

EQUIPMENT SCHEDULE - MSB												
EQUIPMENT TYPE: SQUARE D SWITCHBOARD							AIC RATING: 42KAIC (MINIMUM)					
VOLTAGE: 277/480V-3P-4W							MOUNTING: FREE STANDING					
AMPS & TYPE: 1600/3 MAIN BKR SEE NOTES 4, 6 & 7							LOCATION: ELECTRICAL W104					
FED FROM: UTILITY							FEEDER: 5 SETS OF 4-400MCM- 3- 1/2" C					
CIR. NO.	DESCRIPTION	VOLTS	P	HP	KW OR KVA	AMPS	BKR SIZE	LOCAL SAFETY SW. RATING	WMRE AND COND. SIZE	REMARKS		
1	LP-A	277/480	3		115.8		225/3	-	4#4/0 & 1#4G - 2 1/2" C			
2	DP-A(225 KVA X-FORMER)	480	3		173.4		400/3	-	2 SETS OF 3#3/0 & 1#3G - 2" C	LSI		
3	TL1 (112.5 KVA X-FORMER)	480	3		102.6		175/3	-	3#2/0 & 1#6G - 2" C			
4	IG1 (75 KVA X-FORMER)	480	3		41.6		125/3	-	3#1 & 1#10IG			
5	LP-D	277/480	3		153.2		350/3	-	4-500MCM& 1#3G - 3 1/2" C	LSI		
6	GPU-1	480	3			74.7	100/3	100/3 - F100	3#3 & 1#6G - 1 1/4" C			
7	GPU-2	480	3			74.7	100/3	100/3 - F100	3#3 & 1#6G - 1 1/4" C			
8	GPU-3	480	3			36.9	50/3	-	3#8 & 1#10G - 1" C			
9	TSEC-XC (150 KVA X-FORMER)	480	3		94.4		250/3	400/3	3-250MCM& 1#4G - 2 1/2" C	LSI		
10	ELEVATOR	480	3	8			35/3	60/3 - FPN	3#10 & 1#10G - 3/4" C	DC, ST, VC		
11	SPACE - 225/3							-	-			
12	SPACE - 225/3							-	-			
13	SPACE - 225/3							-	-			
14	SPACE - 225/3							-	-			
							TOTAL CONNECTED LOAD		876.8 KVA			
									1,096.0 AMPS			
							TOTAL DEMAND LOAD		821.4 KVA			
									1,026.8 AMPS			
							TOTAL COMPUTED LOAD		841.2 KVA			
									1,051.5 AMPS			
							NOTES: 1. EQUIPMENT SHALL BE SERVICE-ENTRANCE RATED. 2. PROVIDE INTEGRAL 240KA (PER PHASE) SURGE PROTECTION DEVICE. 3. SWITCHBOARD SHALL BE FRONT-ACCESSIBLE ONLY. 4. PROVIDE ARC-FLASH ENERGY REDUCTION MAINTENANCE SWITCH (TO ADJUST BREAKER TRIP SETTINGS TO LOWER LEVELS WHEN SWITCH IS IN "MAINTENANCE MODE") PER NEC 2014 ARTICLE 240.87 REQUIREMENTS. 5. PROVIDE WITH INTEGRAL MAIN POWER METER WITH WITH LOCAL DISPLAY AND INTERNAL MEMORY EQUAL TO SQUARE D' #PM550. 6. MAIN BREAKER SHALL BE ELECTRONIC TRIP, LSIIG TYPE. 7. MAIN BREAKER SHALL BE SHUNT TRIP TYPE.					

PANELBOARD SCHEDULE - DP-A												
PANEL TYPE: SQUARE D' HLINE SERIES						AIC RATING: 18KAIC (MINIMUM)						
VOLTAGE: 120/208V-3P-4W						MOUNTING: SURFACE						
AMPS & TYPE: 800/3 MAIN BKR						LOCATION: ELECTRICAL W104						
FED FROM: MSB						FEEDER: 3 SETS OF 4-300MCM & 1#2/0G - 3" C						
CIR. NO.	DESCRIPTION	VOLTS	P	HP	KW OR KVA	AMPS	BKR SIZE	LOCAL SAFETY SW. RATING	WIRE AND COND. SIZE	REMARKS		
1	RP-A	120/208	3		43.1		225/3	-	4W40 & 1#4G - 2 1/2" C			
2	RP-B	120/208	3		70.4		350/3	-	4-500MCM & 1#3G - 3 1/2" C			
3	RP-C	120/208	3		31.3		125/3	-	4W1 & 1#6G - 2" C			
4	UT1	120/208	3		16.6		100/3	-	4W3 & 1#6G - 1 1/2" C			
5	RP-A2	120/208	3		27.8		125/3	-	4W1 & 1#6G - 2" C			
6	SPACE - 225/3	120/208	3					-				
7	SPACE - 125/3							-				
TOTAL CONNECTED LOAD:						217.0 KVA	NOTES: 1. PROVIDE INTEGRAL 160KA (PER PHASE) SURGE PROTECTION DEVICE.					
						602.8 AMPS						
TOTAL DEMAND LOAD:						161.7 KVA						
						449.0 AMPS						
TOTAL COMPUTED LOAD:						173.4 KVA						
						481.6 AMPS						

PANELBOARD/EQUIPMENT SCHEDULE(S) KEYED NOTES LEGEND	
KEYED NOTE	DESCRIPTION
DC	INDICATED BREAKER SHALL BE PROVIDED WITH AUXILIARY DRY CONTACT (N.C. WHEN BREAKER CLOSED) PER EQUIPMENT SUPPLIER'S DIRECTION.
GFI	INDICATED BREAKER SHALL BE GFI-TYPE (5mA TRIP).
LOC	INDICATED CIRCUIT SHALL BE ROUTED THRU LIGHTING CONTACTOR - SEE PLANS.
LCP	INDICATED CIRCUIT SHALL BE ROUTED THRU LIGHTING CONTROL PANEL - SEE LCP SCHEDULE FOR ASSOCIATED RELAY.
LON	INDICATED BREAKER SHALL BE PROVIDED WITH LOCK-ON HARDWARE.
LSI	INDICATED BREAKER SHALL BE ELECTRONIC TRIP, LSI-TYPE.
MB	MOTORIZED BREAKER.
ST	INDICATED BREAKER SHALL BE SHUNT-TRIP TYPE.
VC	CONTRACTOR SHALL VERIFY REQUIRED BREAKER & CIRCUITRY REQUIREMENTS OF INDICATED CIRCUIT WITH EQUIPMENT SUPPLIER PRIOR TO SUBMITTING SHOP DRAWINGS OR ROUGHING IN CONDUITS.

PANELBOARD SCHEDULE - LP-A												
PANEL TYPE: SQUARE D' TYPE NF				AIC RATING: 42KAIC (MINIMUM)								
VOLTAGE: 277/480V-3P-4W				MOUNTING: SURFACE								
AMPS & TYPE: 225 AMP - MLO				LOCATION: ELECTRICAL W104								
FED FROM: MSB				FEEDER: SEE EQUIPMENT SCHEDULE - MSB								
CKT. NO.	NOTES	BKR	DESCRIPTION	WATTS	PHASE	WATTS	DESCRIPTION	BKR	NOTES	CKT. NO.		
1	-	20/1	LIGHTING - LOBBY	2,560	A	7,731	RTU-5	40/3	-	2		
3	-	20/1	LIGHTING - CLASSROOMS	2,400	B	7,731			-	4		
5	-	20/1	LIGHTING - CLASSROOMS	2,100	C	7,731			-	6		
7	-	20/1	LIGHTING - BACKSTAGE	2,040	A	3,741	RTU-6	20/3	-	8		
9	-	20/1	LIGHTING - 1ST FLOOR OFFICE	600	B	3,741			-	10		
11	-	20/1	LIGHTING - CLASSROOMS/AVL	2,360	C	3,741			-	12		
13	-	20/1	LIGHTING - CLASSROOMS	2,480	A	6,485	RTU-7	35/3	-	14		
15	-	20/1	SPARE		B	6,485			-	16		
17	-	20/1	LIGHTING - EM- EAST LOBBY	380	C	6,485			-	18		
19	-	20/1	LIGHTING - EM- CLASSROOM CORR	420	A	6,485	RTU-8	35/3	-	20		
21	-	20/1	SPARE		B	6,485			-	22		
23	-	20/1	SPARE		C	6,485			-	24		
25	-	15/3	CU-1	1,995	A	3,741	RTU-4	20/3	-	26		
27	-			1,995	B	3,741			-	28		
29	-			1,995	C	3,741			-	30		
31	LCP	20/1	PARKING LIGHTING	1,050	A	80	PATIO LIGHTING - SECURITY	20/1	LCP	32		
33	LCP	20/1	PARKING LIGHTING	600	B	260	PATIO LIGHTING	20/1	LCP	34		
35	LCP	20/1	BUILDING LIGHTING - SECURITY	270	C		SPARE	20/1	-	36		
37	LCP	20/1	BUILDING LIGHTING	1,170	A		SPARE	20/1	-	38		
39	LCP	20/1	MECHANICAL YARD LIGHTING	160	B		SPARE	20/1	-	40		
41	LCP	20/1	BOLLARD LIGHTING	120	C		SPARE	20/1	-	42		
NOTES:				PH. A	PH. B	PH. C	TOTAL CONNECTED LOAD			109.6 KVA		
1. PROVIDE INTEGRAL 160KA (PER PHASE) SURGE PROTECTION DEVICE.				39,978	34,198	35,408				137.0 AMPS		
							TOTAL DEMAND LOAD			109.6 KVA		
							TOTAL COMPUTED LOAD			115.8 KVA		
										144.8 AMPS		

PANELBOARD SCHEDULE - LP-D												
PANEL TYPE: SQUARE D TYPE NF					AIC RATING: 22KAIC (MINIMUM)							
VOLTAGE: 277/480V-3P-4W					MOUNTING: SURFACE							
AMPS & TYPE: 400 AMP - MLO					LOCATION: IT/DATA A206							
FED FROM: MSB					FEEDER: SEE EQUIPMENT SCHEDULE - MSB							
CKT NO.	NOTES	BKR	DESCRIPTION	WATTS	PHASE	WATTS	DESCRIPTION	BKR	NOTES	CKT NO.		
1	-	15/3	CU-2	2,242	A	400	LIGHTING - EM - OFFICES	20/1	-	2		
3	-			2,242	B	2,315	LIGHTING - 2ND FLOOR OFFICE	20/1	-	4		
5	-			2,242	C	400	LIGHTING - EM - WEST LOBBY	20/1	-	6		
7	-	40/3	RTU-1	7,732	A	2,310	LIGHTING - OFFICES	20/1	-	8		
9	-			7,732	B	1,600	LIGHTING - CAFE/RESTROOM	20/1	-	10		
11	-			7,732	C	-	-	20/1	-	12		
13	-	35/3	RTU-2	6,485	A	-	-	20/1	-	14		
15	-			6,485	B	-	-	20/1	-	16		
17	-			6,485	C	-	-	20/1	-	18		
19	-	15/3	RTU-3	2,993	A	-	-	20/1	-	20		
21	-			2,993	B	-	-	20/1	-	22		
23	-			2,993	C	-	-	20/1	-	24		
25	-	50/3	RTU-9	9,976	A	-	-	20/1	-	26		
27	-			9,976	B	-	-	20/1	-	28		
29	-			9,976	C	-	-	20/1	-	30		
31	-	80/3	RTU-10	14,964	A	-	-	20/1	-	32		
33	-			14,964	B	-	-	20/1	-	34		
35	-			14,964	C	3,733	ELEVATOR	35/3	DCVCSB	36		
37	-	20/1	SPARE		A	3,733	3#8 & 1#6G - 1" C			38		
39	-	20/1	SPARE		B	3,733				40		
41	-	20/1	SPARE		C		(SHUNT-TRIP)			42		
NOTES:				PH. A	PH. B	PH. C	TOTAL CONNECTED LOAD			151.4 KVA		
1. PROVIDE INTEGRAL 160KA (PER PHASE) SURGE PROTECTION DEVICE.				50,835	52,040	48,525				189.3 AMPS		
							TOTAL DEMAND LOAD			151.4 KVA		
										189.3 AMPS		
							TOTAL COMPUTED LOAD			153.2 KVA		
										191.4 AMPS		