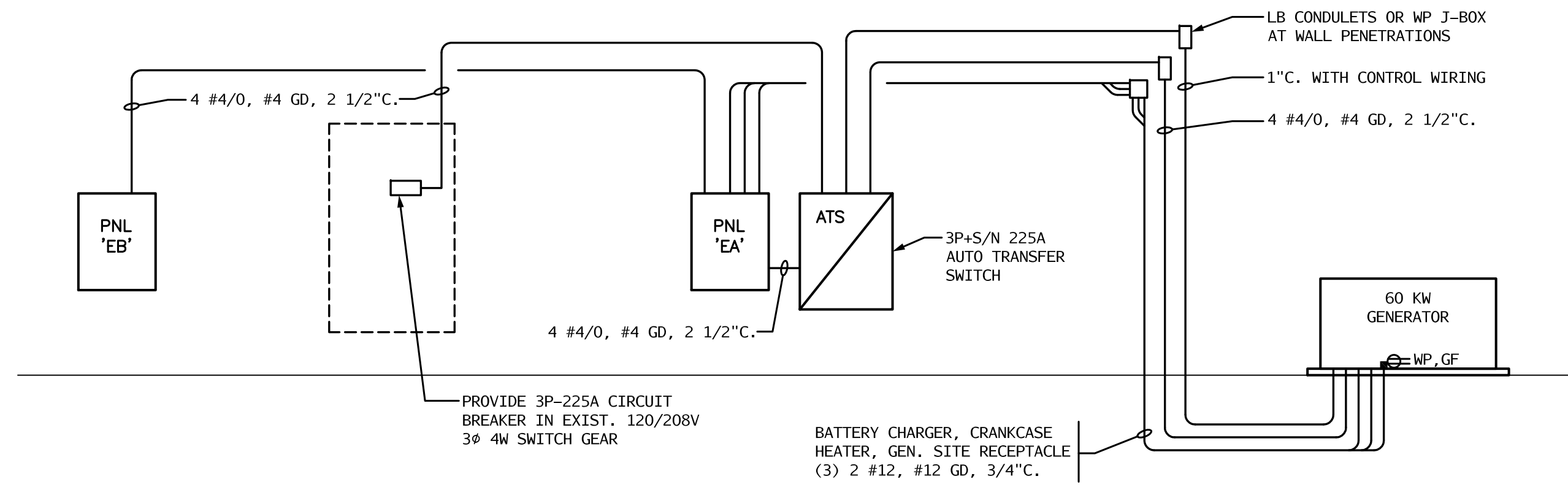


REVISION	
1	5-6-19
9	6-7-19

EA		ROOM MOUNTING SURFACE			VOLTS 208Y/120V 3P 4W			AIC 22,000			
FED FROM UTILITY		BUS AMPS 225			MAIN BKR 225			LUGS STANDARD			
NOTE PROVIDE FEED-THRU LGS FOR PANEL 'EB'		NEUTRAL 100%									
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	SPARE	0	0	0	2	20/1	GEN. BATTERY	0	0	0
3	20/1	SPARE	0	0	0	4	20/1	GEN. C.C. HEATER	0	0	0
5	20/1	SPARE	0	0	0	6	20/1	GEN. RECEPTACLES	0	0	0
7	20/1	SPARE	0	0	0	8	20/1	SPARE	0	0	0
9	20/1	SPARE	0	0	0	10	20/1	SPARE	0	0	0
11	20/1	SPARE	0	0	0	12	20/1	SPARE	0	0	0
13	20/1	SPARE	0	0	0	14	20/1	SPARE	0	0	0
15	20/1	SPARE	0	0	0	16	20/1	SPARE	0	0	0
17	20/1	SPARE	0	0	0	18	20/1	SPARE	0	0	0
19	20/1	SPARE	0	0	0	20	20/1	SPARE	0	0	0
21	20/1	SPARE	0	0	0	22	20/1	SPARE	0	0	0
23	20/1	SPARE	0	0	0	24	20/1	SPARE	0	0	0
25	20/1	SPARE	0	0	0	26	20/1	SPARE	0	0	0
27	20/1	SPARE	0	0	0	28	20/1	SPARE	0	0	0
29	20/1	SPARE	0	0	0	30	20/1	SPARE	0	0	0
31	20/1	SPARE	0	0	0	32	20/1	SPARE	0	0	0
33	-/1	SPACE	0	0	0	34	-/1	SPACE	0	0	0
35	-/1	SPACE	0	0	0	36	-/1	SPACE	0	0	0
37	-/1	SPACE	0	0	0	38	-/1	SPACE	0	0	0
39	-/1	SPACE	0	0	0	40	-/1	SPACE	0	0	0
41	-/1	SPACE	0	0	0	42	-/1	SPACE	0	0	0
TOTAL CONNECTED KVA BY PHASE									0	0	0
TOTAL CONNECTED AMPS BY PHASE									0	0	0
CONN KVA			CALC KVA			CONN KVA			CALC KVA		
						TOTAL LOAD			0		
						BALANCED 3-PHASE AMPS			0		



ELECTRICAL RISER DIAGRAM
NO SCALE

EB		ROOM MOUNTING SURFACE			VOLTS 208Y/120V 3P 4W			AIC 10,000			
FED FROM UTILITY		BUS AMPS 225			MAIN BKR MLO			LUGS STANDARD			
NOTE		NEUTRAL 100%									
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	LIGHTING	1.2			2	20/1	RECEPTACLES	1		
3	20/1	LIGHTING		1		4	20/1	RECEPTACLES		1	
5	20/1	LIGHTING			1	6	20/1	RECEPTACLES			1
7	20/1	SPARE	0			8	20/1	SPARE	0		
9	20/1	SPARE	0			10	20/1	SPARE	0		
11	20/1	SPARE	0			12	20/1	SPARE	0		
13	20/1	SPARE	0			14	20/1	SPARE	0		
15	20/1	SPARE	0			16	20/1	SPARE	0		
17	20/1	SPARE	0			18	20/1	SPARE	0		
19	20/1	SPARE	0			20	20/1	SPARE	0		
21	20/1	SPARE	0			22	20/1	SPARE	0		
23	20/1	SPARE	0			24	20/1	SPARE	0		
25	20/1	SPARE	0			26	20/1	SPARE	0		
27	20/1	SPARE	0			28	20/1	SPARE	0		
29	20/1	SPARE	0			30	20/1	SPARE	0		
31	-/1	SPACE	0			32	-/1	SPACE	0		
33	-/1	SPACE	0			34	-/1	SPACE	0		
35	-/1	SPACE	0			36	-/1	SPACE	0		
37	-/1	SPACE	0			38	-/1	SPACE	0		
39	-/1	SPACE	0			40	-/1	SPACE	0		
41	-/1	SPACE	0			42	-/1	SPACE	0		
TOTAL CONNECTED KVA BY PHASE									2.2	2	2
TOTAL CONNECTED AMPS BY PHASE									18.3	16.7	16.7
CONN KVA			CALC KVA			CONN KVA			CALC KVA		
LIGHTING			4 (125%)			TOTAL LOAD			7		
RECEPTACLES			3 (50%-10)			BALANCED 3-PHASE AMPS			19.4		

B		ROOM MOUNTING SURFACE			VOLTS 208Y/120V 3P 4W			AIC 22,000			
FED FROM UTILITY		BUS AMPS 225			MAIN BKR 225			LUGS STANDARD			
NOTE		NEUTRAL 100%									
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	RECEPTACLES	1.26			2	20/1	RECEPTACLES	1.4		
3	20/1	WATER HEATER		1.5		4	20/1	RECEPTACLES		1	1.26
5	20/1	WATER HEATER			1.5	6	20/1	RECEPTACLES			
7	20/1	RECEPTACLES	1.26			8	20/1	RECEPTACLES	0.36		
9	20/1	RECEPTACLES		1.4		10	20/1	RECEPTACLES		1.4	
11	20/1	RECEPTACLES			1.4	12	20/1	SPARE			0
13	20/1	DISPOSAL	1			14	20/1	RECEPTACLES	0.54		
15	20/1	DISHWASHER		1		16	20/1	RECEPTACLES		0.9	0.36
17	20/1	RECEPTACLES			0.9	18	20/1	RECEPTACLES			
19	20/1	RECEPTACLES	0.54			20	20/1	RECEPTACLES	0.36		
21	20/1	RECEPTACLES		0.72		22	20/1	SPARE			
23	20/1	RECEPTACLES			0.54	24	20/1	RECEPTACLES			1.08
25	20/1	WATER HEATER	1.5			26	20/1	RECEPTACLES	1.08		
27	20/1	SPARE				28	20/1	AC-A1		1.3	2.3
29	30/2	SERVER UPS			0.6	30	40/2	CU-A1			
31			0.6			32			2.3		
33	20/1	RECEPTACLES		0.36		34	30/2	CU-A3		1.7	1.7
35	20/1	RECEPTACLES			0.72	36					
37	20/1	RECEPTACLES	0.54			38	30/2	CU-A4		1.7	1.7
39	20/1	SEC. DOORS				40					
41	20/1	AC-A2			1	42	30/2	CU-A5		1.7	1.7
43	40/2	CU-A2	2.3		1.3	44			1.7		
45					2.3	46	20/1	SPARE			0
47	30/2	CU-A6			1.7	48	20/1	SPARE			0
49						50	20/1	SPARE			0
51	20/1	SPARE			0	52	20/1	SPARE			0
53	20/1	SPARE			0	54	20/1	SPARE			0
TOTAL CONNECTED KVA BY PHASE									20.1	16.3	17.1
TOTAL CONNECTED AMPS BY PHASE									168	136	144
CONN KVA			CALC KVA			CONN KVA			CALC KVA		
MOTORS			27.4 (100%)			RECEPTACLES			21.6 (50%-10)		
						HEATING			4.5 (100%)		
						TOTAL LOAD			47.7		
						BALANCED 3-PHASE AMPS			132		



CHATTANOOGA POLICE DEPT.
INTERIOR RENOVATIONS
ANNEX FACILITY
3201 AMNICOLA HIGHWAY
CHATTANOOGA, TENNESSEE



ELECTRICAL
DETAILS
2/22/2019
17-23
JCP
E4.1

Project #: 1850
Smith Engineering
Professional Corporation
103 Jordan Drive STE 1 Chattanooga, TN 37421
Phone: (423)499-9532 Fax: (423)894-4440