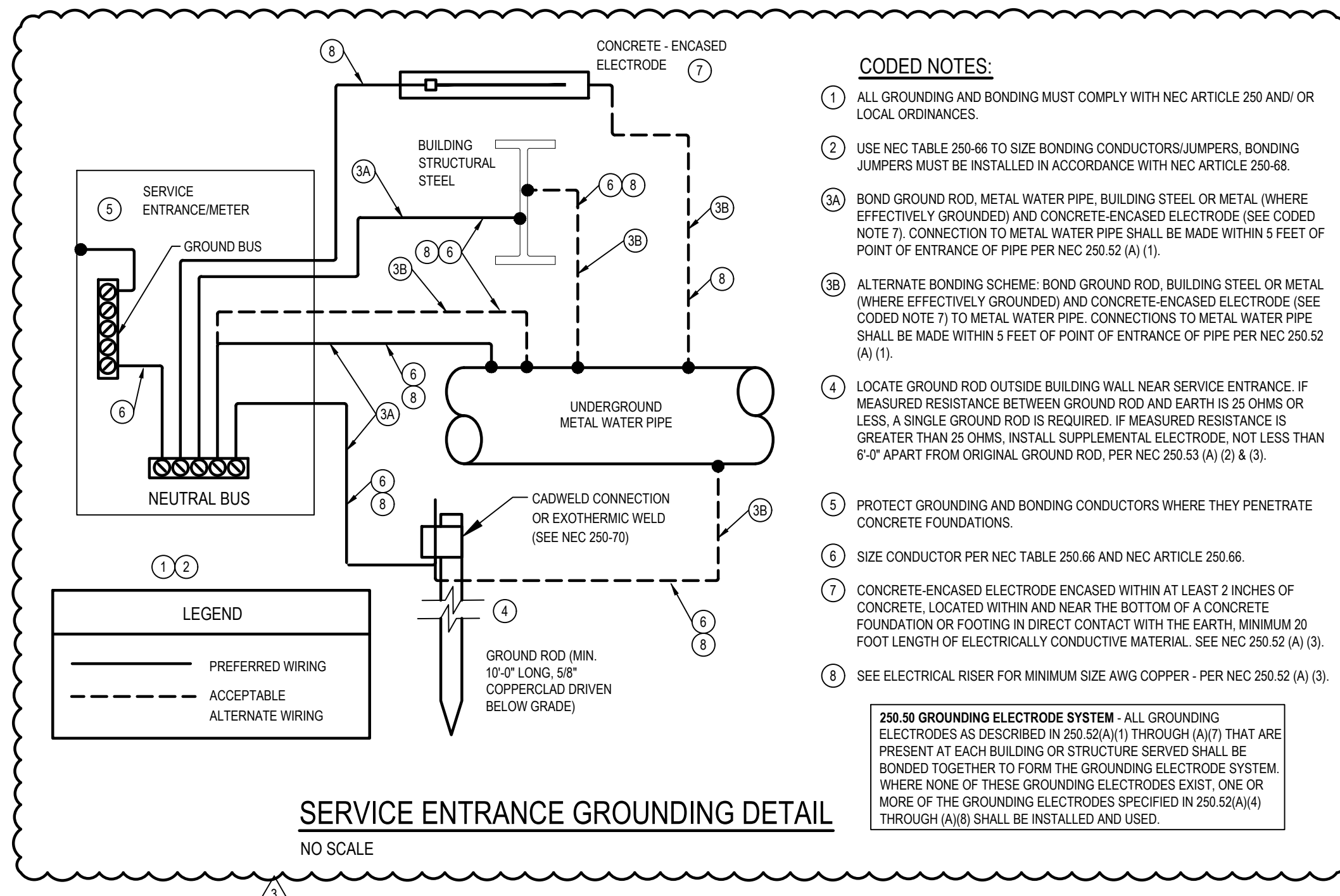


Panel ID: A				Voltage: 208 / 120				Panel Type: NQ00				
Location: B.O.H./HALL				Phase: 3				Type Encl.: NEMA-1				
Mounting: SURFACE				Wire: 4								
Main Type: 200A MCB				Main Size: 225 Amps								
All phases to be balanced to within 10% using actual connected loads.												
CKT NO.	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	N.E.C. LOAD (KVA)	ACTUAL LOAD (KVA)	PHASE	ACTUAL LOAD (KVA)	N.E.C. LOAD (KVA)	CKT BKR SIZE	CKT BKR OPTION	BRANCH CIRCUIT DESCRIPTION	CKT NO.
1	RTU-1	30/3	HR	2.352	2.352	A	4.308	4.308	HR	50/3	RTU-2	2
3	-- --	--	--	2.352	2.352	B	4.308	4.308	--	--	--	4
5	-- --	--	--	2.352	2.352	C	4.308	4.308	--	--	--	6
7	P.O.S. REC	20/1		0.900	0.900	A	0.400	0.400	LC-1	20/1	SHOW WINDOW LED MONITOR	8
9	BACKWRAP REC	20/1		0.180	0.180	B	0.000	0.000		20/1	SPACE	10
11	SPACE	20/1		0.000	0.000	C	0.000	0.000		20/1	SPACE	12
13	BACKWRAP REC	20/1		0.180	0.180	A	0.360	0.360		20/1	WRITING DESK REC	14
15	BACKWRAP TV REC	20/1		0.400	0.400	B	0.540	0.540		20/1	WRITING DESK REC	16
17	TC-1/LC-1	20/1	LO	0.200	0.200	C	0.044	0.044	LC-1	20/1	SHOW WINDOW LIGHTS	18
19	SALES WALL LIGHTS	20/1		0.561	0.561	A	1.200	1.200	LC-1	20/1	EXTERIOR SIGN	20
21	SALES LIGHTS (RM/EX)	20/1	LO	1.152	1.152	B	2.844	2.844	HR	35/3	RTU-3	22
23	LABORATORY LTS (RM/EX)	20/1	LO	0.320	0.320	C	2.844	2.844		--	--	24
25	SHOW WINDOW REC	20/1	LC-1	0.540	0.540	A	2.844	2.844		--	--	26
27	SALES GENERAL RECS	20/1		0.360	0.360	B	0.000	0.000	20/1	SPACE	SPACE	28
29	INTERIOR SIGN	20/1		0.400	0.400	C	0.000	0.000			SPACE	30
31	DISPLAY CASE REC	20/1		0.900	0.900	A	0.000	0.000			SPACE	32
33	DISPLAY CASE REC	20/1		1.260	1.260	B	0.000	0.000			SPACE	34
35	RTU REC	20/1		0.360	0.360	C	0.000	0.000			SPACE	36
37	PANEL 'C'	100/3		8.760	8.760	A	5.396	5.396	100/3		PANEL 'B'	38
39	-- --	--	--	5.580	5.580	B	4.860	4.860	--	--	--	40
41	-- --	--	--	6.800	6.800	C	4.800	4.800	--	--	--	42
Actual Load Panel Summary				N.E.C. Load Panel Summary				Breaker Options (If Used):				
Phase A: 28.7 KVA				Phase A: 28.7 KVA				239.2 AMPS				
Phase B: 23.8 KVA				Phase B: 23.8 KVA				198.6 AMPS				
Phase C: 22.4 KVA				Phase C: 22.4 KVA				167.9 AMPS				
Total: 75.0 KVA				Total: 75.0 KVA				208.1 AMPS				
				LCW - Wire Thru Lighting Contactor #								
				LO - Lock-On Device								
				IG- Isolated Ground Conductor								
				LCW - Wire Thru Lighting Contactor#								
				HR - HACR Rated Circuit Breaker								

Panel ID: C		Voltage: 208 / 120		Panel Type: NQ00								
Location: LAB		Phase: 3		Type Encl.: NEMA-1								
Mounting: SURFACE		Wire: 4										
Main Type: MGO		Bus Amperage: 100 Amps										
All phases to be balanced to within 10% using actual connected loads.												
CKT NO.	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	N.E.C. LOAD (KVA)	ACTUAL LOAD (KVA)	PHASE	ACTUAL LOAD (KVA)	N.E.C. LOAD (KVA)	CKT BKR SIZE	CKT BKR OPTION	BRANCH CIRCUIT DESCRIPTION	CKT NO.
1	SPARE	20/1		0.000	0.000	A	1.000	1.000	20/1		LENS CENTER LOCATE #L04	2
3	VERTOMETER #L30	20/1		0.200	0.200	B	0.180	0.180	20/1		COMPUTER #L01	4
5	BRAN PAN #L34 & FRAME BFR #L54	20/1		1.240	1.240	C	0.180	0.180	20/1		EMPLOYEE TIME CLOCK #L02	6
7	STKG KIT #L52 & FLEX DRILL #L53	20/1		1.300	1.300	A	1.000	1.000	20/1		LENS MAKER #L09 (CS-7)	8
9	DBI DYE TANK #L41	20/1		1.800	1.800	B	1.000	1.000	20/1		LAP SERVICE SAVER #L05	10
11	CERAMIC HAND EDGER #L37	20/1		0.780	0.780	C	0.720	0.720	20/1		BLOCKER #L07 (SURFACE)	12
13	440 WECO EDGER #L35	20/1		1.200	1.200	A	1.560	1.560	20/1		LENS REC #L16	14
15	CS-7 BLKR #L31 & VERTMTR #L30	20/1		0.440	0.440	B	1.600	1.600	20/1		CYLINDER MACHINE #L18	16
17	LENS COATING #L38	20/1		0.720	0.720	C	1.600	1.600	20/1		CYLINDER MACHINE #L18	18
19	BACKSIDE COATER #L40	20/1		0.960	0.960	A	0.180	0.180	20/1		CHILLER #L23 (OM-003-8)	20
21	SPACE	20/1		0.000	0.000	B	0.180	0.180	20/1		RECLAIM TANK #L20	22
23	SPACE	20/1		0.000	0.000	C	1.560	1.560	20/2		AIR COMPRESSOR	24
25	SPACE	20/1		0.000	0.000	A	1.560	1.560	--	--	--	26
27	SPACE	20/1		0.000	0.000	B	0.180	0.180	20/1		GENERAL LAB REC	28
29	SPACE	20/1		0.000	0.000	C	0.000	0.000	20/1		SPACE	30
31	SPACE	20/1		0.000	0.000	A	0.000	0.000	20/1		SPACE	32
33	SPACE	20/1		0.000	0.000	B	0.000	0.000	20/1		SPACE	34
35	SPACE	20/1		0.000	0.000	C	0.000	0.000	20/1		SPACE	36
37	SPACE	20/1		0.000	0.000	A	0.000	0.000	20/1		SPACE	38
39	SPACE	20/1		0.000	0.000	B	0.000	0.000	20/1		SPACE	40
41	SPACE	20/1		0.000	0.000	C	0.000	0.000	20/1		SPACE	42
Actual Load Panel Summary				N.E.C. Load Panel Summary				Breaker Options (If Used):				
Phase A: 8.8 KVA				Phase A: 8.8 KVA				73.0 AMPS				
Phase B: 5.6 KVA				Phase B: 5.6 KVA				46.5 AMPS				
Phase C: 6.8 KVA				Phase C: 6.8 KVA				58.7 AMPS				
Total: 21.1 KVA				Total: 21.1 KVA				58.7 AMPS				
								TC - Wire Thru TimeClock				
								LO - Lock-On Device				
								IG - Isolated Ground Conductor				
								Connected to Building Steel				
								HR - HACR Rated Circuit Breaker				

ELECTRICAL LOAD SUMMARY					
DESCRIPTION	CONNECTED KW	POWER FACTOR	CONNECTED DEMAND KVA	N.E.C. CONNECTED KVA	N.E.C. DEMAND FACTOR
LIGHTING	4.435	1.0	4.435	4.435	1.25
0 LF OF TRACK LIGHTING	0.000	1.0	0.000	0.000	1.25
RECEPTACLES	30.440	1.0	30.440	30.440	1.0 < 10 KW 0.5 RMINDR
MOTORS	7.880	0.9	8.756	8.756	125% OF LARGEST MOTOR
FIXED ELEC. SPACE HEATING	0.000	1.0	0.000	0.000	1.0
AIR CONDITIONING SYSTEM	28.512	1.0	28.512	28.512	125% OF LARGEST MOTOR
ELECTRIC WATER HEATER	3.000	1.0	3.000	3.000	1.25
MISCELLANEOUS	0.698	1.0	0.698	0.698	1.0
TOTALS:	74.965		75.841	75.841	68.554
NOTES:		N.E.C. DEMAND KVA x 1000		=MIN FEEDER AMPS	
* USE GREATER OF THE LF - LINEAR FEET		SYSTEM VOLTAGE x 1.73			
ELECTRICAL SERVICE VOLTAGE = 208 V - 3 PHASE		68.554 KVA x 1000		= 190.4 AMPS	
MINIMUM ELECTRICAL SERVICE AMPERAGE = 200 AMPS		208 x 1.73			



Panel ID: B				Voltage: 208 / 120				Panel Type: NQ00				
Location: B.O.H./HALL				Phase: 3				Type Encl.: NEMA-1				
Mounting: SURFACE				Wire: 4								
Main Type: MLO				Main Size: 100 Amps								
All phases to be balanced to within 10% using actual connected loads.												
CKT NO.	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	N.E.C. LOAD (KVA)	ACTUAL LOAD (KVA)	PHASE	ACTUAL LOAD (KVA)	N.E.C. LOAD (KVA)	CKT BKR SIZE	CKT BKR OPTION	BRANCH CIRCUIT DESCRIPTION	CKT NO.
1	WAITING ROOM REC	20/1		0.540	0.540	A	0.700	0.700	20/1		REFRIGERATOR REC	2
3	SPACE	20/1		0.000	0.000	B	1.200	1.200	20/1		MICROWAVE REC	4
5	HALL #105 REC	20/1		0.360	0.360	C	0.100	0.100	20/1		SECURITY ALARM	6
7	BOH/HALL #110, 111B, 111C REC	20/1		0.540	0.540	A	0.400	0.400	20/1		RECEPTION TV REC	8
9	RR/OFFICE/HALL LTS&FANS	20/1		0.560	0.560	B	0.720	0.720	20/1		RECEPTION REC	10
11	STORG/HALL/RECPN/WTG LTS	20/1	LO	0.320	0.320	C	0.540	0.540	20/1		PRETEST ROOM REC	12
13	RESTROOM REC	20/1		0.720	0.720	A	0.720	0.720	20/1		CONTACT ROOM REC	14
15	OFFICE 119 REC	20/1		0.720	0.720	B	1.260	1.260	20/1		EXAM RM #1 REC	16
17	TELEPHONE BD REC	20/1	LO	0.720	0.720	C	1.260	1.260	20/1		EXAM RM #2 REC	18
19	EXAM LTS & FANS	20/1	LO	0.276	0.276	A	0.000	0.000	20/1		SPACE	20
21	SPACE	20/1		0.000	0.000	B	0.000	0.000	20/1		SPACE	22
23	WATER HEATER	20/2		1.500	1.500	C	0.000	0.000	20/1		SPACE	24
25	-- --	--		1.500	1.500	A	0.000	0.000			SPACE	26
27	BWC REC	20/1		0.400	0.400	B	0.000	0.000			SPACE	28
29	SPACE			0.000	0.000	C	0.000	0.000			SPACE	30
31	SPACE			0.000	0.000	A	0.000	0.000			SPACE	32
33	SPACE			0.000	0.000	B	0.000	0.000			SPACE	34
35	SPACE			0.000	0.000	C	0.000	0.000			SPACE	36
37	SPACE			0.000	0.000	A	0.000	0.000			SPACE	38
39	SPACE			0.000	0.000	B	0.000	0.000			SPACE	40
41	SPACE			0.000	0.000	C	0.000	0.000			SPACE	42
Actual Load Panel Summary				N.E.C. Load Panel Summary				Breaker Options (If Used):				
Phase A: 5.4 KVA				Phase A: 5.4 KVA				LCH - Wire Thru Lighting Contactor #				
Phase B: 4.9 KVA				Phase B: 4.9 KVA				LO - Lock-On Device				
Phase C: 4.8 KVA				Phase C: 4.8 KVA				IG - Isolated Ground Conductor				
Total: 15.1 KVA				Total: 15.1 KVA				Connected to Building Steel				
								BR - HACR Rated Circuit Breaker				