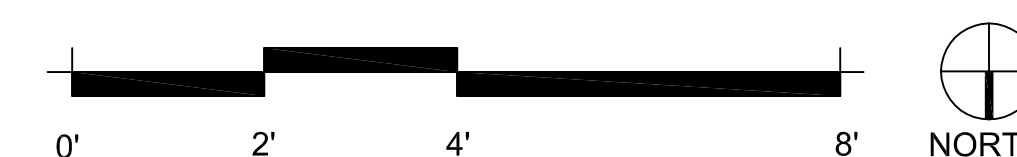


- ### SHEET NOTES:
1. CONTRACTOR TO CIRCUIT TRACE ALL EXISTING CIRCUITS RELATED TO ELECTRICAL EQUIPMENT SHOWN AS BEING DEMOLISHED.
 2. REFER TO SINGLE LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
 3. REFER TO SHEET E505 FOR SWITCHBOARD ELEVATION DETAIL S.



FINAL BID DOCUMENTS

[illegible]

A
B
C
D
E
F

Branch Panel: 2CC

Location: OPEN LAB C248
Supply From:
Mounting: Surface
Enclosure: Type 1

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

A.I.C. Rating: 10,000
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

Notes: REFER TO SINGLE LINE DIAGRAM

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	WORKSTATION OPEN LAB C248	20 A	1	1080	720 VA			1	20 A	WORKSTATION OPEN LAB C248	2
3	WORKSTATION OPEN LAB C248	20 A	1		720 VA	720 VA		1	20 A	WORKSTATION OPEN LAB C248	4
5	WORKSTATION OPEN LAB C248	20 A	1			720 VA	1080	1	20 A	WORKSTATION OPEN LAB C248	6
7	WORKSTATION OPEN LAB C248	20 A	1	720 VA	720 VA			1	20 A	WORKSTATION OPEN LAB C248	8
9	WORKSTATION OPEN LAB C248	20 A	1		720 VA	1080		1	20 A	WORKSTATION OPEN LAB C248	10
11	WORKSTATION OPEN LAB C248	20 A	1			1080	720 VA	1	20 A	WORKSTATION OPEN LAB C248	12
13	WORKSTATION OPEN LAB C248	20 A	1	720 VA	1080			1	20 A	WORKSTATION OPEN LAB C248	14
15	WORKSTATION OPEN LAB C248	20 A	1		720 VA	720 VA		1	20 A	WORKSTATION OPEN LAB C248	16
17	WORKSTATION OPEN LAB C248	20 A	1			1080	720 VA	1	20 A	WORKSTATION OPEN LAB C248	18
19	WORKSTATION OPEN LAB C248	20 A	1	720 VA	720 VA			1	20 A	WORKSTATION OPEN LAB C248	20
21	WORKSTATION OPEN LAB C248	20 A	1		720 VA	1080		1	20 A	WORKSTATION OPEN LAB C248	22
23	WORKSTATION OPEN LAB C248	20 A	1			1080	720 VA	1	20 A	WORKSTATION OPEN LAB C248	24
25	WORKSTATION OPEN LAB C248	20 A	1	720 VA	1080			1	20 A	WORKSTATION OPEN LAB C248	26
27	WORKSTATION OPEN LAB C248	20 A	1		720 VA	720 VA		1	20 A	WORKSTATION OPEN LAB C248	28
29	WORKSTATION OPEN LAB C248	20 A	1			1080	720 VA	1	20 A	WORKSTATION OPEN LAB C248	30
31	WORKSTATION OPEN LAB C248	20 A	1	720 VA	720 VA			1	20 A	WORKSTATION OPEN LAB C248	32
33	WORKSTATION OPEN LAB C248	20 A	1		720 VA	1080		1	20 A	WORKSTATION OPEN LAB C248	34
35	WORKSTATION OPEN LAB C248	20 A	1			1080	720 VA	1	20 A	WORKSTATION OPEN LAB C248	36
37	WORKSTATION OPEN LAB C248	20 A	1	720 VA	720 VA			1	20 A	WORKSTATION OPEN LAB C248	38
39	WORKSTATION OPEN LAB C248	20 A	1		720 VA	1920		1	20 A	GW OPEN LAB C248	40
41	WORKSTATION OPEN LAB C248	20 A	1			1080	1440	1	20 A	FR-05 OPEN LAB C248	42
Total Load:				11160 VA	12360 VA	13320 VA					
Total Amps:				93 A	105 A	113 A					

Load Classification

Receptacle
Lighting
HVAC
Kitchen Equipment - Non-Dwelling Unit
Equipment
Motor
Transformer
Power
Spare

Connected Load
0 VA
0 VA
0 VA
0 VA
0 VA
0 VA
36840 VA
0 VA

Demand Factor
0.00%
0.00%
0.00%
0.00%
0.00%
0.00%
100.00%
0.00%

Estimated Demand
0 VA
0 VA
0 VA
0 VA
0 VA
0 VA
36840 VA
0 VA

Panel Totals
Total Conn. Load: 36840 VA
Total Est. Demand: 36840 VA
Total Conn.: 102 A
Total Est. Demand: 102 A

Notes:

Branch Panel: 2CD

Location: Space 6
Supply From:
Mounting: Recessed
Enclosure: Type 1

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

A.I.C. Rating: 10,000
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

Notes: REFER TO SINGLE LINE DIAGRAM

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	WORKSTATION OPEN LAB C248	20 A	1	720 VA	720 VA			1	20 A	WORKSTATION OPEN LAB C248	2
3	WORKSTATION OPEN LAB C248	20 A	1		720 VA	720 VA		1	20 A	WORKSTATION OPEN LAB C248	4
5	WORKSTATION OPEN LAB C248	20 A	1			720 VA	720 VA	1	20 A	WORKSTATION OPEN LAB C248	6
7	WORKSTATION OPEN LAB C248	20 A	1	720 VA	720 VA			1	20 A	WORKSTATION OPEN LAB C248	8
9	WORKSTATION OPEN LAB C248	20 A	1		720 VA	720 VA		1	20 A	WORKSTATION OPEN LAB C248	10
11	WORKSTATION OPEN LAB C248	20 A	1			720 VA	720 VA	1	20 A	WORKSTATION OPEN LAB C248	12
13	WORKSTATION OPEN LAB C248	20 A	1	720 VA	720 VA			1	20 A	WORKSTATION OPEN LAB C248	14
15	WORKSTATION OPEN LAB C248	20 A	1		720 VA	720 VA		1	20 A	WORKSTATION OPEN LAB C248	16
17	WORKSTATION OPEN LAB C248	20 A	1		720 VA	720 VA		1	20 A	WORKSTATION OPEN LAB C248	18
19	WORKSTATION OPEN LAB C248	20 A	1	720 VA	720 VA			1	20 A	WORKSTATION OPEN LAB C248	20
21	WORKSTATION OPEN LAB C248	20 A	1		720 VA	720 VA		1	20 A	WORKSTATION OPEN LAB C248	22
23	WORKSTATION OPEN LAB C248	20 A	1			1080	720 VA	1	20 A	WORKSTATION OPEN LAB C248	24
25	WORKSTATION OPEN LAB C248	20 A	1	720 VA	720 VA			1	20 A	WORKSTATION OPEN LAB C248	26
27	WORKSTATION OPEN LAB C248	20 A	1		720 VA	720 VA		1	20 A	WORKSTATION OPEN LAB C248	28
29	WORKSTATION OPEN LAB C248	20 A	1			720 VA	720 VA	1	20 A	WORKSTATION OPEN LAB C248	30
31	WORKSTATION OPEN LAB C248	20 A	1	720 VA	720 VA			1	20 A	WORKSTATION OPEN LAB C248	32
33	WORKSTATION OPEN LAB C248	20 A	1		720 VA	720 VA		1	20 A	WORKSTATION OPEN LAB C248	34
35	WORKSTATION OPEN LAB C248	20 A	1			720 VA		1	20 A	WORKSTATION OPEN LAB C248	36
37	WORKSTATION OPEN LAB C248	20 A	1	720 VA	1920			1	20 A	GW OPEN LAB C248	38
39	WORKSTATION OPEN LAB C248	20 A	1		720 VA	1920		1	20 A	GW OPEN LAB C248	40
41	WORKSTATION OPEN LAB C248	20 A	1			1080					42
Total Load:				11280 VA	11280 VA	9360 VA					
Total Amps:				96 A	96 A	78 A					

Load Classification

Power

Connected Load
31920 VA

Demand Factor
100.00%

Estimated Demand
31920 VA

Panel Totals
Total Conn. Load: 31920 VA
Total Est. Demand: 31920 VA
Total Conn.: 89 A
Total Est. Demand: 89 A

Notes:

Branch Panel: 2CA

Location: Space 6
Supply From:
Mounting: Recessed
Enclosure: Type 1

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

A.I.C. Rating: 10,000
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

Notes: REFER TO SINGLE LINE DIAGRAM

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	STERILIZER STEAM GENERATOR	125 A	3	9980	720 VA			1	20 A	WORKSTATION RECEP C247	2
3	--	--	--		9980	720 VA		1	20 A	WORKSTATION RECEP C247	4
5	--	--	--			9980	720 VA	1	20 A	MICROSCOPE C247	6
7	WORKSTATION OPEN LAB C248	20 A	1	1080	180 VA			1	20 A	LIQUID NITROGEN C250	8
9	WORKSTATION OPEN LAB C248	20 A	1		720 VA	1116		1	20 A	STERILIZER C251	10
11	WORKSTATION OPEN LAB C248	20 A	1			720 VA	1080	1	20 A	LIQUID NITROGEN FREEZER C250	12
13	WORKSTATION OPEN LAB C248	20 A	1	720 VA	960 VA			1	20 A	LTO C242, C243, C247, C244, C240, C245	14
15	WORKSTATION OPEN LAB C248	20 A	1		720 VA	720 VA		1	20 A	WORKSTATION RECEP C240	16
17	WORKSTATION OPEN LAB C248	20 A	1			1080	720 VA	1	20 A	WORKSTATION RECEP C240	18
19	WORKSTATION RECEP C250	20 A	1	720 VA	180 VA			1	20 A	WORKSTATION C251	20
21	WORKSTATION RECEP C250	20 A	1		720 VA	800 VA		1	20 A	FLOOR SHAKING INCUBATOR C245	22
23	WORKSTATION RECEP C250	20 A	1			720 VA	1800	1	20 A	LTO C240, C241, C250, C251	24
25	WORKSTATION RECEP C250	20 A	1	720 VA	1000			1	20 A	C02 MANIFOLD	26
27	MICROSCOPE INNOVATIS C250	20 A	1		295 VA	720 VA		1	20 A	WORKSTATION RECEP C241	28
29	Spare	0 A	1			0 VA	720 VA	1	20 A	WORKSTATION RECEP C241	30
31	SORVALL RC285 C246	20 A	2	2496	1725			1	20 A	FLOW CYTOMETER C246	32
33	--	--	--		2496	1800		1	20 A	SORVALL RT 6000B C246	34
35	Spare	0 A	1			0 VA	1920	1	20 A	CENTRIFUGE EPENDURF C246	36
37	ICE MACHINE C246	20 A	1	1320	0 VA			1	0 A	Spare	38
39	MESO SCALE C246	20 A	1		420 VA	0 VA		1	0 A	Spare	40
41	CENTRIFUGE BECKMAN C246	20 A	1			1560	0 VA	1	0 A	Spare	42
Total Load:				21801 VA	21227 VA	21020 VA					
Total Amps:				182 A	177 A	175 A					

Load Classification

Power

Connected Load
61287 VA

Demand Factor
100.00%

Estimated Demand
61287 VA

Panel Totals
Total Conn. Load: 64047 VA
Total Est. Demand: 64047 VA
Total Conn.: 178 A
Total Est. Demand: 178 A

Notes:

Branch Panel: 2CB

Location: Space 6
Supply From:
Mounting: Recessed
Enclosure: Type 1

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

A.I.C. Rating: 10,000
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

Notes: REFER TO SINGLE LINE DIAGRAM

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	WORKSTATION OPEN LAB C248	20 A	1	720 VA	720 VA			1	20 A	WORKSTATION OPEN LAB C248	2
3	WORKSTATION OPEN LAB C248	20 A	1		540 VA	720 VA		1	20 A	WORKSTATION OPEN LAB C248	4
5	WORKSTATION OPEN LAB C248	20 A	1			720 VA	720 VA	1	20 A	WORKSTATION OPEN LAB C248	6
7	WORKSTATION OPEN LAB C248	20 A	1	720 VA	720 VA			1	20 A	WORKSTATION OPEN LAB C248	8
9	WORKSTATION OPEN LAB C248	20 A	1		720 VA	1080		1	20 A	WORKSTATION OPEN LAB C248	10
11	WORKSTATION OPEN LAB C248	20 A	1			720 VA	720 VA	1	20 A	WORKSTATION OPEN LAB C248	12
13	WORKSTATION OPEN LAB C248	20 A	1	720 VA	720 VA			1	20 A	WORKSTATION OPEN LAB C248	14
15	WORKSTATION OPEN LAB C248	20 A	1		720 VA	1080		1	20 A	WORKSTATION OPEN LAB C248	16
17	WORKSTATION OPEN LAB C248	20 A	1			720 VA	1080	1	20 A	WORKSTATION OPEN LAB C248	18
19	WORKSTATION OPEN LAB C248	20 A	1	720 VA	720 VA			1	20 A	WORKSTATION OPEN LAB C248	20
21	WORKSTATION OPEN LAB C248	20 A	1		1080	720 VA		1	20 A	WORKSTATION OPEN LAB C248	22
23	WORKSTATION OPEN LAB C248	20 A	1			720 VA	720 VA	1	20 A	WORKSTATION OPEN LAB C248	24
25	WORKSTATION OPEN LAB C248	20 A	1	720 VA	720 VA			1	20 A	WORKSTATION OPEN LAB C248	26
27	WORKSTATION OPEN LAB C248	20 A	1		720 VA	720 VA		1	20 A	WORKSTATION OPEN LAB C248	28
29	WORKSTATION OPEN LAB C248	20 A	1			720 VA	720 VA	1	20 A	WORKSTATION OPEN LAB C248	30
31	WORKSTATION OPEN LAB C248	20 A	1	720 VA	720 VA			1	20 A	WORKSTATION OPEN LAB C248	32
33	WORKSTATION OPEN LAB C248	20 A	1		720 VA	900 VA		1	20 A	Power	34
35	WORKSTATION OPEN LAB C248	20 A	1			720 VA	720 VA	1	20 A	WORKSTATION OPEN LAB C248	36
37	WORKSTATION OPEN LAB C248	20 A	1	720 VA	720 VA			1	20 A	WORKSTATION OPEN LAB C248	38
39	WORKSTATION OPEN LAB C248	20 A	1		720 VA	720 VA		1	20 A	WORKSTATION OPEN LAB C248	40
41	WORKSTATION OPEN LAB C248	20 A	1			720 VA	900 VA	1	20 A	WORKSTATION OPEN LAB C248	42
Total Load:				10080 VA	11160 VA	10620 VA					
Total Amps:				84 A	94 A	89 A					

Load Classification

Power

Connected Load
31860 VA

Demand Factor
100.00%

Estimated Demand
31860 VA

Panel Totals
Total Conn. Load: 31860 VA
Total Est. Demand: 31860 VA
Total Conn.: 88 A
Total Est. Demand: 88 A

Notes:

Branch Panel: EM1CA

Location: Space 136
Supply From:
Mounting: Recessed
Enclosure: Type 1

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

A.I.C. Rating: 10,000
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

Notes: REFER TO SINGLE LINE DIAGRAM

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	BIO SAFETY CABINET C143A	20 A	1	1560	680 VA			1	20 A	AHU-1A CONW RECEP AND LIGHTS	2
3	BIO SAFETY CABINET C143A	20 A	1		1560	360 VA		1	20 A	AHU-1A CONTROL PANEL	4
5	BIO SAFETY CABINET C143A	20 A	1			1560	1840	1	20 A	FREEZER C143 LAB	6
7	FUME HOOD CONTROLLER	20 A	1	360 VA	1140			1	20 A	CO2 INCUBATOR	8
9	VAV XFMR	20 A	1		450 VA	720 VA		1	20 A	VENTURI CONTROL VALVE XFMR	10
11	FSD	20 A	1			700 VA	692 VA	1	20 A	ADMIN EMERGENCY POWER	12
13	LTO 1ST FLOOR	20 A	1	1895	180 VA			1	20 A	DDC CONTROLLER	14
15	DDC CONTROLLER IN LAB AREA	20 A	1		180 VA	540 VA		1	20 A	BSC CONTROLLER	16
17	Spare	0 A	1			0 VA	0 VA	--	--	Space	18
19	Spare	0 A	1	0 VA	0 VA			--	--	Space	20
21	Spare	0 A	1		0 VA	0 VA		--	--	Space	22
23	Spare	0 A	1			0 VA	0 VA	--	--	Space	24
25											26
27											28
29											30
31											



Branch Panel: H2CA

Location: Space 76

Supply From:

Mounting: Recessed

Enclosure: Type 1

Volts: 480/277 Vye

Phases: 3

Wires: 4

A.L.C. Rating: 14,000

Mains Type: M.O

Mains Rating: 225 A

MCB Rating:

Notes: REFER TO SINGLE LINE DIAGRAM

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Spare	0 A	1	0 VA	4800					--	3	6-VFD-FHEF-2- ROOF	2
3	Spare	0 A	1			0 VA	4800			--	--		3
5	Spare	0 A	1					0 VA	4800	--	--		4
7	6-VFD-SF2B1 - ROOF	20 A	3	1094	1094					3	20 A	6-VFD-SF2B2 - ROOF	8
9	--	--	--			1094	1094			--	--		10
11	--	--	--					1094	1094	--	--		12
13	6-VFD-SF2B3 - ROOF	20 A	3	1094	1094					3	20 A	6-VFD-SF2B4 - ROOF	14
15	--	--	--			1094	1094			--	--		16
17	--	--	--					1094	1094	--	--		18
19	6-VFD-FHEF-2- ROOF	25 A	3	4800	0 VA					--	--	Space	20
21	--	--	--			4800	0 VA			--	--	Space	22
23	--	--	--					4800	0 VA	--	--	Space	24
25	Space	--	--	0 VA	0 VA					--	--	Space	26
27	Space	--	--			0 VA	0 VA			--	--	Space	28
29	Space	--	--					0 VA	0 VA	--	--	Space	30
31													32
33													34
35													36
37													38
40													40
41													42

Total Load: 13977 VA

Total Amps: 50 A

13977 VA

50 A

13977 VA

50 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacle	0 VA	0.00%	0 VA	Total Conn. Load: 41932 VA
Lighting	0 VA	0.00%	0 VA	
HVAC	0 VA	0.00%	0 VA	Total Est. Demand: 41932 VA
Kitchen Equipment - Non-Dwelling Unit	0 VA	0.00%	0 VA	Total Conn: 50 A
Equipment	0 VA	0.00%	0 VA	Total Est. Demand: 50 A
Motor	0 VA	0.00%	0 VA	
Transformer	0 VA	0.00%	0 VA	
Power	41932 VA	100.00%	41932 VA	
Spare	0 VA	0.00%	0 VA	

Notes:

Branch Panel: 2CH										<div> <div> <div>Location: Space 101</div> <div>Supply From: Mounting: Recessed</div> <div>Enclosure: Type 1</div> </div> <div> <div>Volts: 120/208 Wye</div> <div>Phases: 3</div> <div>Wires: 4</div> </div> <div> <div>A.I.C. Rating: 10,000</div> <div>Mains Type: M.O</div> <div>Mains Rating: 225 A</div> <div>MCB Rating:</div> </div> </div>									
Notes: REFER TO SINGLE LINE DIAGRAM																			
CKT	Circuit Description				Trip	Poles	A		B		C		Poles	Trip	Circuit Description				CKT
1	FUME HOOD C244				20 A	1	1000	1000					1	20 A	FUME HOOD C244				2
3	FUME HOOD C244				20 A	1			1000	1000			1	20 A	FUME HOOD C244				4
5	UC UL1430A C248				20 A	1					960 VA	0 VA	1	0 A	Spare				6
7	Spare				0 A	1	0 VA	0 VA					1	0 A	Spare				8
9	Spare				0 A	1			0 VA	0 VA			1	0 A	Spare				10
11	Spare				0 A	1					0 VA	0 VA	1	0 A	Spare				12
13	DELI RLRA30MA C248				20 A	1	1104	0 VA					1	0 A	Spare				14
15	REVCO FIDGE UGL2320A C248				20 A	1			1620	0 VA			1	0 A	Spare				16
17	REVCO FIDGE UGL2320A C248				20 A	1					1550	1620	1	20 A	REVCO FIDGE UGL2320A C248				18
19	REVCO FIDGE UGL2320A C248				20 A	1	1620	1620					1	20 A	REVCO FIDGE UGL2320A C248				20
21	REVCO FIDGE UGL2320A C248				20 A	1			1550	1620			1	20 A	REVCO FIDGE UGL2320A C248				22
23	REVCO FIDGE UGL2320A C248				20 A	1					1550	1620	1	20 A	REVCO FIDGE UGL2320A C248				24
25	Spare				0 A	1	0 VA	1620					1	20 A	REVCO FIDGE UGL2320A C248				26
27	INC-1 INCUBATOR C240				20 A	1			1152	0 VA			1	0 A	Spare				28
29	INC-1 INCUBATOR C240				20 A	1					1152	1152	1	20 A	INC-1 INCUBATOR C241				30
31	INC-1 INCUBATOR C240				20 A	1	1152	1152					1	20 A	INC-1 INCUBATOR C241				32
33	INC-1 INCUBATOR C240				20 A	1			1152	1152			1	20 A	INC-1 INCUBATOR C241				34
35	INC-1 INCUBATOR C240				20 A	1					1152	1152	1	20 A	INC-1 INCUBATOR C241				36
37	INC-1 INCUBATOR C240				20 A	1	1152	1152					1	20 A	INC-1 INCUBATOR C241				38

Branch Panel: 2CF

Location: OPEN LAB C248
Supply From:
Mounting: Recessed
Enclosure: Type 1

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

A.I.C. Rating: 10,000

Mains Type: MLO

Mains Rating: 150 A

MCB Rating:

Notes: REFER TO SINGLE LINE DIAGRAM

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	GW OPEN LAB C248	20 A	1	1920 0 VA			1	0 A	Spare	2
3	WORKSTATION OPEN LAB C248	20 A	1		720 VA 0 VA		1	0 A	Spare	4
5	WORKSTATION OPEN LAB C248	20 A	1			900 VA 0 VA	1	0 A	Spare	6
7	Spare	0 A	1	0 VA 0 VA			1	0 A	Spare	8
9	Spare	0 A	1		0 VA 0 VA		1	0 A	Spare	10
11	Spare	0 A	1			0 VA 0 VA	1	0 A	Spare	12
13	Spare	0 A	1	0 VA 0 VA			1	0 A	Spare	14
15	Spare	0 A	1		0 VA 0 VA		1	0 A	Spare	16
17	Spare	0 A	1			0 VA 0 VA	1	0 A	Spare	18
19	Spare	0 A	1	0 VA 0 VA			1	0 A	Spare	20
21	Spare	0 A	1		0 VA 0 VA		1	0 A	Spare	22
23	Spare	0 A	1			0 VA 0 VA	1	0 A	Spare	24
25	Spare	0 A	1	0 VA 0 VA			1	0 A	Spare	26
27	Spare	0 A	1		0 VA 0 VA		1	0 A	Spare	28
29	Spare	0 A	1			0 VA 0 VA	1	0 A	Spare	30
31	Spare	0 A	1	0 VA 0 VA			1	0 A	Spare	32
33	Spare	0 A	1		0 VA 0 VA		1	0 A	Spare	34
35	Spare	0 A	1			0 VA 0 VA	1	0 A	Spare	36
37	Spare	0 A	1	0 VA 0 VA			1	0 A	Spare	38
39	Spare	0 A	1		0 VA 0 VA		1	0 A	Spare	40
41	Spare	0 A	1			0 VA 0 VA	1	0 A	Spare	42
		Total Load:		1920 VA	720 VA	900 VA				
		Total Amps:		16 A	6 A	8 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacle	0 VA	0.00%	0 VA	Total Conn. Load: 3540 VA
Lighting	0 VA	0.00%	0 VA	
HVAC	0 VA	0.00%	0 VA	Total Est. Demand: 3540 VA
Kitchen Equipment - Non-Dwelling Unit	0 VA	0.00%	0 VA	Total Conn.: 10 A
Equipment	0 VA	0.00%	0 VA	Total Est. Demand: 10 A
Motor	0 VA	0.00%	0 VA	
Transformer	0 VA	0.00%	0 VA	
Power	3540 VA	100.00%	3540 VA	
Spare	0 VA	0.00%	0 VA	

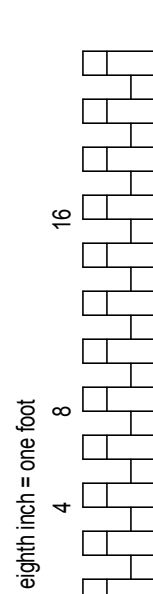
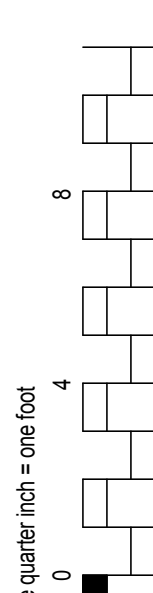
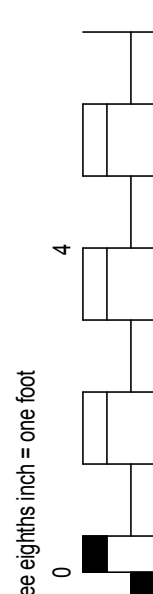
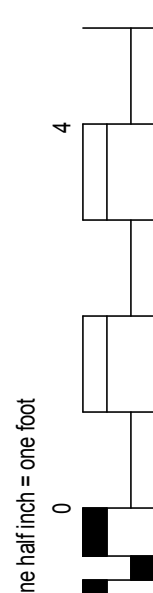
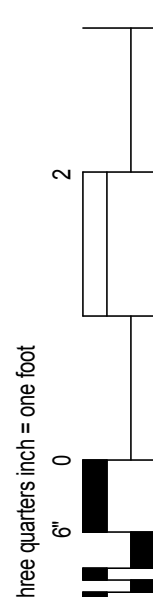
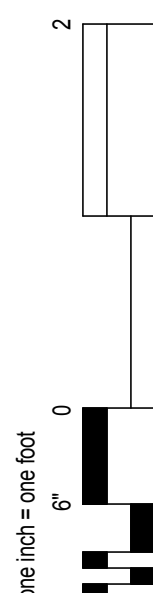
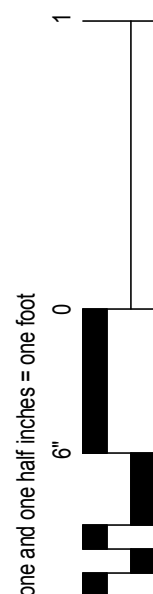
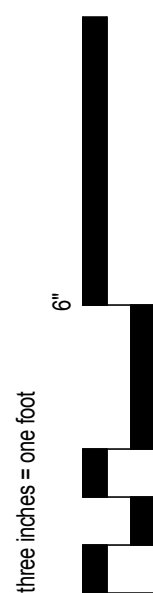
Notes:

CONSULTANTS:



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Branch Panel: EM2CA

Location: Space 6

Supply From:

Mounting: Recessed

Enclosure: Type 1

Volts: 120/208 Vye

Phases: 3

Wires: 4

A.I.C. Rating: 10,000

Mains Type: MLO

Mains Rating: 225 A

MCB Rating:

Notes: REFER TO SINGLE LINE DIAGRAM

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	INC-1 INCUBATOR C241	20 A	1	1152 690 VA			1	20 A	FLAMMABLE FREEZER C244	2
3	INC-1 INCUBATOR C240	20 A	1		1152 0 VA		1	0 A	Spare	4
5	Spare	0 A	1			0 VA 500 VA	1	20 A	NITROGEN MANIFOLD	6
7	FREEZER FARM C245	20 A	1	1840 1980			1	25 A	FREEZER FARM C245	8
9	FREEZER FARM C245	20 A	1		2300 2160		1	25 A	FREEZER FARM C245	10
11	FREEZER FARM C245	20 A	1			2300 1840	1	20 A	FREEZER FARM C245	12
13	BIOSAFETY NUJ-425-600 C241	20 A	1	1560 1840			1	20 A	FREEZER FARM C245	14
15	BIOSAFETY NUJ-425-600 C240	20 A	1		1560 0 VA		1	0 A	Spare	16
17	BIOSAFETY NUJ-425-600 C240	20 A	1			1560 180 VA	1	20 A	FCU-2A3 CONDENSATE PUMP	18
19	BIOSAFETY CAB BIO1335 C241	20 A	1	1560 5221			3	100 A	PANEL EM2CC	20
21	BIOSAFETY CAB BIO1335 C240	20 A	1		1560 5798		--	--	--	22
23							3492	--	--	24
25								--	--	26
27										28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
Total Load:				15843 VA	14530 VA	11712 VA				
Total Amps:				136 A	125 A	98 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacle	0 VA	0.00%	0 VA	
Lighting	0 VA	0.00%	0 VA	Total Conn. Load: 43645 VA
HVAC	0 VA	0.00%	0 VA	Total Est. Demand: 43645 VA
Kitchen Equipment - Non-Dwelling Unit	0 VA	0.00%	0 VA	Total Conn.: 121 A
Equipment	0 VA	0.00%	0 VA	Total Est. Demand: 121 A
Motor	0 VA	0.00%	0 VA	
Transformer	0 VA	0.00%	0 VA	
Power	40980 VA	100.00%	40980 VA	
Spare	0 VA	0.00%	0 VA	

Notes:

Branch Panel: E2C2C

Location: Space 6

Supply From: EM2CA

Mounting: Surface

Enclosure: Type 1

Volts: 120/208 Wye

Phases: 3

Wires: 4

A.I.C. Rating: 10,000

Mains Type: MLO

Mains Rating: 100 A

MCB Rating:

Notes: REFER TO SINGLE LINE DIAGRAM

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
3	DDC CONTROL PANEL	20 A	1	180 VA	1330					1	20 A	LTG. EM 2ND FLOOR	2
3	ACCU-A3 ROOF	40 A	2			1296	1296			2	40 A	ACCU-A21 ROOF	4
5	--	--	--					1296	1296	--	--	--	6
7	ACCU-A2 ROOF	40 A	2	1296	0 VA					1	0 A	Spare	8
9	--	--	--			1296	0 VA			1	0 A	Spare	10
11	Spare	0 A	1					0 VA	0 VA	1	0 A	Spare	12
13	LTG. EM 2ND FLOOR	20 A	1	1335	0 VA					1	0 A	Spare	14
15	VENTURI CONTROL VALVE XFMR	20 A	1			650 VA	180 VA			1	20 A	DDC CONTROL PANEL	16
17	AHU 1C CONTROL PANEL	20 A	1					360 VA	540 VA	1	20 A	FUME HOOD CONTROLLER	18
19	BSC CONTROLLER	20 A	1	1080	0 VA					1	0 A	Spare	20
21	DDC CONTROLLER LAB AREA	20 A	1			1080	0 VA			1	0 A	Spare	22
23	Space	--	--					0 VA	0 VA	--	--	Space	24
25	Space	--	--	0 VA	0 VA					--	--	Space	26
27	Space	--	--			0 VA	0 VA			--	--	Space	28
29	Space	--	--					0 VA	0 VA	--	--	Space	30
31													32
33													34
35													36
37													38
39													40
41													42
Total Load:				5221 VA		5798 VA		3492 VA					
Total Amps:				46 A		51 A		29 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacle	0 VA	0.00%	0 VA	
Lighting	0 VA	0.00%	0 VA	Total Conn. Load: 14511 VA
HVAC	0 VA	0.00%	0 VA	Total Est. Demand: 14511 VA
Kitchen Equipment - Non-Dwelling Unit	0 VA	0.00%	0 VA	Total Conn.: 40 A
Equipment	0 VA	0.00%	0 VA	Total Est. Demand: 40 A
Motor	0 VA	0.00%	0 VA	
Transformer	0 VA	0.00%	0 VA	
Power	11846 VA	100.00%	11846 VA	
Spare	0 VA	0.00%	0 VA	

Notes:

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