PANEL: 2L

LOCATION: UTILITY 213
SUPPLY FROM: TL2
MOUNTING: SURFACE
ENCLOSURE: Type 1

VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4

A.I.C. RATING:
BUS RATING: 225 A
MAIN CB: 150 A

CKT	CIRCUIT DESCRIPTION	LC	TRIP	POLES	A	A	B	B	C	C	POLES	TRIP	LC	CIRCUIT DESCRIPTION	CKT
1	(1) RECEPTACLE//LIGHTING: FLOOR 2 BATHROOMS	Power	20 A	1	0.18 kVA	0.80 kVA					1	20 A	Appliance	EDF [GFI BREAKER]	2
3	(3) RECEPTACLES: CLASSROOM 201	Receptacle	20 A	1			0.54 kVA	0.54 kVA			1	20 A	Receptacle	(4) RECEPTACLES: CLASSROOM 201	4
5	(1) RECEPTACLE: COUNTER//LED COUNTER & BATH	Power	20 A	1					0.18 kVA	0.36 kVA	1	20 A	Receptacle	MINI REFRIGERATOR / MICRO	6
7	(4) RECEPTACLES//COUNTER LED: CLASSROOM 202	Receptacle...	20 A	1	0.72 kVA	0.54 kVA					1	20 A	Receptacle	(3) RECEPTACLES: CLASSROOM 203	8
9	(4) RECEPTACLES//COUNTER LED: CLASSROOM 203	Receptacle...	20 A	1			0.72 kVA	0.54 kVA			1	20 A	Receptacle	(3) RECEPTACLES: CLASSROOM 204	10
11	(4) RECEPTACLES//COUNTER LED: CLASSROOM 204	Receptacle...	20 A	1					0.72 kVA	0.54 kVA	1	20 A	Receptacle	(3) RECEPTACLES: CLASSROOM 205	12
13	(4) RECEPTACLES//COUNTER LED: CLASSROOM 205	Receptacle...	20 A	1	0.72 kVA	0.72 kVA					1	20 A	Receptacle...	(4) RECEPTACLES//COUNTER LED: CLASSROOM 206	14
15	(3) RECEPTACLES: CLASSROOM 206	Receptacle	20 A	1			0.54 kVA	0.54 kVA			1	20 A	Receptacle	(3) RECEPTACLES: CLASSROOM 207	16
17	(4) RECEPTACLES//COUNTER LED: CLASSROOM 207	Receptacle...	20 A	1					0.72 kVA	1.52 kVA	1	20 A	Receptacle	(6) RECEPTACLES: FLOOR 2 HALLWAY	18
19	MINI REF / MICROWAVE	Receptacle	20 A	1	1.50 kVA	1.50 kVA					1	20 A	Receptacle	MINI REF / MICROWAVE	20
21	MINI REF / MICROWAVE	Receptacle	20 A	1			1.50 kVA	1.50 kVA			1	20 A	Receptacle	MINI REF / MICROWAVE	22
23	MINI REF / MICROWAVE	Receptacle	20 A	1					1.50 kVA	1.50 kVA	1	20 A	Receptacle	Power	24
25	EDF [GFI BREAKER]	Appliance	20 A	1	0.80 kVA	0.36 kVA					1	20 A	Power	(2) RECEPTACLES: BATHROOM 214	26
27	(1) RECEPTACLE//LIGHTING: FLOOR 2 BATHROOMS	Receptacle	20 A	1			0.18 kVA	0.74 kVA			1	20 A	Lighting	LIGHTING: SECOND FLOOR COORIDOR	28
29	(3) RECEPTACLES: CLASSROOM 202	Receptacle	20 A	1					0.54 kVA	1.50 kVA	1	20 A	Appliance	WASHING MACHINE - UTILITY 223	30
31	DRYER - 6-30R	Appliance	30 A	2	2.75 kVA	0.18 kVA					1	20 A	Receptacle	(1) RECEPTACLE: KITCHEN COUNTERTOP	32
33	--	--	--	--			2.75 kVA	1.20 kVA			1	20 A	Receptacle	REFRIGERATOR	34
35	(5) RECEPTACLES: EXTERIOR	Receptacle...	20 A	1					1.52 kVA	1.00 kVA	1	20 A	Other	VAV'S - 2ND FLOOR	36
37	MINI REF / MICROWAVE - 216	Receptacle	20 A	1	1.50 kVA	0.50 kVA					1	20 A	Power	FIRE ALARM BATTERY EXPANDER	38
39	(3) RECEPTACLES: ACTIVITY 216	Receptacle...	20 A	1			0.54 kVA	0.54 kVA			1	20 A	Receptacle...	(2) RECEPTACLES: ACTIVITY 216	40
41	MINI REF / MICROWAVE - 216	Receptacle	20 A	1					1.50 kVA	0.15 kVA	1	20 A	Lighting	LIGHTING: INTERIOR SOFFIT 2ND FLOOR	42
43															44
45															46
47															48
49															50
51															52
53															54
55															56
57															58
59															60
61						0.50 kVA					2	20 A	Motor	VRF-2-12. 30AS/NF/2P/N1 - ACTIVITY 216	62
63	VRF-2-11. 30AS/NF/2P/N1 - ACTIVITY 216	Motor	20 A	2			0.50 kVA	0.50 kVA			--	--	--	--	64
65	--	--	--	--					0.50 kVA	1.00 kVA	2	20 A	Motor	VRF-2-8 - 30AS/NF/2P/N1 - ACTIVITY	66
67	VRF-2-1 - 30AS/NF/2P/N1 - CLASSROOM 201	Motor	20 A	2	0.50 kVA	1.00 kVA					--	--	--	--	68
69	--	--	--	--			0.50 kVA	0.50 kVA			2	20 A	Motor	VRF-2-2 - 30AS/NF/2P/N1 - CLASSROOM 202	70
71	VRF-2-3 - 30AS/NF/2P/N1 - CLASSROOM 203	Motor	20 A	2					0.50 kVA	0.50 kVA	--	--	--	--	72
73	--	--	--	--	0.50 kVA	0.50 kVA					2	20 A	Motor	VRF-2-4 - 30AS/NF/2P/N1 - CLASSROOM 204	74
75	VRF-2-5 - 30AS/NF/2P/N1 - CLASSROOM 205	Motor	20 A	2			0.50 kVA	0.50 kVA			--	--	--	--	76
77	--	--	--	--					0.50 kVA	0.50 kVA	2	20 A	Motor	VRF-2-6 - 30AS/NF/2P/N1 - CLASSROOM 206	78
79	VRF-2-7 - 30AS/NF/2P/N1 - CLASSROOM 207	Motor	20 A	2	0.50 kVA	0.50 kVA					--	--	--	--	80
81	--	--	--	--			0.50 kVA	0.50 kVA			2	20 A	Motor	VRF-2-9 - 30AS/NF/2P/N1 - LOUNGE/RR 221/214	82
83										0.50 kVA	--	--	--	--	84
				TOTAL LOAD:	16.77 kVA		15.97 kVA		16.88 kVA						
				TOTAL AMPS:	141 A		133 A		142 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Lighting	0.89 kVA	125.00%	1.11 kVA		
Motor	11.29 kVA	110.70%	12.50 kVA	**TOTAL CONN. LOAD:**	49.61 kVA
Other	1.00 kVA	100.00%	1.00 kVA	**TOTAL EST. DEMAND:**	41.66 kVA
Power	3.46 kVA	100.00%	3.46 kVA	**TOTAL CONN..:**	138 A
Receptacle	24.44 kVA	70.46%	17.22 kVA	**TOTAL EST. DEMAND:**	116 A
Appliance	8.60 kVA	75.00%	6.45 kVA		

NOTES:
USE 2#12CU + 1#12G IN 3/4" FOR 20A/1P BREAKER U.O.N
*GFI BREAKER
**NON-COINCIDENT LOADS (LARGER OF TWO CALCULATED)

Branch Panel: 3H

Location: JANITOR 305
Supply From: MDP
Mounting: SURFACE
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 35000
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A	A	B	B	C	C	Poles	Trip	Circuit Description	CKT
1	EWH-1 [24KW] - 60AS/NF/3P/N1R	40 A	3	8.00 kVA	8.00 kVA					3	40 A	EWH-2 [24KW] - 60AS/NF/3P/N1R	2
3	--	--	--			8.00 kVA	8.00 kVA			--	--	--	4
5	--	--	--					8.00 kVA	8.00 kVA	--	--	--	6
7	LIGHTING: THRID FLOOR LOBBY SIDE	20 A	1	0.61 kVA	0.38 kVA					1	20 A	LIGHTING: THIRD FLOOR ATRIUM	8
9	LIGHTING: THIRD FLOOR ATRIUM SPECIALTY	20 A	1			0.80 kVA	0.29 kVA			1	20 A	Lighting	10
11													12
13													14
15													16
17													18
19					12.17...					3	60 A	DOAS-1 [30KW + 3HP] VIA 60AS/60AS/3P/N3R	20
21							12.17...			--	--	--	22
23									12.17...	--	--	--	24
25					15.00...					3	60 A	VRF-1 [25T] - VIA 60AS/60AF/3P/N3R	26
27							15.00...			--	--	--	28
29									15.00...	--	--	--	30
31	EVELVATOR [25 HP] VIA POWER MODULE	60 A	3	9.00 kVA	12.17...					3	60 A	DOAS-2 [30KW + 3HP] VIA 60AS/60AS/3P/N3R	32
33	--	--	--			9.00 kVA	12.17...			--	--	--	34
35	--	--	--					9.00 kVA	12.17...	--	--	--	36
37	PANEL '3L' - VIA 45KVA	100 A	3	2.66 kVA	15.00...					3	60 A	VRF-2 [25T] - VIA 60AS/60AF/3P/N3R	38
39	--	--	--			2.52 kVA	15.00...			--	--	--	40
41	--	--	--					2.56 kVA	15.00...	--	--	--	42
			Total Load:	82.85 kVA		82.85 kVA		81.89 kVA					
			Total Amps:	300 A		300 A		296 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	2.56 kVA	125.00%	3.20 kVA		
Motor	27.27 kVA	127.44%	34.75 kVA	**Total Conn. Load:**	247.59 kVA
Other	1.34 kVA	100.00%	1.34 kVA	**Total Est. Demand:**	201.98 kVA
Power	3.26 kVA	100.00%	3.26 kVA	**Total Conn.:**	298 A
Receptacle	1.94 kVA	100.00%	1.94 kVA	**Total Est. Demand:**	243 A
Mechanical - Cooling	163.00 kVA	67.00%	109.21 kVA		

Notes:
USE 2#12CU + 1#12G IN 3/4" FOR 20A/1P BREAKER U.O.N

Branch Panel: 3L

Location: JANITOR 305
Supply From: 480-208Y120 45 KVA, 277 V/480 V,...
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 150 A

Notes:

CKT	Circuit Description	Trip	Poles	A	A	B	B	C	C	Poles	Trip	Circuit Description	CKT
1	Power	20 A	1	0.80 kVA	0.80 kVA					1	20 A	Power	2
3	(3) RECEPTACLES: FLOOR 3 LOBBY/BATHROOM	20 A	1			0.54 kVA	0.80 kVA			1	20 A	EDF [GFI BREAKER]	4
5	(4) RECEPTACLES - ROOF	20 A	1					0.72 kVA	0.22 kVA	1	20 A	RECEPTACLE - ELEVATOR MACHINE ROOM	6
7	CIRC. PUMP	20 A	1	0.25 kVA	0.14 kVA					1	20 A	LIGHTING: THIRD FLOOR STAIRWELL/RECESSED	8
9	(2) RECEPTACLES - ROOF	20 A	1			0.36 kVA	0.50 kVA			1	20 A	FIRE ALARM BATTERY EXPANDER	10
11	Lighting	20 A	1					0.33 kVA	0.50 kVA	1	20 A	BATTERY INVERTER - COORD CONNECTION TYPE	12
13	VRF-2-10. 30AS/NF/2P/N1 - LEVEL 1 LOBBY	20 A	2	0.50 kVA	0.49 kVA					1	20 A	Lighting	14
15	--	--	--			0.50 kVA	0.15 kVA			1	20 A	LIGHTING: INTERIOR SOFFIT	16
17	EXHUAST FAN - EF-1 [1/2HP]	20 A	1					0.80 kVA					18
19													20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
			Total Load:	2.66 kVA		2.52 kVA		2.56 kVA					
			Total Amps:	22 A		21 A		21 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	1.15 kVA	125.00%	1.44 kVA		
Motor	1.00 kVA	125.00%	1.25 kVA	**Total Conn. Load:**	7.71 kVA
Other	1.05 kVA	100.00%	1.05 kVA	**Total Est. Demand:**	8.10 kVA
Power	3.26 kVA	100.00%	3.26 kVA	**Total Conn.:**	21 A
Receptacle	1.94 kVA	100.00%	1.94 kVA	**Total Est. Demand:**	22 A

Notes:
USE 2#12CU + 1#12G IN 3/4" FOR 20A/1P BREAKER U.O.N
*GFI BREAKER
**NON-COINCIDENT LOADS (LARGER OF TWO CALCULATED)

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ISSUES AND REVISIONS

NO	DATE	DESCRIPTION
	07-22-2019	ISSUED FOR PERMIT
	08-16-2019	ISSUED FOR BID
1	08-26-2019	ADDENDUM 2

STATE OF TEXAS
DAVIA ANN GERNAND
109903
LICENSED
PROFESSIONAL ENGINEER
26 AUG 2019

GH SCHOOL
4724 N MAIN STREET

SHEET TITLE
PANEL SCHEDULES

SHEET NUMBER
E121
PROJECT # 19.02

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