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PANEL "DP1"

(1)(2)(3)

MOUNTING: SURFACE

SHORT CIRCUIT RATING: 42K AIC

POLES: 42

FED FROM PANEL: PANEL MDP

VOLT: 480/277V, 3Ø, 4W

MAIN BUS AMPS: 225 A

MAIN BREAKER AMPS: MLO

MANUFACTURER/TYPE: SIEMENS, SQ-D, GE

CTKT	LOAD SERVED	POLE	TRIP	WIRE	COND	AMPS 'A'	AMPS 'B'	AMPS 'C'	AMPS 'A'	AMPS 'B'	AMPS 'C'	COND	WIRE	TRIP	POLE	LOAD SERVED	CTKT
1	SUPPLY PROP FAN	3	20	10	3/4"	14.0						3/4"	10	20	3	SUPPLY PROP FAN	2
3	10.0 HP (SF-1)						14.0									10.0 HP (SF-2)	4
5							14.0				14.0						6
7	SUPPLY PROP FAN	3	20	10	3/4"	14.0						3/4"	10	20	3	SUPPLY PROP FAN	8
9	10.0 HP (SF-3)						14.0									10.0 HP (SF-4)	10
11							14.0				14.0						12
13	SPARE	3	20	12	3/4"	11.0						3/4"	12	20	3	EXHAUST FAN (EF-3)	14
15							11.0				11.0					10 HP	16
17								11.0									18
19	EXHAUST FAN (EF-4)	3	20	12	3/4"	11.0						3/4"	12	20	3	EXHAUST FAN (EF-5)	20
21	10 HP						11.0				11.0					10 HP	22
23								11.0									24
25	EXHAUST FAN (EF-6)	3	20	12	3/4"	11.0								20	3	SPARE	26
27	10 HP						11.0										28
29								11.0									30
31	SPARE	3	20											20	3	SPARE	32
33																	34
35																	36
37	SPARE															SPACE	38
39	SPARE															SPACE	40
41	SPARE															SPACE	42

CONNECTED AMPS =

61.061.061.050.050.050.0

TOTAL CONNECTED AMPS =

111.0111.0111.0

92.24 KVA

Note:

(1) MAX3% VD ON BRANCH CIRCUITS AS PER FBC

(2) NEMA 1 ENCLOSURE

(3) SERVICE ENTRANCE RATED

PANEL "ELP2"																	(1)(2)(3)	
MOUNTING: SURFACE SHORT CIRCUIT RATING: 22K AIC POLES: 42 FED FROM PANEL: PANEL 'ELP1'										VOLT: 208/120V 3Ø,4W MAIN BUS AMPS: 225 A MAIN BREAKER AMPS: 225 A MANUFACTURER/TYPE: SIEMENS, SQ-D, GE								
CKT	LOAD SERVED	POLE	TRIP	WIRE	COND	AMPS 'A'	AMPS 'B'	AMPS 'C'	AMPS 'A'	AMPS 'B'	AMPS 'C'	COND	WIRE	TRIP	POLE	LOAD SERVED	CKT	
1	CONTROL RM. RECEPT	1	20	12	3/4"	9.0			9.0			3/4"	12	20	1	CONTROL RM. RECEPT	2	
3	FIRE ALARM PANEL	1	20	12	3/4"		9.0			12.0		3/4"	12	20	1	COMPUTER STATION 4	4	
5	COMPUTER STATION	1	20	12	3/4"			12.0			12.0	3/4"	12	20	1	COMPUTER STATION 4	5	
7	COMPUTER STATION	1	20	12	3/4"	12.0			12.0			3/4"	12	20	1	EMBANKMENT MONIT. 8	7	
9	EMBANKMENT MONIT.	1	20	12	3/4"		12.0			12.0		3/4"	12	20	1	PLC CABINET	10	
11	LAN SWITCH RACK	1	20	12	3/4"			12.0			12.0	3/4"	12	20	1	PLC CABINET	12	
13	LAN SWITCH RACK	1	20	12	3/4"	12.0			12.0			3/4"	12	20	1	SECURITY/UPS RACK	14	
15	TELEPHONE BOARD	1	20	12	3/4"		12.0			12.0		3/4"	12	20	1	SECURITY/UPS RACK	16	
17	SINGLE MD PATCH PNL	1	20	12	3/4"			9.0			9.0	3/4"	12	20	1	MULTI MD. PATCH PNL	18	
19	COMP PHONES	1	20	12	3/4"	9.0			9.0			3/4"	12	20	1	KITCHEN/JAN. RECEPT	20	
21	KITCHEN REFRIGRE	1	20	12	3/4"		9.0			6.0		3/4"	12	20	1	KITCHEN COUNT. REC.	22	
23	KITCHEN COOKTOP	2	30	10	3/4"			24.0			24.0	3/4"	10	30	2	KITCHEN WALL OVEN	24	
25	↓					24.0			24.0						2	KITCHEN WALL OVEN	26	
27	KITCHEN MICROWAVE	1	20	10	3/4"		10.0			3.0		3/4"	12	20	1	BATHROOM RECEPT.	28	
29	MEZZ RECEPTACLES	1	20	10	3/4"			9.0			1.5	3/4"	12	20	2	WORKSHOP AHU-4	30	
31	KITCH. GARBAGE DISP.	1	20	12	3/4"	7.0				1.5					2		32	
33	SPARE	1	20							1.5		3/4"	12	20	2	KITCHEN AHU-3	34	
35	CONTROL RM AHU-1	2	30	12	3/4"			0.8			1.5				2		36	
37	SPARE	1	20			0.8			62.5		62.5	1 1/4"	4	80	2	EW-H1 (13KW)	38	
41	WARNING SIGN LTS (FUT)	1	20	10	1"			3.0							2	SPACE	40	
CONNECTED AMPS =						73.8	52.0	69.8	130.0	109.0	60.0							
TOTAL CONNECTED AMPS =						203.8	161.0	129.8							58.35	KVA		
Note: (1) MAX 3% VD ON BRANCH CIRCUITS AS PER FBC (2) NEMA 1 ENCLOSURE (3) SERVICE ENTRANCE RATED																		

PANEL "DP2"

(1)(2)(3)

MOUNTING: SURFACE
SHORT CIRCUIT RATING: 42K AIC
POLES: 42

VOLT: 480/277V, 3Ø, 4W
MAIN BUS AMPS: 225 A
MAIN BREAKER AMPS: MLO
MANUFACTURER/TYPE: SIEMENS, SQ-D, GE

FED FROM PANEL: PANEL MDP

CKT	LOAD SERVED	POLE	TRIP	WIRE	COND	AMPS 'A'	AMPS 'B'	AMPS 'C'	AMPS 'A'	AMPS 'B'	AMPS 'C'	COND	WIRE	TRIP	POLE	LOAD SERVED	CKT
1	LUB. WATER PUMP	3	20	12	3/4"	4.5			4.5			3/4"	12	20	3	LUB WATER PUMP	2
5	5.0 HP						4.5			4.5						5.0 HP	4
7	LUB. WATER PUMP	3	20	12	3/4"	4.5			4.5		4.5	3/4"	12	20	3	FRESH WATER PUMP	6
9	5.0 HP						4.5			4.5						5.0 HP	8
11								4.5			4.5						10
13	FRESH WATER PUMP	3	20	12	3/4"	4.5			14.0			3/4"	10	20	3	SUPPLY FAN(3 HP)	12
15	5.0 HP						4.5			14.0						(SF-6)	14
17								4.5			14.0						16
19	35 TON HOISTWAY	3	90	3	1 1/2"	52.0			11.0			3/4"	10	20	3	EXHAUST FAN (EF-7)	18
21	32.14 HP						52.0									3 HP	20
23								52.0			11.0						22
25	SPARE	3	20						7.6			3/4"	10	20	3	AIR COMPRESSOR REC	24
27										7.6							26
29											7.6						28
31	SPARE	3	20						7.6			3/4"	10	20	3	AIR COMPRESSOR REC	30
33										7.6							32
35											7.6						34
37	SPACE								7.6			3/4"	10	20	3	AIR COMPRESSOR REC	36
39	SPACE									7.6							38
41	SPACE										7.6						40

CONNECTED AMPS = 65.5 65.5 65.5 56.8 56.8 56.8

TOTAL CONNECTED AMPS = [122.3] [122.3] [122.3]

101.63 KVA

Note: (1) MAX 3% VD ON BRANCH CIRCUITS AS PER FBC
(2) NEMA 1 ENCLOSURE
(3) SERVICE ENTRANCE RATED

PANEL "EDP"

(1)(2)(3)

MOUNTING: SURFACE
SHORT CIRCUIT RATING: 42K AIC
POLES: 42

FED FROM PANEL: PANEL 'MDP' (VIA A.T.S.)

VOLT: 480/277V, 3Ø, 4W
MAIN BUS AMPS: 400 A
MAIN BREAKER AMPS: 350 A
MANUFACTURER/TYPE: SIEMENS, SQ-D, GE

CKT	LOAD SERVED		TRIP	WIRE	COND	AMPS 'A'	AMPS 'B'	AMPS 'C'	AMPS 'A'	AMPS 'B'	AMPS 'C'	COND	WIRE	TRIP	POLE	LOAD SERVED	CKT
1	SUPPLY PROP FAN	3	20	10	3/4"	14.0			11.0			3/4"	10	20	3	EXHAUST FAN (EF-2)	2
3	10.0 HP ↓ (SF-S)						14.0			11.0						5 HP	4
5								14.0			11.0						6
7	S-486 (FUTURE)	3	200		2"				189.4			2"	3/0	225	3	PANEL 'ELP 1' (TRANS)	8
9										159.8						150 KVA TRANSF.	10
11											117.0						12
13	LIGHTING LEVEL 10.0	1	20	10	3/4"	10.0			10.0			3/4"	10	20	1	LIGHTING LEVEL 10.0	14
15	LIGHTING LEVEL 10.0	1	20	10	3/4"		10.0			11.0		3/4"	10	20	1	EXTER WALL PACKS	16
17	PUMP ROOM LIGHTING	1	20	10	3/4"			11.0			11.0	3/4"	10	20	1	PUMP ROOM LIGHTING	18
19	ELEC & MEZZ GEN LTS	1	20	12	3/4"	6.0			5.0			3/4"	10	20	1	GEN SHOP KITCH LTS	20
21	SITE LIGHTING	1	30	6	1"		11.0			25.5		3/4"	8	40	3	HP-1 (12 TON)	22
23	SPACE										25.5						24
25	SPACE								25.5								26
27	SPACE									11.0		3/4"	10	20	3	EXHAUST FAN (EF-1)	28
29	SPACE										11.0					15 HP	30
31	SPACE								11.0								32
33	SPACE																34
35	SITE LIGHTING	1	30	6	1"			11.0									36
37	SPACE																38
39	SPACE																40
41	SPACE																42

CONNECTED AMPS = 30.0 35.0 36.0 251.9 218.3 175.5

TOTAL CONNECTED AMPS = 281.9 253.3 211.5 208.82 KVA

Note: (1) MAX 3% VD ON BRANCH CIRCUITS AS PER FBC
(2) NEMA 1 ENCLOSURE
(3) SERVICE ENTRANCE RATED

PANEL "MOV"

MOUNTING: SURFACE
 SHORT CIRCUIT RATING: 42K AIC
 POLES: 42
 FED FROM PANEL: PANEL MDP

(1)(2)(3)

VOLT: 480/277V, 3Ø, 4W
 MAIN BUS AMPS: 225 A
 MAIN BREAKER AMPS: MLO
 MANUFACTURER/TYPE: SIEMENS, SQ-D, GE

CKT	LOAD SERVED	POLE	TRIP	WIRE	COND	AMPS 'A'	AMPS 'B'	AMPS 'C'	AMPS 'A'	AMPS 'B'	AMPS 'C'	COND	WIRE	TRIP	POLE	LOAD SERVED	CKT
1	P43-1300 MOV 1	3	20											20	3	P43-1300 MOV 2	2
3	(FUTURE)															(FUTURE)	4
5	↓															↓	6
7	P43-1400 MOV 1	3	20											20	3	P43-1400 MOV 2	8
9	(FUTURE)															(FUTURE)	10
11	↓															↓	12
13	P43-1500 MOV 1	3	20											20	3	P43-1500 MOV 2	14
15	(FUTURE)															(FUTURE)	16
17	↓															↓	18
19	P43-1600 MOV 1	3	20											20	3	P43-1600 MOV 2	20
21	(FUTURE)															(FUTURE)	22
23	↓															↓	24
25	SPACE	3	20											20	3	SPACE	26
27	↓															↓	28
29	↓															↓	30
31	SPACE	3													3	SPACE	32
33	↓															↓	34
35	↓															↓	36
37	SPACE														3	SPACE	38
39	SPACE															↓	40
41	SPACE															↓	42
CONNECTED AMPS =						0.0	0.0	0.0	0.0	0.0	0.0						
TOTAL CONNECTED AMPS =						0.0	0.0	0.0							0.00 KVA		

Note: (1) MAX 3% VD ON BRANCH CIRCUITS AS PER FBC
 (2) NEMA 1 ENCLOSURE
 (3) SERVICE ENTRANCE RATED

<div>C43 WEST BASIN RESERVOIR PROJECT S-470 PUMP STATION PANELBOARD SCHEDULES</div> <div>PROJECT ID NO. 100086</div> <div>DRAWING NUMBER E1731</div> <div>SHEET 248 OF 296</div>	<div><div>SOUTH FLORIDA WATER MANAGEMENT DISTRICT OPERATIONS, ENGINEERING & CONSTRUCTION DIVISION ENGINEERING & CONSTRUCTION BUREAU PHONE: 561-686-8800 3301 GUN CLUB ROAD WEST PALM BEACH, FLORIDA 33406</div></div>	ENGINEER: L. SMITH	11-3-17	SPH	B	APPENDUM NO. 5	
		DRAWN: S. HOCKMAN					
		CHECKED: PK PATEL					
		DATE: 10/20/17					
		SCALE: AS SHOWN					
			DATE	DRAWN	REF #	REVISION DESCRIPTION	

"ELP1"	"DP1"	"MDP"
"ELP2"	"DP2"	"EDP"
"ELP3"	"MOV"	"R"
"SWBD"		



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ENGINEER OF RECORD:
LARRY M. SMITH, P.E.
FLORIDA P.E. LICENSE NO.: 45997

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