PROJECT: CNJ - NEW ART &IMM BUILDING | PANEL VOLTAGE: 480 / 277V | AIC RATING: 65,000
PANEL: HBM1 | PHASE & WIRE: 3PH, 4W | MOUNTING: SURFACE
LOCATION: MECHANICAL ROOM #BM1 | BUS/MAIN (AMPS): 600A/600A MCB | NOTES: SEE NOTES BELOW

CKT NO.	OCD A	OCD P	DESCRIPTION	LOAD (KVA) MISC	REC	LTG	3 PH SEQUENCE A	B	C	LOAD (KVA) MISC	REC	LTG	DESCRIPTION	OCD A	P	CKT NO.
1	60	3	PUMP P-1: MECH RM BM1	7.2			21.2			14.0			WATER BOOSTER PUMP DBP-1: MECH RM BM1	125	3	2
3				7.2				21.2		14.0						4
5				7.2					21.2	14.0						6
7	20	3	PUMP P-3: MECH RM BM1	0.7			12.7			12.0			WATER HEATER EWH-1: MECH RM BM1	60	3	8
9				0.7				12.7		12.0						10
11				0.7					12.7	12.0						12
13	15	3	PUMP P-5: MECH RM BM1	0.4			0.4						SPARE	20	3	14
15				0.4				0.4								16
17				0.4					0.4							18
19	20	3	SPARE				0.0						SPARE	20	3	20
21								0.0								22
23									0.0							24
25	20	1	SPARE										SPARE	20	1	26
27	20	1	SPARE										SPARE	20	1	28
29	20	1	SPARE						0.0				SPARE	20	1	30
31	20	1	LIGHTING BASEMENT			2.4	4.8					2.4	LIGHTING BASEMENT	20	1	32
33	20	1	SPARE					0.0					SPARE	20	1	34
35	20	1	SPARE						0.0				SPARE	20	1	36
37	20	1	SPARE				10.7			8.2	2.2	0.3	45 KVA TRANSFORMER FEEDING PANEL PBM1	70	3	38
39	20	1	SPARE					10.7		8.2	2.2	0.3				40
41	20	1	SPARE						10.7	8.2	2.2	0.3				42
SUB-TOTAL CONNECTED LOAD (KVA)				24.9	0.0	2.4	50	45	45	102.6	6.6	3.4				
CONNECTED LOAD THIS SECTION (KVA)				127.5	6.6	5.8										
TOTAL CONNECTED LOAD (KVA)				127.5	6.6	5.8										
DEMAND FACTOR				0.8	X	1.0							DEMAND LOAD (KVA)	114		
TOTAL DEMAND LOAD (KVA)				102.0	6.6	5.8							SPARE LOAD (KVA)	28.6		
													TOTAL DEMAND (KVA)	143		
													LINE CURRENT (AMPS)	172		

X= 1ST 10KVA @ 100%, + REMAINDER @ 50% (2005 N.E.C. 220-13)

PROJECT: CNJ - NEW ART &IMM BUILDING | PANEL VOLTAGE: 208 / 120V | AIC RATING: 10,000
PANEL: PBM1 SECTION 1 | PHASE & WIRE: 3PH, 5W | MOUNTING: SURFACE
LOCATION: MECHANICAL ROOM #BM1 | BUS/MAIN (AMPS): 250A/150A MCB | NOTES: SEE NOTES BELOW

CKT NO.	OCD A	OCD P	DESCRIPTION	LOAD (KVA) MISC	REC	LTG	3 PH SEQUENCE A	B	C	LOAD (KVA) MISC	REC	LTG	DESCRIPTION	OCD A	P	CKT NO.
1	10	1	UH-2: MECH RM BM1 - EAST	0.4			0.8			0.4			WATER SOFTENER	15	1	2
3	10	1	UH-3: MECH RM BM1 - WEST	0.4				1.4		1.0			WATER HEATER SWH-2: MECH RM BM1	15	1	4
5	10	1	UH-1: GENERATOR RM BE2	0.4					1.3	0.9			CUH-6, CUH-7 & CUH-8	20	1	6
7	20	1	RECEPTACLES: MECH RM BM1		1.0		1.0						SPARE	20	1	8
9	20	1	RECEPTACLES: BC1		0.6			1.0		0.4			PUMP HRP-1 MECH RM BM1	15	3	10
11	20	1	RECEPTACLES: MECH RM BM4 & BM5, B02 & BT1		1.2				1.6	0.4						12
13	20	1	RECEPTACLES: RM BE1 & BE2		1.0		1.4			0.4						14
15	20	1	ELECTRONIC TRAP PRIMER	0.6				1.6		1.0			WATER HEATER SWH-1: MECH RM BM1	20	1	16
17	20	1	RECEPTACLES: RM BE1 0.8		1.0				2.4	1.4			CRAC-8: RM B02	15	2	18
19	20	1	RECEPTACLES: RM BM2, BC1 & OUTDOOR		1.0		2.4			1.4						20
21	20	1	RECEPTACLES: RM BC2 & STOR B01		0.8			1.3		0.5			COMP RM A/C UNIT CRAC-1: TEL/COM RM BT1	20	2	22
23	20	1	ELECTRONIC TRAP PRIMER	0.4					0.9	0.5						24
25	20	1	TIMER CONTROL BE1			1.0	2.6			1.6			FAN SF-6: CORRIDOR BC2	20	1	26
27	20	1	AUTOMATIC GLYCOL FEEDER	0.8				2.4		1.6			FAN SF-7: CORRIDOR BC2	20	1	28
29	20	1	AUTOMATIC GLYCOL FEEDER	0.8					3.9	3.1			AIR COMPRESSOR	50	3	30
31	20	1	SPARE				3.1			3.1			/	/	/	32
33	20	1	SPARE					3.1		3.1			/	20	1	34
35	20	1	SPARE						0.0				SPARE	20	1	36
37	20	1	SPARE				0.0						SPARE	20	1	38
39	20	1	SPARE					0.0					SPARE	20	1	40
41	20	1	SPARE						0.0				SPARE	20	1	42
SUB-TOTAL CONN. LOAD (KVA)				3.8	6.6	1.0	11	11	10	20.8	0.0	0.0				
CONNECTED LOAD THIS SECTION (KVA)				24.6	6.6	1.0										
TOTAL CONNECTED LOAD (KVA)				24.6	6.6	1.0										
DEMAND FACTOR				0.8	X	1.0							DEMAND LOAD (KVA)	27		
TOTAL DEMAND LOAD (KVA)				19.7	6.6	1.0							SPARE LOAD (KVA)	6.82		
													TOTAL DEMAND (KVA)	34		
													LINE CURRENT (AMPS)	94.7		

X= 1ST 10KVA @ 100%, + REMAINDER @ 50% (2005 N.E.C. 220-13)
PROVIDE FEED THROUGH LUG FOR FUTURE SECTION 2

PROJECT: CNJ - NEW ART &IMM BUILDING | PANEL VOLTAGE: 480 / 277V | AIC RATING: 22,000
PANEL: H1E1 | PHASE & WIRE: 3PH, 4W | MOUNTING: SURFACE
LOCATION: ELECTRICAL ROOM #1E1 | BUS/MAIN (AMPS): 400A/400A MCB | NOTES: SEE NOTES BELOW

CKT NO.	OCD A	OCD P	DESCRIPTION	LOAD (KVA) MISC	REC	LTG	3 PH SEQUENCE A	B	C	LOAD (KVA) MISC	REC	LTG	DESCRIPTION	OCD A	P	CKT NO.
1	15	3	EF-12: RM 104.1	0.3			3.9					3.6	LIGHTING RM 102	20	1	2
3				0.3				3.2				2.9	LIGHTING RM 103, 103.1, 104, 104.1	20	1	4
5				0.3					2.1			1.8	LIGHTING RM 103, 103.1, 104, 104.2	20	1	6
7	20	1	LIGHTING RM 109, 110, 111			1.7	4.7			3.0			DCU-1: SCULPTURE YARD	30	3	8
9	20	1	SPARE					3.0		3.0						10
11	20	1	SPARE						3.0	3.0						12
13	20	1	SPARE				0.0						SPARE	20	1	14
15	20	1	SPARE					0.0					SPARE	20	1	16
17	20	1	SPARE						0.0				SPARE	20	1	18
19	20	1	SPARE				0.0						SPARE	20	1	20
21	20	1	SPARE					0.0					SPARE	20	1	22
23	20	1	SPARE						0.0				SPARE	20	1	24
25	20	1	SPACE				0.0						SPACE	20	1	26
27	20	1	SPACE					0.0					SPACE	20	1	28
29	20	1	SPACE						0.0				SPACE	20	1	30
31	20	1	SPACE				0.0						SPACE	20	1	32
33	20	1	SPACE					0.0					SPACE	20	1	34
35	20	1	SPACE						0.0				SPACE	20	1	36
37	20	1	SPACE				37.0			10.4	11.8	14.9	112.5 KVA TRANSFORMER FEEDING PANEL P1E1	175	3	38
39	20	1	SPACE					37.0		10.4	11.8	14.9				40
41	20	1	SPACE						37.0	10.4	11.8	14.9				42
SUB-TOTAL CONNECTED LOAD (KVA)				0.9	0.0	1.7	46	43	42	40.1	35.3	52.9				
CONNECTED LOAD THIS SECTION (KVA)				41.0	35.3	54.6										
TOTAL CONNECTED LOAD (KVA)				41.0	35.3	54.6										
DEMAND FACTOR				0.8	X	1.0							DEMAND LOAD (KVA)	110		
TOTAL DEMAND LOAD (KVA)				32.8	22.7	54.6							SPARE LOAD (KVA)	27.5		
													TOTAL DEMAND (KVA)	138		
													LINE CURRENT (AMPS)	165		

X= 1ST 10KVA @ 100%, + REMAINDER @ 50% (2005 N.E.C. 220-13)

PROJECT: CNJ - NEW ART &IMM BUILDING | PANEL VOLTAGE: 208 / 120V | AIC RATING: 10,000
PANEL: P1E2 | PHASE & WIRE: 3PH, 4W | MOUNTING: SURFACE
LOCATION: ELECTRICAL ROOM #1E2 | BUS/MAIN (AMPS): 400A/400A MCB | NOTES: SEE NOTES BELOW

CKT NO.	OCD A	OCD P	DESCRIPTION	LOAD (KVA) MISC	REC	LTG	3 PH SEQUENCE A	B	C	LOAD (KVA) MISC	REC	LTG	DESCRIPTION	OCD A	P	CKT NO.
1	20	1	RECEPTACLES: ELEC RM 1E2 & RM 119		0.9		1.7				0.8		RECEPTACLES: RM 118.1, 118.2, 118.2A	20	1	2
3	20	1	RECEPTACLES: RM 101, 121.1, 121.2, 121.3, OUTDOOR		1.1			2.2			1.1		RECEP: RM 119, OUTDOOR PAPER STUDIO	20	1	4
5	20	1	QUAD RECEPTACLE: TEL RM 1T2		1.0				2.8	1.8			WASHING MACHINE: RM 119.1	20	1	6
7	20	1	QUAD RECEPTACLE: TEL RM 1T2		1.0		1.9			0.9			PAPERMAKING BEATER: RM 119.1	20	2	8
9	20	1	RECEPTACLES: TEL RM 1T2		0.8			1.7		0.9						10
11	20	1	RECEPTACLES, COMPUTER: RM 113, 114, 122		0.9				2.3	1.4			REFRIGERATOR: RM 119.2	20	1	12
13	20	1	RECEPTACLES: RM 114		0.4		1.5				1.1		RECEPT: RM 120.1, 1ST3, CORR 1C3 & OUTDOOR	20	1	14
15	20	1	RECEPTACLES, COMPUTER: RM 113, 114, 115, 117		1.2			2.1			0.9		RECEPTACLES, COMPUTER: RM 120	20	1	16
17	20	1	RECEPTACLE : RM 119 & JB FOR RANGE HOOD	0.3	0.4	0.1			1.6	0.8			PROJECTOR & SCREEN: RM 120	20	1	18
19	20	1	RECEPTACLES: RM 113, 115, CORRIDOR 1C3		0.9		1.6			0.7			SEWING MACHINE: RM 120	20	1	20
21	20	1	RCEPTACLES: CORRIDOR 1C3, 1C4		0.9			2.3		1.4			SEWING MACHINE: RM 120	20	1	22
23	20	1	RECEPTACLES: RM 113 & OUTDOOR		0.8				2.2	1.4			SEWING MACHINE: RM 120	20	1	24
25	20	1	AV RACK: RM 120	0.8			2.6			1.8			PAPER DRYER: RM 118.2	20	1	26
27	20	1	AV RACK: RM 121	0.8				1.9		1.1			SILK SCREEN PRINTING EQUIPMENT: RM 118.2A	20	1	28
29	20	1	RECEPTACLE LCD FLAT PANEL: LOBBY 101		0.4				2.2	1.8			SILK SCREEN PRINTING & DRYER: RM 118.2A	20	1	30
31	20	1	RECEPTACLES: RM 116, 117		1.1		2.3			1.2			ELECTRIC HYDRAULIC PUMP PRESS: RM 119	25	1	32
33	20	1	RECEP: CORR 1C4, STAIR 1ST4, OUTDOOR		0.9			2.0			1.1		RECEPTACLES: RM 120	20	1	34
35	20	1	RECEPTACLES: RM 117, 117.1		1.1				2.0		0.9		RECEPTACLES: RM 120, 121	20	1	36
37	20	1	RECEPTACLES, COMPUTER: RM 117, 117.1		1.2		2.1				0.9		RECEPTACLES, COMPUTER: RM 121, LOBBY 101	20	1	38
39	20	1	RECEPTACLES: RM 118		0.8			1.9			1.1		RECEPTACLES: RM 119, 119.2, 121, 122	20	1	40
41	20	1	RECEPTACLES: RM 118 & 118.3		0.8				1.6	0.8			PROJECTOR & SCREEN: RM 121	20	1	42
SUB-TOTAL CONN. LOAD (KVA)				1.9	16.6	0.1	14	14	15	16.0	7.9	0.0				
CONNECTED LOAD THIS SECTION (KVA)				17.9	24.5	0.1										
CONNECTED LOAD SECTION 2 (KVA)				23.3	5.0	56.9										
TOTAL CONNECTED LOAD (KVA)				41.2	29.5	57.0										
DEMAND FACTOR				0.8	X	0.8							DEMAND LOAD (KVA)	95		
TOTAL DEMAND LOAD (KVA)				33.0	19.8	42.8							SPARE LOAD (KVA)	23.9		
													TOTAL DEMAND (KVA)	119		
													LINE CURRENT (AMPS)	331		

X= 1ST 10KVA @ 100%, + REMAINDER @ 50% (2005 N.E.C. 220-13)
PROVIDE 200% NEUTRAL AND ISOLATED GROUND BAR
PROVIDE FEED-THRU LUGS

PROJECT: CNJ - NEW ART &IMM BUILDING | PANEL VOLTAGE: 208 / 120V | AIC RATING: 10,000
PANEL: P1E2 SECTION (2) | PHASE & WIRE: 3PH, 5W | MOUNTING: SURFACE
LOCATION: ELECTRICAL ROOM #1E2 | BUS/MAIN (AMPS): 400A MLO | NOTES: SEE NOTES BELOW

CKT NO.	OCD A	OCD P	DESCRIPTION	LOAD (KVA) MISC	REC	LTG	3 PH SEQUENCE A	B	C	LOAD (KVA) MISC	REC	LTG	DESCRIPTION	OCD A	P	CKT NO.
43	30	2	ELECTRIC DRYER: RM 119.1	2.3			3.5			1.2			CRAC-2: TEL RM 1T2	20	2	44
45				2.3				3.5		1.2						46
47	20	1	LIGHT COURTYARD			0.2			0.3	0.1			TF-2: ELEC RM 1E2	20	1	48
49	20	1	LIGHTING: RM 121			1.6	1.8					0.2	LIGHT BOXES: RM 118.2A	20	1	50
51	20	1	LIGHTING: RM 121			1.8		3.6		1.8			HOT PLATES: RM 118	20	1	52
53	20	1	LIGHTING: RM 121			1.8			3.4	1.6			VACUUM SILK SCREEN WORKTABLE: RM 118	20	1	54
55	50	2	ELECTRIC RANGE: RM 119	4.7			5.7			1.0			SPRAYBOOTH: RM 118	20	1	56
57				4.7				5.3			0.6		SCREEN PRINTING WASHOUT BOOTH: RM 118	20	1	58
59	20	1	ELECTRONIC TRAP PRIMER: RM 115, 119	0.4					2.3	1.9			DROP DOWN COILED OUTLET (VACUUM TABLE): RM 119	30	1	60
61	20	1	RECEPTACLES: RM 114,115		0.6		1.2				0.6		RECEPTACLE ON UNISTUD RM 113	20	1	62
63	20	1	RECEPTACLES: RM 113		0.5			1.1			0.6		RECEPTACLE ON UNISTUD RM 113	20	1	64
65	20	1	RECEPTACLES: RM 113		0.5				1.1		0.6		RECEPTACLE ON UNISTUD RM 113	20	1	66
67	20	1	SCREEN PRINTING WASHOUT BOOTH: RM 118		0.6		1.1			0.5			ACID CONTROL PANEL	20	1	68
69	20	1	SPARE					0.0					SPARE	20	1	70
71	20	1	SPARE						0.0				SPARE	20	1	72
73	20	1	SPARE				0.0						SPARE	20	1	74
75	20	1	SPARE					0.0					SPARE	20	1	76
77	20	1	SPARE						0.0				SPARE	20	1	78
79	20	1	SPARE				0.0						SPARE	20	1	80
81	20	1	SPARE					0.0					SPARE	20	1	82
83	20	1	SPARE						0.0				SPARE	20	1	84
SUB-TOTAL CONN. LOAD (KVA)				14.0	2.6	5.4	13	14	7	9.3	2.4	0.2				
CONNECTED LOAD THIS SECTION (KVA)				23.3	5.0	5.6										
CONNECTED LOAD SECTION 3 (KVA)				0.0	0.0	51.3										
TOTAL CONNECTED LOAD (KVA)				23.3	5.0	56.9										
DEMAND FACTOR				0.8	X	0.8							DEMAND LOAD (KVA)	66		
TOTAL DEMAND LOAD (KVA)				18.6	5.0	42.7							SPARE LOAD (KVA)	16.6		
													TOTAL DEMAND (KVA)	83		
													LINE CURRENT (AMPS)	230		

X= 1ST 10KVA @ 100%, + REMAINDER @ 50% (2005 N.E.C. 220-13)
PROVIDE FEED-THRU LUGS
PROVIDE 200% NEUTRAL AND ISOLATED GROUND BAR

PROJECT: CNJ - NEW ART &IMM BUILDING | PANEL VOLTAGE: 208 / 120V | AIC RATING: 10,000
PANEL: P1E2 SECTION (3) | PHASE & WIRE: 3PH, 5W | MOUNTING: SURFACE
LOCATION: ELECTRICAL ROOM #1E2 | BUS/MAIN (AMPS): 400A MLO | NOTES: SEE NOTES BELOW

CKT NO.	OCD A	OCD P	DESCRIPTION	LOAD (KVA) MISC	REC	LTG	3 PH SEQUENCE A	B	C	LOAD (KVA) MISC	REC	LTG	DESCRIPTION	OCD A	P	CKT NO.
85	20	1	TRACK LIGHTS 1C4			1.7	3.4					1.7	TRACK LIGHTS 1C4	20	1	86
87	20	1	TRACK LIGHTS 1C4			1.7		3.4				1.7	TRACK LIGHTS 1C4	20	1	88
89	20	1	TRACK LIGHTS 118, 119			1.1			2.5			1.4	TRACK LIGHTS 1C3	20	1	90
91	20	1	TRACK LIGHTS 118, 119			1.1	2.5					1.4	TRACK LIGHTS 1C3	20	1	92
93	20	1	TRACK LIGHTS 114			1.6		3.4				1.8	TRACK LIGHTS 1C3	20	1	94
95	20	1	TRACK LIGHTS 114			1.6			3.4			1.8	TRACK LIGHTS 1C3	20	1	96
97	20	1	TRACK LIGHTS 114			1.6	3.2					1.6	TRACK LIGHTS 114	20	1	98
99	20	1	TRACK LIGHTS 114			1.6		3.2				1.6	TRACK LIGHTS 114	20	1	100
101	20	1	TRACK LIGHTS 114			1.6			3.0			1.4	TRACK LIGHTS 113	20	1	102
103	20	1	TRACK LIGHTS 114			1.6	3.0					1.4	TRACK LIGHTS 113	20	1	104
105	20	1	TRACK LIGHTS 113			1.5		2.9				1.4	TRACK LIGHTS 113	20	1	106
107	20	1	TRACK LIGHTS 113			1.5			2.9			1.4	TRACK LIGHTS 113	20	1	108
109	20	1	TRACK LIGHTS 113			1.5	2.9					1.4	TRACK LIGHTS 113	20	1	110
111	20	1	TRACK LIGHTS 113			1.5		2.9				1.4	TRACK LIGHTS 113	20	1	112
113	20	1	TRACK LIGHTS 120			1.4			3.2			1.8	TRACK LIGHTS 121	20	1	114
115	20	1	TRACK LIGHTS 120			1.4	3.2					1.8	TRACK LIGHTS 121	20	1	116
117	20	1	SPARE					1.2				1.2	TRACK LIGHTS 121	20	1	118
119	20	1	SPARE						1.2			1.2	TRACK LIGHTS 121	20	1	120
121	20	1	SPARE				0.0						SPARE	20	1	122
123	20	1	SPARE					0.0					SPARE	20	1	124
125	20	1	SPARE						0.0				SPARE	20	1	126
SUB-TOTAL CONN. LOAD (KVA)				0.0	0.0	24.0	18.2	17.0	16.2	0.0	0.0	27.3				
CONNECTED LOAD THIS SECTION (KVA)				0.0	0.0	51.3										
TOTAL CONNECTED LOAD (KVA)				0.0	0.0	51.3										
DEMAND FACTOR				0.8	X	0.8							DEMAND LOAD (KVA)	38		
TOTAL DEMAND LOAD (KVA)				0.0	0.0	38.5							SPARE LOAD (KVA)	9.62		
													TOTAL DEMAND (KVA)	48		
													LINE CURRENT (AMPS)	133		

X= 1ST 10KVA @ 100%, + REMAINDER @ 50% (2005 N.E.C. 220-13)
PROVIDE 200% NEUTRAL AND ISOLATED GROUND BAR

PROJECT: CNJ - NEW ART &IMM BUILDING | PANEL VOLTAGE: 208 / 120V | AIC RATING: 10,000
PANEL: P1E1 | PHASE & WIRE: 3PH, 5W | MOUNTING: SURFACE
LOCATION: ELECTRICAL ROOM #1E1 | BUS/MAIN (AMPS): 400A/400A MCB | NOTES: SEE NOTES BELOW

CKT NO.	OCD A	OCD P	DESCRIPTION	LOAD (KVA) MISC	REC	LTG	3 PH SEQUENCE A	B	C	LOAD (KVA) MISC	REC	LTG	DESCRIPTION	OCD A	P	CKT NO.
1	10	1	RECEPTACLES: ELEC RM 1E1, RM 110.1, 111		0.9		2.0				1.1		RECEPTACLES: RM 108.3	20	1	2
3	20	1	RECEPTACLES, COMPUTER: RM 103		1.2			2.1			0.9		RECEPTACLES: RM 108	20	1	4
5	20	1	QUAD RECEPTACLE: TEL RM 1T1		1.0				1.6		0.6		RECEPTACLES: SCULPTURE YARD	20	1	6
7	20	1	QUAD RECEPTACLE: TEL RM 1T1		1.0		1.9				0.6		RECEPTACLES: RM 108	20	1	8
9	20	1	RECEPTACLES: TEL RM 1T1		0.8			1.7			0.9		RECEPTACLES: RM 108, 108.1, 108.2	20	1	10
11	20	1	RECEPTACLES: RM 105, 106, 107		0.9				1.9		1.0		SPARE	20	1	12
13	20	1	RECEPTACLES: CORRIDOR 1C1, 1C2		1.1		1.7				0.6		RECEPTACLES: SCULPTURE YARD	20	1	14
15	20	1	MICROWAVE: RM 110.1	1.8				2.4			0.6		RECEPTACLES: OUTDOOR	20	1	16
17	20	1	SPARE						0.8	0.8			AV RACK: RM 103	20	1	18
19	20	1	RECEPTACLES, COMPUTER: RM 112, 113		1.2		2.1				0.9		RECEPTACLES: RM 103	20	1	20
21	20	1	RECEPTACLES: RM 113 & LOBBY 101		1.1			1.9			0.8		RECEPTACLES, COMPUTER: RM 103	20	1	22
23	20	1	RECEPTACLES: RM 113 & OUTDOOR		0.8				1.9		1.1		RECEPTACLES: RM 104, 104.1	20	1	24
25	20	1	RECEPTACLES: RM 109, 110		1.1		1.9			0.8			PROJECTOR & SCREEN: RM 103	20	1	26
27	20	1	EF-8: TRASH/RECYCLE LOADING 105	0.2				1.1			0.9		RECEPTACLES: RM 102, 104	20	1	28
29	20	1	RECEPTACLES VENDING MACHINE: RM 110.1		1.8				2.6	0.8			AV RACK: RM 102	20	1	30
31	20	1	RECEPTACLES: CORR 1C2, STAIR 1ST5, OUTDOOR		0.9		2.1				1.2		RECEPTACLES, COMPUTER: RM 102, 104	20	1	32
33	20	1	SPARE					1.1			1.1		RECEPTACLES: RM 102, 104, 104.1	20	1	34
35	20	1	RECEPTACLES, COMPUTER: RM 109		0.9				0.9				SPARE	20	1	36
37	20	1	RECEPTACLES, COMPUTER: RM 109.1		0.6		1.7				1.1		RECEPTACLES: RM 102, 102.1	20	1	38
39	20	1	RECEPTACLES: RM 109, 109.1		1.1			1.9		0.8			PROJECTOR & SCREEN: RM 102	20	1	40
41	20	1	SPARE						0.8	0.8			PROJECTOR & SCREEN: RM 103	20	1	42
SUB-TOTAL CONN. LOAD (KVA)				2.0	16.4	0.0	13	12	11	4.0	13.7	0.0				
CONNECTED LOAD THIS SECTION (KVA)				6.0	30.1	0.0										
CONNECTED LOAD SECTION 2 (KVA)				25.1	5.2	44.6										
TOTAL CONNECTED LOAD (KVA)				31.1	35.3	44.6										
DEMAND FACTOR				0.8	X	0.8							DEMAND LOAD (KVA)	81		
TOTAL DEMAND LOAD (KVA)				24.9	22.7	33.5							SPARE LOAD (KVA)	20.2		
													TOTAL DEMAND (KVA)	101		
													LINE CURRENT (AMPS)	281		

X= 1ST 10KVA @ 100%, + REMAINDER @ 50% (2005 N.E.C. 220-13)
PROVIDE FEED-THRU LUGS
PROVIDE 200% NEUTRAL AND ISOLATED GROUND BAR

PROJECT: CNJ - NEW ART &IMM BUILDING | PANEL VOLTAGE: 208 / 120V | AIC RATING: 10,000
PANEL: P1E1 (SECTION 2) | PHASE & WIRE: 3PH, 5W | MOUNTING: SURFACE
LOCATION: ELECTRICAL ROOM #1E1 | BUS/MAIN (AMPS): 400A MLO | NOTES: SEE NOTES BELOW

CKT NO.	OCD A	OCD P	DESCRIPTION	LOAD (KVA) MISC	REC	LTG	3 PH SEQUENCE A	B	C	LOAD (KVA) MISC	REC	LTG	DESCRIPTION	OCD A	P	CKT NO.
43	50	2	50A TWIST LOCK OUTLET: COURTYARD	3.6			4.8			1.2			CRAC-3 : TEL RM 1T1	20	2	44
45				3.6				4.8		1.2						46
47	20	1	LIGHTING COURTYARD			0.2			0.3	0.1			TF-1: ELEC RM 1E1	20	1	48
49	20	1	RECEPTACLE LCD FLAT PANEL: LOBBY 101		0.4		4.0			3.6			50A TWIST LOCK OUTLET : NORTH	50	2	50
51	50	2	50A TWIST LOCK OUTLET: SOUTH	3.6				7.2		3.6						52
53				3.6					4.2	0.6			ELECTRIC WATER COOLER: CORRIDOR 1C2	20	1	54
55	20	1	ELECTRONIC TRAP PRIMER: RM 108, 110.1	0.4			1.0				0.6		RECEPTACLE ON UNISTUD RM 113	20	1	56
57	20	1	RECEPTACLES: RM 110, 112		0.6			1.0			0.4		RECEPTACLE ON UNISTUD RM 113	20	1	58
59	20	1	RECEPTACLES: RM 112		0.6				1.2		0.6		RECEPTACLE ON UNISTUD RM 113	20	1	60
61	20	1	RECEPTACLES: RM 113		1.0		1.0						SPARE	20	1	62
63	20	1	RECEPTACLES: RM 113		1.0			1.0					SPARE	20	1	64
65	20	1	SPARE						0.0				SPARE	20	1	66
67	20	1	SPARE				0.0						SPARE	20	1	68
69	20	1	SPARE					0.0					SPARE	20	1	70
71	20	1	SPARE						0.0				SPARE	20	1	72
73	20	1	SPARE				0.0						SPARE	20	1	74
75	20	1	SPARE					0.0					SPARE	20	1	76
77	20	1	SPARE						0.0				SPARE	20	1	78
79	20	1	SPARE				0.0						SPARE	20	1	80
81	20	1	SPARE					0.0					SPARE	20	1	82
83	20	1	SPARE						0.0				SPARE	20	1	84
SUB-TOTAL CONN. LOAD (KVA)				14.8	3.6	0.2	11	14	6	10.3	1.6	0.0				
CONNECTED LOAD THIS SECTION (KVA)				25.1	5.2	0.2										
CONNECTED LOAD SECTION 3 (KVA)				0.0	0.0	44.4										
TOTAL CONNECTED LOAD (KVA)				25.1	5.2	44.6										
DEMAND FACTOR				0.8	X	0.8							DEMAND LOAD (KVA)	59		
TOTAL DEMAND LOAD (KVA)				20.1	5.2	33.5							SPARE LOAD (KVA)	14.7		
													TOTAL DEMAND (KVA)	73		
													LINE CURRENT (AMPS)	204		

X= 1ST 10KVA @ 100%, + REMAINDER @ 50% (2005 N.E.C. 220-13)
PROVIDE FEED-THRU LUGS
PROVIDE 200% NEUTRAL AND ISOLATED GROUND BAR

PROJECT: CNJ - NEW ART &IMM BUILDING | PANEL VOLTAGE: 208 / 120V | AIC RATING: 10,000
PANEL: P1E1 SECTION (3) | PHASE & WIRE: 3PH, 5W | MOUNTING: SURFACE
LOCATION: ELECTRICAL ROOM #1E1 | BUS/MAIN (AMPS): 400A MLO | NOTES: SEE NOTES BELOW

CKT NO.	OCD A	OCD P	DESCRIPTION	LOAD (KVA) MISC	REC	LTG	3 PH SEQUENCE A	B	C	LOAD (KVA) MISC	REC	LTG	DESCRIPTION	OCD A	P	CKT NO.
85	20	1	TRACK LIGHTS 113			1.4	2.8					1.4	TRACK LIGHTS 113	20	1	86
87	20	1	TRACK LIGHTS 113			1.4		2.8				1.4	TRACK LIGHTS 113	20	1	88
89	20	1	TRACK LIGHTS 113			1.4			2.8			1.4	TRACK LIGHTS 113	20	1	90
91	20	1	TRACK LIGHTS 113			1.4	2.8					1.4	TRACK LIGHTS 113	20	1	92
93	20	1	TRACK LIGHTS 113			1.4		3.0				1.6	TRACK LIGHTS 112	20	1	94
95	20	1	TRACK LIGHTS 113			1.4			3.0			1.6	TRACK LIGHTS 112	20	1	96
97	20	1	TRACK LIGHTS 112			1.6	3.2					1.6	TRACK LIGHTS 112	20	1	98
99	20	1	TRACK LIGHTS 112			1.6		3.2				1.6	TRACK LIGHTS 112	20	1	100
101	20	1	TRACK LIGHTS 1C2			1.7			3.1			1.4	TRACK LIGHTS 112	20	1	102
103	20	1	TRACK LIGHTS 1C2			1.7	3.1					1.4	TRACK LIGHTS 112	20	1	104
105	20	1	TRACK LIGHTS 1C2			1.7		3.3				1.6	TRACK LIGHTS 1C1	20	1	106
107	20	1	TRACK LIGHTS 1C2			1.7			3.3			1.6	TRACK LIGHTS 1C1	20	1	108
109	20	1	TRACK LIGHTS 1C1			1.6	2.8					1.2	TRACK LIGHTS 102	20	1	110
111	20	1	TRACK LIGHTS 1C1			1.6		2.8				1.2	TRACK LIGHTS 102	20	1	112
113	20	1	SPARE						1.2			1.2	TRACK LIGHTS 102	20	1	114
115	20	1	SPARE				1.2					1.2	TRACK LIGHTS 102	20	1	116
117	20	1	SPARE					0.0					SPARE	20	1	118
119	20	1	SPARE						0.0				SPARE	20	1	120
121	20	1	SPARE				0.0						SPARE	20	1	122
123	20	1	SPARE					0.0					SPARE	20	1	124
125	20	1	SPARE						0.0				SPARE	20	1	126
SUB-TOTAL CONN. LOAD (KVA)				0.0	0.0	21.6	15.9	15.1	13.4	0.0	0.0	22.8				
CONNECTED LOAD THIS SECTION (KVA)				0.0	0.0	44.4										
TOTAL CONNECTED LOAD (KVA)				0.0	0.0	44.4										
DEMAND FACTOR				0.8	X	0.8							DEMAND LOAD (KVA)	33		
TOTAL DEMAND LOAD (KVA)				0.0	0.0	33.3							SPARE LOAD (KVA)	8.33		
													TOTAL DEMAND (KVA)	42		
													LINE CURRENT (AMPS)	116		

X= 1ST 10KVA @ 100%, + REMAINDER @ 50% (2005 N.E.C. 220-13)
PROVIDE 200% NEUTRAL AND ISOLATED GROUND BAR

HBM1	PBM1	H1E1
P1E2	P1E2(2)	P1E2(3)
P1E1	P1E1(2)	P1E1(3)

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EYP/

KEY PLAN:

TRUE NORTH | JOB NORTH

NO.	REVISION/SUBMISSION	DATE
1	DCA REVIEW COMMENTS	02-28-08
1	ADDENDUM #3	4.1.2008

THE COLLEGE OF NEW JERSEY

New Art & IMM Building

Ewing, New Jersey

DATE: 2.20.2008
SCALE: NONE
EYP PROJECT NO. 1006041.01
DESIGNED BY: GJW
DRAWN BY: GJW
CHECKED BY: EB

ELECTRICAL PANEL SCHEDULES

E502

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