

Filename: M11238\Clay Electric Lake City Office\Construct\ELC11238-LEGEND - Plot Date: 7 February 2012 - Plotted By: Beth Hulman

MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE

MARK	EQUIPMENT DESCRIPTION	VOLTAGE/Ø	MCA	LOAD	MEANS OF DISCONNECT*	C/B TRIP (AMPS)	Ø	CIRCUIT GROUND	CONDUIT	SERVING PANEL	NOTES
EW1	ELECTRIC WATER HEATER	208/1	21.6	4.5W	N1 SS 30/3	30	3#10	#10	1/2" C	2P1A	
EW2	ELECTRIC WATER COOLER (2)	120/1	5	4.0A	RECEPTACLE	20	2#12	#12	1/2" C	2P1A	
DF2	DRINKING FOUNTAIN W/REMOTE CHILLER	120/1	5	4.0A	N1 SS 20/1	20	2#12	#12	1/2" C	2P1A	
HP-1	HEAT PUMP #1	208/1	19.4	15.5A	C/B	30	2#10	#10	1/2" C	2P1G	
HP-2	HEAT PUMP #2	208/1	17	13.6A	C/B	30	2#10	#10	1/2" C	2P1G	
HP-3	HEAT PUMP #3	208/1	17	13.6A	C/B	30	2#10	#10	1/2" C	2P1G	
HP-4	HEAT PUMP #4	208/1	19.4	15.5A	C/B	30	2#10	#10	1/2" C	2P1G	
HP-5	HEAT PUMP #5	208/1	29	23.2A	C/B	50	2#8	#10	1" C	2P1G	
HP-6	HEAT PUMP #6	208/1	11.9	9.5A	C/B	20	2#12	#12	1/2" C	2P1G	
HP-7	HEAT PUMP #7	208/1	10.8	8.2A	C/B	15	2#12	#12	1/2" C	2P1G	
CU-OA1	OA CONDENSING UNIT #1	208/3	4.0	3.0A	C/B	15	3#12	#12	1/2" C	2P1G	
AHU-OA1	OA AIR HANDLING UNIT #1	208/3	68.4	54.7A	C/B	70	3#12	#8	1 1/4" C	2P1B	2
AHU-1	AIR HANDLING UNIT #1	208/1	28	22.4A	C/B	30	2#10	#10	1/2" C	2P1B	2
AHU-2	AIR HANDLING UNIT #2	208/1	28	22.4A	C/B	30	2#10	#10	1/2" C	2P1B	2
AHU-3	AIR HANDLING UNIT #3	208/1	28	22.4A	C/B	30	2#10	#10	1/2" C	2P1B	2
AHU-4	AIR HANDLING UNIT #4	208/1	28	22.4A	C/B	30	2#10	#10	1/2" C	2P1B	2
AHU-5	AIR HANDLING UNIT #5	208/1	37	29.6A	C/B	40	2#8	#10	3/4" C	2P1B	2
AHU-6	AIR HANDLING UNIT #6	208/1	16	12.8A	C/B	20	2#12	#12	1/2" C	2P1B	2
AHU-7	AIR HANDLING UNIT #7	208/1	0.7	0.6A	N1 SS 30/2	15	2#12	#12	1/2" C	2P1B	2
TC	HVAC TIME CLOCK	120/1	0.1	.1A	C/B	20	#12	#12	1/2" C	2P1B	
EF-1	EXHAUST FAN #	120/1	5.5	1/6HP	NOTE 1	20	2#12	#12	1/2" C	2P1B	1
EF-2	EXHAUST FAN #	120/1	2.8	1/12HP	NOTE 1	20	2#12	#12	1/2" C	2P1B	1
EF-3	EXHAUST FAN #	120/1	2.8	1/12HP	NOTE 1	20	2#12	#12	1/2" C	2P1B	1

NOTES
*N1=NEMA 1, N3R=NEMA 3R, SS=SAFETY SWITCH, FSS=FUSED SAFETY SWITCH, C/B=SERVING C/B, TS=MOTOR RATED MANUAL TOGGLE SWITCH, SPST=MANUAL SPST ON/OFF SWITCH
FOR FUSED SAFETY SWITCHES THE 1ST # IS FUSE SIZE, THE 2ND # IS FRAME SIZE (EXAMPLE: 90/100/3 N1,FSS INDICATES A 3 POLE 100A FUSED SAFETY SWITCH WITH 90A FUSES)
1. DISCONNECT INTEGRAL TO EQUIPMENT BY DIVISION 15.
2. PROVIDE MOTOR RATED POWER RELAY IN NEMA 1 ENCLOSURE FOR CONTROL OF EQUIPMENT.

PANELBOARD SCHEDULE

MARK:	2D1A	BREAKER	PHASE (kVA)	PHASE (kVA)	BREAKER	LOAD	Ø
Ø	TRIP	A	B	C	A	B	C
1			11.8		3.1		
3			12.2		2.4		
5			14.3		2.5		
7			19.0		4.9		
9			17.2		5.2		
11			18.2		3.5		
13			2.7		4.1		
15			3.2		3.9		
17			3.1		3.6		
19				14.2			
21				13.1			
23				13.7			
25							
27							
29							
31							
33							
35							
37							
39							
41							

TOTAL (kVA) ØA 59.8 ØB 57.2 ØC 58.9 HIGH PHASE (AMPS) 498.3

TOTAL CONNECTED LOAD (kVA) 175.9 TOTAL LOAD (AMPS) 488.2

CREATE A DIRECTORY TO INDICATE INSTALLED CIRCUIT LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC.) AND ROOM NUMBERS SERVED FOR EVERY BRANCH CIRCUIT.

LIGHTING FIXTURE SCHEDULE

TAG	MANUFACTURER AND CATALOG NUMBER	LAMPS	TOTAL WATTS	VOLTAGE	MOUNTING	NOTES
		TYPE	#			
F1A	DAY-BRITE 1SPG232-FS19-PAF COLUMBIA, WILLIAMS METALUX	F32T8 41K	2-LAMP 32W	61W 120	RECESSED GRID	PROVIDE SOLID STATE ELECTRONIC BALLAST, A19 LENS 0.156" THICK, MITRED DOOR FRAMES W/SPRING LOADED LATCHES AND PAINTED AFTER FAB.
F1AF	DAY-BRITE 1SPF232-FS19-PAF COLUMBIA, WILLIAMS METALUX	F32T8 41K	2-LAMP 32W	61W 120	RECESSED FLANGE	PROVIDE SOLID STATE ELECTRONIC BALLAST, A19 LENS 0.156" THICK, MITRED DOOR FRAMES W/SPRING LOADED LATCHES AND PAINTED AFTER FAB.
F3A	DAY-BRITE 2SPG332-FS19-PAF COLUMBIA, WILLIAMS METALUX	F32T8 41K	3-LAMP 32W	85W 120	RECESSED GRID	PROVIDE SOLID STATE ELECTRONIC BALLAST, A19 LENS 0.156" THICK, MITRED DOOR FRAMES W/SPRING LOADED LATCHES AND PAINTED AFTER FAB. DEPTH <= 3.75"
F1LA	DAY-BRITE 1P3AGS132-18-SL-VOLT-PAF COLUMBIA, WILLIAMS METALUX	F32T8 41K	1-LAMP 32W	32W 120	RECESSED GRID	PROVIDE SOLID STATE ELECTRONIC BALLAST, 3" PARABOLIC SEMI-SPECULAR LOUVERS, SPRING LOADED DOOR LATCHES, ALUMINUM FLANGE W/MITRED CORNERS. PAINTED AFTER FAB.
F2L	DAY-BRITE 2P3GS232-28SL-PAF COLUMBIA, WILLIAMS METALUX	F32T8 41K	2-LAMP 32W	61W 120	RECESSED GRID	PROVIDE SOLID STATE ELECTRONIC BALLAST, 3" PARABOLIC SEMI-SPECULAR LOUVERS, SPRING LOADED DOOR LATCHES, ALUMINUM FRAME W/MITRED CORNERS. PAINTED AFTER FAB. MEETS IESNA RP-1.
F2W	DAY-BRITE CAN232 COLUMBIA, WILLIAMS METALUX	F32T8 41K	2-LAMP 32W	61W 120	SURFACE	PROVIDE SOLID STATE ELECTRONIC BALLAST
F3L	DAY-BRITE 2P3GS332-38SL-PAF COLUMBIA, WILLIAMS METALUX	F32T8 41K	3-LAMP 32W	85W 120	RECESSED GRID	PROVIDE SOLID STATE ELECTRONIC BALLAST, 3" PARABOLIC SEMI-SPECULAR LOUVERS, SPRING LOADED DOOR LATCHES, ALUMINUM FRAME W/MITRED CORNERS. PAINTED AFTER FAB. MEETS IESNA RP-1.
F1	DAY-BRITE N132-VOLT COLUMBIA, WILLIAMS METALUX	F32T8 41K	1-LAMP 32W	32W 120		PROVIDE SOLID STATE ELECTRONIC BALLAST
FD3H	OMEGA OM61H32PLT-CS-FB PORTFOLIO PD6 SERIES INFINITY, PRESCOLITE	CFM32W G24q/41K	1-LAMP HORIZ.	32W 120	RECESSED GRID OR FLANGED	PROVIDE SOLID STATE ELECTRONIC BALLAST, SPECULAR SPUN ALUMINUM REFLECTOR, WHITE FLANGE AND INTEGRAL MOUNTING CHANNELS.
FD3D	OMEGA OM632PLT-CS-FB-DM PORTFOLIO PD6 SERIES INFINITY, PRESCOLITE	CFM32W G24q/41K	1-LAMP VERT.	32W 120	RECESSED GRID OR FLANGED	PROVIDE 3 WIRE 5% DIMMABLE BALLAST, SPECULAR SPUN ALUMINUM REFLECTOR, WHITE FLANGE AND INTEGRAL MOUNTING CHANNELS.
FD3	OMEGA OM82H32PLT-CS-FB PORTFOLIO PD8 SERIES INFINITY, PRESCOLITE	CFM32W G24q/41K	2-LAMP HORIZ.	32W 64W 120	RECESSED GRID OR FLANGED	PROVIDE SOLID STATE ELECTRONIC BALLAST, SPECULAR SPUN ALUMINUM REFLECTOR, SHALLOW DEPTH WHITE FLANGE AND INTEGRAL MOUNTING CHANNELS.
FV	DAY-BRITE DWAE-232 COLUMBIA, WILLIAMS METALUX	F32T8 41K	2-LAMP 32W	61W 120	OR STEM MOUNT	PROVIDE SOLID STATE ELECTRONIC BALLAST NON-CORROSIVE FRP HOUSING, WET LOCATION, PROVIDE STEMS IN WAREHOUSE & GARAGE AREAS.
FCD	CAPRI # FRD101C INFINITY, LIGHTOLIER	CFQ 13W/G240	2-LAMP 13W	26W 120	SURFACE	
SL	ELLIPTIPAR # F164-D2-D28-H-99-120-V00	F28T5	11-LAMP 28	28 120	GROUND MOUNT	UL LISTED FOR WET LOCATIONS. COLOR SHALL BE SELECTED BY ARCHITECT. PROVIDE CONCRETE BASE FOR MOUNTING, PROVIDE ALL MOUNTING HARDWARE.
EXB	BEGHELLI LC1-SA-LR-1/2-B-AL-AT PRESCOLITE PATHWAY	LED	-	7.1W 9.0W 120	WALL OR CEILING INDICATED	PROVIDE EMERGENCY NICAD BATTERY BACKUP, ARROWS AS PER PLANS, DIE CAST ALUMINUM HOUSING W/BRUSHED ALUMINUM FACEPLATE, SELF DIAGNOSTICS W/LEDS, DOUBLE FACE AS INDICATED ON PLANS.

NOTES SEE SPECIFICATIONS FOR APPROVED BALLAST MANUFACTURERS.

FIXTURES WITH HALF FILLED IN CENTER SHALL BE PROVIDED WITH A BATTERY JACK. SEE PLANS FOR QUANTITY.

APPROVAL SUBMITTALS FOR MANUFACTURERS NOT LISTED MUST BE SUBMITTED TO THE ENGINEER 14 DAYS PRIOR TO BID DATE FOR REVIEW. MANUFACTURERS NOT LISTED WILL NOT BE ACCEPTED UNLESS APPROVED BY ADDENDUM.

PANELBOARD SCHEDULE

MARK:	2P1A	BREAKER	PHASE (kVA)	PHASE (kVA)	BREAKER	LOAD	Ø
Ø	TRIP	A	B	C	A	B	C
1			0.7		0.5		
3			0.4		0.5		
5			0.4		0.5		
7			0.2		0.5		
9			0.2		0.5		
11			0.5		1.0		
13			0.7		0.3		
15			0.7		0.5		
17			0.9		0.7		
19			0.7		0.7		
21			0.7		0.2		
23			0.7		0.2		
25			0.7		0.2		
27			0.9		0.2		
29			0.7		1.2		
31			0.7		0.9		
33			0.7		0.7		
35			0.7		0.7		
37			0.7		0.7		
39			0.7		0.5		
41			0.9		0.7		
43			0.7		0.2		
45			0.4		0.5		
47			0.9		0.2		
49			0.7		0.8		
51			0.7		-		
53			0.7		-		
55			0.5		-		
57			0.7		-		
59			0.2		-		
61			0.7		-		
63			0.2		2.3		
65			0.2		2.3		
67			-		-		
69			-		-		
71			-		-		
73			-		-		
75			-		-		
77			-		-		
79			-		-		
81			-		-		
83			-		-		

TOTAL (kVA) ØA 11.8 ØB 12.2 ØC 14.3 HIGH PHASE (AMPS) 119.2

TOTAL CONNECTED LOAD (kVA) 38.3 TOTAL LOAD (AMPS) 106.3

CREATE A DIRECTORY TO INDICATE INSTALLED CIRCUIT LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC.) AND ROOM NUMBERS SERVED FOR EVERY BRANCH CIRCUIT.

① PAINT CIRCUIT BREAKER RED.

Brame
Architects

606 N.E. First Street
Gainesville, Florida 32601
352 / 372-0425
FAX 352 / 372-0427

Clay Electric Cooperative, Inc.



NEW DISTRICT OFFICE

1659 SW State Road 47 Lake City, Florida



MARK R. AKIN
PE - 0059242

ELECTRICAL
SCHEDULES

DRAWN BNH

CHECKED MTR

DATE 02/07/12

CAD 3702060/CD

REVISIONS

FILE NO. 3702.060

S H E E T

E3.0

Bid Documents

M&A Project No. 11238

Moses & Associates, Inc. Consulting Engineers

2209 NW 40th Terrace, Ste A 352-372-1911

Gainesville, FL 32605 f 352-372-0186

FL License EB-0003097 moses-eng.com

