



ISSUANCE/REVISIONS

- ▲ ISSUE FOR PERMIT 08/19/19
- ▲ REV 1 PER CITY 08/21/19
- ▲ REV 2 PER CITY 08/21/19
- ▲ REV 3 PER CITY 08/26/19
- ▲ REV 4 PER CITY 08/29/19
- ▲ REV 5 PER CLIENT AND ISSUE FOR BID 08/30/19



North Carolina Firm Registration
NCBOE: P-0612
Sec of State: 0909178

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Drawn By: JEJ
Checked By: RTJ
Scale: Date: 07.23.2019

Job No.: 1902037
Sheet No.: E200

Panel: 1LB2																
Volts: 208/120V Wye																
Phases: 3																
Wires: 4																
Mounting: Surface																
Enclosure: Type 1																
Mains: LUGS																
Amperage: 100 A																
MCB Rating:																
CKT	Circuit Description	Rating	Poles	Type Notes	CKT AMPS	Load Type	A	B	C	Lead Type	CKT AMPS	Type Notes	Poles	Rating	Circuit Description	CKT
1	TEACHER WORKROOM - GARBAGE DISPOSAL	20A	1		18.1	F	2.2 kVA	1.0 kVA			G, F	8.2	1	20A	TEACHER WORKROOM - REFRIGERATOR	2
3	RECEPTION REFRIGERATOR	20A	1		3.0	G, F		0.4 kVA	0.4 kVA		G	3.0	1	20A	TEACHER WORKROOM - MICROWAVE	4
5	TUTOR ROOM 1 & 3 - RECEPTACLES	20A	1		13.5	G			1.4 kVA	0.5 kVA	G	4.5	1	20A	TEACHER WORKROOM - DISHWASHER	6
7	RESTROOMS - RECEPTACLES	20A	1		7.5	G	0.9 kVA	0.5 kVA			G, F	7.7	1	20A	WATER FOUNTAIN (WF-1)	8
9	HOMEWORK ROOM - IN FLOOR RECEPTACLES	20A	1		4.5	G		0.5 kVA	0.7 kVA							10
11	TECH LAB - RECEPTACLES	20A	1		13.5	G			1.6 kVA	0.7 kVA	C	6.5	2	20A	CU-3/TU-3 (IT MINI-SPLIT SYSTEM)	12
13	ART - RECEPTACLES	20A	1		10.5	G	1.3 kVA	1.6 kVA			G	13.5	1	20A	GROUP LEARNING 4 RECEPTACLES	14
15	SPARE	20A	1				0.0 kVA	2.0 kVA			G	16.5	1	20A	HOMEWORK ROOM - COPIER	16
17	SPARE	20A	1					0.0 kVA	2.0 kVA		G	16.5	1	20A	MUSIC ROOM - RECEPTACLES	18
19	SPARE	20A	1				0.0 kVA	1.3 kVA			G	10.5	1	20A	SCIENCE - RECEPTACLES	20
21	SPARE	20A	1				0.0 kVA	0.0 kVA					1	20A	SPARE	22
23	SPARE	20A	1					0.0 kVA	0.0 kVA				1	20A	SPARE	24
25	SPARE	20A	1				0.0 kVA	0.0 kVA					1	20A	SPARE	26
27	SPARE	20A	1				0.0 kVA	0.0 kVA					1	20A	SPARE	28
29	SPARE	20A	1				0.0 kVA	0.0 kVA					1	20A	SPARE	30
31	SPARE	20A	1				0.0 kVA	0.0 kVA					1	20A	SPARE	32
33	SPARE	20A	1				0.0 kVA	0.0 kVA					1	20A	SPARE	34
35	SPARE	20A	1				0.0 kVA	0.0 kVA					1	20A	SPARE	36
37	SPARE	20A	1				0.0 kVA	0.0 kVA					1	20A	SPARE	38
39	SPARE	20A	1				0.0 kVA	0.0 kVA					1	20A	SPARE	40
41	SPARE	20A	1				0.0 kVA	0.0 kVA					1	20A	SPARE	42
							kVA	9.1 kVA	3.9 kVA	6.4 kVA						
							AMPS	79 A	33 A	57 A						

Type	Description	Connected Load	Demand Factor	Estimated Demand	Panel Totals (Includes Panel B)
A	Interior Lighting	0 kVA	0.00%	0 kVA	Total Connected kVA: 13 kVA Total Connected Amps: 54 A Total Estimated kVA: 11 kVA Total Estimated Amps: 43 A Non-Coincident Heating/Cooling Load: 0 A Total Estimated Amps - Non-Coincident Loads: 43 A
B	Exterior Lighting	0 kVA	0.00%	0 kVA	
C	Comfort Cooling	1 kVA	100.00% + 25% Largest Motor	1 kVA	
D	Comfort Heating	0 kVA	0.00%	0 kVA	
E	Miscellaneous Motor	0 kVA	0.00%	0 kVA	
F	Kitchen Equipment	4 kVA	65.00%	3 kVA	
G	Receptacles	14 kVA	85.16%	12 kVA	

Panel: 1LB1																
Volts: 208/120V Wye																
Phases: 3																
Wires: 4																
Mounting: Surface																
Enclosure: Type 1																
Mains: MCB																
Amperage: 400 A																
MCB Rating: 250 A																
CKT	Circuit Description	Rating	Poles	Type Notes	CKT AMPS	Load Type	A	B	C	Lead Type	CKT AMPS	Type Notes	Poles	Rating	Circuit Description	CKT
1	TUTOR ROOM 6 & 8 - RECEPTACLES	20A	1		13.5	G	1.6 kVA	1.6 kVA			G	13.5	1	20A	TUTOR ROOM 2 & 4 - RECEPTACLES	2
3	TUTOR ROOM 9 & 10 - RECEPTACLES	20A	1		13.5	G		1.6 kVA	1.6 kVA		G	13.5	1	20A	TUTOR ROOM 7 & 18 - RECEPTACLES	4
5	TUTOR ROOM 13 & 14 - RECEPTACLES	20A	1		13.5	G			1.6 kVA	1.6 kVA	G	13.5	1	20A	TUTOR ROOM 11 & 12 - RECEPTACLES	6
7	TUTOR ROOM 5 & HOMEWORK ROOM SOUTHWEST - RECEPTACLES	20A	1		31.5	G	3.8 kVA	1.6 kVA			G	33.5	1	20A	TUTOR ROOM 16 & 17 - RECEPTACLES	8
9	ACTIVITY ROOM - RECEPTACLES	20A	1		9.0	G		1.1 kVA	1.6 kVA		G	13.5	1	20A	TUTOR ROOM 19 & 20 - RECEPTACLES	10
11	NORTH CORRIDOR RECEPTACLES	20A	1		7.5	G			0.9 kVA	0.2 kVA	G	1.5	1	20A	STORAGE - RECEPTACLES	12
13	IT EQUIPMENT - RECEPTACLES	20A	1		6.0	G	0.7 kVA	0.7 kVA			G	6.0	1	20A	SOUTHERN CORRIDOR - RECEPTACLES	14
15	READING ROOM - RECEPTACLES	20A	1		1.5	G		0.2 kVA	0.4 kVA		G	3.0	1	20A	STORAGE - RECEPTACLES	16
17	READING ROOM - COPIER	20A	1		1.5	G			0.2 kVA	0.2 kVA	G	1.5	1	20A	READING ROOM - RECEPTACLES	18
19	ADMIN 1 - RECEPTACLES	20A	1		10.5	G	1.3 kVA	0.2 kVA			G	1.5	1	20A	READING ROOM - IN RECEPTACLES	20
21	ADMIN 3 - RECEPTACLES	20A	1		10.5	G		1.3 kVA	1.3 kVA		G	10.5	1	20A	ADMIN 2 - RECEPTACLES	22
23	RECEPTION LOUNGE - RECEPTACLES	20A	1		13.5	G			1.6 kVA	0.9 kVA	G	13.5	1	20A	ADMIN 4 - RECEPTACLES	24
25	RECEPTION DESK - RECEPTACLES	20A	1		10.5	G	1.3 kVA	1.6 kVA			G	13.5	1	20A	GROUP LEARNING 1 - RECEPTACLES	26
27	RECEPTION STRIP LIGHTING	20A	1		4.0	A		0.5 kVA	0.5 kVA		A	4.1	1	20A	TEACHER WORKROOM - RECEPTACLES	28
29	TEACHER WORKROOM - KITCHENETTE RECEPTACLES	20A	1		4.5	G			0.5 kVA	0.5 kVA	G	4.5	1	20A	TEACHER WORKROOM - COPIER	30
31	HOMEWORK ROOM - RECEPTACLES	20A	1		10.6	G	1.3 kVA	0.5 kVA			G	13.5	1	20A	TUTOR ROOM 15 & SILENT HOMEWORK NORTH RECEPTACLES	32
33	GROUP LEARNING 2 RECEPTACLES	20A	1		13.5	G		0.0 kVA			A	0.0	1	20A	ROPE LIGHTING TIMER SWITCH	34
35	SILENT HOMEWORK SOUTH RECEPTACLES	20A	1		27.0	G			3.2 kVA	0.9 kVA	G	7.5	1	20A	SILENT HOMEWORK FLOOR RECEPTACLES	36
37	SPACE	20A	1				0.0 kVA	5.1 kVA								38
39	SPACE	20A	1				0.0 kVA	3.9 kVA		G, C, F	54.0	3	100A	Panel 1LB2		40
41	SPACE	20A	1					0.0 kVA	6.4 kVA							42
							kVA	26.4 kVA	16.7 kVA	18.9 kVA						
							AMPS	223 A	139 A	160 A						

Type	Description	Connected Load	Demand Factor	Estimated Demand	Panel Totals (Includes Panel B)
A	Interior Lighting	0 kVA	0.00%	0 kVA	Total Connected kVA: 42 kVA Total Connected Amps: 172 A Total Estimated kVA: 38 kVA Total Estimated Amps: 105 A Non-Coincident Heating/Cooling Load: 0 A Total Estimated Amps - Non-Coincident Loads: 105 A
B	Exterior Lighting	0 kVA	0.00%	0 kVA	
C	Comfort Cooling	1 kVA	100.00% + 25% Largest Motor	1 kVA	
D	Comfort Heating	0 kVA	0.00%	0 kVA	
E	Miscellaneous Motor	0 kVA	0.00%	0 kVA	
F	Kitchen Equipment	5 kVA	65.00%	4 kVA	
G	Receptacles	35 kVA	59.14%	32 kVA	

Panel: 1H																
Volts: 480/277V Wye																
Phases: 3																
Wires: 4																
Mounting: Surface																
Enclosure: Type 1																
Mains: LUGS																
Amperage: 125 A																
MCB Rating:																
CKT	Circuit Description	Rating	Poles	Type Notes	CKT AMPS	Load Type	A	B	C	Lead Type	CKT AMPS	Type Notes	Poles	Rating	Circuit Description	CKT
1	ELECTRICAL TIMECLOCK CONTROLLED LIGHTING	20A	1		3.3	A	0.9 kVA	0.0 kVA							SPACE	2
3	LIGHTING NORTH	20A	1		5.3	A		1.5 kVA							SPACE	4
5	LIGHTING SOUTH EAST	20A	1		2.5	A			0.8 kVA	0.0 kVA			1	20A	SPACE	6
7	LIGHTING SOUTHWEST & CENTER	20A	1			A			0.3 kVA	0.0 kVA			1	20A	SPACE	8
9	SPARE	20A	1					0.0 kVA	0.0 kVA				1	20A	SPACE	10
11	SPARE	20A	1					0.0 kVA	0.0 kVA				1	20A	SPACE	12
13	SPARE	20A	1				0.0 kVA	0.0 kVA					1	20A	SPACE	14
15	SPARE	20A	1				0.0 kVA	0.0 kVA					1	20A	SPACE	16
17	SPARE	20A	1				0.0 kVA	0.0 kVA					1	20A	SPACE	18
19	SPARE	20A	1				0.0 kVA	0.0 kVA					1	20A	SPACE	20
21	SPARE	20A	1				0.0 kVA	0.0 kVA					1	20A	SPACE	22
23	SPARE	20A	1				0.0 kVA	0.0 kVA					1	20A	SPACE	24
25	SPARE	20A	1				0.0 kVA	0.0 kVA					1	20A	SPACE	26
27	SPARE	20A	1				0.0 kVA	0.0 kVA					1	20A	SPACE	28
29	SPARE	20A	1				0.0 kVA	0.0 kVA					1	20A	SPACE	30
31	SPARE	20A	1				0.0 kVA	0.0 kVA					1	20A	SPACE	32
33	SPARE	20A	1				0.0 kVA	0.0 kVA					1	20A	SPACE	34
35	SPARE	20A	1				0.0 kVA	0.0 kVA					1	20A	SPACE	36
37	SPARE	20A	1				0.0 kVA	0.0 kVA					1	20A	SPACE	38
39	SPARE	20A	1				0.0 kVA	0.0 kVA					1	20A	SPACE	40
41	SPARE	20A	1				0.0 kVA	0.0 kVA					1	20A	SPACE	42
							kVA	1.6 kVA	1.5 kVA	0.8 kVA						
							AMPS	6 A	6 A	3 A						

Type	Description	Connected Load	Demand Factor	Estimated Demand	Panel Totals (Includes Panel B)
A	Interior Lighting	4 kVA	1		