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ARCHITECTURE  
ENGINEERING  
STUDIES  
PLANNING  
INVESTIGATION  
EXPERT WITNESS

NEW OFFICE  
COMPLEX

CHILD DEVELOPMENT  
COUNCIL OF  
ACADIANA, INC.  
OPELOUSAS, LA

ELECT. PANEL  
SCHEDULES

REV: 12-7-09 CONST.  
9-3-10 C.O.

SCALE: AS NOTED

JOB#: 2030

DATE: 10-19-09

SHEET 24

E-4

OF 26

PANEL: MDP  
LOCATION: ELECT. RM 128  
FEEDER SOURCE: MDP

VOLTAGE: 120/208V, 600A 3Ø, 4W  
M.C.B., S/N SURFACE MOUNTED, 22,000 A.I.C.

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION LOCATION	BREAKER		LOAD (VA)	A <sub>B</sub> B <sub>B</sub> C <sub>B</sub>	LOAD (VA)	BREAKER		LOAD DESCRIPTION LOCATION	THHN WIRE SIZE	CKT. NO.
			AMP	POLE				POLE	AMP			
1					13830		20450					2
3	4-#1	PANEL 'LA'	150	3	13830		20450	3	150	PANEL 'RA'	4-#1	4
5					13830		20450					6
7					10030		34000					8
9	4-#1	PANEL 'KP'	150	3	10030		34000	3	400	PANEL 'AC'	3-500 MCM	10
11					10030		34000					12
13					1940		1730					14
15	#10	SEWER LIFT STATION	30	3	1940		1730	3	30	SEWER TREATMENT PLANT	#10	16
17					1940		1730					18
19					2100		2100					20
21	#12	PTAC-1	20	2	2100		2100	2	20	PTAC-2	#12	22
23					2100		2100					24
25	#12	PTAC-3	20	2	2100		2100	2	20	PTAC-4	#12	26
27					2100		1200	1	20	SPARE	#12	28
29	#12	PTAC-5	20	2	2100		1200	1	20	SPARE	#12	30
31		BLANK	-	-	-		1200	1	20	SPARE	#12	32
33		BLANK	-	-	-		-	-	-	BLANK	-	34
35		BLANK	-	-	-		-	-	-	BLANK	-	36
37		BLANK	-	-	-		-	-	-	BLANK	-	38
39		BLANK	-	-	-		-	-	-	BLANK	-	40
41		BLANK	-	-	-		-	-	-	BLANK	-	42

TOTAL CONNECTED LOAD (VA)  
A<sub>B</sub>=91580 B<sub>B</sub>=90380 C<sub>B</sub>=90380

SOLID NEUTRAL NEUTRAL WIRE (W) GROUND BUS GROUND WIRE (G)

PANEL: LA  
LOCATION: ELECT. RM 128  
FEEDER SOURCE: MDP

VOLTAGE: 120/208V, 150A 3Ø, 4W  
M.L.O., S/N SURFACE MOUNTED, 22,000 A.I.C.

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION LOCATION	BREAKER		LOAD (VA)	A <sub>B</sub> B <sub>B</sub> C <sub>B</sub>	LOAD (VA)	BREAKER		LOAD DESCRIPTION LOCATION	THHN WIRE SIZE	CKT. NO.
			AMP	POLE				POLE	AMP			
1	#12	LIGHTING - RM 112	20	1	2000		2000	1	20	LIGHTING - RM 103	#12	2
3	#12	LIGHTING - RM 112	20	1	2000		2000	1	20	LIGHTING - RM 103	#12	4
5	#12	LIGHTING - RM 112	20	1	2000		2000	1	20	LIGHTING - RM 106	#12	6
7	#12	LIGHTING - RM 115/116/117/129	20	1	2000		1500	1	20	LIGHTING - RM 101 & DROPOFF	#12	8
9	#12	LIGHTING - RM 104/105	20	1	2000		1400	1	20	LIGHTING - RM 107	#12	10
11	#12	LIGHTING - RM 111	20	1	2000		1800	1	20	LIGHTING - EXIT & EMERGENCY	#12	12
13		BLANK	-	-	-		3100	2	30	SITE LIGHTING	#10	14
15		BLANK	-	-	-		3100	2	30	SITE LIGHTING	#10	16
17	#12	LIGHTING - RM 118/119	20	1	1000		1000	1	20	LIGHTING - RM 112	#12	18
19	#12	SPARE	20	1	1200		1000	1	20	LIGHTING - RM 112	#12	20
21	#12	SPARE	20	1	1200		1000	1	20	LIGHTING - RM 112	#12	22
23	#12	LIGHTING - RM 108/109/110/128	20	1	1700		1400	1	20	LIGHTING - RM 113/114/120/127	#12	24
25		BLANK	-	-	-		-	-	-	BLANK	-	26
27		BLANK	-	-	-		-	-	-	BLANK	-	28
29		BLANK	-	-	-		-	-	-	BLANK	-	30

TOTAL CONNECTED LOAD (VA)  
A<sub>B</sub>=14500 B<sub>B</sub>=14100 C<sub>B</sub>=12900

SOLID NEUTRAL NEUTRAL WIRE (W) GROUND BUS GROUND WIRE (G)

PANEL: RA  
LOCATION: ELECT. RM 128  
FEEDER SOURCE: MDP

VOLTAGE: 120/208V, 150A 3Ø, 4W  
M.L.O., S/N SURFACE MOUNTED, 22,000 A.I.C.

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION LOCATION	BREAKER		LOAD (VA)	A <sub>B</sub> B <sub>B</sub> C <sub>B</sub>	LOAD (VA)	BREAKER		LOAD DESCRIPTION LOCATION	THHN WIRE SIZE	CKT. NO.
			AMP	POLE				POLE	AMP			
1	#12	RECEPTACLES - RM 104	20	1	1000		1000	1	20	RECEPTACLES - RM 106	#12	2
3	#12	RECEPTACLES - RM 105	20	1	1250		1200	1	20	RECEPTACLES - RM 106	#12	4
5	#12	RECEPTACLES - RM 103	20	1	1200		1000	1	20	RECEPTACLES - RM 108	#12	6
7	#12	RECEPTACLES - RM 107	20	1	1000		800	1	20	RECEPTACLES - RM 108	#12	8
9	#12	RECEPTACLES - RM 107	20	1	1000		1000	1	20	RECEPTACLES - RM 127	#12	10
11	#12	RECEPTACLES - RM 103	20	1	600		1800	1	20	RECEPTACLES - RM 102/103	#12	12
13	#12	SPARE	20	1	1000		1800	1	20	RECEPTACLES - RM 103	#12	14
15	#12	SPARE	20	1	1000		1000	1	20	RECEPTACLES - RM 115 WATER	#12	16
17	#12	RECEPTACLES - RM 118	20	1	1000		500	1	20	RECEPTACLES - RM 119	#12	18
19	#12	RECEPTACLES - RM 100/101	20	1	800		1200	1	20	TELEPHONE BOARD	#12	20
21	#12	TEL/PWR POLE	20	1	2000		2000	1	20	TEL/PWR POLE	#12	22
23	#12	TEL/PWR POLE	20	1	2000		2000	1	20	TEL/PWR POLE	#12	24
25	#8	EW1	40	2	3700		7300				#8	26
27					3700		7300	3	75	EW2	#8	28
29	#12	RECEPTACLES - RM 103 WATER	20	1	500		7300				#8	30
31	#12	RECEPTACLES - RM 120	20	1	1000		1200	1	20	SPARE	#12	32
33	#12	RECEPTACLES - RM 112	20	1	1800		1800	1	20	RECEPTACLES - RM 112/115	#12	34
35		BLANK	-	-	-		-	-	-	BLANK	-	36
37		BLANK	-	-	-		-	-	-	BLANK	-	38
39		BLANK	-	-	-		-	-	-	BLANK	-	40
41		BLANK	-	-	-		-	-	-	BLANK	-	42

TOTAL CONNECTED LOAD (VA)  
A<sub>B</sub>=20400 B<sub>B</sub>=21950 C<sub>B</sub>=19000

SOLID NEUTRAL NEUTRAL WIRE (W) GROUND BUS GROUND WIRE (G)

PANEL: 'KP'  
LOCATION: SOUTHSIDE KITCHEN WALL  
FEEDER SOURCE: MDP

VOLTAGE: 120/208V, 150A 3Ø, 4W  
M.L.O., S/N SURFACE MOUNTED, 22,000 A.I.C.

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION LOCATION	BREAKER		LOAD (VA)	A <sub>B</sub> B <sub>B</sub> C <sub>B</sub>	LOAD (VA)	BREAKER		LOAD DESCRIPTION LOCATION	THHN WIRE SIZE	CKT. NO.
			AMP	POLE				POLE	AMP			
1	#12	RECEPTACLES - KITCHEN	20	1	1500		1500	1	20	RECEPTACLES - KITCHEN	#12	2
3	#12	RECEPTACLES - KITCHEN	20	1	1500		1500	1	20	RECEPTACLES - KITCHEN	#12	4
5	#12	RECEPTACLES - KITCHEN	20	1	1500		1500	1	20	RECEPTACLES - KITCHEN	#12	6
7	#12	RECEPTACLES - KITCHEN	20	1	1500		1400	1	20	ICE MAKER	#12	8
9	#12	U/C REFRIGERATOR	20	1	1200		4000			RANGE	#8	10
11	#12	FREEZER	20	1	1600		4000	2	50	RANGE	#8	12
13	#10	WASHER / DRYER	30	2	2500		1200	1	20	SPARE	#12	14
15					2500		1200	1	20	SPARE	#12	16
17		BLANK	-	-	-		-	-	-	BLANK	-	18
19		BLANK	-	-	-		-	-	-	BLANK	-	20
21		BLANK	-	-	-		-	-	-	BLANK	-	22
23		BLANK	-	-	-		-	-	-	BLANK	-	24
25		BLANK	-	-	-		-	-	-	BLANK	-	26
27		BLANK	-	-	-		-	-	-	BLANK	-	28
29		BLANK	-	-	-		-	-	-	BLANK	-	30

TOTAL CONNECTED LOAD (VA)  
A<sub>B</sub>=9600 B<sub>B</sub>=11900 C<sub>B</sub>=8600

SOLID NEUTRAL NEUTRAL WIRE (W) GROUND BUS GROUND WIRE (G)

PANEL: AC  
LOCATION: EXTERIOR EAST WALL  
FEEDER SOURCE: MDP

VOLTAGE: 120/208V, 400A 3Ø, 4W, MLO NEMA 3R  
S/N SURFACE MOUNTED, 22,000 A.I.C.

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION LOCATION	BREAKER		LOAD (VA)	A <sub>B</sub> B <sub>B</sub> C <sub>B</sub>	LOAD (VA)	BREAKER		LOAD DESCRIPTION LOCATION	THHN WIRE SIZE	CKT. NO.
			AMP	POLE				POLE	AMP			
1					4000		8665					2
3	#8	AHU-1: 12 KW ELEC. HEAT	50	3	4000		8665	3	80	AHU-2: 26KW ELEC. HEAT	#8	4
5					4000		8665					6
7					8665		8665					8
9	#5	AHU-4: 26K ELEC. HEAT	80	3	8665		8665	3	80	AHU-3: 26KW ELEC. HEAT	#5	10
11					8665		8665					12
13					1800		4000					14
15	#8	A/C #1 COMPRESSOR	40	3	1800		4000	3	50	AHU-5: 12KW ELEC. HEAT	#8	16
17					1800		4000					18
19					4200		4200					20
21	#6	A/C #2 COMPRESSOR 'A & B'	60	3	4200		4200	3	60	A/C #3 COMPRESSOR 'A & B'	#6	22
23					4200		4200					24
25					2000		2000					26
27	#6	A/C #4 COMPRESSOR 'A & B'	60	3	4200		2000	3	40	A/C #5 COMPRESSOR	#6	28
29					4200		2000					30
31	#8	A/C #6 COMPRESSOR	40	3	3000		6245	3	60	AHU-6: 14KW ELEC. HEAT	#6	32
33					3000		6245					34
35					3000		6245					36
37		BLANK	-	-	-		-	-	-	BLANK	-	38
39		BLANK	-	-	-		-	-	-	BLANK	-	40
41		BLANK	-	-	-		-	-	-	BLANK	-	42

TOTAL CONNECTED LOAD (VA)  
A<sub>B</sub>=39995 B<sub>B</sub>=39995 C<sub>B</sub>=39995

SOLID NEUTRAL NEUTRAL WIRE (W) GROUND BUS GROUND WIRE (G)