CANNONDESIGN

Architect's Supplemental Instructions

Architect's Project No: 04561.01

Architect's ASI No: 010

Project:
Webster University
Interdisciplinary Science
Building

Date Issued: 07/21/2016

Contract Date: 06/24/2016

Reason Code: 05 A/E Scope

Discipline Code: 03 Electrical

Owner:
Webster University

Architect:
Cannon Design
1100 Clark Avenue
St. Louis, MO 63102

Contractor:
Paric Construction

Contract For: General Construction

The Work shall be carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. Indicate your acceptance of these instructions for minor change to the Work as consistent with the Contract Documents and return a copy to the Architect within fourteen (14) business days of the date of issuance of these instructions. If you feel a change in Contract Sum or Contract Time is warranted, please submit an itemized quotation for the changes for approval within fourteen (14) business days of the date of issuance of these instructions prior to proceeding on the Work. Proceeding with the Work in accordance with these instructions indicates your acknowledgement that there will be no change.

St. Louis
Baltimore
Boston
Buffalo
Calgary
Chicago
Houston
Los Angeles
Mumbai
New York
Phoenix
San Francisco
Shanghai
Toronto
Vancouver
Victoria
Washington DC

Attachments:

Drawings:

Sheets E0100, E0101.A, E0503, E0504

1100 Clark Avenue
St. Louis, Missouri
63102
T: 314.241.6250
F: 314.241.2570
www.cannondesign.com

Reason Codes:
#1. Jurisdictional Agency
#2. Constructor Driven
#3. Document Inconsistency
#4. Fast Track Driven
#5. A/E Scope
#6. Owners Scope
#7. Unforeseeable Conditions
#8. Other

Discipline Codes
#1. Demo-demolition
#2. Div1-Division 1 items on the spec book (this item is not used)
#3. Electrical
#4. Elevator
#5. Equipment (Changes in equipment, Owner Purchased)
#6. Fire Protection

Discipline Codes
#7. General Construction (Architectural)
#8. General Conditions (Div. 1)
#9. HVAC
#10. Other
#11. Plumbing
#12. Site Work/Landscaping
#13. Structural

CANNONDESIGN

Architect's Supplemental Instructions

Description:

Please submit an itemized proposal for changes in contract Sum and Contract Time for proposed modifications to the Contract Documents described herein:

SHEET E0100 LEVEL 0 FLOOR PLAN – ELECTRICAL

- Changed circuiting for elevator sump pump ESP-1 and sump pump SP-3 to panel 1SL1.
- Changed power for sump pumps SP-1 & SP-2 to panel 1SH1

SHEET E0101.A LEVEL 01 AREA A FLOOR PLAN – ELECTRICAL & AUXILIARY

- Changed circuiting for elevator sump pump ESP-1 to panel 1SL1.

SHEET E0503 PANEL SCHEDULES

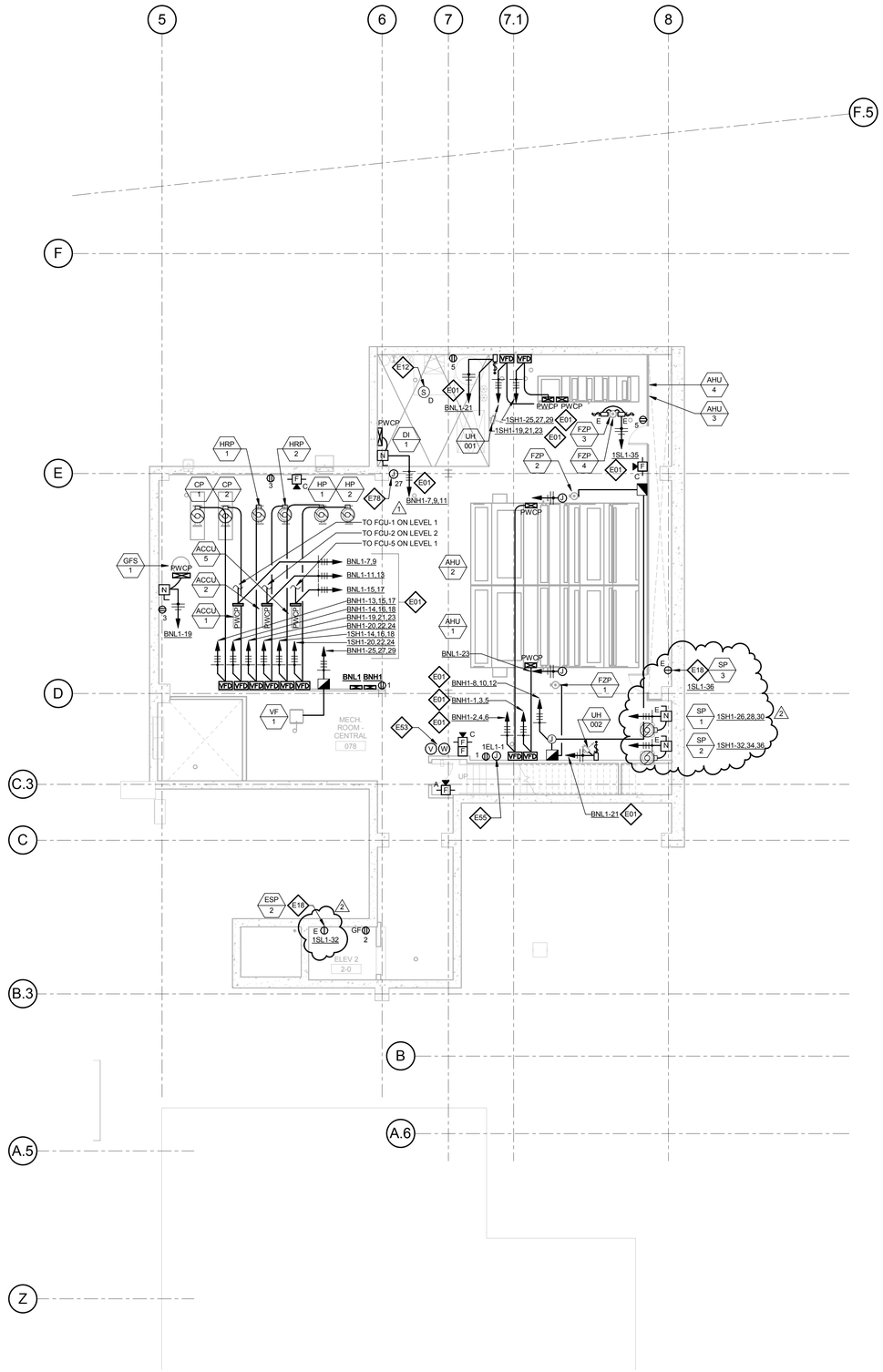
- Moved sump pumps from panel BNL1 to 1SL1
- Moved sump pumps from panel BNH1 to 1SH1

SHEET E0504 PANEL SCHEDULES

- Moved sump pumps from panel 1NL1 to 1SL1

Issued by Architect: Bill Shaw, William Tao & Associates, Inc.

Accepted by Contractor:



1 LEVEL 00 - AREA A - ELECTRICAL POWER PLAN

1/8" = 1'-0"

GENERAL NOTES:

A. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR LOCATION AND ORIENTATION OF DEVICES. WHERE LOCATIONS ARE NOT INDICATED ON ARCHITECTURAL DRAWINGS, COORDINATE LOCATION AND ORIENTATION OF DEVICES IN FIELD WITH ARCHITECT PRIOR TO ROUGH-IN.

B. ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.

C. ALL DEVICES TO REMAIN ARE INDICATED WITH A THIN SOLID LINE WEIGHT AND SUBSCRIPT "EX".

D. CONTRACTOR SHALL VISIT PRIOR TO BID SUBMITTALS TO DETERMINE SITE CONDITIONS EFFECTING THE EXECUTION OF WORK. FAILURE TO BE ACQUAINTED WITH EXISTING CONDITIONS WILL NOT BE JUSTIFICATION FOR ADDITIONAL SERVICES.

E. PROVIDE FACE PLATES ON ALL J-BOXES ABANDONED IN FINISHED FLOOR, WALL OR CEILINGS. COORDINATE COLOR AND FINISH WITH ARCHITECT. CONTRACTOR TO VERIFY QUANTITY IN THE FIELD.

F. WHERE EXPOSED CONDUIT IS NOTED, CONTRACTOR SHALL IDENTIFY ROUTING IN FIELD AND OBTAIN ARCHITECT'S APPROVAL OF ROUTING PRIOR TO ROUGH-IN. EXPOSED CONDUIT SHALL BE ROUTED TIGHT TO STRUCTURE.

G. ALL SINGLE PHASE BRANCH CIRCUITS SHOWN SHALL HAVE DEDICATED NEUTRALS TO MEET NEC SECTION 210.4 MULTI-WIRE BRANCH CIRCUIT REQUIREMENTS.

H. REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT ROUGH-IN OIDATA, VOICE AND A/V.

I. ALL 120V BRANCH CIRCUITS ON THIS SHEET SHALL BE FED FROM PANEL BNL1 UNLESS NOTED OTHERWISE.

◇ KEYED NOTES

E01 REFER TO EQUIPMENT DATA SCHEDULE FOR BRANCH CIRCUIT INFORMATION.

E12 PROVIDE A DUCT MOUNTED SMOKE DETECTOR IN THE COMBINED SUPPLY DUCT OF AHU-3 & AHU-4. BOTH AIR HANDLING UNITS SHALL SHUT DOWN UPON ACTIVATION OF THE DUCT MOUNTED SMOKE DETECTOR.

E18 PROVIDE POWER AND FINAL CONNECTION TO ELEVATOR SUMP PUMP. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

E53 COORDINATE QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES WITH FIRE PROTECTION CONTRACTOR.

E55 PROVIDE POWER TO BUILDING AUTOMATION SYSTEM PANEL. COORDINATE LOCATION WITH AUTOMATION CONTRACTOR.

⚠1 **E78** PROVIDE POWER TO ELECTRONIC TRAP PRIMER FOR A COMPLETE INSTALLATION, REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION.

Webster UNIVERSITY

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Interdisciplinary Science Building

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SWT Design
Landscape Architect
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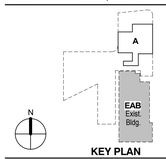
314.644.5700

Webb Engineering Services, Inc.
Plumbing & Fire Protection
1400 S. 3rd Street, Suite 201
St. Louis, MO 63104
314.588.0600

No.	Description	Date
2	ASI-010	21 JULY 2016
1	ADDENDUM 2-4	24 MAY 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016



KEY PLAN

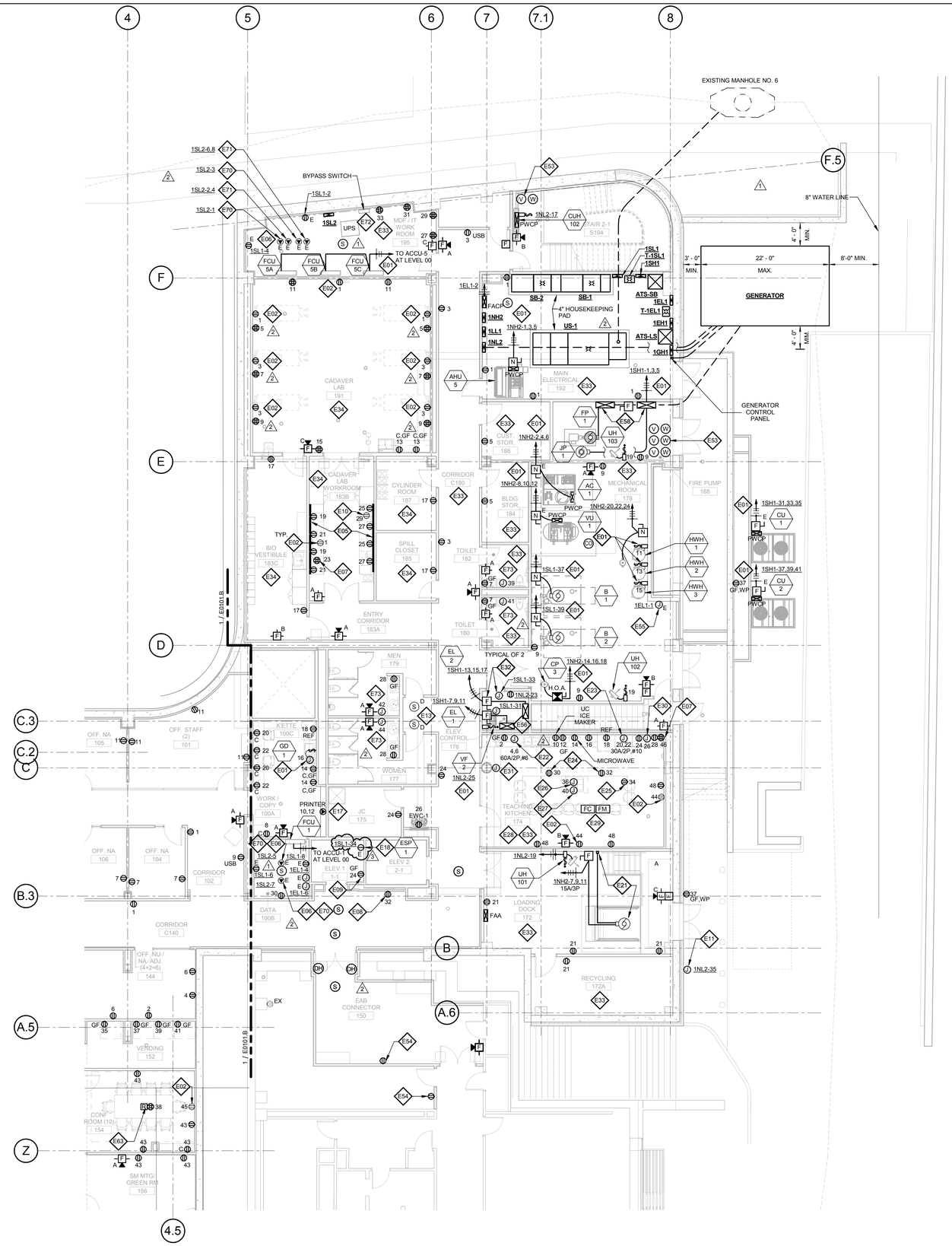
Drawing Title:

LEVEL 0 FLOOR PLAN - ELECTRICAL

Project No.: 04561.01 Checked by:

E0100

7/21/2016 2:28:26 PM



1 LEVEL 01 - AREA A - FLOOR PLAN - POWER AND AUXILLARY

1/8" = 1'-0"

7/21/2016 2:28:47 PM

GENERAL NOTES:

A. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR LOCATION AND ORIENTATION OF DEVICES. WHERE LOCATIONS ARE NOT INDICATED ON ARCHITECTURAL DRAWINGS, COORDINATE LOCATION AND ORIENTATION OF DEVICES IN FIELD WITH ARCHITECT PRIOR TO ROUGH-IN.

B. ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.

C. ALL DEVICES TO REMAIN ARE INDICATED WITH A THIN SOLID LINE WEIGHT AND SUBSCRIPT "EX".

D. CONTRACTOR SHALL VISIT PRIOR TO BID SUBMITTALS TO DETERMINE SITE CONDITIONS EFFECTING THE EXECUTION OF WORK. FAILURE TO BE ACQUAINTED WITH EXISTING CONDITIONS WILL NOT BE JUSTIFICATION FOR ADDITIONAL SERVICES.

E. PROVIDE FACE PLATES ON ALL J-BOXES ABANDONED IN FINISHED FLOOR, WALL OR CEILINGS. COORDINATE COLOR AND FINISH WITH ARCHITECT. CONTRACTOR TO VERIFY QUANTITY IN THE FIELD.

F. WHERE EXPOSED CONDUIT IS NOTED, CONTRACTOR SHALL IDENTIFY ROUTING IN FIELD AND OBTAIN ARCHITECT'S APPROVAL OF ROUTING PRIOR TO ROUGH-IN. EXPOSED CONDUIT SHALL BE ROUTED TIGHT TO STRUCTURE.

G. ALL SINGLE PHASE BRANCH CIRCUITS SHOWN SHALL HAVE DEDICATED NEUTRALS TO MEET NEC SECTION 210.4 MULTI-WIRE BRANCH CIRCUIT REQUIREMENTS.

H. REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT ROUGH-IN OIDATA, VOICE AND A/V.

I. ALL 120V BRANCH CIRCUITS ON THIS SHEET SHALL BE FED FROM PANEL 1NL1 UNLESS NOTED OTHERWISE.

◇ KEYED NOTES

E01 REFER TO EQUIPMENT DATA SCHEDULE FOR BRANCH CIRCUIT INFORMATION.

E02 PROVIDE NEW RECEPTACLE FOR MONITOR, COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND TECHNOLOGY PLANS.

E05 PROVIDE NEW TWO SECTION ALUMINUM RACEWAY, WIREMOLD AL4320 WITH RECEPTACLES MOUNTED 24" ON CENTER UNLESS NOTED OR SHOWN OTHERWISE. PROVIDE ALL ACCESSORIES FOR A COMPLTE INSTALLATION. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT AND LENGTH. SEE DETAILS ON SHEET E402.

E06 OUTLET SHALL BE MOUNTED TO THE BACK SIDE OF THE TELECOMMUNICATION RACK AND FED FROM ABOVE. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH TELECOMMUNICATIONS CONTRACTOR PRIOR TO INSTALLATION.

E07 OUTLET FOR RACK MOUNTED A/V EQUIPMENT, COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.

E08 OUTLET FOR DIGITAL SIGNAGE, COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.

E09 MOUNT RECEPTACLE IN ELEVATOR PIT. COORDINATE EXACT LOCATION WITH ELEVATOR CONTRACTOR.

E10 UNDERCOUNT REFRIGERATOR. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL PLANS AND ELEVATIONS.

E11 PROVIDE POWER AND FINAL CONNECTION TO WALL MOUNTED BLUE LIGHT EMERGENCY INTERCOM STATION.

E13 PROVIDE A DUCT MOUNTED SMOKE DETECTOR(S) AT RETURN AIR GRILLE OF AHU-1 & AHU-2. BOTH AIR HANDLING UNITS SHALL SHUT DOWN UPON ACTIVATION OF THE DUCT MOUNTED SMOKE DETECTOR(S). PROVIDE REMOTE INDIACTOR LIGHT(S) IN CEILING BELOW.

E17 PROVIDE NEMA 6-30R, 30A-208V RECEPTACLE FOR PRINTER. CONTRACTOR SHALL VERIFY PRINTER PLUG TYPE WITH OWNERS REPRESENTATIVE PRIOR TO ROUGH-IN.

E18 PROVIDE POWER AND FINAL CONNECTION TO ELEVATOR SUMP PUMP. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

E21 PROVIDE POWER AND FINAL CONNECTION TO DOCK LEVELER AND CONTROLS PER MANUFACTURERS WRITTEN INSTRUCTIONS. COORDINATE CONTROL AND DISCONNECT LOCATION WITH DOCK LEVELER INSTALLER PRIOR TO INSTALLATION.

E22 PROVIDE POWER AND FINAL CONNECTION TO DISH WASHER. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.

E23 PROVIDE POWER AND FINAL CONNECTION TO DOUBLE OVEN. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.

E24 RECEPTACLE MOUNTED IN COUNTER APRON. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR EXACT LOCATION.

E25 RECEPTACLE MOUNTED INSIDE CABINET FOR COMPUTER. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR EXACT LOCATION.

E26 PROVIDE POWER AND FINAL CONNECTION TO DROP IN COOK TOP. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.

E27 PROVIDE POWER AND FINAL CONNECTON TO ISLAND HOOD. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.

E28 REFER TO KITCHEN EQUIPMENT DRAWINGS FOR MOUNTING HEIGHTS OF ALL ELECTRICAL DEVICES IN THIS ROOM AND FOR POWER REQUIREMENTS PRIOR TO ROUGH-IN.

E29 PROVIDE FIRE ALARM MONITOR MODULE AND CONTROL MODULE CONNECTED TO FIRE ALARM SYSTEM AT HOOD. PROVIDE WIRING BETWEEN HOOD AND FIRE SUPPESSION SYSTEM. REFER TO KITCHEN HOOD EXTINGUISHING SYSTEM WIRING DIAGRAM, ON SHEET E0402.

E30 PROVIDE POWER FOR HOOD FIRE PROTECTION SYSTEM. INTERCONNECT EXHAUST FANS AND MAKE-UP AIR FANS TO MICRO SWITCH IN FIRE PROTECTION CABINET. REFER TO KITCHEN HOOD EXTINGUISHING SYSTEM WIRING DIAGRAM.

E31 PROVIDE J-BOX AND CONDUIT IN WALL FOR REMOTE MANUAL PULL STATION. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.

E32 PROVIDE POWER MODULE SWITCH FOR ELEVTOR AND A JUNCTION BOX WITH A 120V/20A CIRCUIT FOR CONNECTION OF ELEVATOR CONTROLS. PROVIDE ALL FINAL CONNECTIONS TO ELEVATOR CONTROLER AND ELEVATOR CAB PER MANUFACTURERS WRITTEN INSTRUCTIONS. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.

E33 ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 1NL2.

E34 ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 1LL1.

E53 COORDINATE QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES WITH FIRE PROTECTION CONTRACTOR.

E54 EXTEND CIRCUIT FROM EXISTING RECEPTACLES SERVING THIS AREA.

E55 PROVIDE POWER TO BUILDING AUTOMATION SYSTEM PANEL. COORDINATE LOCATION WITH AUTOMATION CONTRACTOR.

E56 SEE ELEVATOR DETAIL ON SHEET E0402 FOR ADDITIONAL POWER & FIRE ALARM REQUIREMENTS.

E58 FIRE PUMP CONTROLLER AND JOCKEY PUMP CONTROLLER SEE ONE LINE DIAGRAM FOR FEEDER INFORMATION.

E63 PROVIDE A 2HR FIRE CLASSIFIED 4-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RFB4S-FC WITH A BRASS FLANGED COVER CAT. NO. FPBTCBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (2) 20A DUPLEX RECEPTACLE, (1) GANG - DATA/VOICE (SEE TECHNOLOGY DRAWINGS FOR DEVICE TYPE), (1) GANG - A/V (SEE A/V DRAWINGS FOR DEVICE TYPES). THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.

E70 PROVIDE NEMA L5-20R, 20A-120V TWIST LOCK RECEPTACLE FOR RACK MOUNTED PDU. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH TECHNOLOGY CONTRACTOR.

E71 PROVIDE NEMA L6-20R, 30A-208V TWIST LOCK RECEPTACLE FOR RACK MOUNTED PDU. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH TECHNOLOGY CONTRACTOR.

E72 UPS AND EXTERNAL BYPASS SWITCH FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR. REFER TO TECHNOLOGY DRAWINGS AND ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.

E73 PROVIDE POWER AND FINAL CONNECTIONS FOR ELECTRIC HAND DRYER.

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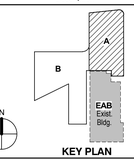
No.	Description	Date
3	ASI-010	21 JULY 2016
2	ADDENDUM 2-2	19 APRIL 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016



KEY PLAN

Drawing Title:

LEVEL 01 AREA A FLOOR PLAN - ELECTRICAL & AUXILIARY

Project No.: 04561.01 Checked by:

E0101.A

Panel: BNH1

Location: **Volts:** 480/277 Wye **A.I.C. Rating:** 22,000
Supply From: US-1 **Phases:** 3 **Mains Type:** MCB
Mounting: S **Wires:** 4 **Mains Rating:** 400 A
Enclosure: Type 1 **MCB Rating:**

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				22160	22160								2
3	AHU-1	180 A	3			22160	22160			3	180 A	AHU-2	4
5								22160	22160				6
7				2105	886								8
9	DI-1	15 A	3			2105	886			3	15 A	FZP-1 & FZP-2	10
11								2105	886				12
13				9418	0								14
15	CP-1	70 A	3			9418	0			3	70 A	CP-2 (NON SIMULTANEOUS LOAD)	16
17								9418	0				18
19				5817	0								20
21	HRP-1	45 A	3			5817	0			3	45 A	HRP-2 (NON SIMULTANEOUS LOAD)	22
23								5817	0				24
25				582	0					--	--	Space	26
27	VF-1	15 A	3			582	0			--	--	Space	28
29								582	0	--	--	Space	30
31	Space	--	--	0	0					--	--	Space	32
33	Space	--	--			0	0			--	--	Space	34
35	Space	--	--					0	0	--	--	Space	36
37	Mech Room - Central 078 (Lighting)	20 A	1	1216	0					--	--	Space	38
39	Spare	20 A	1			0	0					Space	40
41	Spare	20 A	1					0	0	--	--	Space	42
		Total Load:		64344 VA		63128 VA		63128 VA					
		Total Amps:		232 A		228 A		228 A					

Notes:

Panel: 1EL1

Location: MAIN ELECTRICAL 192 **Volts:** 120/208 Wye **A.I.C. Rating:** 10,000
Supply From: T-1EL1 **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 100 A
Enclosure: Type 1 **MCB Rating:**

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	MECHANICAL ROOM 078 - BAS	20 A	1	360	100					1	20 A	MAIN ELECTRICAL 192 - FACP	2
3	110B, 210B, 310A, 410 - BAS	20 A	1			1060	180			1	20 A	DATA 100B - SECURITY EQUIPMENT	4
5	Elec 110B - Fire Door	15 A	1					1176	180	1	20 A	DATA 100B - SECURITY EQUIPMENT	6
7	Elec 210B - Fire Door	15 A	1	1176	180					1	20 A	DATA 200B - SECURITY EQUIPMENT	8
9	Elec 310A - Fire Door	15 A	1			1176	180			1	20 A	DATA 200B - SECURITY EQUIPMENT	10
11	Elec 410 - Fire Door	15 A	1					1176	180	1	20 A	DATA 300B - SECURITY EQUIPMENT	12
13	Spare	20 A	1	0	180					1	20 A	DATA 400B - SECURITY EQUIPMENT	14
15	Spare	20 A	1			0	0			1	20 A	Spare	16
17	Spare	20 A	1					0	0	1	20 A	Spare	18
19	Spare	20 A	1	0	0					1	20 A	Spare	20
21	Spare	20 A	1			0	0			1	20 A	Spare	22
23	Spare	20 A	1					0	0	1	20 A	Spare	24
25	Space	--	--	0	0					--	--	Space	26
27	Space	--	--			0	0			--	--	Space	28
29	Space	--	--					0	0	--	--	Space	30
		Total Load:		1996 VA		2596 VA		2712 VA					
		Total Amps:		17 A		22 A		23 A					

Notes:

Panel: 2LL5

Location: ELEC 210B **Volts:** 120/208 Wye **A.I.C. Rating:** 10,000
Supply From: SB-2 **Phases:** 3 **Mains Type:** MCB
Mounting: S **Wires:** 4 **Mains Rating:** 225 A
Enclosure: Type 1 **MCB Rating:**

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Open Research Lab 235 - Enviro. Chamber	20 A	1	1000	360					1	20 A	Open Research Lab 235 - Desk	2
3	Open Research Lab 235 - Surface Raceway	20 A	1			360	360			1	20 A	Open Research Lab 235 - Desk	4
5	Open Research Lab 235 - Surface Raceway	20 A	1					360	360	1	20 A	Open Research Lab 235 - Desk	6
7	Open Research Lab 235 - BSC	20 A	1	180	180					1	20 A	Open Research Lab 235 - Floor Box	8
9	Spare	20 A	1			0	0			1	20 A	Spare	10
11	Spare	20 A	1					0	0	1	20 A	Spare	12
13	Spare	20 A	1	0	0					1	20 A	Spare	14
15	Spare	20 A	1			0	0			1	20 A	Spare	16
17	Spare	20 A	1					0	0	1	20 A	Spare	18
19	Spare	20 A	1	0	0					1	20 A	Spare	20
21	Spare	20 A	1			0	0			1	20 A	Spare	22
23	Spare	20 A	1					0	0	1	20 A	Spare	24
25	Spare	20 A	1	0	0					1	20 A	Spare	26
27	Spare	20 A	1			0	0			1	20 A	Spare	28
29	Spare	20 A	1					0	0	1	20 A	Spare	30
31	Spare	20 A	1	0	0					1	20 A	Spare	32
33	Spare	20 A	1			0	0			1	20 A	Spare	34
35	Spare	20 A	1					0	0	1	20 A	Spare	36
37	Spare	20 A	1	0	0					1	20 A	Spare	38
39	Spare	20 A	1			0	0			1	20 A	Spare	40
41	Spare	20 A	1					0	0	1	20 A	Spare	42
		Total Load:		1720 VA		720 VA		720 VA					
		Total Amps:		14 A		6 A		6 A					

Notes:

Panel: 1GH1

Location: MAIN ELECTRICAL 192 **Volts:** 480/277 Wye **A.I.C. Rating:** 22,000
Supply From: **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 600 A
Enclosure: Type 1 **MCB Rating:**

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				6431	73694								2
3	ATS-LS	225 A	3			6604	70745			3	400 A	ATS-SB	4
5								6363	71597				6
7	Space	--	--	0	0					--	--	Space	8
9	Space	--	--			0	0			--	--	Space	10
11	Space	--	--					0	0	--	--	Space	12
13	Space	--	--	0	0					--	--	Space	14
15	Space	--	--			0	0			--	--	Space	16
17	Space	--	--					0	0	--	--	Space	18
19	Space	--	--	0	0					--	--	Space	20
21	Space	--	--			0	0			--	--	Space	22
23	Space	--	--					0	0	--	--	Space	24
25	Space	--	--	0	0					--	--	Space	26
27	Space	--	--			0	0			--	--	Space	28
29	Space	--	--					0	0	--	--	Space	30
		Total Load:		80125 VA		77349 VA		77960 VA					
		Total Amps:		290 A		279 A		282 A					

Notes:

Panel: 1EH1

Location: MAIN ELECTRICAL 192 **Volts:** 480/277 Wye **A.I.C. Rating:** 22,000
Supply From: ATS-LS **Phases:** 3 **Mains Type:** MCB
Mounting: S **Wires:** 4 **Mains Rating:** 225 A
Enclosure: Type 1 **MCB Rating:**

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				1996	555					1	20 A	Exterior Site Lighting	2
3	T-1EL1, 1EL1	45 A	3			2596	278			1	20 A	Mech Room - Central 078 (Lighting)	4
5								2712	1785	1	20 A	1st Floor West Emerg. Lighting	6
7	West Exterior Emerg. Lighting	20 A	1	456	1823					1	20 A	1st Floor East Emerg. Lighting	8
9	North Stair Lighting	20 A	1			532	1434			1	20 A	2nd Floor West Emerg. Lighting	10
11	West Stair Lighting	20 A	1					532	2870	1	20 A	2nd Floor East Emerg. Lighting	12
13	Spare	20 A	1	0	2987					1	20 A	3rd Floor Emerg. Lighting	14
15	Spare	20 A	1			0	3217			1	20 A	4th Floor Emerg. Lighting	16
17	Spare	20 A	1					0	0	1	20 A	Spare	18
19	Spare	20 A	1	0	0					1	20 A	Spare	20
21	Spare	20 A	1			0	0			1	20 A	Spare	22
23	Spare	20 A	1					0	0	1	20 A	Spare	24
25	Spare	20 A	1	0	0					1	20 A	Spare	26
27	Spare	20 A	1			0	0			1	20 A	Spare	28
29	Spare	20 A	1					0	0	1	20 A	Spare	30
31	Space	--	--	0	0					--	--	Space	32
33	Space	--	--			0	0			--	--	Space	34
35	Space	--	--					0	0	--	--	Space	36
37	Space	--	--	0	0					--	--	Space	38
39	Space	--	--			0	0			--	--	Space	40
41	Space	--	--					0	0	--	--	Space	42
		Total Load:		7818 VA		8057 VA		7900 VA					
		Total Amps:		28 A		29 A		29 A					

Notes:

Panel: BNL1

Location: **Volts:** 120/208 Wye **A.I.C. Rating:** 10,000
Supply From: SB-1 **Phases:** 3 **Mains Type:** MCB
Mounting: S **Wires:** 4 **Mains Rating:** 225 A
Enclosure: Type 1 **MCB Rating:**

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Mech Room Central 079 - Receptacle	20 A	1	360	180					1	20 A	Elevator 2 Pit - Receptacle	2
3	Mech Room Central 079 - Receptacle	20 A	1			360	0			1	20 A	Spare	4
5	Mech Room Central 079 - Receptacle	20 A	1					360	0	1	20 A	Spare	6
7				1664	0					1	20 A	Spare	8
9	Mech Room Central 078 - ACCU-1	25 A	2			1664	0			1	20 A	Spare	10
11								1664	0	1	20 A	Spare	12
13	Mech Room Central 078 - ACCU-2	25 A	2	1664	0					1	20 A	Spare	14
15						1664	0			1	20 A	Spare	16
17	Mech Room Central 078 - ACCU-5	25 A	2					1664	0	1	20 A	Spare	18
19	Mech Room Central 078 - GFS-1	30 A	1	1656	0					1	20 A	Spare	20
21	Mech Room Central 078 - UH-001, UH-002	15 A	1			32	0			1	20 A	Spare	22
23	Mech Room Central 078 - AHU-1 Lights/Rec	20 A	1					400	0	1	20 A	Spare	24
25	Mech Room Central 078 - AHU-2 Lights/Rec	20 A	1	400	0					1	20 A	Spare	26
27	Mech Room Central 078 - Elec. Trap Primer	20 A	1			100	0			1	20 A	Spare	28
29	Spare	20 A	1					0	0	1	20 A	Spare	30
31	Space	--	--	0	0					--	--	Space	32
33	Space	--	--			0	0			--	--	Space	34
35	Space	--	--					0	0	--	--	Space	36
37	Space	--	--	0	0					--	--	Space	38
39	Space	--	--			0	0			--	--	Space	40
41	Space	--	--					0	0	--	--	Space	42
		Total Load:		5924 VA		3820 VA		4088 VA					
		Total Amps:		50 A		32 A		34 A					

Notes:

Panel: 1NH1

Location: ELEC 110B **Volts:** 480/277 Wye **A.I.C. Rating:** 22,000
Supply From: US-1 **Phases:** 3 **Mains Type:** MCB/SFL
Mounting: S **Wires:** 4 **Mains Rating:** 175 A
Enclosure: Type 1 **MCB Rating:**

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Spare	20 A	1	0	1769					1	20 A	Exterior Lighting	2
3	Spare	20 A	1			0	2728			1	20 A	Lighting Conf. Rooms, Lecture Hall	4
5	Spare	20 A	1					0	1658	1	20 A	Lighting Offices, Exam Rooms,	6
7	Spare	20 A	1	0	2103					1	20 A	Lighting Classrooms, Labs	8
9	Spare	20 A	1			0	2768			1	20 A	Lighting West Commons, Corridor	10
11	Spare	20 A	1					0	2300	1	20 A	Lighting Cadaver Lab, Restrooms, Work/Copy	12
13	Spare	20 A	1	0	1679					1	20 A	Lighting Utility Rooms, Kitchen	14
15	Spare	20 A	1			0	762			1	20 A	Lighting East Corridor	16
17	Spare	20 A	1					0	0	1	20 A	Spare	18
19	Spare	20 A	1	0	0					1	20 A	Spare	20
21	Spare	20 A	1			0	0			1	20 A	Spare	22
23	Spare	20 A	1					0	0	1	20 A	Spare	24
25	Spare	20 A	1	0	0					1	20 A	Spare	26
27	Spare	20 A	1			0	0			1	20 A	Spare	28
29	Spare	20 A	1					0	0	1	20 A	Spare	30
31	Space	--	--	0	0					--	--	Space	32
33	Space	--	--			0	0			--	--	Space	34
35	Space	--	--					0	0	--	--	Space	36
37	Space	--	--	0	0					--	--	Space	38
39	Space	--	--			0	0			--	--	Space	40
41	Space	--	--					0	0	--	--	Space	42
		Total Load:		5551 VA		6258 VA		3958 VA					
		Total Amps:		21 A		23 A		14 A					

Notes:

Panel: 1SL1

Location: MAIN ELECTRICAL 192 **Volts:** 120/208 Wye **A.I.C. Rating:** 10,000
Supply From: T-1SL1 **Phases:** 3 **Mains Type:** MCB
Mounting: S **Wires:** 4 **Mains Rating:** 150 A
Enclosure: Type 1 **MCB Rating:**

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Power Rm. 289A - Incinerator	20 A	1	192	180					1	20 A	MDF Room 195 - Wall	2
3	Spare	20 A	1			0	180			1	20 A	MDF Room 195 - Wall	4
5	Power Rm. 289A - (-20) Freezer	20 A	1					1225	180	1	20 A	Data 100B - Wall	6
7	Power Rm. 289A - Liquid Nitrogen Dewer	20 A	1	180	180					1	20 A	Data 100B - Wall	8
9	Power Rm. 289B	20 A	1			180	180			1	20 A	Data 200B - Wall	10
11	Power Rm. 291 - Freezer	20 A	1					600	180	1	20 A	Data 200B - Wall	12
13	Power Rm. 391 - Refrigerator	20 A	1	492	180					1	20 A	Data 300B - Wall	14
15	Power Rm. 389	20 A	1			180	180			1	20 A	Data 300B - Wall	16
17	Power Rm. 374A - Incubator	20 A	1					600	180	1	20 A	Data 400B - Wall	18
19	Power Rm. 374A - Incubator	20 A	1	432	180					1	20 A	Data 400B - Wall	20
21	Power Rm. 386 - Freezer	20 A	1			600	0			1	20 A	Spare	22
23	Spare	20 A	1					0	0	1	20 A	Spare	24
25	Power Rm. 374B - (-80) Freezer	20 A	1	1920	0					1	20 A	Spare	26
27	Power Rm. 374B - Freezer	20 A	1			984	0			1	20 A	Spare	28
29	OrganiS Bio Lab 378 - Fish Tank	20 A	1					360	0	1	20 A	Spare	30
31	Elevator Control Room 176	20 A	1	180	1176					1	20 A	Elevator 2 Pit - ESP-2	32
33	Elevator Control Room 176	20 A	1			180	1176			1	20 A	Elevator 1 Pit - ESP-1	34
35	Mechanical Room Central 078 - FZP-3 & 4	20 A	1					1056	1176	1	20 A	MECHANICAL ROOM 078 - SP-1	36
37	Mechanical Room 178 - B-1	20 A	1	1224	4000								38
39	Mechanical Room 179 - B-2	20 A	1			1224	2500			3	150 A	1SL2 (UPS)	40
41	OrganiS Bio Lab 378 - Fish Tank	20 A	1					360	2500				42
		Total Load:		10516 VA		7564 VA		8417 VA					
		Total Amps:		89 A		63 A		71 A					

Notes:

Panel: 1SH1

Location: MAIN ELECTRICAL 192 **Volts:** 480/277 Wye **A.I.C. Rating:** 22,000
Supply From: ATS-SB **Phases:** 3 **Mains Type:** MCB
Mounting: S **Wires:** 4 **Mains Rating:** 400 A
Enclosure: Type 1 **MCB Rating:**

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				1330	10516								2
3	JOCKEY PUMP	15 A	3			1330	7564			3	70 A	T-1SL1, 1SL1	4
5								1330	8417				6
7				4986	29584								8
9	ELEVATOR 1	45 A	3			4986	29584			3	225 A	4SH1	10
11								4986	29584				12
13				6094	3878								14
15	ELEVATOR 2	60 A	3			6094	3878			3	35 A	HP-1	16
17								6094	3878				18
19				1330	0								20
21	AHU-3	15 A	3			1330	0			3	35 A	HP-2 (NON SIMULTANEOUS LOAD)	22
23								1330	0				24
25				0	2105								26
27	AHU-4 (NON SIMULTANEOUS LOAD)	15 A	3			0	2105			3	15 A	SP-1	28
29								0	2105				30
31				12742	2105								32
33	CU-1	60 A	3			12742	2105			3	15 A	SP-2	34
35								12742	2105				36
37				0	0					--	--	Space	38
39	CU-2 (NON SIMULTANEOUS LOAD)	60 A	3			0	0			--	--	Space	40
41								0	0	--	--	Space	42
		Total Load:		74670 VA		71718 VA		72571 VA					
		Total Amps:		270 A		259 A		262 A					

Notes:

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No.	Description	Date
4	ASI-010	21 JULY 2016
3	ADDENDUM 2-4	24 MAY 2016
2	ADDENDUM 2-2	19 APRIL 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016

Drawing Title:

PANEL SCHEDULES

Project No.: 04561.01 Checked by:

E0503

Panel: 1NL2

Location: MAIN ELECTRICAL 192 **Volts:** 120/208 Wye **A.I.C. Rating:** 10,000
Supply From: SB-1 **Phases:** 3 **Mains Type:** MLO
Mounting: S **Wires:** 4 **Mains Rating:** 225 A
Enclosure: Type 1 **MCB Rating:**

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Main Electrical 192 - Receptacles	20 A	1	720	180					1	20 A	Teaching Kitchen 174 - Counter	2
3	Corridor C180 - Receptacles	20 A	1			540	4118			2	60 A	Teaching Kitchen 174 - Dish Washer	4
5	Bldg. Stor. 184, Cust. Stor 186 - Receptacles	20 A	1					360	4118				6
7	Toilet 180, 182 - Receptacles	20 A	1	360	0					1	20 A	Spare	8
9	Mechanical Room 178 - Receptacles	20 A	1			720	1800			1	20 A	Teaching Kitchen 174 - Ice Machine	10
11	Mechanical Room 178 - HWH-1	20 A	1					720	180	1	20 A	Teaching Kitchen 174 - Counter	12
13	Mechanical Room 178 - HWH-2	20 A	1	720	1500					1	20 A	Teaching Kitchen 174 - Microwave	14
15	Mechanical Room 178 - HWH-3	20 A	1			720	180			1	20 A	Teaching Kitchen 174 - Counter	16
17	Stair 2-1 - CUH-102	15 A	1					40	1000	1	20 A	Teaching Kitchen 174 - Refrigerator	18
19	Dock 172 - UH-101, Mech Rm 178 UH-102	15 A	1	48	2700					2	30 A	Teaching Kitchen 174 - Double Oven	20
21	Loading Dock 172, Recycling 172A -...	20 A	1			720	2700						22
23	Elevator Control Room - Receptacle	20 A	1					180	180	1	20 A	Teaching Kitchen 174 - Counter	24
25	Elevator Control Room - VF-2	15 A	1	350	180					1	20 A	Teaching Kitchen 174 - Ansul System	26
27	MDF Room - Receptacles	20 A	1			360	180			1	20 A	Teaching Kitchen 174 - Counter	28
29	MDF Room - Receptacles	20 A	1					360	180	1	20 A	Teaching Kitchen 174 - Island Apron	30
31	MDF Room - Receptacles	20 A	1	360	180					1	20 A	Teaching Kitchen 174 - Island Apron	32
33	MDF Room - Receptacles	20 A	1			360	180			1	20 A	Teaching Kitchen 174 - Island Computer	34
35	BLUE LIGHT EMERGENCY STATION	20 A	1					180	600	1	20 A	Teaching Kitchen 174 - Drop in Hood	36
37	Exterior - East Wall	20 A	1	360	0					--	--	Shunt Trip	38
39	Toilet 182 - Electric Hand Dryer	20 A	1			1490	1800			1	20 A	Teaching Kitchen 174 - Island Hood	40
41	Toilet 180 - Electric Hand Dryer	20 A	1					1490	0	--	--	Shunt Trip	42
43	Spare	20 A	1	0	360					1	20 A	Teaching Kitchen 174 - Projector/Monitor	44
45	Spare	20 A	1			0	360			1	20 A	Teaching Kitchen 174 - A/V Rack	46
47	Spare	20 A	1					0	540	1	20 A	Teaching Kitchen 174 - Wall Receptacles	48
49	Spare	20 A	1	0	0					1	20 A	Spare	50
51	Spare	20 A	1			0	0			1	20 A	Spare	52
53	Spare	20 A	1					0	0	1	20 A	Spare	54
			Total Load:	8018 VA		16228 VA		10128 VA					
			Total Amps:	67 A		138 A		87 A					

Notes:

Panel: 1NL1

Location: ELEC 110B **Volts:** 120/208 Wye **A.I.C. Rating:** 10,000
Supply From: SB-1 **Phases:** 3 **Mains Type:** MCB/SFL
Mounting: S **Wires:** 4 **Mains Rating:** 225 A
Enclosure: Type 1 **MCB Rating:**

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Power Elec 11.08.1	20 A	1	900 VA	360 VA					1	20 A	Office NU/NA ADJ 144 - Receptacles	2
3	Power Mock Beds Stor. 7.10	20 A	1			540 VA	360 VA			1	20 A	Office NU/NA ADJ 144 - Receptacles	4
5	Power Nursing 7.03.3	20 A	1					540 VA	360 VA	1	20 A	Office NU/NA ADJ 144 - Receptacles	6
7	Power Anesthesia 6.08.3	20 A	1	540 VA	180 VA					1	20 A	Work/Copy 100A - Counter	8
9	Power Corridor 102 USB	20 A	1			180 VA	180 VA			2	30 A	Work/Copy 100A - Printer	10
11	Power Staff (2) 9.06.1	20 A	1					720 VA	180 VA				12
13	Power Anesthesia 6.08.2	20 A	1	720 VA	360 VA					1	20 A	K'ette 100C - Counter	14
15	Power Nursing 7.03.2	20 A	1			720 VA	1656...			1	30 A	K'ette 100C - GD-1	16
17	Power Nursing 7.03.4	20 A	1					720 VA	1000...	1	20 A	K'ette 100C - Refrigerator	18
19	Power Nursing 7.03.6	20 A	1	180 VA	360 VA					1	20 A	K'ette 100C - Desk	20
21	Power Mock Beds 7.10	20 A	1			720 VA	360 VA			1	20 A	K'ette 100C - Desk	22
23	Power Conf Rm 24 Seats 10.06 Monitor	20 A	1					360 VA	540 VA	1	20 A	Elev 1 Pit, JC 175, Corridor C180	24
25	Power Conference Room 24 Seats 10.06	20 A	1	360 VA	370 VA					1	20 A	EWC-1	26
27	Power Conference Room 24 Seats 10.06	20 A	1			540 VA	360 VA			1	20 A	Women 177, Men 179	28
29	Power Conference Room 24 Seats 10.06	20 A	1					540 VA	180 VA	1	20 A	Data - 100B	30
31	Power Conference Room 24 Seats 10.06	20 A	1	360 VA	180 VA					1	20 A	Corridor C140 - Digital Signage	32
33	Power Commons-2 10.04-2	20 A	1			540 VA	0 VA			1	20 A	Spare	34
35	Power Vending 11.28	20 A	1					180 VA	720 VA	1	20 A	Power Rm. 114,116	36
37	Power Vending 11.28	20 A	1	180 VA	180 VA					1	20 A	Power Rm. 154	38
39	Power Vending 11.28	20 A	1			180 VA	720 VA			1	20 A	Power Conference Room 24 Seats - Shades	40
41	Power Vending 11.28	20 A	1					180 VA	1490...	1	20 A	Men 179 - Electric Hand Dryer	42
43	Power Conf Rm 154	20 A	1	1260...	1490...					1	20 A	Women 177 - Electric Hand Dryer	44
45	Power Conf Rm 154 Monitor	20 A	1			180 VA	540 VA			1	20 A	Power Courtyard Bollard - Receptacles	46
47	Power Sm Mtg/ Green Rm 156 Monitor	20 A	1					180 VA	360 VA	1	20 A	Power Courtyard Bollard - Receptacles	48
49	Vest. C153 - Elec Door Opener	20 A	1	360 VA	540 VA					1	20 A	Power	50
51	Vest. C153 - CUH-101	15 A	1			40 VA	0 VA			1	20 A	Spare	52
53	Fire Protection Room 137A - FPA-1	15 A	1					528 VA	360 VA	1	20 A	Exterior Receptacle	54
55	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	56
57	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	58
59	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	60
			Total Load:	8880 VA		7816 VA		9138 VA					
			Total Amps:	75 A		65 A		78 A					

Notes:

Panel: 1NH2

Location: MAIN ELECTRICAL 192 **Volts:** 480/277 Wye **A.I.C. Rating:** 22,000
Supply From: US-1 **Phases:** 3 **Mains Type:** MLO
Mounting: S **Wires:** 4 **Mains Rating:** 225 A
Enclosure: Type 1 **MCB Rating:**

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				2900	9141								2
3	Main Electrical 192 - AHU-5	15 A	3			2900	9141			3	70 A	Mechanical Room 178 - AC-1	4
5								2900	9141				6
7				2105	4210								8
9	Loading Dock 172 - Dock Leveler	15 A	3			2105	4210			3	40 A	Mechanical Room 178 - VU-1	10
11								2105	4210				12
13	Space	--	--	0	942								14
15	Space	--	--			0	942			3	15 A	Mechanical Room 178 - CP-3	16
17	Space	--	--					0	942				18
19	Space	--	--	0	831								20
21	Space	--	--			0	831			3	15 A	Mechanical Room 178 - HWP-1	22
23	Space	--	--					0	831				24
25	Space	--	--	0	0					--	--	Space	26
27	Space	--	--			0	0			--	--	Space	28
29	Space	--	--					0	0	--	--	Space	30
			Total Load:	20129 VA		20129 VA		20129 VA					
			Total Amps:	73 A		73 A		73 A					

Notes:

Panel: 1LL2

Location: CORRIDOR C130 **Volts:** 120/208 Wye **A.I.C. Rating:** 10,000
Supply From: SB-2 **Phases:** 3 **Mains Type:** MCB
Mounting: F **Wires:** 4 **Mains Rating:** 225 A
Enclosure: Type 1 **MCB Rating:**

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Health Assessment Lab 131 - Teacher	20 A	1	720	360					1	20 A	Dry Skills Lab/Classroom 135 - Receptacles	2
3	Health Assessment Lab 131 - Receptacles	20 A	1			360	720			1	20 A	Dry Skills Lab/Classroom 135 - Monitors	4
5	Health Assessment Lab 131 - Monitor	20 A	1					360	0	1	20 A	Spare	6
7	Health Assessment Lab 131 - Desk	20 A	1	720	540					1	20 A	Dry Skills Lab/Classroom 135 - Surface...	8
9	Health Assessment Lab 131 - Desk	20 A	1			720	360			1	20 A	Dry Skills Lab/Classroom 135 - Surface...	10
11	Health Assessment Lab 131 - Desk	20 A	1					720	360	1	20 A	Dry Skills Lab/Classroom 135 - Surface...	12
13	Health Assessment Lab 131 - Desk	20 A	1	720	540					1	20 A	Dry Skills Lab/Classroom 135 - Desk	14
15	Health Assessment Lab 131 - Surface Raceway	20 A	1			360	540			1	20 A	Dry Skills Lab/Classroom 135 - Desk	16
17	Health Assessment Lab 131 - Surface Raceway	20 A	1					360	540	1	20 A	Dry Skills Lab/Classroom 135 - Desk	18
19	Health Assessment Lab 131 - A/V Receptacle	20 A	1	360	540					1	20 A	Dry Skills Lab/Classroom 135 - Desk	20
21	Sim Lab 133B - Receptacle	20 A	1			540	540			1	20 A	Dry Skills Lab/Classroom 135 - Desk	22
23	Sim Lab 133B - Receptacle	20 A	1					180	540	1	20 A	Dry Skills Lab/Classroom 135 - Desk	24
25	Sim Lab 133B - Receptacle	20 A	1	180	540					1	20 A	Dry Skills Lab/Classroom 135 - Desk	26
27	Sim Lab 133B - Receptacle	20 A	1			360	540			1	20 A	Dry Skills Lab/Classroom 135 - Desk	28
29	Sim Lab 133B - Receptacle	20 A	1					180	540	1	20 A	Models/Storage/Research 137 - Surface...	30
31	Control Room 133A - Monitor	20 A	1	180	540					1	20 A	Models/Storage/Research 137 - Surface...	32
33	Control Room 133A - Surface Raceway	20 A	1			360	540			1	20 A	Models/Storage/Research 137 - Surface...	34
35	Control Room 133A - Surface Raceway	20 A	1					360	180	1	20 A	Models/Storage/Research 137 - Surface...	36
37	Control Room 133A - Surface Raceway	20 A	1	180	180					1	20 A	Models/Storage/Research 137 - Receptacles	38
39	Control Room 133A - A/V Receptacle	20 A	1			360	180			1	20 A	Models/Storage/Research 137 - Receptacles	40
41	Control Room 133A - Surface Raceway	20 A	1					360	360	1	20 A	Dry Skills Lab/Classroom 135 - Movable Table	42
43	Control Room 133A - Surface Raceway	20 A	1	360	360					1	20 A	Dry Skills Lab/Classroom 135 - Floor Box	44
45	Control Room 133A - Surface Raceway	20 A	1			180	360			1	20 A	Dry Skills Lab/Classroom 135 - A/V Receptacle	46
47	Spare	20 A	1					0	360	1	20 A	Models/Storae/Research 137 - Recptacles	48
49	Spare	20 A	1	0	0					1	20 A	Spare	50
51	Spare	20 A	1			0	0			1	20 A	Spare	52
53	Spare	20 A	1					0	0	1	20 A	Spare	54
			Total Load:	7020 VA		7020 VA		5400 VA					
			Total Amps:	61 A		61 A		45 A					

Notes:

Panel: 1LL1

Location: MAIN ELECTRICAL 192 **Volts:** 120/208 Wye **A.I.C. Rating:** 10,000
Supply From: SB-2 **Phases:** 3 **Mains Type:** MLO
Mounting: S **Wires:** 4 **Mains Rating:** 225 A
Enclosure: Type 1 **MCB Rating:**

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Cadaver Lab 191 - Projector / Motorized Screen	20 A	1	720	0					1	20 A	Spare	2
3	Cadaver Lab 191 - Monitors	20 A	1			720	0			1	20 A	Spare	4
5	Cadaver Lab 191 - Tables	20 A	1					720	0	1	20 A	Spare	6
7	Cadaver Lab 191 - Tables	20 A	1	720	0					1	20 A	Spare	8
9	Cadaver Lab 191 - Tables	20 A	1			720	0			1	20 A	Spare	10
11	Cadaver Lab 191 - Teacher	20 A	1					540	0	1	20 A	Spare	12
13	Cadaver Lab 191 - Counter	20 A	1	360	0					1	20 A	Spare	14
15	Power CADAVER LAB 191	20 A	1			360	0			1	20 A	Spare	16
17	185, 187, 193C - Receptacles	20 A	1					720	0	1	20 A	Spare	18
19	Cadaver Lab Workroom 183B - Surface...	20 A	1	360	0					1	20 A	Spare	20
21	Cadaver Lab Workroom 183B - Surface...	20 A	1			360	0			1	20 A	Spare	22
23	Cadaver Lab Workroom 183B - A/V Cabinet	20 A	1					180	0	1	20 A	Spare	24
25	Cadaver Lab Workroom 183B - Surface...	20 A	1	360	0					1	20 A	Spare	26
27	Cadaver Lab Workroom 183B - Surface...	20 A	1			360	0			1	20 A	Spare	28
29	Cadaver Lab Workroom 183B - UC Refrigerator	20 A	1					500	0	1	20 A	Spare	30
31					0					1	20 A	Spare	32
33							0			1	20 A	Spare	34
35	Spare	20 A	1					0	0	1	20 A	Spare	36
37	Spare	20 A	1	0	0					1	20 A	Spare	38
39	Spare	20 A	1			0	0			1	20 A	Spare	40
41	Spare	20 A	1					0	0	1	20 A	Spare	42
			Total Load:	2520 VA		2520 VA		2660 VA					
			Total Amps:	21 A		21 A		22 A					

Notes:

Panel: 1NL3

Location: CONTROL 160B **Volts:** 120/208 Wye **A.I.C. Rating:** 10,000
Supply From: SB-1 **Phases:** 3 **Mains Type:** MCB
Mounting: S **Wires:** 4 **Mains Rating:** 225 A
Enclosure: Type 1 **MCB Rating:**

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Power Lecture Hall 10.09 - Shades	20 A	1	1080	360					1	20 A	Control 160B - A/V Cabinet	2
3	Spare	20 A	1			0	360			1	20 A	Control 160B - A/V Cabinet	4
5	Spare	20 A	1					0	360	1	20 A	Control 160B - A/V Cabinet	6
7	Spare	20 A	1	0	360					1	20 A	Control 160B - A/V Cabinet	8
9	Spare	20 A	1			0	360			1	20 A	Control 160B - A/V Cabinet	10
11	Spare	20 A	1					0	360	1	20 A	Control 160B - A/V Cabinet	12
13	Spare	20 A	1	0	180					1	20 A	Control 160B - Receptacle	14
15	Spare	20 A	1			0	180			1	20 A	Control 160B - Receptacle	16
17	Spare	20 A	1					0	180	1	20 A	Control 160B - Receptacle	18
19	Spare	20 A	1	0	180					1	20 A	Lecture Hall 160 - Receptacle	20
21	Spare	20 A	1			0	540			1	20 A	Lecture Hall 160 - Receptacle	22
23	Spare	20 A	1					0	180	1	20 A	Lecture Hall 160 - Stage Floor Box	24
25	Spare	20 A	1	0	180					1	20 A	Lecture Hall 160 - Stage Floor Box	26
27	Spare	20 A	1			0	180			1	20 A	Lecture Hall Storage - Receptacle	28
29	Spare	20 A	1					0	0	1	20 A	Spare	30
31	Spare	20 A	1	0	0					1	20 A	Spare	32
33	Spare	20 A	1			0	0			1	20 A	Spare	34
35	Spare	20 A	1					0	0	1	20 A	Spare	36
37	Spare	20 A	1	0	180					1	20 A	Lecture Hall 160 - Subwoofer	38
39	Spare	20 A	1			0	350			1	15 A	Lecture Hall 160 - VF-3	40
41	Spare	20 A	1					0	0	1	20 A	Spare	42
			Total Load:	2520 VA		1970 VA		1080 VA					
			Total Amps:	22 A		18 A		9 A					

Notes:

Panel: 2LL1

Location: CORR-2 C280-2 **Volts:** 120/208 Wye **A.I.C. Rating:** 10,000
Supply From: SB-2 **Phases:** 3 **Mains Type:** MCB/SFL
Mounting: S **Wires:** 4 **Mains Rating:** 225 A
Enclosure: Type 1 **MCB Rating:**

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Cell Bio/Phys Research Lab 291 - Surface...	20 A	1	180	180					1	20 A	Cell Bio/Phys Research Lab 291 - Desk	2
3	Cell Bio/Phys Research Lab 291 - Surface...	20 A	1			180	180			1	20 A	Cell Bio/Phys Research Lab 291 - Desk	4
5	Cell Bio/Phys Research Lab 291 - Surface...	20 A	1					180	180	1	20 A	Cell Bio/Phys Research Lab 291 - Desk	6
7	Cell Bio/Phys Research Lab 291 - Surface...	20 A	1	180	180					1	20 A	Cell Bio/Phys Research Lab 291 - Desk	8
9	Cell Bio/Phys Research Lab 291 - Surface...	20 A	1			180	144			1	20 A	Cell Bio/Phys Research Lab 291 -...	10
11	Cell Bio/Phys Research Lab 291 - Surface...	20 A	1					360	180	1	20 A	Tissue Culture B 289B - Surface Raceway	12
13	Cell Bio/Phys Research Lab 291 - Surface...	20 A	1	360	180					1	20 A	Tissue Culture B 289B - Surface Raceway	14
15	Cell Bio/Phys Research Lab 291 - Surface...	20 A	1			180	180			1	20 A	Tissue Culture B 289B - Receptacle	16
17	Cell Bio/Phys Research Lab 291 - Fume Hood	20 A	1					500	180	1	20 A	Tissue Culture B 289B - Receptacle	18
19	Cell Bio/Phys Research Lab 291 - Surface...	20 A	1	360	492					1	20 A	Tissue Culture B 289B - Refrigerator	20
21	Cell Bio/Phys Research Lab 291 - UC Glass...	20 A	1			180	0			1	20 A	Spare	22
23	Cell Bio/Phys Research Lab 291 - Teacher	20 A	1					720	0	1	20 A	Spare	24
25	Cell Bio/Phys Research Lab 291 - Projector	20 A	1	500	0					1	20 A	Spare	26
27	Cell Bio/Phys Research Lab 291 - A/V Cabinet	20 A	1			360	0			1	20 A	Spare	28
29	Cell Bio/Phys Research Lab 291 - Shades	20 A	1					540	0	1	20 A	Spare	30
31	Cell Bio/Phys Research Lab 291 - BSC	15 A	1	1130	0					1	20 A	Spare	32
33	Cell Bio/Phys Research Lab 291 - Desk	20 A	1			180	0			1	20 A	Spare	34
35	Cell Bio/Phys Research Lab 291 - Desk	20 A	1					180	0	1	20 A	Spare	36
37	Spare	20 A	1	0	0					1	20 A	Spare	38
39	Spare	20 A	1			0	0			1	20 A	Spare	40
41	Spare	20 A	1					0	0	1	20 A	Spare	42
			Total Load:	3742 VA		1764 VA		3020 VA					
			Total Amps:	33 A		15 A		27 A					

Notes:

Panel: 2NL1

Location: ELEC 210B **Volts:** 120/208 Wye **A.I.C. Rating:** 10,000
Supply From: SB-1 **Phases:** 3 **Mains Type:** MCB
Mounting: S **Wires:** 4 **Mains Rating:** 225 A
Enclosure: Type 1 **MCB Rating:**

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Power Rm. C210A, C230, 210B	20 A	1	720 VA	180 VA					1	20 A	Classroom 231 - Floor Box	2
3	Power Rm. 212,214	20 A	1			720 VA	180 VA			1	20 A	Classroom 231 - Floor Box	4
5	Power Rm. 206, 208	20 A	1					540 VA	180 VA	1	20 A	Classroom 231 - Floor Box	6
7	Power Rm. 202, 206	20 A	1	720 VA	180 VA					1	20 A	Classroom 231 - Floor Box	8
9	Power Rm. 203	20 A	1			180 VA	180 VA			1	20 A	Classroom 233 - Floor Box	10
11	Power Rm. 203	20 A	1					180 VA	180 VA	1	20 A	Classroom 233 - Floor Box	12
13	Power Rm. 203, 205	20 A	1	540 VA	180 VA					1	20 A	Classroom 233 - Floor Box	14
15	Power Rm 203 A/V Receptacle	20 A	1			360 VA	360 VA			1	20 A	Classroom 231 - A/V Cabinet	16
17	Power Rm. 205, 207, 209	20 A	1					720 VA	360 VA	1	20 A	Classroom 233 - A/V Cabinet	18
19	Power Rm. 209, 211, 215	20 A	1	720 VA	180 VA					1	20 A	Classroom 231 - Floor Box	20
21	Power Rm. 215	20 A	1			180 VA	180 VA			1	20 A	Classroom 231 - Floor Box	22
23	Power Rm. 215	20 A	1					360 VA	180 VA	1	20 A	Work/Copy 200A - Counter	24
25	Power Rm. 231, 233	20 A	1	720 VA	360 VA					1	20 A	Break 200C - Desk	26
27	Power Rm. 231	20 A	1			430 VA	360 VA			1	20 A	Break 200C - Desk	28
29	Power Rm. 233	20 A	1					430 VA	1000...	1	20 A	Break 200C - Refrigerator	30
31	Power Rm. 233, 235	20 A	1	1080...	1656...					1	30 A	Break 200C - GD-2	32
33	Spare	20 A	1			0 VA	360 VA			1	20 A	Break 200C - Counter	34
35	Power Rm. C250, C250B, C230	20 A	1					720 VA	180 VA	2	20 A	Work/Copy 200A - Printer	36
37	Power Rm. C280	20 A	1	720 VA	180 VA								38
39	Elevator Lobby - Digital Signage	20 A	1			180 VA	360 VA			1	20 A	Lact 275 - Receptacle	40
41	Women 277, Men 279	20 A	1					360 VA	180 VA	1	20 A	Data 200B - Receptacle	42
43	EWC-2	20 A	1	370 VA	80 VA					1	15 A	EAB Connector - CUH-203, CUH-204	44
45	Power SCIN Convertible Classroom/General...	20 A	1			1080...	500 VA			1	20 A	EAB Connector - Electric Door Opener	46
47	Power General Classroom - Shades	20 A	1					720 VA	0 VA	1	20 A	Spare	48
49	Vest. C250A - Elec Door Openers	20 A	1	1000...	0 VA					1	20 A	Spare	50
51	Vest. C250A - CUH-201, Vest C230A -...	15 A	1			80 VA	0 VA			1	20 A	Spare	52
53	Vest. C230A - Elec Door Openers	20 A	1					1000...	0 VA	1	20 A	Spare	54
55	Men 279 - Electric Hand Dryer	20 A	1	1490...	0 VA					1	20 A	Spare	56
57	Wowmen 277 - Electric Hand Dryer	20 A	1			1490...	0 VA			1	20 A	Spare	58
59	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	60
			Total Load:	11076 VA		7180 VA		7290 VA					
			Total Amps:	92 A		60 A		61 A					

Notes:

Panel: 2NH1

Location: ELEC 210B **Volts:** 480/277 Wye **A.I.C. Rating:** 22,000
Supply From: US-1 **Phases:** 3 **Mains Type:** MCB/SFL
Mounting: S **Wires:** 4 **Mains Rating:** 175 A
Enclosure: Type 1 **MCB Rating:**

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Lighting Room 11.29.2, 11.23.2, 10.11-1,...	20 A	1	1140	0					1	20 A	Spare	2
3	Lighting Room 8.26, 8.30	20 A	1			1307	0			1	20 A	Spare	4
5	Lighting Room 8.32, 8.23, 8.24, 9.02.2, 8.29.2...	20 A	1					2417	0	1	20 A	Spare	6
7	Lighting Room 10.02.2-1, 10.14, 10.04-3,...	20 A	1	1513	0					1	20 A	Spare	8
9	Lighting Room 9.03.2, 9.03.3, 9.03.1/8.28	20 A	1			1568	0			1	20 A	Spare	10
11	Lighting Room 2.06, 2.04, 2.14, 2.05, 2.02.2,...	20 A	1					1319	0	1	20 A	Spare	12
13	Spare	20 A	1	0	0					1	20 A	Spare	14
15	Spare	20 A	1			0	0			1	20 A	Spare	16
17	Spare	20 A	1					0	0	1	20 A	Spare	18
19	Spare	20 A	1	0	0					1	20 A	Spare	20
21	Spare	20 A	1			0	0			1	20 A	Spare	22
23	Spare	20 A	1					0	0	1	20 A	Spare	24
25	Spare	20 A	1	0	0					1	20 A	Spare	26
27	Spare	20 A	1			0	0			1	20 A	Spare	28
29	Spare	20 A	1					0	0	1	20 A	Spare	30
31	Space	--	--	0	0					--	--	Space	32
33	Space	--	--			0	0			--	--	Space	34
35	Space	--	--					0	0	--	--	Space	36
37	Space	--	--	0	0					--	--	Space	38
39	Space	--	--			0	0			--	--	Space	40
41	Space	--	--					0	0	--	--	Space	42
			Total Load:	2653 VA		2875 VA		3736 VA					
			Total Amps:	10 A		11 A		14 A					

Notes:

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No.	Description	Date
3	ASI-010	21 JULY 2016
2	ADDENDUM 2-2	19 APRIL 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016

Drawing Title:

PANEL SCHEDULES

Project No.: 04561.01 Checked by:

E0504