Branch Panel: H2M

Location: ELEV. EQUIP. 213
Supply From:
Mounting: Recessed
Enclosure: Type 1

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

A.I.C. Rating:
Mains Type:
Mains Rating: 225 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				23861...	970 VA								2
3	CHILLER CH-1	100 A	3			23861...	970 VA			3	20 A	AIR HANDLER AHU-2 HVAC	4
5								23861...	970 VA				6
7				970 VA	970 VA								8
9	AIR HANDLER AHU-3 HVAC	20 A	3			970 VA	970 VA			3	20 A	AIR HANDLER AHU-4 HVAC	10
11								970 VA	970 VA				12
13				970 VA	970 VA								14
15	AIR HANDLER AHU-5 HVAC	20 A	3			970 VA	970 VA			3	20 A	AIR HANDLER AHU-6 HVAC	16
17								970 VA	970 VA				18
19				970 VA	970 VA								20
21	AIR HANDLER AHU-7 HVAC	20 A	3			970 VA	970 VA			3	20 A	AIR HANDLER AHU-1 HVAC	22
23								970 VA	970 VA				24
25				582 VA									26
27	POWER RELIEF HOOD EF-	20 A	3			582 VA							28
29								582 VA					30
31				970 VA									32
33	AIR HANDLER AHU-8 HVAC	20 A	3			970 VA							34
35								970 VA					36
37													38
39													40
41													42
			Total Load:	32203 VA		32203 VA		32203 VA					
			Total Amps:	116 A		116 A		116 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	96608 VA	100.00%	96608 VA		
				Total Conn. Load:	96608 VA
				Total Est. Demand:	96608 VA
				Total Conn.:	116 A
				Total Est. Demand:	116 A

Notes:

Branch Panel: HHP

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

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

A.I.C. Rating:
Mains Type:
Mains Rating: 200 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				1341...	7482 VA								2
3	THP	70 A	3			13419...	7482...			3	70 A	Power Elev. 202	4
5								13419...	7482...				6
7				7482...	120 VA					1	20 A	LIGHTING	8
9	Power Elev. 205	70 A	3			7482...	6000...			1	30 A	HEATING SPACE 134	10
11								7482 VA	900 VA	1	20 A	LIGHTING	12
13	LIGHTING	20 A	1	407 VA	1947 VA					1	20 A	LIGHTING	14
15						1413...	6679...						16
17	MOTOR	20 A	3					1413 VA	6679...	3	30 A	MOTOR	18
19				1413...	6679 VA								20
21	Power	20 A	1			500 VA							22
23	Spare	20 A	1					0 VA	860 VA	1	20 A	LIGHTING	24
25					5265 VA								26
27							5265...			3	30 A	RTU-1 ROOFTOP UNIT	28
29									5265...				30
			Total Load:	44214 VA		48240 VA		43500 VA					
			Total Amps:	160 A		175 A		157 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	15796 VA	100.00%	15796 VA		
Power	120158 VA	100.00%	120158 VA	**Total Conn. Load:**	135954 VA
				Total Est. Demand:	135954 VA
				Total Conn.:	164 A
				Total Est. Demand:	164 A

Notes:

Branch Panel: L2B

Location: STORAGE 227D
Supply From: L1A
Mounting: Recessed
Enclosure: Type 1

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

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

1

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Other CUST 227C	20 A	1	2000...	720 VA					1	20 A	Receptacle STORAGE 227A	2
3	Receptacle PROGRAMMING SPACE 227	20 A	1			1260...	180 VA			1	20 A	Receptacle PROGRAMMING SPACE 227	4
5	Receptacle OFFICE 204	20 A	1					720 VA	360 VA	1	20 A	Receptacle	6
7	Receptacle MAKER SPACE STORY TIME 207	20 A	1	1440...	1063 VA					1	20 A	Receptacle Room 227C, 227D, EXHAUST FAN...	8
9	Receptacle FAMILY RR 227B	20 A	1			360 VA	1352...			2	20 A	AC-2 CONDENSING UNIT	10
11									1352...				12
13													14
15													16
17													18
19													20
21													22
23													24
25													26
27													28
29													30
			Total Load:	5223 VA		3152 VA		2432 VA					
			Total Amps:	44 A		27 A		20 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	3227 VA	100.00%	3227 VA		
Other	2000 VA	100.00%	2000 VA	**Total Conn. Load:**	10807 VA
Power	1080 VA	100.00%	1080 VA	**Total Est. Demand:**	10807 VA
Receptacle	4500 VA	100.00%	4500 VA	**Total Conn.:**	30 A
				Total Est. Demand:	30 A

Notes:

9/9/2016 9:57:20 AM

Branch Panel: L2A

Location: ROOF ACCESS 211
Supply From:
Mounting: Recessed
Enclosure: Type 1

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

A.I.C. Rating:
Mains Type:
Mains Rating: 225 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Power FLEXIBLE LEARNING CENTER 222	20 A	1	1440...	1080 VA					1	20 A	Power FLEXIBLE LEARNING CENTER 222	2
3	Receptacle FLEXIBLE LEARNING CENTER 222	20 A	1			1080...	1260...			1	20 A	Power FLEXIBLE LEARNING CENTER 222	4
5	Power FLEXIBLE LEARNING CENTER 221	20 A	1					1080 VA	1080...	1	20 A	Power FLEXIBLE LEARNING CENTER 221	6
7	Receptacle FLEXIBLE LEARNING CENTER 221	20 A	1	1620...	1800 VA					1	20 A	Power INNOVATION 220	8
9	Power INNOVATION 220	20 A	1			1440...	1260...			1	20 A	Power BOARD ROOM STUDIO 219	10
11	Receptacle BOARD ROOM STUDIO 219	20 A	1					1440 VA	1260...	1	20 A	Receptacle BOARD ROOM STUDIO 219	12
13	Power CIRCULATION 201	20 A	1	1080...	1620 VA					1	20 A	Power CIRCULATION 201	14
15	Receptacle CIRCULATION 201	20 A	1			180 VA	180 VA			1	20 A	Receptacle CIRCULATION 201	16
17	Receptacle FLEX SPACE 210	20 A	1					900 VA	900 VA	1	20 A	Receptacle FLEX SPACE 224	18
19	Receptacle MEN'S 217	20 A	1	720 VA	900 VA					1	20 A	Receptacle FLEX SPACE 211	20
21	Receptacle OFFICE 212	20 A	1			900 VA	360 VA			1	20 A	Receptacle MECH. 208	22
23	Receptacle FAMILY RR 208	20 A	1					360 VA	1080...	1	20 A	Receptacle STORAGE 223	24
25	BL-1 & BL-2 BOILERS MECH. 214	30 A	1	2200...	360 VA					1	20 A	Receptacle IT 215	26
27	Receptacle IT 215	20 A	1			360 VA	360 VA			1	20 A	Receptacle IT 215	28
29	Receptacle KITCHEN 218	20 A	1					1080 VA	2500...	2	40 A	Receptacle KITCHEN 218	30
31	DISHWASHER KITCHEN 218	20 A	1	180 VA	2500 VA								32
33	Receptacle KITCHEN 218	20 A	1			540 VA	1200...			1	20 A	MICROWAVE KITCHEN 218	34
35	Receptacle FLEX SPACE 201C	20 A	1					540 VA	1352...	2	20 A	SPLIT SYSTEM CONDENSING UNIT CU-1	36
37	EF-3 EHAUST FAN	20 A	1	232 VA	1352 VA								38
39	EF-1 & EF-2 EHAUST FANS MEN'S 222 &...	15 A	1			851 VA	229 VA			2	15 A	CP-1 & CP-2 BOILER PUMPS DUPLEX	40
41	HVAC KITCHEN 210	15 A	1					523 VA	229 VA				42
43	Receptacle MEN'S 222	20 A	1	180 VA	372 VA					1	15 A	CFC-1 CABINET FAN COIL	44
45	ICE MAKER KITCHEN 210	30 A	2			90 VA	1200...			1	20 A	REFRIGERATOR KITCHEN 210	46
47								90 VA	180 VA	1	20 A	DISPOSER KITCHEN 210	48
49	CP-4 DOM. PUMP	15 A	1	458 VA	229 VA					2	15 A	CP-3 DOM HEATING	50
51	Spare	20 A	1			0 VA	229 VA						52
53	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	54
			Total Load:	18323 VA		11719 VA		14594 VA					
			Total Amps:	156 A		98 A		125 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	5226 VA	100.00%	5226 VA		
Motor	830 VA	100.00%	830 VA	**Total Conn. Load:**	44636 VA
Power	11340 VA	100.00%	11340 VA	**Total Est. Demand:**	36016 VA
Receptacle	27240 VA	68.36%	18620 VA	**Total Conn.:**	124 A
				Total Est. Demand:	100 A

Notes:

Branch Panel: H2A

Location: Space 11
Supply From:
Mounting: Recessed
Enclosure: Type 1

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

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

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Room 268, 201C, 286	20 A	1	1379...	1800...					1	20 A	Lighting INNOVATION 220	2
3	Lighting CIRCULATION-2 201-2	20 A	1			640 VA	1880...			1	20 A	Lighting KITCHEN 218	4
5	Lighting BOARD ROOM STUDIO 219	20 A	1					2683...					6
7													8
9													10
11													12
13													14
15													16
17													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:	3179 VA		2520 VA		2683 VA					
			Total Amps:	12 A		9 A		10 A					

Legend:

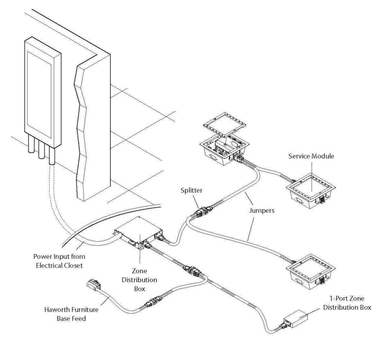
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	10200 VA	100.00%	10200 VA		
Other	10 VA	100.00%	10 VA	**Total Conn. Load:**	10210 VA
				Total Est. Demand:	10210 VA
				Total Conn.:	12 A
				Total Est. Demand:	12 A

Notes:

System Overview

Power is typically routed from the electrical closet through pre-wired flexible conduit to separate zones of the floor plate. Power is then distributed within each zone using modular wiring. Modular wiring puts flexibility out in the area where most day-to-day reconfigurations occur. Power can be routed from the electrical closet with the pre-wired Zone Distribution Box or an Infeed Harness. The Zone Distribution Box is available with factory installed pre-wired conduits with three sets up to 125', and two sets of circuits up to 200', or the field wired Zone Distribution Box can be used with locally supplied MC cable or conduit. The infeed harness routes a single set of circuits and is available in lengths up to 100'. Power is routed within the zone by 8-Wire modular flex conduit Jumpers. The Jumpers are fully populated with all eight wires so all circuits are available for future moves. The Flush Service Module provides Modular Receptacles under a hinged lid. The Modular Receptacles allow fast change of circuits as users' needs change. Flush Service Modules can be moved to other floor tile locations by re-routing the flex conduit Jumpers. The Service Modules allow for multiple Jumpers to connect (two Dual Service Modules/four Quad Service Modules) for branching within a zone. The Splitter is used to join up to four Jumpers. By using Splitters, the zone can be expanded to meet future needs. For more extensive renovations, the Zone Distribution Box can be moved by re-routing the flex conduit feed.

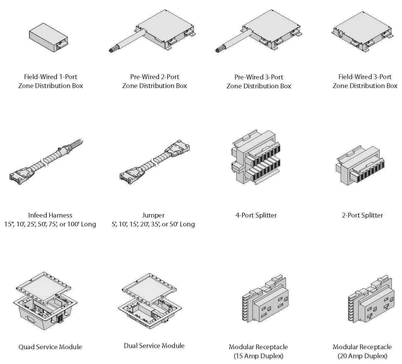
Under Floor Application



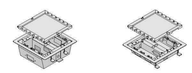
Note MC Cable = Metal Clad Cable in this document.

Statement of Line: Power Base AI

3- and 4-Circuit



Hardwire



Colorado Mountain College

PROJECT DESCRIPTION

Delta	Description	Date Issued
1	ADDENDUM #002	9/8/16

HUMPHRIES POLI ARCHITECTS

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by the Architect as instruments of service shall remain the property of the Architect. The Architect shall retain all common law, statutory and other reserved rights, including copyright thereto.

ELECTRICAL PANEL SCHEDULES & DETAILS

BIDDING/PERMIT SET
8/01/2016

PROJECT No.	PROJECT ARCH	PROJECT MNGR	CHECKED BY
16-001	Approver	Designer	Checker

SHEET No.

E3-2