



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

SHEET NUMBER **E805**

PANEL: NPH2										SECTION 1		SQD MFR			
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	
2.83	FPB 1.1	12			1	●	●	●	2		20	12	LTG - NORTH & WEST	2.83	
2.83		12	20	3	●	●	●	4		20	12	LTG - CENTER	1.18		
3.50		12			5	●	●	●	6		20	12	LTG - SOUTH & EAST	2.60	
2.60	FPB 1.2	12			7	●	●	●	8		7	20	12	LTG - EXTERIOR EOC/EMS	1.50
2.83		12	20	9	●	●	●	10		7	20	12	LTG - EXTERIOR 911	0.55	
3.33		12			11	●	●	●	12		7	20	10	LTG - SITE NORTH	1.13
2.16	FPB 1.4	12			13	●	●	●	14		7	20	10	LTG - SITE SOUTH	0.94
2.83		12	20	15	●	●	●	16		20	12	LCP1	0.50		
2.16		12			17	●	●	●	18		20		SPARE	0.00	
2.16	FPB 1.5	12			19	●	●	●	20		20		SPARE	0.00	
2.83		12	20	21	●	●	●	22		20		SPARE	0.00		
2.16		12			23	●	●	●	24		20		SPARE	0.00	
2.83	FPB 1.11	12			25	●	●	●	26		20		SPARE	0.00	
2.16		12	20	27	●	●	●	28		20		SPARE	0.00		
2.83		12			29	●	●	●	30		20		SPARE	0.00	
3.30	FPB 1.3	12	20		31	●	●	●	32		20		SPARE	0.00	
4.30	FPB 1.6	10	25		33	●	●	●	34		20		SPARE	0.00	
4.30	FPB 1.7	10	25		35	●	●	●	36		20		SPARE	0.00	
5.50	FPB 1.9	10	30		37	●	●	●	38			SR		25.84	
4.90	FPB 1.13	10	25		39	●	●	●	40		175	SR	PANEL "NPL2"	22.03	
4.50	WH3	10	30		41	●	●	●	42			SR	VIA 112.5 KVA XFMR "NP2"	20.82	
65.8													SUB-TOTALS	79.7	
LOAD (KVA) Conn. D.F. Dm'd TOTAL LOAD PER PHASE NOTES															
LIGHTS	113.2	1.00	113.2	A =	74.6 KVA	259.3 A				1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING					
HEATING	0.0	1.00	0.0	B =	60.0 KVA	216.4 A				2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED					
COOLING	0.0	1.00	0.0	C =	62.9 KVA	226.9 A				3. ALL BUSSING, INCL. GND AND NEUTRAL, SHALL BE COPPER					
VENTILATION	1.6	1.00	1.6							4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS					
MOTORS	0.0	0.65	0.0							5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK					
KITCHEN	10.0	1.00	10.0	A =	69.8 KVA	251.9 A				6. PROVIDE METAL DIRECTORY FRAME					
REC. (1st 10KVA)	39.3	0.50	19.6	C =	56.7 KVA	204.6 A				7. CIRCUIT CONTROLLED VIA "LCP1"					
WATER HEATER	5.0	1.00	5.0			DEMAND @ 12.5%				8. PROVIDE FEED-THRU LUGS					
MISC.	17.0	1.00	17.0	A =	87.3 KVA	314.5 A				9. LOAD TOTAL INCLUDES FEED-THRU SECTIONS					
MISC.	0.9	1.00	0.9	B =	67.4 KVA	243.3 A									
SPARE				C =	70.9 KVA	255.7 A									
TOTAL (KVA)	197.5		180.5												

PANEL: NPL2										SECTION 1			SQD MFR			
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		
1.26	REC - 001.001.003 & EXTERIOR	12	20		1	●	●	●	2		20	12	REC - 005	1.44		
1.44	REC - 008	12	20		3	●	●	●	4		20	12	POSTAL MACHINE - 005	1.00		
1.44	REC - 009	12	20		5	●	●	●	6		20	12	REC - 019	1.26		
0.90	REC - 005.007.010 & "UC1"	12	20		7	●	●	●	8		20	12	REC - 011	1.26		
1.44	REC - 011	12	20		9	●	●	●	10		20	12	REC - 012	1.44		
1.26	REC - 013	12	20		11	●	●	●	12		20	12	REC - 014 & EXTERIOR	1.26		
1.08	REC - 015	12	20		13	●	●	●	14		20	12	REC - 015	1.08		
1.26	REC - 036	12	20		15	●	●	●	16		20	12	REC - 038	1.44		
0.90	REC - 043	12	20		17	●	●	●	18		20	12	REC - 047 & EXTERIOR	1.08		
0.90	REC - 048	12	20		19	●	●	●	20		20	12	REC - 041.050	0.72		
0.90	REC - 017	12	20		21	●	●	●	22		20	12	REC - 035.037	0.72		
1.26	REC - 039	12	20		23	●	●	●	24		20	12	REC - 040 & "UC1"	0.54		
1.00	COPIER - 040	12	20		25	●	●	●	26	7	20	12	EWG - 028	1.00		
0.90	REC - 029.030	12	20		27	●	●	●	28		20	12	REC - 032.033	0.90		
0.72	REC - 004.016	12	20		29	●	●	●	30		20	12	REC - 020	0.90		
1.20	SMART BOARDS - 020	12	20		31	●	●	●	32		20	12	REC - 020	1.08		
1.08	REC - 020 (FLOORBOX)	12	20		33	●	●	●	34		20	12	REC - 020 (FLOORBOX)	1.08		
1.08	REC - 020 (FLOORBOX)	12	20		35	●	●	●	36		20	12	REC - 023	1.08		
1.08	REC - 021	12	20		37	●	●	●	38		20	12	REC - 022	1.00		
1.00	REC - 022	12	20		39	●	●	●	40		20	12	REC - 022	1.00		
0.72	REC - 024.025.026	10	30		41	●	●	●	42		20	12	REC - 056.061.062.064	0.90		
22.8					SUB-TOTALS									21.2		
LOAD (KVA) Conn. D.F. Dm'd TOTAL LOAD PER PHASE NOTES																
LIGHTS	0.0	1.25	0.0		CONNECTED										1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING	
HEATING	0.0	1.00	0.0	A =	25.8 KVA	215.1 A									2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED	
COOLING	0.0	1.00	0.0	B =	22.0 KVA	183.5 A									3. ALL BUSSING, INCL. GND AND NEUTRAL, SHALL BE COPPER	
VENTILATION	0.0	1.00	0.0	C =	20.8 KVA	173.4 A									4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS	
MOTORS	0.0	0.65	0.0		DEMAND										5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK	
KITCHEN	0.0	0.65	0.0	A =	19.8 KVA	164.6 A									6. PROVIDE METAL DIRECTORY FRAME	
REC. (1st 10KVA)	10.0	1.00	10.0	B =	15.6 KVA	129.7 A									7. PROVIDE CLASS A GFI (60A-PERSONNEL) BRKR (250V MAX)	
WATER HEATER	0.5	1.00	0.5		C =	13.7 KVA	114.2 A									8. PROVIDE AFI (ARC-FAULT INTERRUPTING) BREAKER
MISC.	16.5	1.00	16.5		DEMAND @ 125%										9. PROVIDE FEED-THRU LUGS	
SPARE	0.9	1.00	0.9	B =	19.5 KVA	162.1 A									10. LOAD TOTAL INCLUDES FEED-THRU SECTIONS	
TOTAL (KVA)	68.7		49.1	C =	17.1 KVA	142.8 A										

PANEL: NPH3															SQD MFR			
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				
5.09		10			1	●			2		20	12	LTG - 201	2.71				
1.13	RTU-5	10	30		3	●			4		20	12	LTG - 202 - 208	1.31				
5.09		10			5	●			6		20	12	LTG - 209	2.71				
2.90		12			7	●			8		20		SPARE	0.00				
2.90	AIR COMPRESSOR - 202	12	20		9	●			10		20		SPARE	0.00				
2.90	7.5 HP	12			11	●			12		20		SPARE	0.00				
0.70		12			13	●			14		20		SPARE	0.00				
0.70	HVLS FAN RF-1	12	20	7	15	●			16		20		SPARE	0.00				
0.70		12			17	●			18		20		SPARE	0.00				
0.70		12			19	●			20		20		SPARE	0.00				
0.70	HVLS FAN RF-2	12	20	7	21	●			22		20		SPARE	0.00				
0.70		12			23	●			24		20		SPARE	0.00				
0.70		12			25	●			26		20		SPARE	0.00				
0.70	HVLS FAN RF-3	12	20	7	27	●			28		20		SPARE	0.00				
0.70		12			29	●			30		20		SPARE	0.00				
0.70		12			31	●			32		20		SPARE	0.00				
0.70	HVLS FAN RF-4	12	20	7	33	●			34		20		SPARE	0.00				
0.70		12			35	●			36		20		SPARE	0.00				
0.00	SPARE				37				38		175	SR	PANEL "NPL3"	30.29				
0.00	SPARE				39				40		SR		VIA 112.5 KVA XFMR "NP3"	26.70				
0.00	SPARE				41				42		SR			26.70				
32.4													SUB-TOTALS	91.5				
LOAD (KVA) Conn. D.F. Dm'd TOTAL LOAD PER PHASE NOTES:																		
HEATING	6.7	1.25	8.4	A = 43.3 KVA 158.0 A											1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING			
LIGHTS	3.2	1.00	3.2	B = 39.9 KVA 143.9 A											2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED			
COOLING	15.3	1.00	15.3	C = 40.2 KVA 143.9 A											3. ALL BUSSING, INCL. GND AND NEUTRAL, SHALL BE COPPER			
VENTILATION	0.0	1.00	0.0	C = 42.9 KVA 145.0 A											4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS			
MOTORS	60.0	1.00	60.0	DEMAND											5. PROVIDE HINGED DOOR IN DOOR WITH OUTER DOOR LOCK			
KITCHEN	0.0	0.65	0.0	A = 44.3 KVA 159.8 A											6. PROVIDE METAL DIRECTORY FRAME			
REC. (1st 10KVA)	10.0	1.00	10.0	B = 40.1 KVA 144.6 A											7. BREAKER AND CIRCUIT IS IN PART OF ALTERNATE#3.			
REC. (>10KVA)	1.2	0.50	0.6	C = 40.6 KVA 146.4 A														
WATER HEATER	0.3	1.00	0.3	DEMAND @ 125%														
MISC.	27.2	1.00	27.2	A = 55.4 KVA 198.8 A														
SPARE	0.0	1.00	0.0	B = 50.1 KVA 180.7 A														
TOTAL (KVA)	123.3		124.9	C = 50.7 KVA 183.0 A														