PANELBOARD SCHEDULE `4NHDA`

BUS KVA A	BUS KVA B	BUS KVA C	LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA A	BUS KVA B	BUS KVA C
2.4				-		1	2		-		24		
	2.8		PANEL '4NHA'	3	100	3	4	225	3	PANEL '4MHA'		22	
		1.5		-		5	6		-				22
				-		7	8		-		16.6		
			PANEL '4NLA' VIA '4NTA'	3	125	9	10	125	3	PANEL '4DLA' VIA '4DTA'		13	
				-		11	12		-				12.6
				-		13	14		-		-		
	-		SPACE	3	-	15	16	-	3	SPACE		-	
		-		-		17	18		-				-
-				-		19	20		-		-		
	-		SPACE	3	-	21	22	-	3	SPACE		-	
		-		-		23	24		-				-
-				-		25	26		-		-		
	-		SPACE	3	-	27	28	-	3	SPACE		-	
		-		-		29	30		-				-
-				-		31	32		-		-		
	-		SPACE	3	-	33	34	-	3	SPACE			
		-		-		35	36		-				
-				-		37	38		-		0		
	-		SPACE	3	-	39	40	30	3	SPD-2		0	
		-		-		41	42		-				0

RATED VOLTAGE: 480/277V — 3 PHASE, 4 WIRE — FEED IS TO BE ( ) BOTTOM (X) TOP FROM 'MDP'
RATINGS IS TO BE 400 AMPS — GROUND BAR IS REQUIRED
MAIN PROTECTION: 400 AMP MAIN BREAKER — NEUTRAL BUS IS TO BE (X) FULL ( ) DOUBLE SIZE
BRANCH POLES: 42 — HINGED DOOR WITH KEYED LATCH (X) IS ( ) IS NOT REQUIRED
PANELBOARD IS TO BE ( )FUSED (X)BOLT IN CB TYPE — HARD WIRED SURGE PROTECTION (X) IS ( ) IS NOT REQUIRED
ALL BREAKERS RATED: 42,000 AMPS, SYM RMS

CONNECTED LOAD: 117 kva

I = 116900 VA / 480* √3 = 140.6 A — SPARE

PANELBOARD SCHEDULE `4NHA`

BUS KVA A	BUS KVA B	BUS KVA C	LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA A	BUS KVA B	BUS KVA C
0.4			LIGHTING	1	20	1	2	20	1	LIGHTING	0.4		
	0.4		LIGHTING	1	20	3	4	20	1	LIGHTING		0.4	
		0.4	LIGHTING	1	20	5	6	20	1	LIGHTING			0.4
0.4			LIGHTING	1	20	7	8	20	1	LIGHTING	0.4		
			SPARE	1	20	9	10	20	1	LIGHTING		0.4	
			SPARE	1	20	11	12	20	1	LIGHTING			0.4
			SPARE	1	20	13	14	20	1	LIGHTING	0.4		
	0.3		LIGHTING	1	20	15	16	20	1	LIGHTING		0.2	
			SPARE	1	20	17	18	20	1	LIGHTING			0.3
			SPARE	1	20	19	20	20	1	LIGHTING CORRIDOR	0.4		
			SPARE	1	20	21	22	20	1	LIGHTING CORRIDOR		1.1	
			SPARE	1	20	23	24	20	1	SPARE			
			SPARE	1	20	25	26	20	1	SPARE			
			SPARE	1	20	27	28	20	1	SPARE			
			SPARE	1	20	29	30	20	1	SPARE			
			SPACE			31	32			SPACE			
			SPACE			33	34			SPACE			
			SPACE			35	36			SPACE			
			SPACE			37	38		-		0		
			SPACE			39	40	30	3	SPD-2		0	
			SPACE			41	42		-				0

RATED VOLTAGE: 480/277V — 3 PHASE, 4 WIRE — FEED IS TO BE ( ) BOTTOM (X) TOP FROM '4NHDA'
RATINGS IS TO BE 100 AMPS — GROUND BAR IS REQUIRED
MAIN PROTECTION: 100 AMP MAIN BREAKER — NEUTRAL BUS IS TO BE (X) FULL ( ) DOUBLE SIZE
BRANCH POLES: 42 — HINGED DOOR WITH KEYED LATCH (X) IS ( ) IS NOT REQUIRED
PANELBOARD IS TO BE ( )FUSED (X)BOLT IN CB TYPE — HARD WIRED SURGE PROTECTION (X) IS ( ) IS NOT REQUIRED
ALL BREAKERS RATED: 42,000 AMPS, SYM RMS

CONNECTED LOAD: 7 kva

I = 6700 VA / 480* √3 = 8.1 A — SPARE

PANELBOARD SCHEDULE `4MHA`

BUS KVA A	BUS KVA B	BUS KVA C	LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA A	BUS KVA B	BUS KVA C
11				-		1	2	20	1	TB 4-1	1.0		
	11		AHU-4 (15 HP)	3	80	3	4	20	1	TB 4-2		2.0	
		11		-		5	6	20	1	TB 4-3			2.0
				-		7	8	20	1	TB 4-4	2.0		
			SPARE	3	20	9	10	20	1	TB 4-5		2.0	
				-		11	12	20	1	TB 4-6			2.0
				-		13	14	20	1	TB 4-7	2.0		
			SPARE	3	15	15	16	20	1	TB 4-8		2.0	
				-		17	18	20	1	TB 4-9			2.0
2			TB 4-16	1	20	19	20	20	1	TB 4-10	2.0		
	2		TB 4-17	1	20	21	22	20	1	TB 4-11		1.0	
		1	TB 4-18	1	20	23	24	20	1	TB 4-12			2.0
2			TB 4-19	1	20	25	26	20	1	TB 4-13	2.0		
			SPARE	1	20	27	28	20	1	TB 4-14			2.0
			SPARE	1	20	29	30	20	1	TB 4-15		0	
			SPARE	1	20	31	32	20	1	SPARE			
			SPARE	1	20	33	34	20	1	SPARE			
			SPACE			35	36			SPACE			
			SPACE			37	38		-		0		
			SPACE			39	40	30	3	SPD-2		0	
			SPACE			41	42		-				0

RATED VOLTAGE: 480/277V — 3 PHASE, 4 WIRE — FEED IS TO BE ( ) BOTTOM (X) TOP FROM '4NHDA'
RATINGS IS TO BE 400 AMPS — GROUND BAR IS REQUIRED
MAIN PROTECTION: 225 AMP MAIN BREAKER — NEUTRAL BUS IS TO BE ( ) FULL (X) DOUBLE SIZE
BRANCH POLES: 42 — HINGED DOOR WITH KEYED LATCH (X) IS ( ) IS NOT REQUIRED
PANELBOARD IS TO BE ( )FUSED (X)BOLT IN CB TYPE — HARD WIRED SURGE PROTECTION (X) IS ( ) IS NOT REQUIRED
ALL BREAKERS RATED: 42,000 AMPS, SYM RMS

CONNECTED LOAD: 68 kva

I = 68000 VA / 480* √3 = 81.9 A — SPARE

PANELBOARD SCHEDULE `4NLA`

BUS KVA A	BUS KVA B	BUS KVA C	LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA A	BUS KVA B	BUS KVA C
0.5			RECEPTACLES	1	20	1	2	20	1	RECEPTACLES	0.5		
	0.7		RECEPTACLES	1	20	3	4	20	1	RECEPTACLES		0.7	
		0.5	RECEPTACLES	1	20	5	6	20	1	RECEPTACLES			0.5
0.7			RECEPTACLES	1	20	7	8	20	1	RECEPTACLES	0.7		
	0.5		RECEPTACLES	1	20	9	10	20	1	RECEPTACLES		0.5	
		0.7	RECEPTACLES	1	20	11	12	20	1	RECEPTACLES			0.7
0.5			RECEPTACLES	1	20	13	14	20	1	RECEPTACLES	0.5		
	0.7		RECEPTACLES	1	20	15	16	20	1	RECEPTACLES		0.7	
		0.5	RECEPTACLES	1	20	17	18	20	1	RECEPTACLES			0.5
0.7			RECEPTACLES	1	20	19	20	20	1	RECEPTACLES	0.7		
	0.5		RECEPTACLES	1	20	21	22	20	1	RECEPTACLES		0.5	
		0.7	RECEPTACLES	1	20	23	24	20	1	RECEPTACLES			0.7
0.5			RECEPTACLES	1	20	25	26	20	1	RECEPTACLES	0.7		
	0.7		RECEPTACLES	1	20	27	28	20	1	RECEPTACLES		0.5	
		0.7	RECEPTACLES	1	20	29	30	20	1	RECEPTACLES			0.5
0.5			RECEPTACLES	1	20	31	32	20	1	RECEPTACLES	0.5		
	0.7		RECEPTACLES	1	20	33	34	20	1	REFRIGERATOR		1.2	
		0.7	RECEPTACLES	1	20	35	36	20	1	DISHWASHER			1.2
0.7			RECEPTACLES	1	20	37	38	40	2	RANGE	1.8		
	0.5		RECEPTACLES	1	20	39	40					1.8	
		0.5	RECEPTACLES	1	20	41	42	20	1	WASHER			1.2
0.5			RECEPTACLES	1	20	43	44	35	2	DRYER	2.8		
	0.7		RECEPTACLES	1	20	45	46		-			2.8	
		0.9	RECEPTACLES	1	20	47	48	20	1	RECEPTACLES			0.4
1.12			HAND DRYERS, REC.	1	20	49	50	20	1	RECEPTACLES	0.5		
	0.4		RECEPTACLES	1	20	51	52	20	1	RECEPTACLES		0.7	
		1.8	REFRIGERATOR	1	20	53	54	20	1	RECEPTACLES			0.9
			SPARE	1	20	55	56	20	1	RECEPTACLES	0.5		
			SPARE	1	20	57	58	20	1	HOOD		0.7	
			SPARE	1	20	59	60	20	1	EF4-1 (1/4HP)			0.6
			SPARE	1	20	61	62	20	1	EF4-2 (1/4HP)	0.6		
			SPARE	1	20	63	64	20	1	SPARE			
			SPARE	1	20	65	66	20	1	SPARE			
			SPARE	1	20	67	68	20	1	SPARE			
			SPARE	1	20	69	70	20	1	SPARE			
			SPARE	1	20	71	72	20	1	SPARE			
			SPARE	1	20	73	74	20	1	SPARE			
			SPARE	1	20	75	76	20	1	SPARE			
			SPARE	1	20	77	78	20	1	SPARE			
			SPARE	1	20	79	80		-		0		
			SPARE	1	20	81	82	30	3	SPD-2		0	
		0.6	MECH. DAMPERS	1	20	83	84						0

RATED VOLTAGE: 120/208V — 3 PHASE, 4 WIRE — FEED IS TO BE ( ) BOTTOM (X) TOP FROM '4NTA'
RATINGS IS TO BE 400 AMPS — GROUND BAR IS REQUIRED
MAIN PROTECTION: 250 AMP MAIN BREAKER — NEUTRAL BUS IS TO BE (X) FULL ( ) DOUBLE SIZE
BRANCH POLES: 84 — HINGED DOOR WITH KEYED LATCH (X) IS ( ) IS NOT REQUIRED
PANELBOARD IS TO BE ( )FUSED (X)BOLT IN CB TYPE — HARD WIRED SURGE PROTECTION (X) IS ( ) IS NOT REQUIRED
ALL BREAKERS RATED: 42,000 AMPS, SYM RMS

CONNECTED LOAD: 46 kva

I = 45820 VA / 208* √3 = 127.2 A

PANELBOARD SCHEDULE `4EHA`

BUS KVA A	BUS KVA B	BUS KVA C	LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA A	BUS KVA B	BUS KVA C
0.5			LIGHTING	1	20	1	2	20	1	LIGHTING	0.5		
	0.4		LIGHTING	1	20	3	4	20	1	LIGHTING		0.6	
		0.2	LIGHTING	1	20	5	6	20	1	SPARE			
			SPARE	1	20	7	8	20	1	LIGHTING CORRIDOR	0.5		
			SPARE	1	20	9	10	20	1	SPARE			
			SPARE	1	20	11	12	20	1	SPARE			
			SPARE	1	20	13	14	20	1	SPARE			
			SPARE	1	20	15	16	20	1	SPARE			
			SPARE	1	20	17	18	20	1	SPARE			
			SPARE	1	20	19	20	20	1	SPARE			
			SPARE	1	20	21	22	20	1	SPARE			
			SPARE	1	20	23	24	20	1	SPARE			
			SPACE			25	26			SPACE			
			SPACE			27	28			SPACE			
			SPACE			29	30			SPACE			
			SPACE			31	32			SPACE			
			SPACE			33	34			SPACE			
			SPACE			35	36			SPACE			
			SPACE			37	38		-		0		
			SPACE			39	40	30	3	SPD-2		0	
			SPACE			41	42		-				0

RATED VOLTAGE: 120/208V — 3 PHASE, 4 WIRE — FEED IS TO BE ( ) BOTTOM (X) TOP FROM 'EQMDP'
RATINGS IS TO BE 100 AMPS — GROUND BAR IS REQUIRED
MAIN PROTECTION: 100 AMP MAIN BREAKER — NEUTRAL BUS IS TO BE (X) FULL ( ) DOUBLE SIZE
BRANCH POLES: 42 — HINGED DOOR WITH KEYED LATCH (X) IS ( ) IS NOT REQUIRED
PANELBOARD IS TO BE ( )FUSED (X)BOLT IN CB TYPE — HARD WIRED SURGE PROTECTION (X) IS ( ) IS NOT REQUIRED
ALL BREAKERS RATED: 18,000 AMPS, SYM RMS

CONNECTED LOAD: 3 kva

I = 2800 VA / 480* √3 = 3.4 A

PANELBOARD SCHEDULE `4DLA`

BUS KVA A	BUS KVA B	BUS KVA C	LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA A	BUS KVA B	BUS KVA C
0.9			COMP. RECEPT.	1	20	1	2	20	1	COMP. RECEPT.	0.9		
	0.7		COMP. RECEPT.	1	20	3	4	20	1	COMP. RECEPT.		0.7	
		0.7	COMP. RECEPT.	1	20	5	6	20	1	COMP. RECEPT.			0.7
0.9			COMP. RECEPT.	1	20	7	8	20	1	COMP. RECEPT.	0.9		
	0.7		COMP. RECEPT.	1	20	9	10	20	1	COMP. RECEPT.		0.7	
		0.7	COMP. RECEPT.	1	20	11	12	20	1	COMP. RECEPT.			0.7
0.9			COMP. RECEPT.	1	20	13	14	20	1	COMP. RECEPT.	0.9		
	0.7		COMP. RECEPT.	1	20	15	16	20	1	COMP. RECEPT.		0.7	
		0.7	COMP. RECEPT.	1	20	17	18	20	1	COMP. RECEPT.			0.7
0.9			COMP. RECEPT.	1	20	19	20	20	1	COMP. RECEPT.	0.9		
	0.7		COMP. RECEPT.	1	20	21	22	20	1	COMP. RECEPT.		0.7	
		0.7	COMP. RECEPT.	1	20	23	24	20	1	COMP. RECEPT.			0.7
0.9			COMP. RECEPT.	1	20	25	26	20	1	COMP. RECEPT.	0.9		
	0.7		COMP. RECEPT.	1	20	27	28	20	1	COMP. RECEPT.		0.7	
		0.7	COMP. RECEPT.	1	20	29	30	20	1	COMP. RECEPT.			0.7
0.9			COMP. RECEPT.	1	20	31	32	20	1	COMP. RECEPT.	0.9		
	0.7		COMP. RECEPT.	1	20	33	34	20	1	COMP. RECEPT.		0.7	
		0.7	COMP. RECEPT.	1	20	35	36	20	1	COMP. RECEPT.			0.7
0.9			COMP. RECEPT.	1	20	37	38	20	1	COMP. RECEPT.	0.9		
	0.7		COMP. RECEPT.	1	20	39	40	20	1	COMP. RECEPT.		0.7	
		0.7	COMP. RECEPT.	1	20	41	42	20	1	COMP. RECEPT.			0.7
0.9			COMP. RECEPT.	1	20	43	44	20	1	COMP. RECEPT.	0.5		
	0.7		COMP. RECEPT.	1	20	45	46	20	1	COMP. RECEPT.		0.7	
		0.7	COMP. RECEPT.	1	20	47	48	20	1	COMP. RECEPT.			0.7
0.7			COMP. RECEPT.	1	20	49	50	20	1	COMP. RECEPT.	0.5		
			SPARE	1	20	51	52	20	1	COMP. RECEPT.		0.5	
			SPARE	1	20	53	54	20	1	SPARE			0.5
			SPARE	1	20	55	56	20	1	COMP. RECEPT.	0.5		
			SPARE	1	20	57	58	20	1	COMP. RECEPT.		0.7	
			SPARE	1	20	59	60	20	1	COMP. RECEPT.			0.7
			SPARE	1	20	61	62	20	1	COMP. RECEPT.	0.5		
			SPARE	1	20	63	64	20	1	COMP. RECEPT.		0.7	
			SPARE	1	20	65	66	20	1	COMP. RECEPT.			0.7
			SPARE	1	20	67	68	20	1	SPARE			
			SPARE	1	20	69	70	20	1	SPARE			
			SPARE	1	20	71	72	20	1	SPARE			
			SPACE			73	74			SPACE			
			SPACE			75	76			SPACE			
			SPACE			77	78			SPACE			
			SPACE			79	80		-		0		
			SPACE			81	82	30	3	SPD-2		0	
			SPACE			83	84		-				0

RATED VOLTAGE: 120/208V — 3 PHASE, 4 WIRE — FEED IS TO BE ( ) BOTTOM (X) TOP FROM '4DTA'
RATINGS IS TO BE 225 AMPS — GROUND BAR IS REQUIRED
MAIN PROTECTION: 225 AMP MAIN BREAKER — NEUTRAL BUS IS TO BE (X) FULL ( ) DOUBLE SIZE
BRANCH POLES: 84 — HINGED DOOR WITH KEYED LATCH (X) IS ( ) IS NOT REQUIRED
PANELBOARD IS TO BE ( )FUSED (X)BOLT IN CB TYPE — HARD WIRED SURGE PROTECTION (X) IS ( ) IS NOT REQUIRED
ALL BREAKERS RATED: 42,000 AMPS, SYM RMS

CONNECTED LOAD: 42 kva

I = 14100 VA / 208* √3 = 117.1 A

PANELBOARD SCHEDULE `4QLA`

BUS KVA A	BUS KVA B	BUS KVA C	LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA A	BUS KVA B	BUS KVA C
			SPARE	1	20	1	2	20	1	EMS C.P.	0.6		
			SPARE	1	20	3	4	20	1	INTERCOM T.C.		0.6	
			SPARE	1	20	5	6	20	1	ACCESS CONTROL T.C.			0.6
0.6			DRINKING FOUNTAIN	1	20	7	8	20	1	CLOCK TRANSMITTER	0.6		
	0.6		DRINKING FOUNTAIN	1	20	9	10	20	1	INTR. DET. C.P./T.C.		0.6	
			SPARE	1	20	11	12	20	1	CCTV C.P./T.C.			0.6
			SPARE	2	25	13	14	20	1	RECEPT. DATA RM 401	0.4		
				-		15	16	20	1	RECEPT. DATA RM 401		0.4	
			SPARE	2	20	17	18	20	1	RECEPT. DATA RM 401			0.4
				-		19	20	20	1	SPARE			
			SPARE	1	20	21	22	30	1	RECEPT. DATA RM 401		0.4	
			SPARE	1	20	23	24	30	1	RECEPT. DATA RM 401			0.4
			SPARE	1	20	25	26	30	1	RECEPT. DATA RM 401	0.4		
			SPARE	1	20	27	28	30	1	RECEPT. DATA RM 401		0.4	
			SPARE	1	20	29	30	20	1	SPARE			
			SPARE	1	20	31	32	20	1	SPARE			
			SPARE	1	20	33	34	20	1	SPARE			
			SPARE	1	20	35	36	20	1	SPARE			
			SPACE			37	38		-		0		
			SPACE			39	40	30	3	SPD-2		0	
			SPACE			41	42		-				0

RATED VOLTAGE: 120/208V — 3 PHASE, 4 WIRE — FEED IS TO BE ( ) BOTTOM (X) TOP FROM '4QTA'
RATINGS IS TO BE 100 AMPS — GROUND BAR IS REQUIRED
MAIN PROTECTION: 60 AMP MAIN BREAKER — NEUTRAL BUS IS TO BE (X) FULL ( ) DOUBLE SIZE
BRANCH POLES: 42 — HINGED DOOR WITH KEYED LATCH (X) IS ( ) IS NOT REQUIRED
PANELBOARD IS TO BE ( )FUSED (X)BOLT IN CB TYPE — HARD WIRED SURGE PROTECTION (X) IS ( ) IS NOT REQUIRED
ALL BREAKERS RATED: 10,000 AMPS, SYM RMS

CONNECTED LOAD: 8 kva

I = 7600 VA / 208* √3 = 21.1 A

TYPICAL BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE

BREAKER TRIP	CONDUCTOR AWG	GROUND AWG	CONDUIT
20A	12	12	3/4"C
25A	10	10	3/4"C
30A	10	10	3/4"C
35A	8	10	1"C
40A	8	10	1"C
45A	8	10	1"C
50A	8	10	1"C
60A	6	8	1-1/4"C
70A	4	8	1-1/4"C
80A	4	8	1-1/4"C
90A	3	8	1-1/2"C
100A	3	8	1-1/2"C

1. CONTRACTOR TO ADJUST SIZES PER FIELD INSTALLED LENGTHS TO MAINTAIN A MAXIMUM VOLTAGE DROP OF 3%.
2. PROVIDE CONDUCTORS PER BREAKER POLES, INCLUDE NEUTRAL FOR ALL 1PH AND 3PH LOADS AS REQUIRED.

GENERAL PANELBOARD NOTE:

UPON COMPLETION OF JOB RECEPTACLE LOCATIONS TO BE SHOWN IN PANEL SCHEDULE LOAD DESCRIPTION BY THE CONTRACTOR

1. BREAKER SHALL HAVE GFI PROTECTION PER 2011 NEC 422.52
2. BREAKER SHALL HAVE GFI PROTECTION.
3. PROVIDE BREAKER WITH LOCK-OUT HARDWARE AND APPLY LABELING AT ASSOCIATED TRANSFORMER INDICATING LOCATION AND EQUIPMENT TAG OF UPSTREAM DISCONNECT MEANS PER NEC 450.14.

4NHDA	4NLA	4DLA
4NHA	4EHA	4QLA
4MHA		

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K-8 FACILITY (MM) FOR:
ST. JOHNS COUNTY SCHOOL DISTRICT - BID # 2019-34
PNIE ISLAND ROAD
NOCATEE, FLORIDA

Comm. No: 16017.00
Date: 12-20-19
Drawn: MAC/JPP
Revised:

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