warehouse)		0.4	1.9			1.5	R - New Break Room Counter		20/1	8	
9	20/1	R - Existing Closet		0.2		1.2		1.0	R - Dishwasher		20/1	10	
11	20/1	R - Existing Storage		0.7			1.7	1.0	R - Refrigerator		20/1	12	
13	20/1	R - Existing Storage		0.4	0.7			0.4	R - New Break Room		20/1	14	
15	20/1	R - Existing Storage		0.5		1.6		1.1	R - Existing Office (2nd Floor)		20/1	16	
17	20/1	R - Existing File Storage		0.4			1.4	1.1	R - Existing Office (2nd Floor)		20/1	18	
19	20/1	R - Existing Restrooms (office)		0.5	1.6			1.1	R - Existing Office (2nd Floor)		20/1	20	
21	20/1	R - Existing Conference Room		0.9		1.1		0.2	R - Restroom (2nd Floor)		20/1	22	
23	20/1	R - Existing Files		0.7			1.6	0.9	R - Existing Files (2nd Floor)		20/1	24	
25	20/1	R - HR New Office		0.9	1.3			0.4	R - Existing Conf. Room (2nd Floor)		20/1	26	
27	20/1	R - Inventory (Titles)		1.1		1.3		0.2	R - Restroom (2nd Floor)		20/1	28	
29	20/1	R - Team Leads		0.5			1.6	1.1	R - New Conf. Room (2nd Floor)		20/1	30	
31	20/1	R - Controller		0.5	1.6			1.1	R - New Conf. Room (2nd Floor)		20/1	32	
33	20/1	R - New supplies		0.2		0.9		0.7	R - Existing Office (2nd Floor)		20/1	34	
35	20/1	L - Office		1.9			3.0	1.1	R - New Office (2nd Floor)		20/1	36	
37	20/1	L - Office		1.1	1.4			0.3	L - New Break Room/Hall		20/1	38	
39	20/1	Spare				1.0		1.0	R - IT Room		20/1	40	
41	20/1	Spare					1.0	1.0	R - IT Room		20/1	42	
SECTION 1 KVA TOTAL:				12.7	9.8	8.1	12.6	17.7					
SECTION 2 KVA TOTAL:				8.0	27.3	26.1	28.7	74.0					
				20.7	37.0	34.2	41.3	91.7					
CONNECTED KVA TOTAL:				112.5				CONNECTED AMPS TOTAL:		312.21			
DEMAND KVA TOTAL:				102.4				DEMAND AMPS TOTAL:		284.23			

TAG: A		SECTION 2		Existing Hallway					ENTRY: TOP		AIC: 10,000	
MAINS: 400A		MLO									TRIM: FLUSH	
SERVICE: 208/120V,3PH,4W												
CKT	C/B	LOAD	KVA	A PHASE	B PHASE	C PHASE	KVA	LOAD	C/B	CKT		
43	20/1	R - New Break Room Counter	1.5	4.0			2.5	HP-4	40/2	44		
45	20/1	R - New Break Room Counter	1.5		4.0		2.5			46		
47	20/1	R - New Break Room Counter	0.4			2.9	2.5	HP-6	40/2	48		
49	20/1	R - Refrigerator	1.0	3.5			2.5			50		
51	20/1	R - Break Room Closet	0.2		2.7		2.5			52		
53	20/1	R - New Break Room	0.9			3.4	2.5	HP-7	40/2	54		
55	20/1	R - New Break Room	0.9	3.4			2.5			56		
57	20/1	L - Office (Second Floor)	0.7		3.2		2.5	HP-8	40/2	58		
59	20/1	L - Office (Second Floor)	0.8			6.2	5.4			60		
61	20/1	Spare		5.4			5.4	FCU-3	60/2	62		
63	20/1	Spare			5.4		5.4			64		
65	20/1	Spare				5.4	5.4	FCU-4	60/2	66		
67	20/1	Spare		5.4			5.4			68		
69	20/1	Spare			5.4		5.4	FCU-6	60/2	70		
71	20/1	Spare				5.4	5.4			72		
73	20/1	Spare		5.4			5.4	FCU-7	60/2	74		
75	20/1	Spare			5.4		5.4			76		
77	20/1	Spare				5.4	5.4	FCU-8	60/2	78		
79	20/1	R - Rooftop	0.2	0.2				-	-	80		
81	-	-			0.0			-	-	82		
83	-	-				0.0		-	-	84		
SECTION 2 KVA TOTAL:			8.0	27.3	26.1	28.7	74.0					



ELECTRICAL RISER DIAGRAM – MODIFIED UTILITY SERVICE #1
NO SCALE

PROVIDE SERIES COMBINATION RATING BETWEEN MAIN CIRCUIT BREAKER AND DOWNSTREAM DEVICES FOR 100,000 AIC, MINIMUM.

TAG: WH			Existing Elec Room					ENTRY: TBD		AIC: 10,000		
MAINS: 400A MLO								FEED THRU LUGS: NONE		SPD: NO		
SERVICE: 208/120V,3PH,4W								TRIM: SURFACE				
CKT	C/B	LOAD	kVA	A PHASE	B PHASE	C PHASE	kVA	LOAD	C/B	CKT		
1	40/2	HP-1	2.5	5.0			2.5	HP-9	40/2	2		
3			2.5		5.0		2.5				4	
5						5.0	2.5				6	
7			2.5	5.0			2.5				8	
9	40/2	HP-3	2.5		3.4		0.9	R - Exterior	20/1	10		
11			2.5			3.1	0.6	L - Warehouse Area #1	20/1	12		
13	40/2	HP-5	2.5	4.2			1.7	L - Warehouse Area #1	20/1	14		
15			2.5		2.5			Temp. Feeder to Warehouse #5	30/3	16		
17			5.4			5.4					18	
19			5.4	5.4							20	
21	60/2	FCU-5	5.4		10.8		5.4				FCU-9	60/2
23			5.4			10.8	5.4	24				
25	60/3	Temp. Feeder to Warehouse #2		5.4			5.4	FCU-10	60/2	26		
27					5.4		5.4				28	
29							5.4				5.4	30
31				5.4							5.4	FCU-2
33	30/3	Temp. Feeder to Warehouse #3			0.7		0.7	R - Warehouse	20/1	34		
35						0.7	0.7	R - Warehouse	20/1	36		
37	30/3	Temp. Feeder to Warehouse #4		0.0				Space	-	38		
39					0.0				Space	-	40	
41							0.0			Space	-	42
SECTION 1 KVA TOTAL:			41.6	30.4	27.8	30.4	47.0					
SECTION 2 KVA TOTAL:			0.0	0.0	0.0	0.0	0.0					
			41.6	30.4	27.8	30.4	47.0					
CONNECTED KVA TOTAL:			88.6					CONNECTED AMPS TOTAL:	246.04			
DEMAND KVA TOTAL:			88.6					DEMAND AMPS TOTAL:	246.04			

TAG: WH			SECTION 2		Existing Elec Room					ENTRY: TBD		AIC: 10,000	
MAINS: 400A MLO			MLO									TRIM: SURFACE	
SERVICE: 208/120V,3PH,4W													
CKT	C/B	LOAD	KVA	A PHASE	B PHASE	C PHASE	KVA	LOAD	C/B	CKT			
43	20/1	Spare		0.0				Spare	20/1	44			
45	20/1	Spare			0.0			Spare	20/1	46			
47	-	Space				0.0		Space	-	48			
49	-	Space		0.0				Space	-	50			
51	-	Space			0.0			Space	-	52			
53	-	Space				0.0		Space	-	54			
55	-	Space		0.0				Space	-	56			
57	-	Space			0.0			Space	-	58			
59	-	Space				0.0		Space	-	60			
61	-	Space		0.0				Space	-	62			
63	-	Space			0.0			Space	-	64			
65	-	Space				0.0		Space	-	66			
67	-	Space		0.0				Space	-	68			
69	-	Space			0.0			Space	-	70			
71	-	Space				0.0		Space	-	72			
73	-	Space		0.0				Space	-	74			
75	-	Space			0.0			Space	-	76			
77	-	Space				0.0		Space	-	78			
79	-	Space		0.0				Space	-	80			
81	-	Space			0.0			Space	-	82			
83	-	-				0.0		Space	-	84			
SECTION 2 KVA TOTAL:			0.0	0.0	0.0	0.0	0.0						