



SAMPSON COUNTY 911 & ES FACILITIES

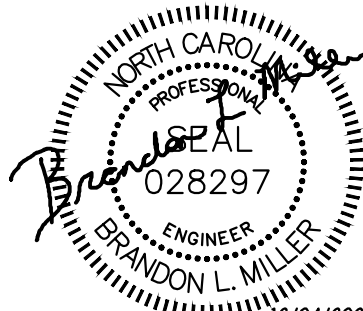
CLINTON,
NORTH CAROLINA

CONSTRUCTION
DOCUMENTS

ELECTRICAL PANEL
SCHEDULES

DATE 12.04.2020
PROJECT NO 20003
REVISIONS
NUM. DATE DESCRIPTION:

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SEAL

12/04/2020

E803

SHEET NUMBER

SWBD: MSB											SQD MFG
VOLTAGE: 277 / 480			3 PHASE			4 WIRE			TYPE		
MOUNTING: FLOOR			2000 AMP			MAIN CIRCUIT BREAKER			65,000 AIC		
MAIN CB NOTES: 6,7,10											
CKT / ID	LOAD SERVED	BREAKER			FEEDER			NOTES		LOAD KVA	
		FRAME	TRIP	POLE							
1	PANEL "CPH1"	400	400	3	SEE RISER			6		151.6	
2	PANEL "CPH2"	400	400	3	SEE RISER			6		201.4	
3	PANEL "NPH2"	400	400	3	SEE RISER			6		197.5	
4	PANEL "NPH3"	400	400	3	SEE RISER			6, 10		123.9	
5	UPS-1 INPUT (UPSA & UPSB VIA PDU-1)	400	250	3	SEE RISER			6, 10		79.6	
6	UPS-1 BYPASS	400	250	3	SEE RISER			6		0.0	
7	UPS-2 INPUT (UPSC VIA PDU-2)	200	100	3	SEE RISER			6, 10		22.8	
8	UPS-2 BYPASS	200	100	3	SEE RISER					0.0	
9	RTU-3	100	80	3	4#3.1#8 G 1-1/4" C					52.4	
10	RTU-4	100	80	3	4#3.1#8 G 1-1/4" C					52.4	
11	AC-1	100	80	3	4#3.1#8 G 1-1/4" C					49.8	
12	AC-2	100	80	3	4#3.1#8 G 1-1/4" C					49.8	
13	SPARE	250	250	3						0.0	
14	SPARE	250	250	3						0.0	
15	SPARE	250	250	3						0.0	
16	SFD	100	60	3						0.0	
17											
18											
19											
20											
21											
TOTAL (CONNECTED)											981
NOTES:											
1. THIS SWBD SHALL BE U/L LISTED FOR USE AS S.E. EQUIP.											
2. ALL BRKR'S SHALL BE FULLY RATED - NO SERIES RATINGS.											
3. ALL BUSSING, INCL. GND AND NEUTRAL, SHALL BE COPPER.											
4. ALL INCOMING BUS & BRKR LUGS SHALL MATCH FEEDERS.											
5. PROVIDE WITH TYPE 2 SPD (120KA MODE, 240KA IPH SE MN).											
6. PROVIDE BRKR WITH ADJUSTABLE L3 & GFF TRIP FUNCTIONS.											
7. BREAKER SHALL INCL. REDUCED ENERGY LET THRU (REL.T)											
8. PROVIDE SWBD WITH POWER METER, SO-D HM20 OR EQUAL.											
9. PROVIDE METER WITH NETWORK INTERFACE CARD (NIC).											
10. PROVIDE SHUNT-TRIP BREAKER											
LOAD (KVA)		Conn	D.F	Dmtd	TOTAL LOAD PER PHASE:						
LIGHTS		22.8	1.25	28.5	CONNECTED						
HEATING		249.0	1.00	249.0	A =	351.8 KVA	1259.6 A				
COOLING		361.4	1.00	361.4	B =	319.2 KVA	1151.9 A				
VENTILATION		0.0	1.00	0.0	C =	309.8 KVA	1117.8 A				
MOTORS		67.3	1.00	67.3	DEMAND						
KITCHEN		27.8	0.65	19.0	A =	338.4 KVA	1221.2 A				
REC. (1st 10kVA)		10.0	1.00	10.0	B =	303.4 KVA	1094.8 A				
REC. (>10kVA)		83.4	0.50	41.7	C =	293.3 KVA	1058.3 A				
WATER HEATER		5.3	1.00	5.3	DEMAND @ 125%						
MISC		153.1	1.00	153.1	A =	423.0 KVA	1526.5 A				
SPARE		0.9	1.00	0.9	B =	379.2 KVA	1368.5 A				
TOTAL (KVA)		980.8		935.1	C =	366.6 KVA	1322.9 A				

PANEL: UPSA												SQD MFG
VOLTAGE: 120 / 208				3 PHASE				4 WIRE				TYPE
MOUNTING: SURFACE				200 AMP				MAIN CIRCUIT BREAKER				22,000 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	1	1	2	20	12	911 DISPATCH - DESK #1	0.80		0.80
0.80	911 DISPATCH TRAIN - DESK #1	12	20	3	2	4	20	12	911 DISPATCH - DESK #2	0.80		0.80
0.80	911 DISPATCH TRAIN - DESK #2	12	20	5	3	6	20	12	911 DISPATCH - DESK #2	0.80		0.80
0.80	911 DISPATCH - DESK #5	12	20	7	4	8	20	12	911 DISPATCH - DESK #3	0.80		0.80
0.80	911 DISPATCH - DESK #6	12	20	9	5	10	20	12	911 DISPATCH - DESK #4	0.80		0.80
0.80	911 DISPATCH - DESK #6	12	20	11	6	12	20	12	911 DISPATCH - DESK #4	0.80		0.80
0.80	911 DISPATCH - DESK #7	12	20	13	7	14	20	12	PRE-ACTION AIR COMPRESSOR	1.84		1.84
0.80	911 DISPATCH - DESK #8	12	20	15	8	16	20	12	CLEAN AGENT CONTROL PANEL	0.25		0.25
0.80	911 DISPATCH - DESK #8	12	20	17	9	18	20	12	PRE-ACTION CONTROL PANEL	0.25		0.25
0.80	911 DISPATCH TRAIN - DESK #3	12	20	19	10	20	20	12	EPO CONTROL PANEL	0.50		0.50
0.80	911 DISPATCH TRAIN - DESK #3	12	20	21	11	22	20	12	UPS ANNUNCIATOR	0.50		0.50
0.00	SPARE	20	23	12	23	24	20	SPARE				0.00
0.00	SPARE	20	25	13	25	26	20	SPARE				0.00
0.00	SPARE	20	27	14	27	28	20	SPARE				0.00
0.00	SPARE	20	29	15	29	30	20	SPARE				0.00
0.00	SPARE	20	31	16	31	32	20	SPARE				0.00
0.00	SPARE	20	33	17	33	34	20	SPARE				0.00
0.00	SPARE	20	35	18	35	36	20	SPARE				0.00
0.00	SPARE	20	37	19	37	38	20	SPARE				0.00
0.00	SPARE	20	39	20	39	40	20	SPARE				0.00
0.00	SPARE	20	41	21	41	42	20	SPARE				0.00
8.8	SUB-TOTALS											8.1
LOAD (KVA)	Conn.	D.F	Dmtd	TOTAL LOAD PER PHASE				NOTES				
LIGHTS	0.0	1.25	0.0	CONNECTED				1. BREAKER FRAME SHALL BE AS READ PER PANEL AIC RATING				
HEATING	0.0	1.00	0.0	A =	7.1 KVA	59.5 A		2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED				
COOLING	0.0	1.00	0.0	B =	5.6 KVA	46.2 A		3. ALL BUSSING, INL. GND AND NEUTRAL, SHALL BE COPPER				
VENTILATION	0.0	1.00	0.0	C =	4.3 KVA	35.4 A		4. ALL INCOMING PANEL A BRR LOGS SHALL MATCH TO THE FEEDERS				
MOTORS	1.8	1.00	1.8	DEMAND				5. PROVIDE HINGED DOOR IN DOOR WITH OUTER DOOR LOCK				
KITCHEN	0.0	0.65	0.0	A =	7.1 KVA	59.5 A		6. PROVIDE MECHANICAL DIRECTORY FRAME				
REC. (1st 10KVA)	0.0	1.00	0.0	B =	5.6 KVA	46.2 A						
REC. (>10KVA)	0.0	0.50	0.0	C =	4.3 KVA	35.4 A						
WATER HEATER	0.0	1.00	0.0	DEMAND @ 125%								
MISC.	15.1	1.00	15.1	A =	6.9 KVA	74.3 A						
SPARE	0.0	1.00	0.0	B =	6.9 KVA	57.8 A						
TOTAL (KVA)	16.9	16.9	C =	5.3 KVA	44.2 A							

PANEL: UPSB												SQD MFG
VOLTAGE: 120 / 208				3 PHASE				4 WIRE				TYPE
MOUNTING: SURFACE				200 AMP				MAIN CIRCUIT BREAKER				22,000 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	1	1	2	20	12	911 DISPATCH - DESK #1	0.80		0.80
0.80	911 DISPATCH TRAIN - DESK #2	12	20	3	2	4	20	12	911 DISPATCH - DESK #1	0.80		0.80
0.80	911 DISPATCH TRAIN - DESK #2	12	20	5	3	6	20	12	911 DISPATCH - DESK #2	0.80		0.80
0.80	911 DISPATCH - DESK #5	12	20	7	4	8	20	12	911 DISPATCH - DESK #3	0.80		0.80
0.80	911 DISPATCH - DESK #5	12	20	9	5	10	20	12	911 DISPATCH - DESK #3	0.80		0.80
0.80	911 DISPATCH - DESK #6	12	20	11	6	12	20	12	911 DISPATCH - DESK #4	0.80		0.80
0.80	911 DISPATCH - DESK #7	12	20	13	7	14	20	12	TVS - 911 DISPATCH	1.08		1.08
0.80	911 DISPATCH - DESK #7	12	20	15	8	16	20	12	TVS - 911 DISPATCH	1.08		1.08
0.80	911 DISPATCH - DESK #8	12	20	17	9	18	20	12	TVS - 911 DISPATCH TRAINING	0.72		0.72
0.80	911 DISPATCH TRAIN - DESK #3	12	20	19	10	20	12	REC - SERVER/IT ROOM	0.54		0.54	
0.20	MECHANICAL CONTROLS - 911	12	20	21	11	22	20	12	LEAK DETECTION PANEL	0.20		0.20
0.00	SPARE	20	23	24	12	24	20	12	SECURITY CONTROLS - 911	0.50		0.50
0.00	SPARE	20	25	26	13	26	20	12	SECURITY CONTROLS - 911	0.50		0.50
0.00	SPARE	20	27	28	14	28	20	SPARE	SPARE	0.00		0.00
0.00	SPARE	20	29	30	15	30	20	SPARE	SPARE	0.00		0.00
0.00	SPARE	20	31	32	16	32	20	SPARE	SPARE	0.00		0.00
0.00	SPARE	20	33	34	17	34	20	SPARE	SPARE	0.00		0.00
0.00	SPARE	20	35	36	18	36	20	SPARE	SPARE	0.00		0.00
0.00	SPARE	20	37	38	19	38	20	SPARE	SPARE	0.00		0.00
0.00	SPARE	20	39	40	20	40	20	SPARE	SPARE	0.00		0.00
0.00	SPARE	20	41	42	21	42	20	SPARE	SPARE	0.00		0.00
SUB-TOTALS												9.4
8.2												9.4
LOAD (KVA)	Comm	D.F	Omga	TOTAL LOAD PER PHASE				NOTES				
LIGHTS	0	1.25	0.0	CONNECTED				1. BREAKER FRAME SHALL BE AS REQD PER PANEL AIC RATING				
HEATING	0	1.00	0.0	A =	6.9 KVA	57.6 A		2. SHALL BE FULLY RATED - SERIES RATED NOT ALLOWED				
COOLING	0	1.00	0.0	B =	5.5 KVA	45.6 A		3. ALL BUSING, INCL GND AND NEUTRAL, SHALL BE COPPER				
VENTILATION	0	1.00	0.0	C =	5.2 KVA	43.5 A		4. ALL INCOMING PANEL & BRR LUGS SHALL BE WITH FEEDERS				
MOTORS	0	1.00	0.0	DEMAND				5. PROVIDE HINGED DOOR IN DOOR WITH OUTER DOOR LOCK				
KITCHEN	0	0.65	0.0	A =	6.9 KVA	57.6 A		6. PROVIDE METAL DIRECTIONARY				
REC (1st 10KVA)	3.4	1.00	1.0	B =	5.5 KVA	45.6 A						
REC (>10KVA)	0	0.50	0.0	C =	5.2 KVA	43.5 A						
WATER HEATER	0	1.00	0.0	DEMAND @ 125%								
MISC	14.2	1.00	14.2	A =	6.7 KVA	72.0 A						
SPARE	0.0	1.00	0.0	B =	6.9 KVA	57.0 A						
	0.0	1.00	0.0	C =	6.5 KVA	54.3 A						
TOTAL (KVA)	17.6	17.6	17.6									