Branch Panel: PB

Location: Space 185
Supply From: T2
Mounting: Surface
Enclosure: Type 1

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

A.I.C. Rating:
Mains Type:
Mains Rating: 225 A
MCB Rating: 150 A

Notes:

NOTE	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	NOTE
	1	Receptacle	20 A	1	0.9			1.08			1	20 A	Receptacle	2	
	3	Receptacle	20 A	1		0.9			0.54		1	20 A	Receptacle	4	
	5	Lighting	20 A	1			0.084			0.73	1	20 A	Lighting	6	
	7	Lighting	20 A	1	0.672			0.5			1	20 A	EF-C-1	8	
	9	Continuous Load	20 A	1		0.25			0.25		1	20 A	Continuous Load	10	
	11	VAV-B-1, VAV-B-2	20 A	1			0.3			0.5	1	20 A	TCC	12	
1	13	Continuous Load	20 A	1	0.8			0			--	--	Provision	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	Provision	--	--	0			0			--	--	Provision	32	--
--	33	Provision	--	--		0			0		--	--	Provision	34	--
--	35	Provision	--	--			0			0	--	--	Provision	36	--
--	37	Provision	--	--	0			0			--	--	Provision	38	--
--	39	Provision	--	--		0			0		--	--	Provision	40	--
--	41	Provision	--	--			0			0	--	--	Provision	42	--
			Total Load:		3.952 kVA	1.940 kVA		1.614 kVA							
			Total Amps:		33.4 A	16.6 A		13.5 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Continuous Load	1800 VA	125.00%	2250 VA		
Lighting	1787 VA	125.00%	2234 VA	**Total Conn. Load:**	7507 VA
Misc. Motor Load	500 VA	100.00%	500 VA	**Total Conn. Current**	21 A
Power	0 VA	0.00%	0 VA	**Total Demand Load**	8404 VA
Receptacle	3420 VA	100.00%	3420 VA	**Power Factor %:**	95
				Total Demand Current:	25 A

NOTES:
1. PROVIDE LOCK-ON CLIP ON CIRCUIT BREAKER
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GENERAL NOTES:
A PROVIDE PANEL WITH 200% NEUTRAL

Branch Panel: P1

Location: Space 139
Supply From: T1
Mounting: Surface
Enclosure: Type 1

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

A.I.C. Rating:
Mains Type:
Mains Rating: 225 A
MCB Rating: 200 A

Notes:

NOTE	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	NOTE
--	1	Provision	--	--	0			0			--	--	Provision	2	--
--	3	Provision	--	--		0			0.5		1	20 A	Receptacle	4	
--	5	Provision	--	--			0			0	--	--	Provision	6	--
--	7	Provision	--	--	0			0			--	--	Provision	8	--
	9	Receptacle	20 A	1		1.08			0.18		1	20 A	Power	10	
	11	Receptacle	20 A	1			0.8			0.72	1	20 A	Receptacle	12	
	13	Receptacle	20 A	1	0.8			0.72			1	20 A	Receptacle	14	
	15	Receptacle	20 A	1		0.8			0.18		1	20 A	Receptacle	16	
	17	Receptacle	20 A	1			0.8			1.62	1	20 A	Receptacle	18	
	19	Receptacle	20 A	1	0.8			0.9			1	20 A	Receptacle	20	
	21	Receptacle	20 A	1		0.8			0.36		1	20 A	Receptacle	22	
	23	Receptacle	20 A	1			0.8			1.44	1	20 A	Receptacle	24	
	25	Power	20 A	1	0.18			1.44			1	20 A	Receptacle	26	
	27	Power	20 A	1		0.18			0.36		1	20 A	Receptacle	28	
	29	Power	20 A	1			0.18			1.44	1	20 A	Receptacle	30	
	31	Power	20 A	1	0.18			0.36			1	20 A	Receptacle	32	
	33	Receptacle	20 A	1		0.54			0.54		1	20 A	Receptacle	34	
--	35	Provision	--	--			0			0.18	1	20 A	Receptacle	36	
	37	Receptacle	20 A	1	0.18			0.18			1	20 A	Receptacle	38	
--	39	Provision	--	--		0			0		--	--	Provision	40	--
--	41	Provision	--	--			0			0	--	--	Provision	42	--
	43	Receptacle	20 A	1	0.18			0.8			1	20 A	Receptacle	44	
	45	Receptacle	20 A	1		0.72			1.2		1	20 A	Receptacle	46	
	47	Receptacle	20 A	1			1.2			0	1	20 A	Power	48	
	49	Receptacle	20 A	1	0.18			0.36			1	20 A	Receptacle	50	
	51	Receptacle	20 A	1		0.36			1.5		2	30 A	Receptacle	52	
	53	Receptacle	30 A	2			1.5			1.5				54	
	55				1.5			0.5			1	20 A	Power	56	
	57	Receptacle Room 175, 111, 134	20 A	1		0.54			0.5		1	20 A	Power	58	
	59	Spare	20 A	1			0			0	1	20 A	Spare	60	
	61	Spare	20 A	1	0			0			1	20 A	Spare	62	
	63	Spare	20 A	1		0			0		1	20 A	Spare	64	
	65	Spare	20 A	1			0			0	1	20 A	Spare	66	
	67	Spare	20 A	1	0			0			1	20 A	Spare	68	
	69	Room 173, 172, 165, 134	20 A	1		0.565			0.478		1	20 A	Lighting	70	
	71	Lighting	20 A	1			1.04			0.28	1	20 A	Lighting	72	
	73	Lighting	20 A	1	0.768			0			--	--	Provision	74	--
--	75	Provision	--	--		0			0		--	--	Provision	76	--
--	77	Provision	--	--			0			0	--	--	Provision	78	--
--	79	Provision	--	--	0			0			--	--	Provision	80	--
--	81	Provision	--	--		0			0		--	--	Provision	82	--
--	83	Provision	--	--			0			0	--	--	Provision	84	--
			Total Load:		10.028 kVA	11.383 kVA		13.500 kVA							
			Total Amps:		83.6 A	96.6 A		114.2 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	3138 VA	125.00%	3923 VA		
Power	1900 VA	100.00%	1900 VA	**Total Conn. Load:**	34918 VA
Receptacle	29880 VA	66.73%	19940 VA	**Total Conn. Current**	97 A
				Total Demand Load	25763 VA
				Power Factor %:	95
				Total Demand Current:	75 A

NOTES:
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GENERAL NOTES:
A PROVIDE PANEL WITH 200% NEUTRAL

Branch Panel: P2

Location: Space 22
Supply From: T1
Mounting: Surface
Enclosure: Type 1

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

A.I.C. Rating:
Mains Type:
Mains Rating: 225 A
MCB Rating: 200 A

Notes:

NOTE	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	NOTE
	1	Receptacle	20 A	1	0.36				0.36		1	20 A	Receptacle	2	
	3	Receptacle	20 A	1		0.36				0.36	1	20 A	Receptacle	4	
	5	Receptacle	20 A	1			0.36			0.36	1	20 A	Receptacle	6	
	7	Receptacle	20 A	1	0.36				0.36		1	20 A	Receptacle	8	
	9	Receptacle	20 A	1		0.36				1.26	1	20 A	Receptacle	10	
	11	Receptacle	20 A	1			0.36		0.36		1	20 A	Receptacle	12	
	13	Receptacle	20 A	1	0.9				0.54		1	20 A	Receptacle	14	
	15	Receptacle	20 A	1		0.72				0.9	1	20 A	Receptacle	16	
	17	Receptacle Room 20, 47, 21	20 A	1			0.72		0.72		1	20 A	Receptacle	18	
	19	Receptacle	20 A	1	0.72					0.72	1	20 A	Receptacle	20	
	21	Receptacle	20 A	1		0.36			0.36		1	20 A	Receptacle	22	
	23	Receptacle	20 A	1			0.36			0.36	1	20 A	Receptacle	24	
	25	Misc. Motor Load	20 A	1	0.7				0.175		1	20 A	Misc. Motor Load	26	
	27	Misc. Motor Load	20 A	1		0.7				0.175	1	20 A	Misc. Motor Load	28	
	29	Misc. Motor Load	20 A	1			0.175		0.175		1	20 A	Misc. Motor Load	30	
	31	Misc. Motor Load	20 A	1	0.7				0.9		1	20 A	Receptacle	32	
	33	Power	20 A	1		0.025				0.36	1	20 A	Receptacle	34	
	35	Receptacle	20 A	1			0.36			0.36	1	20 A	Receptacle	36	
	37	Receptacle	20 A	1	0.36				1.5		2	30 A	Receptacle	38	
	39	Power	20 A	1		0.5				1.5				40	
	41	Spare	20 A	1			0			0	1	20 A	Spare	42	
	43	DAC-1-1/ DCU-3-1	15 A	2	0.78				0.78		2	15 A	DAC-2-1/DCU-3-2	44	
	45					0.78				0.78				46	
	47	Spare	20 A	1			0			0	1	20 A	Spare	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	
	55	Spare	20 A	1	0				0		1	20 A	Spare	56	
	57	Spare	20 A	1		0				0	1	20 A	Spare	58	
	59	Spare	20 A	1			0			0	1	20 A	Spare	60	
	61	Spare	20 A	1	0				0		1	20 A	Spare	62	
	63	Spare	20 A	1		0				0	1	20 A	Spare	64	
	65	Spare	20 A	1			0			0	1	20 A	Spare	66	
	67	Spare	20 A	1	0				0		1	20 A	Spare	68	
	69	Spare	20 A	1		0				0	1	20 A	Spare	70	
	71	Lighting	20 A	1			0.35			0.798	1	20 A	Lighting	72	
	73	Lighting	20 A	1	0.729				0.864		1	20 A	Lighting	74	
--	75	Provision	--	--		0				0	--	--	Provision	76	--
--	77	Provision	--	--			0			0	--	--	Provision	78	--
--	79	Provision	--	--	0				0		--	--	Provision	80	--
--	81	Provision	--	--		0				0	--	--	Provision	82	--
--	83	Provision	--	--			0			0	--	--	Provision	84	--
			Total Load:		11.808 kVA	9.500 kVA		5.818 kVA							
			Total Amps:		103.1 A	83.9 A		48.5 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	2746 VA	125.00%	3433 VA		
Misc. Motor Load	2800 VA	100.00%	2800 VA	**Total Conn. Load:**	27131 VA
Power	3645 VA	100.00%	3645 VA	**Total Conn. Current**	75 A
Receptacle	17940 VA	77.87%	13970 VA	**Total Demand Load**	23848 VA
				Power Factor %:	95
				Total Demand Current:	70 A

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GENERAL NOTES:
A PROVIDE PANEL WITH 200% NEUTRAL

Branch Panel: MSB-M

Location: Space 185
Supply From:
Mounting: Surface
Enclosure: Type 1

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

A.I.C. Rating:
Mains Type:
Mains Rating: 1600 A
MCB Rating: 1600 A

Notes:

NOTE	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	NOTE
	1				21.78			3.952						2	
	3	T1	175 A	3		20.833			1.94		3	70 A	T2	4	
	5						19.22			1.611				6	
	7				9.4			7.47						8	
	9	AHU-B1	70 A	3		9.4			7.47		3	60 A	AHU-B2	10	
	11						9.4			7.47				12	
	13				2.1			0			--	--	Provision	14	--
	15	RF-B2	15 A	3		2.1			0		--	--	Provision	16	--
	17						2.1			0	--	--	Provision	18	--
	19				3.043			34.3						20	
	21	RF-B1	20 A	3		3.043			34.3		3	100 A	CU-B-1	22	
	23						3.043			34.3				24	
	25				0			0						26	
	27	Spare	200 A	3		0			0		3	200 A	Spare	28	
	29						0			0				30	
	31				1.66			0			--	--	Provision	32	--
	33	HX-B1	20 A	3		1.66			0		--	--	Provision	34	--
	35						1.66			0	--	--	Provision	36	--
	37				4.1			50.3						38	
	39	CU-B-2	25 A	3		4.1			50.3		3	225 A	CWP-B2	40	
	41						4.1			50.3				42	
	43				0.83			0			--	--	Provision	44	--
	45	EF-B-1	15 A	3		0.83			0		--	--	Provision	46	--
	47						0.83			0	--	--	Provision	48	--
--	49	Provision	--	--	0			0			--	--	Provision	50	--
--	51	Provision	--	--		0			0		--	--	Provision	52	--
--	53	Provision	--	--			0			0	--	--	Provision	54	--
			Total Load:		138.935 kVA		135.977 kVA		134.034 kVA						
			Total Amps:		502.7 A		492.0 A		483.9 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Continuous Load	1800 VA	125.00%	2250 VA		
Lighting	7671 VA	125.00%	9589 VA	**Total Conn. Load:**	409166 VA
Misc. Motor Load	177220 VA	100.00%	177220 VA	**Total Conn. Current**	492 A
Other	165690 VA	100.00%	165690 VA	**Total Demand Load**	390914 VA
Power	5545 VA	100.00%	5545 VA	**Power Factor %:**	95
Receptacle	51240 VA	59.76%	30620 VA	**Total Demand Current:**	495 A

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GENERAL NOTES:
A PROVIDE MCB WITH BUILT-IN GROUND FAULT PROTECTION
B PROVIDE PANEL WITH BUILT-IN TVSS

Branch Panel: EM

Location: Space 22
Supply From:
Mounting: Surface
Enclosure: Type 1

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

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

Notes:

NOTE	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	NOTE
	1	Receptacle	20 A	1	1			1			1	20 A	Receptacle	2	
	3	Receptacle	20 A	1		1			1		1	20 A	Receptacle	4	
	5	Receptacle	20 A	1			1			1	1	20 A	Receptacle	6	
	7	Receptacle	20 A	1	1			1			1	20 A	Receptacle Pixus Machine	8	
	9	Receptacle	20 A	1		0.36			1.25		1	20 A	Fire Smoke Dampers	10	
	11	Fire Smoke Dampers	20 A	1			1.2			1.5	1	20 A	Fire Smoke Dampers	12	
	13	EF-2-1	20 A	1	0.44			0.44			1	20 A	EF-2-2	14	
	15	Fire Smoke Dampers	20 A	1		1.8			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	
			Total Load:		4.880 kVA	5.410 kVA		4.700 kVA							
			Total Amps:		40.9 A	45.3 A		39.2 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Continuous Load	5750 VA	125.00%	7188 VA		
Misc. Motor Load	880 VA	100.00%	880 VA	**Total Conn. Load:**	14990 VA
Receptacle	8360 VA	100.00%	8360 VA	**Total Conn. Current**	42 A
				Total Demand Load	16428 VA
				Power Factor %:	95
				Total Demand Current:	48 A

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GENERAL NOTES:

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMPS	WATTS / VOLTS	NOTES
A	COLUMBIA #LJT-24-35-ML-G-FSA12125-E-U 2X4 RECESSED LED GRID TROFFER, 4772 LUMENS, .125" THICK ACRYLIC LENS, BAKED WHITE ENAMEL FINISH, FIXED OUTPUT DRIVER EQUALS BY WILLIAMS, DAY-BRITE	LED	45 / 120	
B	COLUMBIA #LTGR-24-35-ML-G-C-E-U 2X4 RECESSED LED GRID TROFFER, 4901 LUMENS, CURVED ACRYLIC PRISMATIC LENS, BAKED WHITE ENAMEL FINISH, FIXED OUTPUT DRIVER EQUALS BY WILLIAMS, DAY-BRITE	LED	40 / 120	
B1	COLUMBIA #LTGR-22-35-ML-G-C-E-U SIMILAR TO TYPE 'B' EXCEPT FIXTURE IS 2X2, 3186 LUMENS EQUALS BY WILLIAMS, DAY-BRITE	LED	29 / 120	
C	COLUMBIA #LRO-8-35-ML-E-U 8'-0" LED STRIP LIGHT WITH LENS, 100% ACRYLIC LENS, BAKED WHITE ENAMEL FINISH, FIXED OUT DRIVER, 10,000 LUMENS EQUALS BY WILLIAMS, DAY-BRITE	LED	106 / 120	
C1	COLUMBIA #LRO-4-35-ML-E-U SIMILAR TO TYPE 'C' EXCEPT FIXTURE IS 4'-0" LONG, 5000 LUMENS EQUALS BY WILLIAMS, DAY-BRITE	LED	53 / 120	
D	ATLANTIC LTG #LED6-DLM20-1-8LEDPR-CL 6" APERATURE RECESSED DOWNLIGHT, PRISMATIC LENS, HEAT SINK, SPUN ALUMINUM REFLECTOR, WHITE PAINTED TRIM FLANGE, DIMMABLE EQUALS BY WILLIAMS, LIGHTOLIER	LED	19.9 / 120	
E	WILLIAMS #WMA-4-L65/835-AF-DVX-UNV-FSA12125-R-U 4' WALL MOUNTED LED FIXTURE, 6500 LUMENS, UPDOWN LIGHT, BAKED WHITE ENAMEL FINISH, .125" THICK FROSTED ACRYLIC SHIELDING, FIXED OUTPUT DRIVER EQUALS BY ECLIPSE, CGF	LED	81 / 120	
F	HUBBELL #LNC2-12L-1-4K-3-1-BBU LED WALL PACK, 2662 LUMENS, DIE-CAST ALUMINUM HOUSING, BRONZE FINISH, TYPE 3 DISTRIBUTION, WET LOCATION LABEL, BATTERY BACK-UP EQUALS BY GARDCO, McCRAW-EDISON	LED	28 / 120	
G	HUBBELL #WWGG-150-120V WALL MOUNTED VAPORTIGHT FIXTURE, CAST ALUMINUM WITH PLATINUM SILVER FINISH, GLASS GLOBE WITH CAST ALUMINUM GUARD, 120V	LED	18 / 120	
X1	EXITRONIX #VEX-U-BP-LB-WH-120V LED EXIT SIGN, RED LETTERS, WHITE FLAME RETARDENT THERMOPLASTIC HOUSING, CHEVRON KNOCKOUTS, SINGLE FACE	LED	2 / 120	
X2	EXITRONIX #VEX-U/2-BP-LB-WH-120V SIMILAR TO TYPE 'X1' EXCEPT FIXTURE IS DOUBLE FACE	LED	2 / 120	

Revisions:	Date

CONSULTANTS:

SPECIFICATIONS — RHS
STREET ADDRESS
CITY, STATE ZIP
Phone: 913-213-7082
Fax: n.a.

LANDSCAPE ACHITECT — M. Cole Welch Landscape Architecture
6639 Red Oak Drive
Shawnee, KS 66217
Phone: 913-530-0306
Fax: n.a.

ESTIMATION — CMR
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Fax: 816-472-1822
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Kansas City, MO 64108
Phone: 816-221-1411
Fax: 816-221-1429
www.lankfordfendler.com

Drawing Title
ELECTRICAL SCHEDULES

Contracting Officers' Technical Representative
Jeff Hernbloom

Project Title
MRI and SPECIALTY CARE ADDITION

Location
VAMC - KANSAS CITY
4801 LINWOOD BOULEVARD
KANSAS CITY MO 64128

Date: **Issued for Bid** **May 26, 2017**
Checked: **MAW**
Drawn: **SMP**

Project Number: ***589-CA3-366***
Building Number: ***BLDG 1 & BLDG 15***
Drawing Number: **EG101**
Dwg. **103** of **113**

Office of Construction and Facilities Management
Department of Veterans Affairs

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