DIRECTORY	kVA LOAD A	kVA LOAD B	kVA LOAD C	CKT NO.	BKR AMPS	A B C	BKR AMPS	CKT NO.	kVA LOAD A	kVA LOAD B	kVA LOAD C	DIRECTORY
	19.7			1				2				
AHU ELECTRICAL HEAT		19.7		3	100		60	4				TRANSFORMER
			19.7	5				6				
				7				8				
FERMENTOR ACID MASH TANK				9	20		20	10				MHT. MUT. MXFR. PERT
				11				12				
				13				14				
SPARE				15	15		15	16				MEDIA TRANSFER TANK
				17				18				
	8.1			19				20				
AC CONDENSING UNIT – OUTSIDE		8.1		21	50		20	22				MF1 "B"
			8.1	23				24				
				25				26				
ELSNER MACHINE				27	30		20	28				MF1 "A"
				29				30				
	5.2			31			20	32	3.3			FAN FILTER UNITS (1)
(1) AHU SUPPLY AND EXHAUST FAN		5.2		33	40		20	34		3.0		FAN FILTER UNITS (1)
			5.2	35			20	36				SPARE
(1) LTG	2.0			37	20		20	38				SPARE
(1) LTG		2.1		39	20		20	40				SPARE
SPARE				41	20		20	42				SPARE
SUB-TOTAL				NEUTRAL BUS								SUB-TOTAL
				GROUND BUS								

VOLTAGE: 480Y/277V 3 PHASE 4 WIRE	250 AMP BUS	TOTAL kVA A	PANEL NO. P1
MAIN LUGS ONLY	250 AMP LUGS	TOTAL kVA B	
MOUNTING: SURFACE		TOTAL kVA C	LOCATION MEZZANINE
SC RATING: 18 KAIC		TOTAL kVA	

NOTES: (1) INDICATES NEW CIRCUIT BREAKER

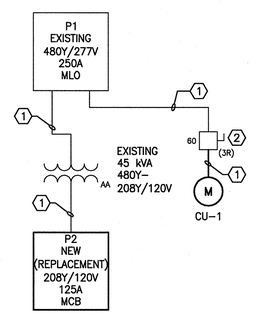
DIRECTORY	kVA LOAD A	kVA LOAD B	kVA LOAD C	CKT NO.	BKR AMPS	A B C	BKR AMPS	CKT NO.	kVA LOAD A	kVA LOAD B	kVA LOAD C	DIRECTORY
(2) EXISTING UNK				1	15		15	2				HOT WATER #2 (2)
(2) GFI RECEPT BY FERMENTOR				3	20		15	4				HOT WATER #1 (2)
(2) UP MEZZANINE OUTLETS				5	20		20	6				LOW MEZZANINE OUTLETS (2)
				7			20	8				OUTLET BY U.F. MACHINE (2)
(2) C.I.P. UNIT				9	30		20	10				ASSEMBLY LINE OUTLETS #6 (2)
				11			20	12				ASSEMBLY LINE OUTLETS #2 (2)
(2) OUTLET ON CONTROL BOARD				13	20		20	14				OUTLET ON STAIR WALL (2)
(2) CHILLER UNIT COMPRESSOR				15	60		20	16				2 LOAD CELLS/PLC PANEL (2)
				17			20	18				COND. PUMP/MHT RECIRC. PUMP(2)
(2) AC UNIT				19	20			20				
				21			15	22				CHILLER UNIT AIR BLOWER (2)
(2) CHILLER UNIT CONTROL POWER				23	20			24				
(2) EXISTING UNK				25	20		20	26	0.4			EXHAUST FAN EF-1 (1)(3)
(2) EXISTING UNK				27	20		20	28		0.5		AHU-1 LIGHTING & RECEPT (1)
(2) EXISTING UNK				29	20		20	30			0.2	RECEPTS-EQUIPMENT PLATFORM (1)
SPARE				31	20		20	32				SPARE
SPARE				33	20		20	34				SPARE
SPARE				35	20		20	36				SPARE
SPACE				37				38				SPACE
SPACE				39				40				SPACE
SPACE				41				42				SPACE
SPACE				43				44				SPACE
SPACE				45				46				SPACE
SPACE				47				48				SPACE
SPACE				49				50				SPACE
SPACE				51				52				SPACE
SPACE				53				54				SPACE
SUB-TOTAL				NEUTRAL BUS								SUB-TOTAL
				GROUND BUS								

VOLTAGE: 208Y/120V 3 PHASE 4 WIRE	125 AMP BUS	TOTAL kVA A	PANEL NO. P2
MAIN BREAKER	125 AMP MCB	TOTAL kVA B	
MOUNTING: SURFACE		TOTAL kVA C	LOCATION MEZZANINE
SC RATING: 10 KAIC		TOTAL kVA	

NOTES: REPLACEMENT PANEL (3) PROVIDE AS PART OF ALTERNATE #1
(1) INDICATES NEW LOAD
(2) INDICATES EXISTING LOAD

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MFR.	LAMPS	MOUNTING	NOTES
A1	2'X2', 2 LAMP, T5, CLASS 1000 CLEANROOM FIXTURE WITH ACRYLIC LENS 277V	LA LIGHTING FCR720-2-2M-FSW-PA2-E5H	2-24W T5HO 3500K	RECESSED FLANGE	
A2	2'X4', 2 LAMP, T5, CLASS 1000 CLEANROOM FIXTURE WITH ACRYLIC LENS 277V	LA LIGHTING FCR720-2-4M-FSW-PA2-E5H	2-54W T5HO 3500K	RECESSED FLANGE	
A3	2'X4', 3 LAMP, T5, CLASS 1000 CLEANROOM FIXTURE WITH ACRYLIC LENS 277V	LA LIGHTING FCR720-3-4M-FSW-PA2-E5H	3-54W T5HO 3500K	RECESSED FLANGE	
A4	2'X4', 4 LAMP, T5, CLASS 1000 CLEANROOM FIXTURE WITH ACRYLIC LENS 277V	LA LIGHTING FCR720-4-4M-FSW-PA2-E5H	4-54W T5HO 3500K	RECESSED FLANGE	
B2	1'X4', 2 LAMP, T5, CLASS 1000 CLEANROOM FIXTURE WITH ACRYLIC LENS 277V	LA LIGHTING FCR710-2-4M-FSW-PA2-BP-E5H	2-54W T5HO 3500K	RECESSED FLANGE	PROVIDE FIXTURE WITH EMERGENCY BATTERY BALLAST.
C2	1'X4', 2 LAMP, T8, GASKETED, SURFACE MOUNT 277V	COLUMBIA XEM4-232-RA-EU	2-32W T8 3500K	SURFACE	



A1 E-601 ONE-LINE DIAGRAM
SCALE: NONE

NOTE:

1. SEE SHEET E-001 FOR LEGEND AND GENERAL NOTES.

KEYED NOTES:

1. EXISTING FEEDER.
2. DISCONNECT SERVING EXISTING EQUIPMENT TO REMAIN AND BE REPURPOSED FOR NEW CONDENSING UNIT.

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1/9/14

IMMUCELL CORPORATION
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PORTLAND, ME

ISSUED FOR PERMIT
1-9-14
CURRENT ISSUE STATUS:

REV	DESCRIPTION	DATE
0	ISSUED FOR PERMIT	1-9-14

GRAPHIC SCALE: 0" 1"

SCALE:	NONE
PROJECT MANAGER:	RAB
JC/DRAWN BY:	CDS
A/E OF RECORD:	WRH
CAD FILE:	13157-E-601
PROJECT NO:	13157
DATE:	1-9-14

SHEET TITLE:
SCHEDULES AND DETAILS

SHEET No. E-601

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