PANEL: CPH1

SQD MFGR

VOLTAGE: 277 / 480 | 3 PHASE | 4 WIRE | TYPE
MOUNTING: SURFACE | 400 AMP | MAIN CIRCUIT BREAKER | 35,000 AIC

LOAD KVA	LOAD SERVED	WIRE	TRIP	NOTES	CKT NO	A B C	CKT NO	NOTES	TRIP	WIRE	LOAD SERVED	LOAD KVA
1.75	CU-1	12	15		1		2		15	12	CU-2	1.75
1.75		12			3		4			12		1.75
1.75		12			5		6			12		1.75
3.00	FPB 3.1	12	20		7		8		20	12	FPB 3.8	2.00
3.30		12			9		10			12		2.50
3.00		12			11		12			12		2.00
3.00	FPB 3.2	12	20		13		14		20	12	FPB 3.10	3.66
3.30		12			15		16			12		3.66
3.00		12			17		18			12		4.33
4.80	FPB 3.3	10	25		19		20		20	12	FPB 3.12	3.83
2.30	FPB 3.4	12	20		21		22			12		3.83
3.30	FPB 3.5	12	20		23		24			12		4.50
4.30	FPB 3.6	10	25		25		26		20	12	LTG - 911	2.99
2.80	FPB 3.7	12	20		27		28		20		SPARE	0.00
2.80	FPB 3.9	12	20		29		30		20		SPARE	0.00
4.80	FPB 3.11	10	25		31		32		20		SPARE	0.00
2.00	EWH - 134	12	20		33		34		20		SPARE	0.00
0.00	SPARE		20		35		36		20		SPARE	0.00
0.00	SPARE		20		37		38			SR		22.81
0.00	SPARE		20		39		40		175	SR	PANEL "CPL1"	21.56
0.00	SPARE		20		41		42			SR	VIA 112.5 KVA XFMR "CP1"	17.69
51.0					SUB-TOTALS							100.6

LOAD (KVA)	Conn.	D.F.	Dmd	TOTAL LOAD PER PHASE	
LIGHTS	4.0	1.25	5.0	CONNECTED	
HEATING	82.0	1.00	82.0	A = 58.7 KVA	211.8 A
COOLING	10.5	1.00	10.5	B = 48.8 KVA	175.9 A
VENTILATION	0.0	1.00	0.0	C = 44.1 KVA	159.2 A
MOTORS	2.4	1.00	2.4	DEMAND	
KITCHEN	13.5	0.65	8.8	A = 56.6 KVA	204.2 A
REC. (1st 10kVA)	10.0	1.00	10.0	B = 45.9 KVA	165.6 A
REC. (>10kVA)	5.6	0.50	2.8	C = 42.5 KVA	153.5 A
WATER HEATER	0.0	1.00	0.0	DEMAND @ 125%	
MISC.	23.5	1.00	23.5	A = 70.7 KVA	255.3 A
SPARE	0.0	1.00	0.0	B = 57.4 KVA	207.0 A
TOTAL (KVA)	151.6		145.0	C = 53.2 KVA	191.9 A

NOTES:
1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL A.I.C RATING.
2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.
3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.
4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS.
5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.
6. PROVIDE METAL DIRECTORY FRAME.

PANEL: CPL1 — SECTION 1

SQD MFGR

VOLTAGE: 120 / 208 | 3 PHASE | 4 WIRE | TYPE
MOUNTING: SURFACE | 400 AMP | MAIN CIRCUIT BREAKER | 10,000 AIC

LOAD KVA	LOAD SERVED	WIRE	TRIP	NOTES	CKT NO	A B C	CKT NO	NOTES	TRIP	WIRE	LOAD SERVED	LOAD KVA
0.67	FAN F-1	12	20		1		2	9	20	12	FACP (RED BREAKER)	0.50
0.67	FAN F-5	12	20		3		4		20	12	FAN F-3, F-4, F-6, F-7	0.08
0.36	REC - ROOF - 911	12	20		5		6		20	12	REC - 117,121,126,128,132	1.08
1.08	REC - 120	12	20		7		8		20	12	REC - 119	0.72
0.72	REC - 110,111,116	12	20		9		10		20	12	REC - 115	0.72
1.00	VENDING - 124	12	20	7	11		12	7	20	12	VENDING - 124	1.00
1.20	REFRIGERATOR - 124	12	20	7	13		14		20	12	REC - 124	0.36
1.20	MICROWAVE - 124	12	20		15		16	7	20	12	DISHWASHER - 124	1.20
0.36	REC - 124 & "UC1"	12	20		17		18		20	12	REC - 124	0.36
4.00	RANGE - 124	6	50		19		20	8	20	12	REC - 123 & CLNG FAN	1.00
4.00		6			21		22	8	20	12	REC - 122 & CLNG FAN	1.00
0.72	REC - 101,106,112,113	12	20		23		24		20	12	REC - 133 & "UC1"	1.08
1.00	EWC - 109	12	20	7	25		26		20	12	REC - 108	0.90
1.08	REC - 104	12	20		27		28		20	12	COPIER - 103	1.00
1.08	REC - 105	12	20		29		30		20	12	REC - 107	0.72
1.08	REC - 107	12	20		31		32		20	12	REC - EXTERIOR	0.54
0.20	MECHANICAL CONTROLS - 911	12	20		33		34		20	12	RANGE HOOD - 124	0.10
0.20	MECHANICAL CONTROLS - 911	12	20		35		36	7	20	12	DISPOSAL - 124	1.13
0.36	REC - 127 & 129	12	20		37		38		20		SPARE	0.00
0.80	911 DISPATCH TRAIN. - DESK #3	12	20		39		40		20		SPARE	0.00
0.80	911 DISPATCH TRAIN. - DESK #3	12	20		41		42		20		SPARE	0.00
22.6					SUB-TOTALS							13.5

LOAD (KVA)	Conn.	D.F.	Dmd	TOTAL LOAD PER PHASE	
LIGHTS	1.0	1.25	1.3	CONNECTED	
HEATING	6.0	1.00	6.0	A = 22.8 KVA	189.9 A
COOLING	0.0	1.00	0.0	B = 21.6 KVA	179.6 A
VENTILATION	0.0	1.00	0.0	C = 17.7 KVA	147.3 A
MOTORS	2.4	1.00	2.4	DEMAND	
KITCHEN	13.5	0.65	8.8	A = 20.0 KVA	166.3 A
REC. (1st 10kVA)	10.0	1.00	10.0	B = 18.7 KVA	155.6 A
REC. (>10kVA)	5.6	0.50	2.8	C = 16.1 KVA	134.1 A
WATER HEATER	0.0	1.00	0.0	DEMAND @ 125%	
MISC.	23.5	1.00	23.5	A = 25.0 KVA	207.8 A
SPARE	0.0	1.00	0.0	B = 23.4 KVA	194.6 A
TOTAL (KVA)	62.1		54.8	C = 20.1 KVA	167.7 A

NOTES:
1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL A.I.C RATING.
2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.
3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.
4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS.
5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.
6. PROVIDE METAL DIRECTORY FRAME.
7. PROVIDE CLASS A GFI (6mA-PERSONNEL) BRKR (250' MAX).
8. PROVIDE AFI (ARC-FAULT INTERRUPTING) BREAKER.
9. PROVIDE BREAKER WITH HANDLE LOCK-ON DEVICE.
10. PROVIDE FEED-THRU LUGS.
11. LOAD TOTAL INCLUDES FEED-THRU SECTIONS.

PANEL: CPL1 — SECTION 2

SQD MFGR

VOLTAGE: 120 / 208 | 3 PHASE | 4 WIRE | TYPE
MOUNTING: SURFACE | 400 AMP | MAIN LUGS ONLY | 10,000 AIC

LOAD KVA	LOAD SERVED	WIRE	TRIP	NOTES	CKT NO	A B C	CKT NO	NOTES	TRIP	WIRE	LOAD SERVED	LOAD KVA
0.80	911 DISPATCH TRAIN. - DESK #1	12	20		43		44		20	12	911 DISPATCH TRAIN. - DESK #2	0.80
0.80	911 DISPATCH TRAIN. - DESK #1	12	20		45		46		20	12	911 DISPATCH TRAIN. - DESK #2	0.80
0.80	911 DISPATCH - DESK #1	12	20		47		48		20	12	911 DISPATCH - DESK #5	0.80
0.80	911 DISPATCH - DESK #1	12	20		49		50		20	12	911 DISPATCH - DESK #5	0.80
0.80	911 DISPATCH - DESK #2	12	20		51		52		20	12	911 DISPATCH - DESK #6	0.80
0.80	911 DISPATCH - DESK #2	12	20		53		54		20	12	911 DISPATCH - DESK #6	0.80
0.80	911 DISPATCH - DESK #3	12	20		55		56		20	12	911 DISPATCH - DESK #7	0.80
0.80	911 DISPATCH - DESK #3	12	20		57		58		20	12	911 DISPATCH - DESK #7	0.80
0.80	911 DISPATCH - DESK #4	12	20		59		60		20	12	911 DISPATCH - DESK #8	0.80
0.80	911 DISPATCH - DESK #4	12	20		61		62		20	12	911 DISPATCH - DESK #8	0.80
0.50	REC - GEN #1	12	20		63		64		30	10	JACKET HEATER - GEN #1	1.50
0.50	REC - GEN #2	12	20		65		66			10		1.50
0.50	LTG - GEN #1	12	20		67		68		30	10	JACKET HEATER - GEN #2	1.50
0.50	LTG - GEN #2	12	20		69		70			10		1.50
0.50	FUEL TRANSFER PUMP - GEN #1	12	20		71		72		20	12	BATTERY CHARGER - GEN #1	0.50
0.50	FUEL TRANSFER PUMP - GEN #2	12	20		73		74		20	12	BATTERY CHARGER - GEN #2	0.50
0.00	SPARE		20		75		76		20		SPARE	0.00
0.00	SPARE		20		77		78		20		SPARE	0.00
0.00	SPARE		20		79		80		20		SPARE	0.00
0.00	SPARE		20		81		82		20		SPARE	0.00
0.00	SPARE		20		83		84		20		SPARE	0.00
11.0					SUB-TOTALS							15.0

LOAD (KVA)	Conn.	D.F.	Dmd	TOTAL LOAD PER PHASE	
LIGHTS	1.0	1.25	1.3	CONNECTED	
HEATING	6.0	1.00	6.0	A = 9.4 KVA	78.3 A
COOLING	0.0	1.00	0.0	B = 8.8 KVA	73.3 A
VENTILATION	0.0	1.00	0.0	C = 7.8 KVA	65.0 A
MOTORS	1.0	1.00	1.0	DEMAND	
KITCHEN	0.0	0.65	0.0	A = 9.5 KVA	79.3 A
REC. (1st 10kVA)	1.0	1.00	1.0	B = 8.9 KVA	74.3 A
REC. (>10kVA)	0.0	0.50	0.0	C = 7.8 KVA	65.0 A
WATER HEATER	0.0	1.00	0.0	DEMAND @ 125%	
MISC.	17.0	1.00	17.0	A = 11.9 KVA	99.1 A
SPARE	0.0	1.00	0.0	B = 11.2 KVA	92.9 A
TOTAL (KVA)	26.0		26.3	C = 9.8 KVA	81.2 A

NOTES:
1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL A.I.C RATING.
2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.
3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.
4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS.
5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.
6. PROVIDE METAL DIRECTORY FRAME.

PANEL: CPH2

SQD MFGR

VOLTAGE: 277 / 480 | 3 PHASE | 4 WIRE | TYPE
MOUNTING: SURFACE | 400 AMP | MAIN CIRCUIT BREAKER | 35,000 AIC

LOAD KVA	LOAD SERVED	WIRE	TRIP	NOTES	CKT NO	A B C	CKT NO	NOTES	TRIP	WIRE	LOAD SERVED	LOAD KVA
25.13	RTU-1	1	110		1		2		20	12	LTG -EOC & CENTER	1.58
25.13		1			3		4		25	10	FPB 1.8	4.30
25.13		1			5		6			10		4.30
17.45	RTU-2	3	80		7		8		25	10	FPB 1.10	5.46
17.45		3			9		10			10		4.83
17.45		3			11		12			10		4.16
2.50	FPB 1.12	12	20		13		14		25	10	FPB 2.15	4.16
2.50		12			15		16			10		4.80
3.17		12			17		18		20	12	FPB 2.16	2.00
3.80	FPB 1.14	12	20		19		20			12		2.50
0.00	SPARE		20		21		22			12		2.00
0.00	SPARE		20		23		24		20		SPARE	0.00
0.00	SPARE		20		25		26		20		SPARE	0.00
0.00	SPARE		20		27		28		20		SPARE	0.00
0.00	SPARE		20		29		30		20		SPARE	0.00
0.00	SPARE		20		31		32		20		SPARE	0.00
0.00	SPARE		20		33		34		20		SPARE	0.00
0.00	SPARE		20		35		36		20		SPARE	0.00
0.00	SPARE		20		37		38			SR		5.39
0.00	SPARE		20		39		40		125	SR	PANEL "CPL2"	8.34
0.00	SPARE		20		41		42			SR	VIA 75 KVA XFMR "CP2"	7.87
139.7					SUB-TOTALS							61.7

LOAD (KVA)	Conn.	D.F.	Dmd	TOTAL LOAD PER PHASE	
LIGHTS	1.6	1.25	2.0	CONNECTED	
HEATING	50.5	1.00	50.5	A = 68.0 KVA	245.3 A
COOLING	131.4	1.00	131.4	B = 69.3 KVA	250.2 A
VENTILATION	0.0	1.00	0.0	C = 64.1 KVA	231.2 A
MOTORS	1.5	1.00	1.5	DEMAND	
KITCHEN	14.2	0.65	9.2	A = 67.7 KVA	244.3 A
REC. (1st 10kVA)	1.8	1.00	1.8	B = 67.4 KVA	243.0 A
REC. (>10kVA)	0.0	0.50	0.0	C = 61.8 KVA	222.9 A
WATER HEATER	0.0	1.00	0.0	DEMAND @ 125%	
MISC.	0.5	1.00	0.5	A = 84.6 KVA	305.3 A
SPARE	0.0	1.00	0.0	B = 84.2 KVA	303.8 A
TOTAL (KVA)	201.4		196.8	C = 77.2 KVA	278.6 A

NOTES:
1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL A.I.C RATING.
2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.
3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.
4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS.
5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.
6. PROVIDE METAL DIRECTORY FRAME.

PANEL: CPL2

SQD MFGR

VOLTAGE: 120 / 208 | 3 PHASE | 4 WIRE | TYPE
MOUNTING: SURFACE | 225 AMP | MAIN CIRCUIT BREAKER | 10,000 AIC

LOAD KVA	LOAD SERVED	WIRE	TRIP	NOTES	CKT NO	A B C	CKT NO	NOTES	TRIP	WIRE	LOAD SERVED	LOAD KVA
0.00	SPARE		20		1		2		20	12	REC - 051,052,053	1.44
0.91	DSS-1 / ODU-1	12	15		3		4	7	20	12	FREEZER - 053	1.20
0.91		12			5		6	7	20	12	REFRIGERATOR - 053	1.20
0.91	DSS-2 / ODU-2	12	15		7		8		20	12	REC - 053 & "UC1"	0.36
0.91		12			9		10		20	12	REC - 053 & "UC1"	0.36
1.20	DISHWASHER - 053	12	20	7	11		12		20	12	MICROWAVE - 053	1.20
0.36	REC - 053	12	20		13		14		20	12	MICROWAVE - 053	1.20
2.50	DUAL FUEL RANGE - 053	10	30	8	15		16	8	20	12	KSF-1	0.83
2.50		10			17		18				SHUNT TRIP SPACE	
	SHUNT TRIP SPACE				19		20		20	12	KEF-1	0.67
0.50	KITCHEN HOOD KH-1	12	20		21		22	7	20	12	DISPOSAL - 053	1.13
0.36	REC - 044,045	12	20		23		24	7	20	12	ICE MAKER - 053	0.50
0.20	MECHANICAL CONTROLS - MAIN	12	20		25		26		20	12	ANSUL FIRE SUPPRESSION - 053	0.25
0.00	SPARE		20		27		28		20		SPARE	0.00
0.00	SPARE		20		29		30		20		SPARE	0.00
0.00	SPARE		20		31		32		20		SPARE	0.00
0.00	SPARE		20		33		34		20		SPARE	0.00
0.00	SPARE		20		35		36		20		SPARE	0.00
0.00	SPARE		20		37		38		20		SPARE	0.00
0.00	SPARE		20		39		40		20		SPARE	0.00
0.00	SPARE		20		41		42		20		SPARE	0.00
11.3					SUB-TOTALS							10.3

LOAD (KVA)	Conn.	D.F.	Dmd	TOTAL LOAD PER PHASE	
LIGHTS	0.0	1.25	0.0	CONNECTED	
HEATING	0.0	1.00	0.0	A = 5.4 KVA	44.9 A
COOLING	3.6	1.00	3.6	B = 8.3 KVA	69.4 A
VENTILATION	0.0	1.00	0.0	C = 7.9 KVA	65.5 A
MOTORS	1.5	1.00	1.5	DEMAND	
KITCHEN	14.2	0.65	9.2	A = 4.7 KVA	39.3 A
REC. (1st 10kVA)	1.8	1.00	1.8	B = 6.3 KVA	52.8 A
REC. (>10kVA)	0.0	0.50	0.0	C = 5.6 KVA	46.3 A
WATER HEATER	0.0	1.00	0.0	DEMAND @ 125%	
MISC.	0.5	1.00	0.5	A = 5.9 KVA	49.1 A
SPARE	0.0	1.00	0.0	B = 7.9 KVA	66.0 A
TOTAL (KVA)	21.6		16.6	C = 7.0 KVA	57.9 A

NOTES:
1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL A.I.C RATING.
2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.
3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.
4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS.
5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.
6. PROVIDE METAL DIRECTORY FRAME.
7. PROVIDE CLASS A GFI (6mA-PERSONNEL) BRKR (250' MAX).
8. PROVIDE BREAKER WITH SHUNT TRIP.

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CLINTON, NORTH CAROLINA

CONSTRUCTION DOCUMENTS

ELECTRICAL PANEL SCHEDULES

DATE 12.04.2020
PROJECT NO 20003
REVISIONS
NUM. DATE DESCRIPTION:

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