PANELBOARD: SD-A

LOCATION: MECH/ELECTRICAL 221
MOUNTING: NEMA 2
MAIN DEVICE: 800 A MCB
BUS AMPS: 800 AMPS
VOLTAGE: 120/208V, 3PH, 4W
A.I.C. RATING:
SPECIAL:

LOAD DESCRIPTION	CB	P	CCT#	A [A]		B [A]		C [A]		CCT#	P	CB	LOAD DESCRIPTION
			SD-A-1	3	18					SD-A-2			
PANEL LE	60 A	3	SD-A-3			8	13			SD-A-4	3	60 A	PANEL LI
			SD-A-5					8	9	SD-A-6			
			SD-A-7	228	130					SD-A-8			
PANEL M	400 A	3	SD-A-9			210	130			SD-A-10	3	200 A	PANEL P1
			SD-A-11					177	134	SD-A-12			
			SD-A-13	166	124					SD-A-14			
PANEL P2	200 A	3	SD-A-15			97	99			SD-A-16	3	200 A	PANEL PP
			SD-A-17					130	84	SD-A-18			
			SD-A-19							SD-A-20			
			SD-A-21							SD-A-22			
			SD-A-23							SD-A-24			
			SD-A-25							SD-A-26			
			SD-A-27							SD-A-28			
			SD-A-29							SD-A-30			
			SD-A-31							SD-A-32			
			SD-A-33							SD-A-34			
			SD-A-35							SD-A-36			
SPARE	15 A	1	SD-A-37	0	0					SD-A-38	1	20 A	SPARE
SPARE	15 A	1	SD-A-39			0	0			SD-A-40	1	20 A	SPARE
SPARE	15 A	1	SD-A-41					0	0	SD-A-42	1	20 A	SPARE
			TOTAL AMPS:	652 A		544 A		534 A					
			TOTAL LOAD:	78 kVA		65 kVA		64 kVA					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
HVAC	4683 VA	100.00%	4683 VA		
RCPT	39880 VA	50.00%	19940 VA	**CONNECTED LOAD:**	207330 VA
LITES	1333 VA	100.00%	1333 VA	**ESTIMATED DEMAND:**	170028 VA
MTR	21461 VA	75.00%	16096 VA	**CONNECTED CURRENT:**	575 A
SPEC	14908 VA	103.49%	15429 VA	**EST. DEMAND CURRENT:**	472 A
KTCH	21868 VA	100.00%	21868 VA		
HEAT	64699 VA	78.86%	51024 VA		
PKG-RCPT	24388 VA	100.00%	24388 VA		
EVSE - 6KW PER STALL	12480 VA	100.00%	12480 VA		
LIGHT	5510 VA	100.00%	5510 VA		

NOTES:

PANELBOARD: SD-B

LOCATION: MECH/ELECTRICAL 221
MOUNTING: NEMA 2
MAIN DEVICE: 225 A MCB
BUS AMPS: 225 AMPS
VOLTAGE: 347/600V, 3PH, 4W
A.I.C. RATING:
SPECIAL:

LOAD DESCRIPTION	CB	P	CCT#	A [A]		B [A]		C [A]		CCT#	P	CB	LOAD DESCRIPTION
			SD-B-1	114	26					SD-B-2			
TR-EM	150 A	3	SD-B-3			101	26			SD-B-4	3	35 A	WATER HEATER DWH-1
			SD-B-5					112	26	SD-B-6			
			SD-B-7	26	9					SD-B-8			
WATER HEATER DWH-2	35 A	3	SD-B-9			26	9			SD-B-10	3	20 A	PUMP P-1A
			SD-B-11					26	9	SD-B-12			
			SD-B-13	9						SD-B-14			
PUMP P-1B	20 A	3	SD-B-15			9				SD-B-16			
			SD-B-17					9		SD-B-18			
			SD-B-19							SD-B-20			
			SD-B-21							SD-B-22			
			SD-B-23							SD-B-24			
			SD-B-25							SD-B-26			
			SD-B-27							SD-B-28			
			SD-B-29							SD-B-30			
			SD-B-31							SD-B-32			
			SD-B-33							SD-B-34			
			SD-B-35							SD-B-36			
SPARE	15 A	1	SD-B-37	0	0					SD-B-38	1	20 A	SPARE
SPARE	15 A	1	SD-B-39			0	0			SD-B-40	1	20 A	SPARE
SPARE	15 A	1	SD-B-41					0	0	SD-B-42	1	20 A	SPARE
			TOTAL AMPS:	184 A		171 A		182 A					
			TOTAL LOAD:	63 kVA		59 kVA		63 kVA					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
HVAC	4683 VA	100.00%	4683 VA		
RCPT	5592 VA	50.00%	2796 VA	**CONNECTED LOAD:**	185402 VA
LITES	1445 VA	100.00%	1445 VA	**ESTIMATED DEMAND:**	142504 VA
MTR	36460 VA	75.00%	27345 VA	**CONNECTED CURRENT:**	178 A
SPEC	4605 VA	105.03%	4837 VA	**EST. DEMAND CURRENT:**	137 A
HEAT	57846 VA	79.32%	45885 VA		
AC	19814 VA	100.00%	19814 VA		
HOT WATER	53998 VA	63.89%	34499 VA		
LIGHT	2037 VA	100.00%	2037 VA		

NOTES:

PANELBOARD: LI

LOCATION:
MOUNTING: SURFACE NEMA1
MAIN DEVICE: 60 A MLO
BUS AMPS: 60 AMPS
VOLTAGE: 120/208V, 3PH, 4W
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL:

LOAD DESCRIPTION	CB	P	CCT#	A [A]		B [A]		C [A]		CCT#	P	CB	LOAD DESCRIPTION
LIGHT MECHANICAL/ELECTRIC...	15 A	1	LI-1	4	0					LI-2	1	15 A	LITES STAIR 2 2
LIGHT OFFICE/STUDY 4.7C	15 A	1	LI-3			1	2			LI-4	1	15 A	LIGHT
LIGHT SLEEP QTRS 4.4	15 A	1	LI-5					1	2	LI-6	1	15 A	LITES DAY ROOM 4.1
LITES FITNESS AREA 4.15A	15 A	1	LI-7	2	6					LI-8	1	15 A	LIGHTS APARATUS BAYS 2.1
LIGHTS APARATUS BAYS 2.1	15 A	1	LI-9			6	1			LI-10	1	15 A	LITES STAIR 1 1
LIGHT ELEVATOR 55	15 A	1	LI-11					0	3	LI-12	1	15 A	LIGHT PPE STORAGE 3.4
LIGHT MECH 25	15 A	1	LI-13	2	3					LI-14	1	15 A	LIGHT CORRIDOR 33
LIGHT CAPT & LEUT OFFICE 4.7D	15 A	1	LI-15			1	2			LI-16	1	15 A	LIGHT UTR 1.11
LIGHT TRAINING CLASSROOM 1.6	15 A	1	LI-17					3		LI-18			
			LI-19							LI-20			
			LI-21							LI-22			
			LI-23							LI-24			
			LI-25							LI-26			
			LI-27							LI-28			
			LI-29							LI-30			
			LI-31							LI-32			
			LI-33							LI-34			
SPARE	15 A	1	LI-35					0	0	LI-36	1	20 A	SPARE
SPARE	15 A	1	LI-37	0	0					LI-38	1	20 A	SPARE
SPARE	15 A	1	LI-39			0	0			LI-40	1	20 A	SPARE
SPARE	15 A	1	LI-41					0	0	LI-42	1	20 A	SPARE
			TOTAL AMPS:	18 A		13 A		9 A					
			TOTAL LOAD:	2 kVA		1 kVA		1 kVA					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
LITES	1333 VA	100.00%	1333 VA		
LIGHT	3320 VA	100.00%	3320 VA	**CONNECTED LOAD:**	4648 VA
				ESTIMATED DEMAND:	4648 VA
				CONNECTED CURRENT:	13 A
				EST. DEMAND CURRENT:	13 A

NOTES:

PANELBOARD: M

LOCATION:
MOUNTING: SURFACE NEMA1
MAIN DEVICE: 400 A MLO
BUS AMPS: 400 AMPS
VOLTAGE: 120/208V, 3PH, 4W
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL:

LOAD DESCRIPTION	CB	P	CCT#	A		B		C		CCT#	P	CB	LOAD DESCRIPTION
SOFFIT VENTILATION FAN F-6	15 A	1	M-1	2	5					M-2	2	15 A	DUCT HEATER DH-1
CEILING FAN CF-1	15 A	1	M-3			1	5			M-4			
CEILING FAN CF-2	15 A	1	M-5					1	7	M-6	2	15 A	DUCT HEATER DH-4
CEILING FAN CF-3	15 A	1	M-7	1	7					M-8			
CEILING FAN CF-4	15 A	1	M-9			1	10			M-10	2	15 A	DUCT HEATER DH-5
CEILING FAN CF-5	15 A	1	M-11					1	10	M-12			
BOTTLE FILLER BF-1	15 A	1	M-13	0	12					M-14	2	20 A	DUCT HEATER DH-8
			M-15				12			M-16			
DUCT HEATER 11	20 A	2	M-17					14	12	M-18	2	20 A	DUCT HEATER DH-9
			M-19	14	12					M-20			
EXHAUST FAN EF-3	20 A	2	M-21			9	12			M-22	2	20 A	DUCT HEATER DH-10
			M-23					9	12	M-24			
ERV-2	20 A	3	M-25	13	29					M-26	2	40 A	DUCT HEATER DH-11
			M-27			13	29			M-28			
			M-29					13	1	M-30	1	15 A	SKYLIGHT VENT FAN F-1
HEAT PUMP TRAINING CLASSROOM HP-1	60 A	2	M-31	37	1					M-32	1	15 A	SKYLIGHT VENT FAN F-2
			M-33			37	1			M-34	1	15 A	SKYLIGHT VENT FAN F-3
HEAT PUMP LOBBY/FLOOR WATCH HP-2	15 A	2	M-35					6	1	M-36	1	15 A	SKYLIGHT VENT FAN F-4
			M-37	6	1					M-38	1	15 A	SKYLIGHT VENT FAN F-5
HEAT PUMP INVEST OFFICE HP-5	15 A	2	M-39			5	5			M-40	2	15 A	HEAT PUMP SLEEP QUARTERS HP-9
			M-41					5	5	M-42			
HEAT PUMP FITNESS HP-6A	15 A	2	M-43	10	5					M-44	2	15 A	HEAT PUMP SLEEP QUARTERS HP-10
			M-45			10	5			M-46			
HEAT PUMP FITNESS HP-6B	30 A	2	M-47					19	5	M-48	2	15 A	HEAT PUMP SLEEP QUARTERS HP-11
			M-49	19	5					M-50			
HEAT PUMP APPARATUS BAYS HP-13	80 A	3	M-51			63	9			M-52	2	15 A	HEAT PUMP OFFICE/STUDY HP-12
			M-53					63	9	M-54			
			M-55	63	4					M-56	1	15 A	DWH PUMP P-5
			M-57							M-58			
			M-59							M-60			
			M-61							M-62			
			M-63							M-64			
			M-65							M-66			
			M-67							M-68			
			M-69							M-70			
			M-71							M-72			
			M-73							M-74			
			M-75							M-76			
SPARE	15 A	1	M-77					0	0	M-78	1	20 A	SPARE
SPARE	15 A	1	M-79	0	0					M-80	1	20 A	SPARE
SPARE	15 A	1	M-81			0	0			M-82	1	20 A	SPARE
SPARE	15 A	1	M-83					0	0	M-84	1	20 A	SPARE
			TOTAL AMPS:	228 A		210 A		177 A					
			TOTAL LOAD:	27 kVA		25 kVA		21 kVA					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
HVAC	4683 VA	100.00%	4683 VA		
MTR	3416 VA	75.00%	2562 VA	**CONNECTED LOAD:**	72789 VA
SPEC	0 VA	0.00%	0 VA	**ESTIMATED DEMAND:**	58262 VA
HEAT	64699 VA	78.86%	51024 VA	**CONNECTED CURRENT:**	202 A
				EST. DEMAND CURRENT:	162 A

NOTES:

PANELBOARD: M100

LOCATION:
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 200 A MLO
BUS AMPS: 225 AMPS
VOLTAGE: 347/600V, 3PH, 4W
A.I.C. RATING: 14,000 AMPS SYMMETRICAL
SPECIAL:

LOAD DESCRIPTION	CB	P	CCT#	A [A]		B [A]		C [A]		CCT#	P	CB	LOAD DESCRIPTION
WEST VEST FORCE FLOW...	20 A	1	M100-1	14	9					M100-2	1	15 A	MECH/ELEC 221 UNIT HEATER
WASHROOM 104 BB HEATER	15 A	1	M100-3			2	29			M100-4	1	40 A	HOSE WASH UNIT HEATER
EAST VEST FF HEATER	20 A	1	M100-5					14	14	M100-6	1	20 A	NORTH VEST FF HEATER
PPE STORAGE 125 UNIT HEATER	20 A	1	M100-7	14	6					M100-8	1	20 A	SCBA 124 UNIT HEATER
SHOWER 217 RADIANT PANEL	15 A	1	M100-9			2	2			M100-10	1	15 A	SHOWER 218 RADIANT PANEL
SHOWER 219 RADIANT PANEL	15 A	1	M100-11					2	4	M100-12	1	15 A	HEAT Room 100, 104, 103
STORAGE 102B BB HEATER	15 A	1	M100-13	1	1					M100-14	1	15 A	STORAGE 102A BB HEATER
STORAGE 107 UNIT HEATER	15 A	1	M100-15			6	7			M100-16	1	15 A	HEAT HAZMAT EQUIP STOR 115
SPRINKLER ROOM UNIT HEATER	15 A	1	M100-17					6	4	M100-18	1	15 A	UTR 103 RADIANT PANEL
STAIR STR2 BB HEATER	15 A	1	M100-19	6	6					M100-20	1	15 A	STAIR STR2 MAIN FLR BB...
			M100-21				17			M100-22			
			M100-23						17	M100-24	3	30 A	BOTTLE FILLER COMPRESSOR
			M100-25		17					M100-26			
			M100-27							M100-28			
			M100-29							M100-30			
			M100-31							M100-32			
			M100-33							M100-34			
SPARE	15 A	1	M100-35					0	0	M100-36	1	20 A	SPARE
SPARE	15 A	1	M100-37	0	0					M100-38	1	20 A	SPARE
SPARE	15 A	1	M100-39			0	0			M100-40	1	20 A	SPARE
SPARE	15 A	1	M100-41					0	0	M100-42	1	20 A	SPARE
			TOTAL AMPS:	72 A		63 A		60 A					
			TOTAL LOAD:	25 kVA		22 kVA		21 kVA					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
MTR	17666 VA	75.00%	13250 VA		
HEAT	52500 VA	79.76%	41875 VA	**CONNECTED LOAD:**	67471 VA
				ESTIMATED DEMAND:	53074 VA
				CONNECTED CURRENT:	65 A
				EST. DEMAND CURRENT:	51 A

NOTES:

PANELBOARD: LE

LOCATION:
MOUNTING: SURFACE NEMA1
MAIN DEVICE: 60 A MLO
BUS AMPS: 60 AMPS
VOLTAGE: 120/208V, 3PH, 4W
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL:

LOAD DESCRIPTION	CB	P	CCT#	A [A]		B [A]		C [A]		CCT#	P	CB	LOAD DESCRIPTION
BBQ PATIO LIGHTING	15 A	1	LE-1	1	2					LE-2	1	15 A	BUILDING AND SOFFIT LIGHTING
EXTERIOR POLE LIGHTS	15 A	2	LE-3			9				LE-4			
			LE-5					9		LE-6			
			LE-7							LE-8			
			LE-9							LE-10			
			LE-11							LE-12			
			LE-13							LE-14			
			LE-15							LE-16			
			LE-17							LE-18			
			LE-19							LE-20			
			LE-21							LE-22			
			LE-23							LE-24			
			LE-25							LE-26			
			LE-27							LE-28			
			LE-29							LE-30			
			LE-31							LE-32			
			LE-33							LE-34			
SPARE	15 A	1	LE-35					0	0	LE-36	1	20 A	SPARE
SPARE	15 A	1	LE-37	0	0					LE-38	1	20 A	SPARE
SPARE	15 A	1	LE-39			0	0			LE-40	1	20 A	SPARE
SPARE	15 A	1	LE-41					0	0	LE-42	1	20 A	SPARE
			TOTAL AMPS:	3 A		8 A		8 A					
			TOTAL LOAD:	0 kVA		1 kVA		1 kVA					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
LIGHT	2189 VA	100.00%	2189 VA		
				CONNECTED LOAD:	2189 VA
				ESTIMATED DEMAND:	2189 VA
				CONNECTED CURRENT:	6 A
				EST. DEMAND CURRENT:	6 A

NOTES:

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Certificate of Authorization
Epp Siepman Engineering Inc.
No. 4035

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PROVINCE OF MANITOBA
A.O. SOWUNMI
Member
43015
2023-02-03
REGISTERED PROFESSIONAL ENGINEER

Project
WFPS STATION 9

1083 AUTUMNWOOD DRIVE

Sheet Title
ELECTRICAL SCHEDULES

Project No. 22028

Sheet E6.4