

PANEL 'ELP' SCHEDULE (EQUIPMENT AREA AND MEZZANINE LIGHTING)													
480/277 VOLTS, 3 PHASE, 4 WIRES, SOLID NEUTRAL, GROUND BAR; MAIN LUGS ONLY, 225 AMP BUS PANELBOARD MINIMUM SHORT CIRCUIT RATING 42,000 SYM RMS AMPS													
CKT. NO.	POLE NO.	DESCRIPTION	CONN. KVA	CONN AMPS			BREAKER			NUMBER & WIRE SIZE			CONDUIT SIZE
				A	B	C	P	AF	AT	PHASE	NEUT.	EGC	
1	1	SPARE	-	-	-	-	1	100	20	-	-	-	-
3	3	LIGHTING - MEZZANINE B	0.5	-	1.6	-	1	100	20	*12	*12	*12	¾"
5	5	LIGHTING - ROOMS 102, 103, 104	1.1	-	-	4.1	1	100	20	*12	*12	*12	¾"
7	7	SPARE	-	-	-	-	1	100	20	-	-	-	-
9	9	SPARE	-	-	-	-	1	100	20	-	-	-	-
11	11	SPARE	-	-	-	-	1	100	20	-	-	-	-
13	13	LIGHTING - EQUIPMENT ROOM	5.1	18.4	-	-	1	100	30	*10	*10	*10	¾"
15	15	LIGHTING - EQUIPMENT ROOM	6.2	-	22.4	-	1	100	30	*10	-	-	-
17	17	LIGHTING - BUILDING EXTERIOR SOUTH	0.6	-	-	2.1	1	100	20	*12	*12	*12	¾"
-	19	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	21	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	23	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	25	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	27	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	29	SPACE	-	-	-	-	1	100	-	-	-	-	-
2	2	AREA LIGHTING	1.8	6.3	-	-	1	100	20	*12	*12	*12	¾"
4	4	SPARE	-	-	-	-	1	100	20	-	-	-	-
6	6	45 KVA DRY TRANSFORMER 'T1'	45.0	-	-	54.1	3	100	70	*4	-	*8	1-1/4"
8	8			-	-	-				*4			
10	10			-	-	54.1				*4			
-	12	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	14	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	16	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	18	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	20	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	22	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	24	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	26	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	28	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	30	SPACE	-	-	-	-	1	100	-	-	-	-	-

PANEL 'OLP' SCHEDULE (OFFICE AND MEZZANINE LIGHTING)													
480/277 VOLTS, 3 PHASE, 4 WIRES, SOLID NEUTRAL, GROUND BAR; MAIN LUGS ONLY, 225 AMP BUS PANELBOARD MINIMUM SHORT CIRCUIT RATING 10,000 SYM RMS AMPS													
CKT. NO.	POLE NO.	DESCRIPTION	CONN. KVA	CONN AMPS			BREAKER			NUMBER & WIRE SIZE			CONDUIT SIZE
				A	B	C	P	AF	AT	PHASE	NEUT.	EGC	
1	1	LIGHTING - NORTH FIRST FLOOR OFFICE	3.4	12.2	-	-	1	100	20	*12	*12	*12	¾"
3	3	EMER. LIGHTING - FIRST FLOOR OFFICE	0.6	-	2.3	-	1	100	20	*12	*12	*12	¾"
5	5	LIGHTING - SOUTH FIRST FLOOR OFFICE	1.9	-	-	7.0	1	100	20	*12	*12	*12	¾"
7	7	EMER. LIGHTING - SECOND FLOOR OFFICE	0.3	1.2	-	-	1	100	20	*12	*12	*12	¾"
9	9	LIGHTING - MEZZANINE A	0.9	-	3.2	-	1	100	20	*12	*12	*12	¾"
11	11	SPARE	-	-	-	-	1	100	20	-	-	-	-
13	13	SPARE	-	-	-	-	1	100	20	-	-	-	-
-	15	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	17	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	19	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	21	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	23	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	25	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	27	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	29	SPACE	-	-	-	-	1	100	-	-	-	-	-
2	2	LIGHTING - CONTROL ROOM 105	0.5	1.6	-	-	1	100	20	*12	*12	*12	¾"
4	4	LIGHTING - BUILDING EXTERIOR	1.3	-	4.5	-	1	100	20	*12	*12	*12	¾"
6	6	LIGHTING - 2ND FLOOR OFFICES	2.8	-	-	10.0	1	100	20	*12	*12	*12	¾"
8	8	45 KVA DRY TRANSFORMER 'T2'	45.0	-	-	-	3	100	70	*4	-	*8	1-1/4"
10	10			-	-	-				*4			
12	12			-	-	54.1				*4			
-	14	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	16	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	18	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	20	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	22	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	24	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	26	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	28	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	30	SPACE	-	-	-	-	1	100	-	-	-	-	-

PANEL 'ERP' SCHEDULE													
208/120 VOLTS, 3 PHASE, 4 WIRES, SOLID NEUTRAL, GROUND BAR; 60 AMP MAIN BREAKER, 225 AMP BUS PANELBOARD MINIMUM SHORT CIRCUIT RATING 10,000 SYM RMS AMPS													
CKT. NO.	POLE NO.	DESCRIPTION	CONN. KVA	CONN AMPS			BREAKER			NUMBER & WIRE SIZE			CONDUIT SIZE
				A	B	C	P	AF	AT	PHASE	NEUT.	EGC	
1	1	GFI RECEPTS - ROOM 101	1.6	13.3	-	-	1	100	20	*12	*12	*12	¾"
3	3	GFI RECEPTS - ROOM 101	1.4	-	11.4	-	1	100	20	*12	*12	*12	¾"
5	5	RECEPTS - MEZZANINE B	0.6	-	-	5.0	1	100	20	*12	*12	*12	¾"
7	7	GFI RECEPTS - ROOM 102	0.4	3.3	-	-	1	100	20	*12	*12	*12	¾"
9	9	PUMP P-3 - ROOM 117	0.3	-	2.5	-	1	100	15	*12	*12	*12	¾"
11	11	EF-3 - ROOM 209	0.2	-	-	1.7	1	100	15	*12	*12	*12	¾"
13	13	TVSS REMOTE MONITORING PANEL	1.0	8.3	-	-	1	100	20	*12	*12	*12	¾"
15	15	EF-5 - ROOM 103	0.2	-	1.7	-	1	100	15	*12	*12	*12	¾"
17	17	SPARE	-	-	-	-	1	100	20	-	-	-	-
19	19	MOTORIZED DAMPERS	0.1	1.0	-	-	1	100	15	*12	*12	*12	¾"
21	21	SPARE	-	-	-	-	1	100	15	-	-	-	-
23	23	EF-4 - ROOM 104	0.8	-	-	7.2	1	100	20	*12	*12	*12	¾"
25	25	GFI RECEPT - SUMP PUMP	0.3	7.2	-	-	1	100	20	*12	*12	*12	¾"
27	27	EF-6 - ROOM 102	0.6	-	3.2	-	3	100	15	*12	-	*12	¾"
29	29			-	-	3.2				*12			
31	31			-	-	-				*12			
-	33	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	35	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	37	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	39	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	41	SPACE	-	-	-	-	1	100	-	-	-	-	-
2	2	EF-7 - EQUIPMENT ROOM 101	2.1	6.6	-	-	3	100	15	*12	-	*12	¾"
4	4			-	6.6	-				*12			
6	6			-	-	6.6				*12			
8	8	EF-8 - EQUIPMENT ROOM 101	2.1	6.6	-	-	3	100	15	*12	-	*12	¾"
10	10			-	6.6	-				*12			
12	12			-	-	6.6				*12			
14	14	EF-9 - EQUIPMENT ROOM 101	2.1	6.6	-	-	3	100	15	*12	-	*12	¾"
16	16			-	6.6	-				*12			
18	18			-	-	6.6				*12			
20	20	EF-10 - EQUIPMENT ROOM 101	2.1	6.6	-	-	3	100	15	*12	-	*12	¾"
22	22			-	6.6	-				*12			
24	24			-	-	6.6				*12			
26	26	LIGHTS - STRAINER VAULT	1.0	8.3	-	-	1	100	20	*12	*12	*12	¾"
28	28	RECEPTS - STRAINER VAULT	0.4	-	3.3	-	1	100	20	*12	*12	*12	¾"
30	30	RECEPT - ROOM 209	0.2	-	-	1.7	1	100	20	*12	*12	*12	¾"
-	32	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	34	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	36	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	38	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	40	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	42	SPACE	-	-	-	-	1	100	-	-	-	-	-

PANEL 'EFP' SCHEDULE													
208/120 VOLTS, 3 PHASE, 4 WIRES, SOLID NEUTRAL, GROUND BAR; 50 AMP MAIN BREAKER, 225 AMP BUS													
PANELBOARD MINIMUM SHORT CIRCUIT RATING 10,000 SYM RMS AMPS													
CKT. NO.	POLE NO.	DESCRIPTION	CONN. KVA	CONN AMPS			BREAKER			NUMBER & WIRE SIZE			CONDUIT SIZE
				A	B	C	P	AF	AT	PHASE	NEUT.	EGG	
1	1	CMF UNIT *201	1.0	8.0	---	---	1	100	20	*12			
3	3	CMF UNIT *201 TURBIDITY METER	0.1	---	0.8	---	1	100	20	*12	*12	*12	3/4"
5	5	CMF UNIT *201 PARTICLE COUNTER	0.1	---	---	0.8	1	100	20	*12			
7	7	CMF UNIT *202	1.0	8.0	---	---	1	100	20	*12			
9	9	CMF UNIT *202 TURBIDITY METER	0.1	---	0.8	---	1	100	20	*12	*12	*12	3/4"
11	11	CMF UNIT *202 PARTICLE COUNTER	0.1	---	---	0.8	1	100	20	*12			
13	13	SPARE	-	-	---	---	1	100	20	-	-	-	-
15	15	CMF UNIT *203	1.0	---	8.0	---	1	100	20	*12			
17	17	CMF UNIT *203 TURBIDITY METER	0.1	---	---	0.8	1	100	20	*12	*12	*12	3/4"
19	19	CMF UNIT *203 PARTICLE COUNTER	0.1	0.8	---	---	1	100	20	*12			
21	21	CMF UNIT *204	1.0	---	8.0	---	1	100	20	*12			
23	23	CMF UNIT *204 TURBIDITY METER	0.1	---	---	0.8	1	100	20	*12	*12	*12	3/4"
25	25	CMF UNIT *204 PARTICLE COUNTER	0.1	0.8	---	---	1	100	20	*12			
27	27	SPARE	-	---	-	---	1	100	20	-	-	-	-
29	29	CMF UNIT *205	1.0	---	---	8.0	1	100	20	*12			
31	31	CMF UNIT *205 TURBIDITY METER	0.1	0.8	---	---	1	100	20	*12	*12	*12	3/4"
33	33	CMF UNIT *205 PARTICLE COUNTER	0.1	---	0.8	---	1	100	20	*12			
-	35	SPACE	-	---	---	-	1	100	-	-	-	-	-
-	37	SPACE	-	-	---	---	1	100	-	-	-	-	-
-	39	SPACE	-	---	-	---	1	100	-	-	-	-	-
-	41	SPACE	-	---	-	-	1	100	-	-	-	-	-
2	2	INFLUENT MAG FLOW METER	0.3	2.5	---	---	1	100	20	*12	*12	*12	3/4"
4	4	EFFLUENT MAG FLOW METER	0.3	---	2.5	---	1	100	20	*12	*12	*12	3/4"
6	6	BACKWASH MAG FLOW METER	0.3	---	---	2.5	1	100	20	*12	*12	*12	3/4"
8	8	EFFLUENT pH SENSOR	0.1	0.8	---	---	1	100	20	*12	*12	*12	3/4"
10	10	ACID CONTROL pH SENSOR	0.1	---	0.8	---	1	100	20	*12	*12	*12	3/4"
12	12	WASTE NEUTRALIZATION pH SENSOR	0.1	---	---	0.8	1	100	20	*12	*12	*12	3/4"
14	14	INFLUENT TURBIDITY SENSOR	0.1	0.8	---	---	1	100	20	*12	*12	*12	3/4"
16	16	EFFLUENT TURBIDITY SENSOR	0.1	---	---	---	1	100	20	*12	*12	*12	3/4"
18	18	CIP PNEUMATIC CONTROL PANEL	1.0	---	---	8.0	1	100	20	*12	*12	*12	3/4"
20	20	GFI RECEP.TS - AUTO-DRAIN VALVES	0.1	0.3	---	---	1	100	15	*12	*12	*12	3/4"
22	22	SPARE	-	---	-	---	1	100	20	-	-	-	-
24	24	MASTER PLC - ROOM 105	0.1	---	---	1.0	1	100	20	*12	*12	*12	3/4"
26	26	CTRL PANEL - STRAINER MTR *801	0.8	5.8	---	---	1	100	15	*12	*12	*12	3/4"
28	28	CTRL PANEL - STRAINER MTR *802	0.8	---	5.8	---	1	100	15	*12	*12	*12	3/4"
30	30	SCADA COMPUTER - ROOM 105	0.5	---	---	4.2	1	100	20	*12	*12	*12	3/4"
32	32	SPARE	-	-	---	---	1	100	20	-	-	-	-
-	34	SPACE	-	-	-	---	1	100	-	-	-	-	-
-	36	SPACE	-	-	-	-	1	100	-	-	-	-	-
-	38	SPACE	-	-	-	---	1	100	-	-	-	-	-
-	40	SPACE	-	-	-	---	1	100	-	-	-	-	-
-	42	SPACE	-	-	-	-	1	100	-	-	-	-	-