HA2 (EXISTING)

TYPE:			SIEMENS TYPE P1 OR APPROVED EQUAL			PHASE:	3			LOCATION:	ELECTRICAL ROOM							
NEMA TYPE:			1			MAINS:	400A MLO			VOLTAGE:	480/277V, 4-WIRE							
FED FROM:			MDP			MOUNT:	SURFACE			AIC:	35,000							
CKT	AMP	POLE	CIRCUIT DESCRIPTION	TYPE	NOTE	WATTS	A	B	C	WATTS	CIRCUIT DESCRIPTION	NOTE	TYPE	POLE	AMP	CKT		
1				H		8,646	11,251			2,605	LTS-FRONT/LOBBY/KIDS		L	1	20	2		
3	50	3	RTU-2-1	H		8,646		10,556		1,910	LTS-CARDIO/Z4		L	1	20	4		
5				H		8,646			9,872	1,226	LTS-WALKWAY/CIRCUIT		L	1	20	6		
7				H		12,083	14,847			2,764	LTS-LOCKERS		L	1	20	8		
9	70	3	RTU-2-2	H		12,083		15,940		3,857	LTS-POOL DECK/KIDS POOL		L	1	20	10		
11				H		12,083			15,793	3,710	LTS-POOL UPLIGHTS		L	1	20	12		
13				H		4,634	6,538			1,904	LTS-TURF/TRACK/CIRCUIT		L	1	20	14		
15	35	3	RTU-2-3	H		4,634		8,290		3,656	LTS-FUNCTIONAL TRAINING/CARDIO		L	1	20	16		
17				H		4,634			7,037	2,403	LTS-HOT YOGA/OPEN AREA		L	1	20	18		
19				H		4,634	6,956			2,322	LTS-LARGE GROUP/CINEMA		L	1	20	20		
21	25	3	RTU-2-4	H		4,634		5,978		1,344	LTS-SPIN/OUTDOOR		L	1	20	22		
23				H		4,634			6,256	1,622	LTS-ENCLOSED OUTDOOR WRKT	1	L	1	20	24		
25				H		12,083	12,489			406	LTS-FRONT NIGHT LIGHTS		L	1	20	26		
27	70	3	RTU-2-5	H		12,083				500	LIGHTING CONTACTOR LC-2			1	20	28		
29				H		12,083				500	LIGHTING CONTACTOR LC-3			1	20	30		
31				H		5,653				2,330	LTS-SITE		L	1	20	32		
33	30	3	RTU-2-7	H		5,653				4,102	LTS-SITE		L	1	20	34		
35				H		5,653				2,524	LTS-SITE		L	1	20	36		
37	20	1	LIGHTING CONTACTOR LC-1			500				1,892	LTS-SITE		L	1	20	38		
39	20	1	LTS-BUILDING EXTERIOR			272		1,772		1,500	BUILDING MOUNTED SIGNAGE			1	20	40		
41				AC		6,629			6,629		SPARE			1	20	42		
43	40	3	CU-1	AC		6,629	8,129			1,500	BUILDING MOUNTED SIGNAGE			1	20	44		
45				AC		6,629		8,539		1,910	LTS-BASKETBALL COURT		L	1	20	46		
47	20	1	LTS-SPLASH AREA	L		2,762			5,165	2,403	LTS-OPENING CENTRAL COVE		L	1	20	48		
49				H		18,024	21,212			3,188	LTS-FREE WEIGHTS		L	1	20	50		
51	90	3	AHU-1	H		18,024		21,524		3,500	LTS-2ND FLOOR COVES		L	1	20	52		
53				H		18,024			18,024		SPARE			1	20	54		
			PHASE TOTAL				81421	72599	68776									

TOTAL CONNECTED LOAD 222,796 WATTS / 830= 268.4 A
TOTAL DIVERSIFIED LOAD 269,968 WATTS / 830= 325.3 A

1

L	LIGHTING (@125%)	54340		67925
R	RECEPTACLE (1st 10kva @ 100%, remainder @ 50%)	0		0
M	MOTOR (largest @ 250%, remaining @ 100%)	0		0
H	HEATING (larger of heating or AC load @100%)	197271		197271
AC	AC	19887		
K	KITCHEN (per NEC table 220.56)	0		0
	MISCELLANEOUS (@100%)	4772		4772

NOTES:
1 NEW CIRCUIT

PROVIDE FEED THRU LUGS
PROVIDE SEPARATE GROUND BUS
PROVIDE 100% RATED NEUTRAL BUS
PROVIDE HINGED PANELBOARD COVER

LIGHTING CONTACTOR SCHEDULE

DESCRIPTION	CIRCUIT
LC-1 (EXISTING)	
FRONT/LOBBY/KIDS	HA2-2
CARDIO/Z4	HA2-4
WALKWAY/CIRCUIT	HA2-6
LOCKERS	HA2-8
POOL DECK/KIDS POOL	HA2-10
POOL UPLIGHTS	HA2-12
HOT YOGA/OPEN AREA	HA2-18
LARGE GROUP/CINEMA	HA2-20
SPIN/OUTDOOR	HA2-22
SPLASH AREA	HA2-47
ENCLOSED OUTDOOR WRKT	HA2-24
SPARE	-
TV-D (EXISTING)	
EXTERIOR FRONT SCONCES	LWB-23
1ST FLOOR SCONCES	LWB-29
EXT SCONCE LEFT CORNER	LWB-33
BACK EXT SCONCES	LWB-35
EXTERIOR SCONCES RIGHT	LWB-37
SPARE	-
SPARE	-
SPARE	-
SPARE	-
SPARE	-
SPARE	-
SPARE	-
TV-G (EXISTING)	
CLG FANS FREE WTS 2	LWB-16
SPIN INSTRUCTOR TRACK	LWB-17
FANS OUTDOOR	LWB-18
BLUE TRACK SPIN	LWB-21
SPIN STEP LTS	LWB-27
TVS 2ND FLOOR PILLAR	LWB-31
TVS 1ST FLOOR PILLAR	LWB-33
CLG FANS OUTDOOR WORKOUT	-
SPARE	-
SPARE	-
SPARE	-
SPARE	-

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS & WATTAGE	VOLTAGE	MOUNTING	REMARKS
A	SURFACE EDGE-LIT FIXTURE	BEACON	SRT2-85-35K8-5QW-277-DB	85W LED	277V	SURFACE	MOUNT ON UNDERSIDE OF BEAM/STRUCTURE.
AE	SURFACE EDGE-LIT FIXTURE WITH EMERGENCY BATTERY BACKUP	BEACON	SRT2-85-35K8-5QW-277-DB-E	85W LED	277V	SURFACE	PROVIDE W/ EMERGENCY BACKUP BATTERY. MOUNT ON UNDERSIDE OF BEAM/STRUCTURE.
BE	OUTDOOR LED DOWNLIGHT WITH EMERGENCY BATTERY BACKUP	HUBBELL	TRP2-24L-50-4K7-3-UNV-BL-E	50W LED	120-277V	WALL	EMERGENCY BATTERY PACK 700 LUMENS
F12	LED WALL LIGHT	DAY-O-LITE	MEDL PL DI SI 35 LO 2 WM UNIVERSAL	32W LED	277V	WALL	MOUNT AS SHOWN ON ARCHITECTURAL ELEVATIONS
CF1	56" CEILING FAN	EMERSON	HF956BQ	N/A	120V	CEILING	PROVIDE STEM LENGTHS AS SPECIFIED BY ARCHITECTURAL
X2	THERMOPLASTIC EXIT SIGN	LIGHTALARMS	QLX500-RN	INCLUDED (LED)	120/277V	SURFACE	MOUNT FIXTURE 8'-0" AFF

EQUIPMENT CONNECTION SCHEDULE

TAG	EQUIPMENT DESCRIPTION	VOLTS	Φ	HP	KW	FLA	MCA	CIRCUIT	CONDUIT AND CONDUCTORS	DISC. SWITCH FRAME/FUSE/POLES/ENCL.
CU-1	CONDENSING UNIT 1	480	3				29.9	HA2 - 41,43,45	3# 10 & [illegible]G [illegible] 1/2" C	60A/ NF/ 3/ 3R
AHU-1	AIR HANDLING UNIT 1	480	3				81.3	HA2 - 59,51,53	3# 3 & 1# [illegible] IN [illegible]	100A/ NF/ 3/ 3R

LWB(EXISTING)

TYPE:			SIEMENS TYPE P1 OR APPROVED EQUAL			PHASE:	3			LOCATION:	ELECTRICAL ROOM					
NEMA TYPE:			1			MAINS:	100A MCB			VOLTAGE:	208Y/120V, 4-WIRE					
FED FROM:			MDP VIA TRANSFORMER			MOUNT:	SURFACE			AIC:	10,000					
CKT	AMP	POLE	CIRCUIT DESCRIPTION	TYPE	NOTE	WATTS	A	B	C	WATTS	CIRCUIT DESCRIPTION	NOTE	TYPE	POLE	AMP	CKT
1	20	1	REC-TV FREE WEIGHTS/PILLAR	R		900	1,700			800	FANS CINEMA 208		M	1	20	2
3	20	1	REC-TV MEN'S LOCKER	R		900		1,900		1,000	FANS TURF 215		M	1	20	4
5	20	1	REC-TV PILLAR/TRACK	R		900			1,700	800	FANS FUNCTIONAL TRAINING 217		M	1	20	6
7	20	1	REC-TV FUNC TRAIN/SPINNING	R		900	1,700			800	FANS SPINNING 218		M	1	20	8
9	20	1	CONTACTOR TV-B POWER			500		1,300		800	FANS CARDIO 221		M	1	20	10
11	20	1	REC-SPIN	R		180			980	800	FANS BASKETBALL CT 1		M	1	20	12
13	20	1	LTS-TRACK	L		120	920			800	FANS FREE WEIGHTS 1		M	1	20	14
15	20	1	REC-TV-TRACK/FUNCTION/STAIR	R		750		1,550		800	FANS FREE WEIGHTS 2		M	1	20	16
17	20	1	LTS-SPIN INSTRUCTOR WHITE	L		750			1,150	400	FANS OUTDOOR STRETCHING		M	1	20	18
19	20	1	CONTACTOR TV-D POWER			500	500				LTS-OUTDOOR STRETCH SCONCE		L	1	20	20
21	20	1	LTS-BLUE SPIN TRACK	L		1,500		2,100		600	FANS ENCLOSED OUTDOOR WRKT			1	20	22
23	20	1	LTS-FRONT EXT SCONCE	L		588			588		SPARE			1	20	24
25	20	1	LTS-LEFT SIDE EXT SCONCE	L		490	490				SPARE			1	20	26
27	20	1	LTS-SPIN STEP	L		657		657			SPARE			1	20	28
29	20	1	LTS-1ST OUTDOOR AREA SCONCES	L	1	100			100		SPARE			1	20	30
31	20	1	REC-TV ARRAY 2ND FLOOR	R		200	200				SPARE			1	20	32
33	20	1	LTS-LEFT SIDE EXT SCONCE	L		126		126			SPARE			1	20	34
35	20	1	LTS-BACK EXT SCONCE	L		196			196		SPARE			1	20	36
37	20	1	LTS-RIGHT SIDE EXT SCONCE	L		126	126				SPARE			1	20	38
39	20	1	SPARE								SPARE			1	20	40
41	20	1	SPARE						1,000	1,000	REC-TEL BACKBOARD		R	1	20	42
			PHASE TOTAL				5636	7633	5714							

TOTAL CONNECTED LOAD 18,983
TOTAL DIVERSIFIED LOAD 20,146 WATTS / 360 56.0 A

TYPE

L	LIGHTING (@125%)	4653		5816
R	RECEPTACLE (1st 10kva @ 100%, remainder @ 50%)	5730		5730
M	MOTOR (largest @ 250%, remaining @ 100%)	7000		7000
H	HEATING (larger of heating or AC load @100%)	0		0
AC	AC	0		
K	KITCHEN (per NEC table 220.56)	0		0
	MISCELLANEOUS (@100%)	1600		1600

NOTES:
1 NEW CIRCUIT

PROVIDE SEPARATE GROUND BUS
PROVIDE 100% RATED NEUTRAL BUS
PROVIDE HINGED PANELBOARD COVER

L1B (SECTION 2) (EXISTING)

TYPE:			SIEMENS TYPE P1 OR APPROVED EQUAL			PHASE:	3			LOCATION:	DATA ROOM					
NEMA TYPE:			1			MAINS:	150A MCB			VOLTAGE:	208Y/120V, 4-WIRE					
FED FROM:			SECTION 1			MOUNT:	SURFACE			AIC:	10,000					
CKT	AMP	POLE	CIRCUIT DESCRIPTION	TYPE	NOTE	WATTS	A	B	C	WATTS	CIRCUIT DESCRIPTION	NOTE	TYPE	POLE	AMP	CKT
43	20	1	REC-TREADMILL	R		1,500	2,220			720	REC-ROOFTOP EQUIP		R	1	20	44
45	20	1	REC-TREADMILL	R		1,500		2,040		540	REC-ROOFTOP EQUIP		R	1	20	46
47	20	1	REC-TREADMILL	R		1,500			2,040	540	REC-ROOFTOP EQUIP		R	1	20	48
49	20	1	REC-TREADMILL	R		1,500	1,860			360	REC-ROOFTOP EQUIP		R	1	20	50
51	20	1	REC-TREADMILL	R		1,500		1,750		250	FACP	1		1	20	52
53	20	1	REC-TREADMILL	R		1,500			12,188	10,688			M			54
55	20	1	REC-TREADMILL	R		1,500	12,188			10,688	REC-DRYER		M	3	125	56
57	20	1	REC-TREADMILL	R		1,500		12,188		10,688			M			58
59	20	1	REC-TREADMILL	R		1,500			2,220	[illegible]	REC-ENCLOSED OUTDOOR TRAIN	2	R	1	20	60
61	20	1	REC-TREADMILL	R		1,500	1,680			[illegible]	REC-ENCLOSED OUTDOOR TRAIN	2	R	1	20	62
63	20	1	REC-TURF/FUNCTIONAL TRAINING	R		720		720			SPARE			1	20	64
65	20	1	REC-CARDIO/SPIN	R		1,080			[illegible]		SPARE			1	20	66
67	20	1	REC-SPIN	R		180	180				SPARE			1	20	68
69	20	1	SPARE								SPARE			1	20	70
71	20	1	SPARE								SPARE			1	20	72
73	20	1	SPARE								SPARE			1	20	74
75	20	1	SPARE								SPARE			1	20	76
77	20	1	SPARE								SPARE			1	20	78
79	20	1	SPARE								SPARE			1	20	80
81	20	1	SPARE					500		500	RECIRC PUMP CONTROLS			1	20	82
83	20	1	SPARE						500	500	WATER HEATER CONTROLS			1	20	84
			PHASE TOTAL				18128	17198	18028							

TOTAL CONNECTED LOAD (THIS SECTION ONLY) 53,354 WATTS / 360= 148.2 A
TOTAL DIVERSIFIED LOAD (THIS SECTION ONLY) 48,334 WATTS / 360= 134.3 A

L	LIGHTING (@125%)	0		0
R	RECEPTACLE (1st 10kva @ 100%, remainder @ 50%)	20040		15020
M	MOTOR (largest @ 250%, remaining @ 100%)	32064		32064
H	HEATING (larger of heating or AC load @100%)	0		0
AC	AC	0		
K	KITCHEN (per NEC table 220.56)	0		0
	MISCELLANEOUS (@100%)	1250		1250

NOTES:
1 LOCK-ON DEVICE
2 NEW CIRCUIT

PROVIDE FEED THRU LUGS
PROVIDE SEPARATE GROUND BUS
PROVIDE 100% RATED NEUTRAL BUS
PROVIDE HINGED PANELBOARD COVER

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Revisions:

No.	Date	Description
	9/23/19	PERMIT

ELECTRICAL SCHEDULES

Drawn BAD
Checked WSG
Contract No. 19-30
Scale AS INDIC
Date 080619
Last Rev.

GEORGIA REGISTERED No. 26276 PROFESSIONAL ENGINEER WILLIAM S. GADDY, JR. 09-20-19

E0.2

2 of 3 sheets

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