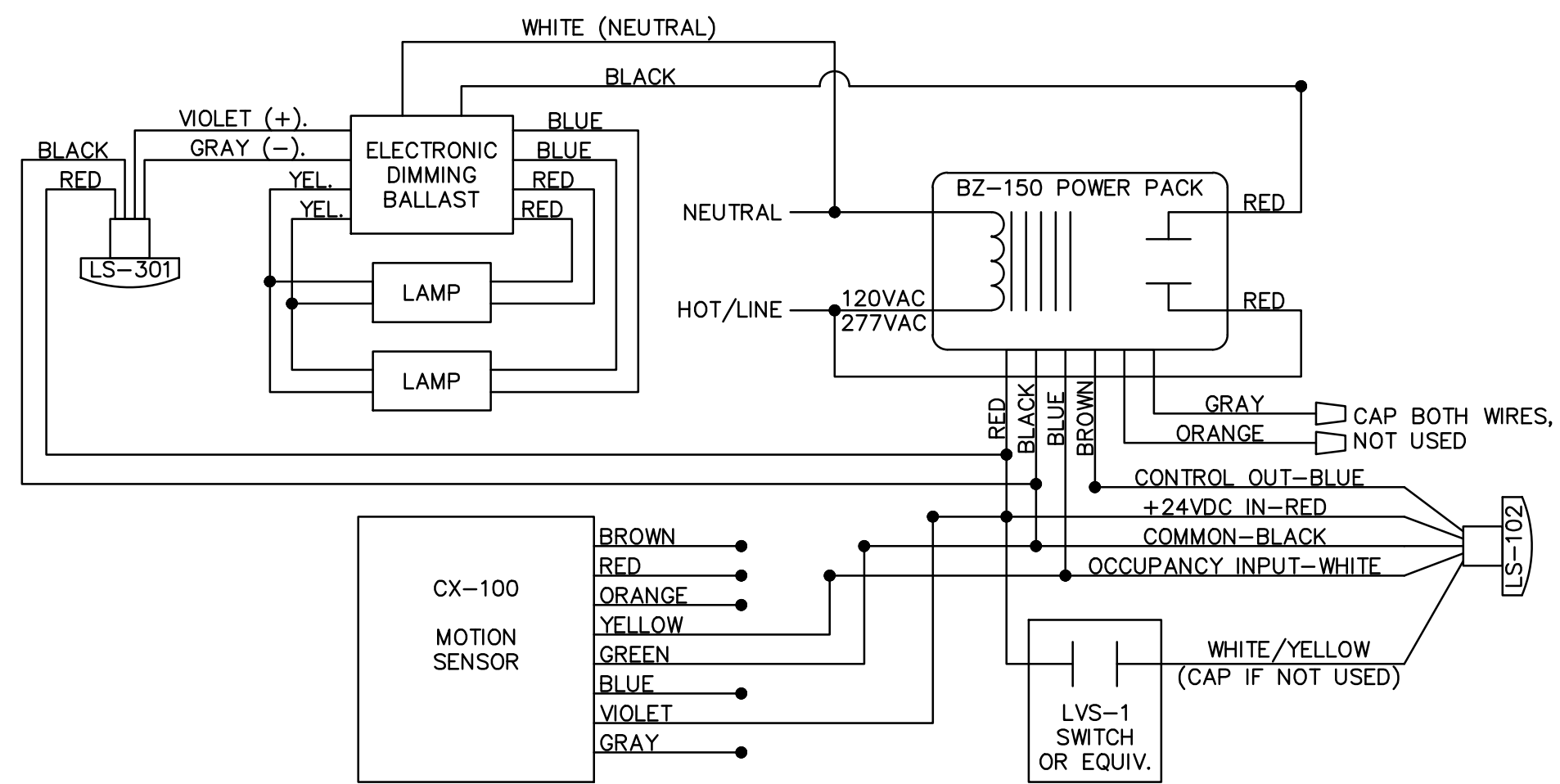


three inches = one foot
one and one-half inches = one foot
one inch = one foot
three-quarters inch = one foot
one-half inch = one foot
one-quarter inch = one foot
three-eighths inch = one foot
one-eighth inch = one foot

LOAD SERVED	KVA / Phase			OCT BRKR	OCT NO	NEUTRAL			OCT BRKR	OCT NO	KVA / Phase			LOAD SERVED
	A	B	C			A	B	C			A	B	C	
EXISTING LOAD	1.44	---	---	1P-20	1	---	---	---	1P-20	2	1.44	---	---	EXISTING LOAD
EXISTING LOAD	---	1.44	---	1P-20	3	---	---	---	1P-20	4	---	1.44	---	EXISTING LOAD
EXISTING LOAD	---	---	1.44	1P-20	5	---	---	---	1P-20	6	---	---	1.44	EXISTING LOAD
EXISTING LOAD	1.44	---	---	1P-20	7	---	---	---	1P-20	8	1.44	---	---	EXISTING LOAD
EXISTING LOAD	---	1.44	---	1P-20	9	---	---	---	1P-20	10	---	1.44	---	EXISTING LOAD
EXISTING LOAD	---	---	1.44	1P-20	11	---	---	---	1P-20	12	---	---	1.44	EXISTING LOAD
EXISTING LOAD	1.44	---	---	1P-20	13	---	---	---	1P-20	14	1.44	---	---	EXISTING LOAD
EXISTING LOAD	---	1.44	---	1P-20	15	---	---	---	1P-20	16	---	---	0.00	SPACE
EXISTING LOAD	---	---	1.44	1P-20	17	---	---	---	1P-20	18	---	---	1.44	EXISTING LOAD
EXISTING LOAD	1.44	---	---	1P-20	19	---	---	---	1P-20	20	1.44	---	---	EXISTING LOAD
EXISTING LOAD	---	1.44	---	1P-20	21	---	---	---	1P-20	22	---	1.44	---	EXISTING LOAD
EXISTING LOAD	---	---	1.44	1P-20	23	---	---	---	1P-20	24	---	---	1.44	EXISTING LOAD
EXISTING LOAD	1.44	---	---	1P-20	25	---	---	---	1P-20	26	1.44	---	---	EXISTING LOAD
EXISTING LOAD	---	1.44	---	1P-20	27	---	---	---	1P-20	28	---	---	1.44	EXISTING LOAD
EXISTING LOAD	---	---	1.44	1P-20	29	---	---	---	1P-20	30	---	---	1.44	EXISTING LOAD
EXISTING PANEL '8-1'	12.98	---	---	3P-100	31	---	---	---	3P-100	32	---	---	0.00	SPACE
EXISTING PANEL '8-1'	---	12.17	---	3P-100	33	---	---	---	3P-100	34	---	---	0.00	SPACE
EXISTING PANEL '8-1'	---	---	12.13	3P-100	35	---	---	---	3P-100	36	---	---	0.00	SPACE
SPACE	0.00	---	---	---	---	---	---	---	---	---	0.00	---	---	SPACE
EXISTING LOAD	---	1.44	---	1P-20	37	---	---	---	1P-20	38	---	---	1.44	EXISTING LOAD
SPACE	---	---	0.00	1P-20	39	---	---	---	1P-20	40	---	---	0.00	SPACE
SUB TOTAL	20.18	20.81	19.33								7.20	7.20	7.20	SUB TOTAL
C/B TEMP. 75 C. RATING 120 208 V. 3 PH. 4 WIRE														
MOUNTING SURFACE														
ISOLATED GROUND BUS														
MAIN CIRCUIT BREAKER														
SERVICE ENTR. RATED														
MINIMUM AIC (K AMPS) 10														
MCB RATING MLO														
BUS RATING 200A														
NEUTRAL RATING 100%														
NOTE: ALL MOTOR CIRCUIT BREAKERS MUST BE HACR RATED.														
LOAD TYPE														
GENERAL LIGHTING														
GENERAL USE														
RECEPT														
MOTORS AND EQUIPMENT														
TOTAL KVA PER PHASE														
TOTAL DEMAND AMPERES PER PHASE														
PANEL / FEEDER (TOTAL KVA)														
(TOTAL KVA) X 1000 = TOTAL AMPS														
VOLTS X 1.732														
EXISTING PANEL '8-B1'														

LOAD SERVED	KVA / Phase			OCT BRKR	OCT NO	NEUTRAL			OCT BRKR	OCT NO	KVA / Phase			LOAD SERVED
	A	B	C			A	B	C			A	B	C	
EXISTING LOAD	1.44	---	---	1P-20	1	---	---	---	1P-20	2	1.44	---	---	EXISTING LOAD
EXISTING LOAD	---	1.44	---	1P-20	3	---	---	---	1P-20	4	---	1.44	---	EXISTING LOAD
EXISTING LOAD	---	---	1.44	1P-20	5	---	---	---	1P-20	6	---	---	1.44	EXISTING LOAD
EXISTING LOAD	1.44	---	---	1P-20	7	---	---	---	1P-20	8	1.44	---	---	EXISTING LOAD
EXISTING LOAD	---	1.44	---	1P-20	9	---	---	---	1P-20	10	---	1.44	---	EXISTING LOAD
EXISTING LOAD	---	---	1.44	1P-20	11	---	---	---	1P-20	12	---	---	1.44	EXISTING LOAD
EXISTING LOAD	1.44	---	---	1P-20	13	---	---	---	1P-20	14	1.44	---	---	EXISTING LOAD
EXISTING LOAD	---	1.44	---	1P-20	15	---	---	---	1P-20	16	---	---	1.44	EXISTING LOAD
EXISTING LOAD	---	---	1.44	1P-20	17	---	---	---	1P-20	18	---	---	1.44	EXISTING LOAD
EXISTING LOAD	1.44	---	---	1P-20	19	---	---	---	1P-20	20	1.44	---	---	EXISTING LOAD
EXISTING LOAD	---	1.44	---	1P-20	21	---	---	---	1P-20	22	---	1.55	---	NEW LTS GYM
EXISTING LOAD	---	---	1.44	1P-20	23	---	---	---	1P-20	24	---	---	1.55	NEW LTS GYM
SPACE	0.00	---	---	---	---	---	---	---	---	---	0.96	---	---	NEW LTS LOWER LEVEL
SPACE	---	0.00	---	---	---	---	---	---	---	---	---	0.54	---	NEW LTS LOWER LEVEL
FIRE ALARM SPARE	---	0.00	---	---	---	---	---	---	---	---	---	0.00	---	SPACE
FIRE ALARM SPARE	0.50	---	---	1P-20	31	---	---	---	1P-20	32	---	0.00	---	SPACE
SPACE	---	0.00	---	---	---	---	---	---	---	---	---	0.00	---	SPACE
SPACE	---	---	0.00	---	---	---	---	---	---	---	---	0.00	---	SPACE
SPACE	0.00	---	---	---	---	---	---	---	---	---	0.00	---	---	SPACE
SPACE	---	0.00	---	---	---	---	---	---	---	---	---	0.00	---	SPACE
SPACE	---	---	0.00	---	---	---	---	---	---	---	---	0.00	---	SPACE
SUB TOTAL	6.26	5.76	6.26								6.72	6.41	5.87	SUB TOTAL
C/B TEMP. 75 C. RATING 120 208 V. 3 PH. 4 WIRE														
MOUNTING RECESSED														
ISOLATED GROUND BUS														
MAIN CIRCUIT BREAKER														
SERVICE ENTR. RATED														
MINIMUM AIC (K AMPS) 10														
MCB RATING MLO														
BUS RATING 100A														
NEUTRAL RATING 100%														
NOTE: ALL MOTOR CIRCUIT BREAKERS MUST BE HACR RATED.														
LOAD TYPE														
GENERAL LIGHTING														
GENERAL USE														
RECEPT														
MOTORS AND EQUIPMENT														
TOTAL KVA PER PHASE														
TOTAL DEMAND AMPERES PER PHASE														
PANEL / FEEDER (TOTAL KVA)														
(TOTAL KVA) X 1000 = TOTAL AMPS														
VOLTS X 1.732														
EXISTING PANEL '8-1'														



- NOTES:
- MODEL NUMBERS SHOWN ARE WATT STOPPER.
 - PROVIDE PROTECTIVE CASES FOR SENSORS IN GYM.

3 GYMNASIUM LIGHTING CONTROL DIAGRAM

SCALE: NTS

LOAD SERVED				KVA / Phase			OCT BRKR	NEUTRAL			OCT BRKR	OCT NO	KVA / Phase			LOAD SERVED					
A	B	C		A	B	C		A	B	C			A	B	C						
NEW WSHP-B	2.50	---	---	2P-30	1	---	---	---	2P-30	2	0.05	---	---	NEW 8-EF1							
	---	2.50	---		3	---	---	---		4	0.22	---	---	NEW 8-EF2							
NEW WSHP-C	---	---	2.50	2P-30	5	---	---	---	2P-30	6	---	0.09	---	NEW 8-EF3							
	2.50	---	---		7	---	---	---		8	---	0.00	---	SPACE							
NEW WSHP-D	---	1.66	---	2P-20	9	---	---	---	2P-20	10	---	0.00	---	SPACE							
	---	---	1.66		11	---	---	---		12	---	0.00	---	SPACE							
NEW WSHP-E	1.66	---	---	2P-20	13	---	---	---	2P-20	14	---	0.00	---	SPACE							
	---	1.66	---		15	---	---	---		16	---	0.00	---	SPACE							
NEW WSHP-F	---	---	1.66	2P-20	17	---	---	---	2P-20	18	---	0.00	---	SPACE							
	1.66	---	---		19	---	---	0.00	---	20	---	0.00	---	SPACE							
NEW WSHP-G	---	1.66	---	2P-20	21	---	---	---	2P-20	22	---	0.00	---	SPACE							
	---	---	1.66		23	---	---	---		24	---	0.00	---	SPACE							
NEW 8-P1	2.10	---	---	3P-25	25	---	---	0.00	---	---	---	---	---	SPACE							
	---	2.10	---		27	---	---	---	0.00	---	---	---	---	SPACE							
	---	---	2.10		29	---	---	---	---	0.00	---	---	---	SPACE							
NEW 8-P2	2.10	---	---	3P-25	31	---	---	0.00	---	---	---	---	---	SPACE							
	---	---	2.10		33	---	---	---	0.00	---	---	---	---	SPACE							
	---	2.10	---		35	---	---	---	0.00	---	---	---	---	SPACE							
	---	---	2.10		37	---	---	0.00	---	---	---	---	---	SPACE							
SPACE	0.00	---	---		39	---	---	0.00	---	---	---	---	---	SPACE							
SPACE	---	0.00	---		41	---	---	0.00	---	---	---	---	---	SPACE							
SPACE	---	---	0.00		43	---	---	0.00	---	---	---	---	---	SPACE							
SUB TOTAL	12.52	11.69	11.69		45	---	---	0.00	---	---	---	---	---	SUB TOTAL							
											0.05	0.22	0.09								
											TOTAL			12.57	11.91	11.78					
C/B TEMP. 75 C.				RATING	120	208 V 3 PH 4 WIRE			LOAD TYPE			A	B	C	NEC DEM FACTOR		DEMAND KVA				
MOUNTING SURFACE																	A	B	C		
ISOLATED GROUND BUS					YES		X	NO	GENERAL LIGHTING			0.00	0.00	0.00	125%	0.00	0.00	0.00			
MAIN CIRCUIT BREAKER				X					GENERAL USE			0.00	0.00	0.00	<10 KVA@100%	0.00	0.00	0.00			
SERVICE ENTR. RATED					YES		X	NO	RECEPT			0.00	0.00	0.00	>10KVA@85%	0.00	0.00	0.00			
MINIMUM AIC (K AMPS)				10					MOTORS AND EQUIPMENT			LARGEST	2.10	2.10	2.10	125%	2.63	2.63	2.63		
MCB RATING 200A									EQUIPMENT			ALL OTHERS	10.47	9.81	9.68	100%	10.47	9.81	9.68		
BUS RATING 200A									WATER HEATERS				0.00	0.00	0.00	125%	0.00	0.00	0.00		
NEUTRAL RATING 100%									FIX. ELECT. SPACE HEAT				0.00	0.00	0.00	100%	0.00	0.00	0.00		
NOTE: ALL MOTOR CIRCUIT BREAKERS MUST BE HACR RATED.																					
TOTAL KVA PER PHASE												12.57	11.91	11.78					13.09	12.43	12.30
TOTAL DEMAND AMPERES PER PHASE																			109	104	103
PANEL / FEEDER (TOTAL KVA)																			37.82		
TOTAL KVA X 1000 = TOTAL AMPS																					
VOLTS X 1.732																					
NEW PANEL '8-B2'																					