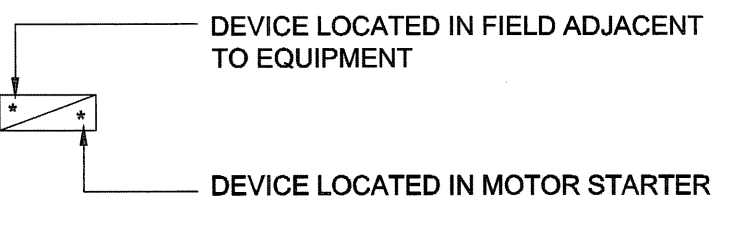


UMA FILE NAME: F953-001-01_01-E-8003_RX.dwg
 DATE: 2007.02.21
 DESCRIPTION: Motor Schedule and MCC layout
 PROJECT No: F953-001-01
 ADDRESS: 999 Sargent St, Winnipeg, Manitoba
 PLOT: 07/08/22 2:31:24 PM
 ADDRESS: 999 Sargent St, Winnipeg, Manitoba

MECHANICAL AND EQUIPMENT SCHEDULE																		
MOTOR				STARTER					POWER		POWER		DETAIL DWG. WIRE DIAGRAM	REMARKS				
EQUIP. NO.	DESCRIPTION	EQUIP. LOAD	VOLT/Ø	SIZE	TYPE	MAN.	MAG.	S/S	PL	HOA	OVERCURRENT DEVICE	LOCATION			PANEL	CCT	FEEDER	CAPACITOR SIZE
F-1	EXHAUST FAN	50 W	120/1					*	*		15A, 1P	ROOF	CJ		2 #12 AWG, 21C		1P-15A CSA 1	CONTROLLED BY METASYS
F-2	EXHAUST FAN	1/8 HP	120/1					*	*		15A, 1P	PENTHSE.	CJ	04	2 #12 AWG, 21C		1P-15A CSA 1	CONTROLLED BY METASYS
F-3	EXHAUST FAN	325 W	120/1					*	*		15A, 1P	MAIN FLR.	CB	12	2 #12 AWG, 21C		1P-15A CSA 1	THERMOSTAT CONTROLLED
F-4	EXHAUST FAN	1 HP	120/1					*	*		15A, 1P	2ND FLR.	CG	32	2 #12 AWG, 21C		1P-15A CSA 1	CONTROLLED BY METASYS
F-5	EXHAUST FAN	350 W	120/1					*	*		15A, 1P	CRAWL SP.	CH	07	2 #12 AWG, 21C		1P-15A CSA 1	CONTROLLED BY METASYS
F-6	EXHAUST FAN	830 W	600/3		FVNR			*	*	*	7 HMCP	PENTHSE.	MCC400P		3 #12 AWG, 21C		3P-30A CSA 1	CONTROLLED BY METASYS
F-7	EXHAUST FAN	100 W	120/1					*	*		15A, 1P	PENTHSE.	CJ	21	2 #12 AWG, 21C		1P-15A CSA 1	CONTROLLED BY METASYS
AH-4	AIR HANDLING UNIT	18.7 kW	600/3					*	*	*	30A,3P	ROOF	MCC400P		3 #10 AWG, 21C		3P-30A CSA 3R	PACKAGE UNIT
AH-6	AIR HANDLING UNIT	5 HP	600/3	1	FVNR			*	*	*	7 HMCP	N. MECH.	MCC200N		3 #12 AWG, 21C		3P-30A CSA 1	CONTROLLED BY METASYS
AH-7	AIR HANDLING UNIT	5 HP	600/3	1	FVNR			*	*	*	7 HMCP	N. MECH.	MCC200N		3 #12 AWG, 21C		3P-30A CSA 1	CONTROLLED BY METASYS
AH-8	AIR HANDLING UNIT	3 HP	600/3	1	FVNR			*	*	*	7 HMCP	N. MECH.	MCC200N		3 #12 AWG, 21C		3P-30A CSA 1	CONTROLLED BY METASYS
AH-9	AIR HANDLING UNIT	16 kW	600/3					*	*	*	30A,3P	ROOF	MCC400P		3 #10 AWG, 21C		3P-30A CSA 3R	PACKAGE UNIT
AH-10	AIR HANDLING UNIT	23 kW	600/3					*	*	*	30A,3P	ROOF	MCC400L		3 #10 AWG, 21C		3P-30A CSA 3R	PACKAGE UNIT
AH-11	AIR HANDLING UNIT	28 kW	600/3					*	*	*	35A,3P	ROOF	MCC400P		3 #8 AWG, 21C		3P-60A CSA 3R	PACKAGE UNIT
AH-12	AIR HANDLING UNIT	110 kW	600/3					*	*	*	125A,3P	ROOF	MCC400P		3 #1 AWG, 35C		3P-200A CSA 3R	PACKAGE UNIT
CU-6	CONDENSING UNIT	9.4 kW	600/3					*	*	*	15A, 3P	ROOF	MCC400P		3 #12 AWG, 21C		3P-30A CSA 3R	PACKAGE UNIT
CU-7	CONDENSING UNIT	9.4 kW	600/3					*	*	*	15A, 3P	ROOF	MCC400P		3 #12 AWG, 21C		3P-30A CSA 3R	PACKAGE UNIT
CU-8	CONDENSING UNIT	7 kW	600/3					*	*	*	15A, 3P	ROOF	MCC400P		3 #12 AWG, 21C		3P-30A CSA 3R	PACKAGE UNIT
EP-1	ELEVATOR	20 HP	600/3					*	*	*	50A, 3P	2ND FLR.	MCC400P		3 #10 AWG, 21C		3P-30A CSA 1	PACKAGE UNIT, DIRECT CONNECTION
EL-1	ELEVATOR LIGHTS	300W	120/1					*	*	*	15A, 1P	PENTHSE.	CJ	16	2 #12 AWG, 21C		1P-15A CSA 1	
UH-1	ELECTRIC UNIT HEATER	5 kW	600/3					*	*	*	15A, 3P	CRAWL SP.	MCC400P		3 #12 AWG, 21C		3P-15A CSA 1	REMOTE THERMOSTAT CONTROLLED
UH-2	ELECTRIC UNIT HEATER	5 kW	600/3					*	*	*	15A, 3P	CRAWL SP.	MCC400P		3 #12 AWG, 21C		3P-15A CSA 1	REMOTE THERMOSTAT CONTROLLED
UH-3	ELECTRIC UNIT HEATER	5 kW	600/3					*	*	*	15A, 3P	CRAWL SP.	MCC400P		3 #12 AWG, 21C		3P-15A CSA 1	REMOTE THERMOSTAT CONTROLLED
UH-4	ELECTRIC UNIT HEATER	5 kW	600/3					*	*	*	15A, 3P	SERV. SP.	EXIST.		3 #12 AWG, 21C		3P-15A CSA 1	REMOTE THERMOSTAT CONTROLLED
UH-5	ELECTRIC UNIT HEATER	5 kW	600/3					*	*	*	15A, 3P	SERV. SP.	EXIST.		3 #12 AWG, 21C		3P-15A CSA 1	REMOTE THERMOSTAT CONTROLLED
B-1	BOILER	FRAC.	120/1					*	*	*	15A, 1P	PENTHSE.	CJ	13	2 #12 AWG, 21C		1P-15A CSA 1	CONTROLLED BY METASYS
B-2	BOILER	FRAC.	120/1					*	*	*	15A, 1P	PENTHSE.	CJ	15	2 #12 AWG, 21C		1P-15A CSA 1	CONTROLLED BY METASYS
B-3	BOILER	FRAC.	120/1					*	*	*	15A, 1P	N. MECH.	LP-6A		2 #12 AWG, 21C		1P-15A CSA 1	CONTROLLED BY METASYS
B-4	BOILER	FRAC.	120/1					*	*	*	15A, 1P	N. MECH.	LP-6A		2 #12 AWG, 21C		1P-15A CSA 1	CONTROLLED BY METASYS
B-5	BOILER	FRAC.	120/1					*	*	*	15A, 1P	N. MECH.	LP-6A		2 #12 AWG, 21C		1P-15A CSA 1	CONTROLLED BY METASYS
B-6	BOILER	FRAC.	120/1					*	*	*	15A, 1P	N. MECH.	LP-6A		2 #12 AWG, 21C		1P-15A CSA 1	CONTROLLED BY METASYS
P-1	CIRCULATION PUMP	3 HP	600/3	1	FVNR			*	*	*	7 HMCP	PENTHSE.	MCC400P		3 #12 AWG, 21C		3P-30A CSA 1	
P-2	CIRCULATION PUMP	3 HP	600/3	1	FVNR			*	*	*	7 HMCP	PENTHSE.	MCC400P		3 #12 AWG, 21C		3P-30A CSA 1	
P-3	AHU CIRCULATION PUMP	3 HP	600/3	1	FVNR			*	*	*	7 HMCP	N. MECH.	MCC200N		3 #12 AWG, 21C		3P-30A CSA 1	
P-4	AHU CIRCULATION PUMP	3 HP	600/3	1	FVNR			*	*	*	7 HMCP	N. MECH.	MCC200N		3 #12 AWG, 21C		3P-30A CSA 1	
PB-1	BOILER CIRCULATION PUMP	150 W	120/1					*	*	*	15A, 1P	PENTHSE.	CJ	17	2 #12 AWG, 21C		1P-15A CSA 1	
PB-2	BOILER CIRCULATION PUMP	150 W	120/1					*	*	*	15A, 1P	PENTHSE.	CJ	19	2 #12 AWG, 21C		1P-15A CSA 1	
PB-3	BOILER CIRCULATION PUMP	150 W	120/1					*	*	*	15A, 1P	N. MECH.	LP-6A		2 #12 AWG, 21C		1P-15A CSA 1	
PB-4	BOILER CIRCULATION PUMP	150 W	120/1					*	*	*	15A, 1P	N. MECH.	LP-6A		2 #12 AWG, 21C		1P-15A CSA 1	
PB-5	BOILER CIRCULATION PUMP	150 W	120/1					*	*	*	15A, 1P	N. MECH.	LP-6A		2 #12 AWG, 21C		1P-15A CSA 1	
PB-6	BOILER CIRCULATION PUMP	150 W	120/1					*	*	*	15A, 1P	N. MECH.	LP-6A		2 #12 AWG, 21C		1P-15A CSA 1	
BB-LLG	BATTERY BANK - LOBBY, LIBRARY, GYM		600/1					*	*	*	15A, 2P	PENTHSE.	MCC400P		2 #12 AWG, 21C			
BB-PS	BATTERY BANK - POOL SOUTH		600/1					*	*	*	15A, 2P	BASEMENT	CDP-100		2 #12 AWG, 21C			
BB-PN	BATTERY BANK - POOL NORTH		600/1					*	*	*	15A, 2P		MCC300N		2 #12 AWG, 21C			
AH1	AIR HANDLING UNIT (EXISTING)	10 HP	600/3					*	*	*	--							EXISTING UNIT
AH2	AIR HANDLING UNIT (EXISTING)	10 HP	600/3					*	*	*	--	S. MECH.	MCC300N					EXIST. REFED, CNTRL. BY METASYS
AH3	AIR HANDLING UNIT (EXISTING)	3 HP	600/3					*	*	*	--	S. MECH.	MCC300N					EXIST. REFED, CNTRL. BY METASYS
AH5	AIR HANDLING UNIT	1/3 HP	120/1					*	*	*	--	S. MECH.	CP300					EXIST. PROVIDE SEP. STARTER
MCP-1	METASYS EXTENDED MAIN CONTROLLER	500W	120/1					*	*	*	15A, 1P	BSMNT.	LP-1					REFER TO NOTE 7
MCP-2	METASYS CONTROL MODULE	200W	120/1					*	*	*	15A, 1P	N. MECH.	LP-6A					REFER TO NOTE 7
MCP-3	METASYS CONTROL MODULE	200W	120/1					*	*	*	15A, 1P	S. MECH.	LP-3					REFER TO NOTE 7
MCP-4	METASYS CONTROL MODULE	200W	120/1					*	*	*	15A, 1P	PENTHSE.	CJ	18				
DM-1	DAMPER MOTOR POWER		120/1					*	*	*	15A, 1P	2ND FLR.	CJ	20				CONN. 24V XFMR SUPP BY MECH.
DM-2	DAMPER MOTOR POWER		120/1					*	*	*	15A, 1P	2ND FLR.	CJ	22				CONN. 24V XFMR SUPP BY MECH.
WH1	WATER HEATER, STAFF (LIBRARY)	1500 W	120/1					*	*	*	15A, 1P		CD	36	2 #12 AWG		1P-15A CSA 1	
WH2	WATER HEATER, LOBBY (NORTH)	1500 W	120/1					*	*	*	15A, 1P		CB	18	2 #12 AWG		1P-15A CSA 1	
WH3	WATER HEATER, LOBBY (NORTH)	1500 W	120/1					*	*	*	15A, 1P		CG	36	2 #12 AWG		1P-15A CSA 1	

NOTES

- ALL OVERCURRENT AND DEVICE SIZES SHOWN ON MECHANICAL AND EQUIPMENT SCHEDULE ARE PRELIMINARY. COORDINATE WITH EQUIPMENT SUPPLIER.
- UNIT HEATERS ACCEPTABLE MANUFACTURERS: OUELLET, CHROMALOX, CALORITECH. STANDARD OF ACCEPTANCE: OUELLET MODEL #0A505036
- UNLESS INDICATED OTHERWISE, MECHANICAL EQUIPMENT IS CONTROLLED BY METASYS FACILITIES MANAGEMENT SYSTEM. EXISTING EQUIPMENT REFED IS CONTROLLED BY EXISTING METASYS SYSTEM. NEW EQUIPMENT IS CONTROLLED BY NEW METASYS EXTENDED SYSTEM.
- PACKAGE UNIT COME COMPLETE WITH MOTOR STARTERS.
- ALL DISCONNECT SWITCHES TO COME COMPLETE WITH PAD LOCKABLE HASP.
- SEE DRAWING E8.4 FOR MCC ELEVATIONS.
- SUPPLY 15A-1P CIRCUIT BREAKERS IN EXISTING 120/208V PANELBOARD FOR NEW METASYS CONTROL MODULES.



INTRUSION SYSTEM (ADT) CONTROL LOCATIONS SCHEDULE	
DESCRIPTION AND FUNCTIONALITY	DESCRIPTION AND FUNCTIONALITY
EXISTING AREAS: BASEMENT DOOR FROM MAINTENANCE TO EXISTING TRACK (BASEMENT, GRIDLINE EA.9,E3.4) - CARD READER: CARPET BOWLING SOUTH DOOR TO POOL (MAIN FLOOR, GRIDLINE EJ.2,E1): - CARD READER: GROUND AND MAINTENANCE EQUIPMENT (MAIN FLOOR, GRIDLINE EA, E1.3): - CARD READER. NORTH STAIRWELL (MAIN FLOOR, GRIDLINE (EA.3,E5.7): - CARD READER.	NEW AREAS (CONTINUED): PUBLIC W.C. 113 - MOTION SENSOR NORTH WEST CORNER. REC CENTER STAFF 115: - DOOR SENSOR ON DOOR TO ROOM. - MOTION SENSOR ON NORTH WALL, EAST SIDE. CONTROL 116: - TWO UNDER COUNTER PANIC ALARM PUSHBUTTONS. CONFIRM LOCATION WITH OWNER. LIBRARY 117: - TWO DOOR SENSORS ON DOUBLE DOOR AT ENTRANCE TO LIBRARY. - KEYPAD ON EAST WALL (GRIDLINE A.7.4). - MOTION SENSOR ON WALL ADJOINING STORAGE 111 (GRIDLINE A.6,3.7). CONFIRM LOCATION WITH OWNER. - MOTION SENSOR IN SOUTH EAST CORNER, FACING WEST. - MOTION SENSOR IN SOUTH WEST CORNER, FACING EAST. - MOTION SENSOR IN NORTH WEST CORNER, FACING SOUTH. - DOOR SENSOR ON WEST EXIT DOOR (GRIDLINE A.5,1.2). PUBLIC W.C 113: - MOTION SENSOR IN NORTH EAST CORNER. STAIR #3 EXIT DOOR (MAIN FLOOR, GRIDLINE A.1,1.1): - DOOR SENSOR. SECOND FLOOR GYM AREAS: - MOTION SENSOR ON NORTH WALL FACING SOUTH (GRIDLINE A.1,9). - MOTION SENSOR ON NORTH WALL FACING SOUTH (GRIDLINE A.7,7). - MOTION SENSOR ON SOUTH WALL FACING WEST (GRIDLINE D.3,9). - MOTION SENSOR ON SOUTH WALL FACING EAST (GRIDLINE D.4,0). MALE W.C. 202: - MOTION SENSOR SOUTH EAST CORNER. FEMALE W.C. 203: - MOTION SENSOR NORTH EAST CORNER. STAIR TO PENTHOUSE/ROOF: - MOTION SENSOR ON NORTH WALL OF STAIR (PENTHOUSE, GRIDLINE A.4,5,5).
NEW AREAS: STAIR #2 EXIT DOOR (MAIN FLOOR, GRIDLINE A.5,8): - DOOR SENSOR. VESTIBULE 101: - TWO DOOR SENSORS ON DOUBLE DOOR D101A. - DOOR SENSOR ON DOOR D101B. - KEYPAD ON NORTH WALL. - MOTION SENSOR ON WEST WALL AT CEILING. - BREAK GLASS SENSOR ON WEST WALL AT CEILING. ENTRY 102: - BREAK GLASS SENSOR ON WEST WALL AT CEILING. - MOTION SENSOR AT SOUTH EAST CORNER. LOBBY 103: - MOTION SENSOR ON WEST WALL AT BASE OF STAIR #1 (GRIDLINE A.6,5,4). - TWO MOTION SENSORS ON COLUMN AT GRIDLINE C.6, ONE FACING EAST, ONE FACING WEST. - MOTION SENSOR ON SOUTH WEST EXIT DOOR (GRIDLINE C.5,4). PUBLIC W.C. 112: - MOTION SENSOR SOUTH WEST CORNER.	

- NOTES
- PROVIDE FUNCTIONALITY AS SHOWN IN DETAIL 4/E2.7 "TYPICAL INTRUSION SYSTEM (ADT)"

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 Certificate of Authorization
 UMA Engineering Ltd. (MB)
 No. 256 Date: Aug 21, 2007

DRN CHK DES ENG IDR
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1	ISSUED FOR ADDENDUM #2	QL	07/08/21
0	ISSUED FOR TENDER	QL	07/07/23

NO. REVISION/DESCRIPTION BY DATE

SEALS

PROVINCE OF MANITOBA
 S. K. SMART
 Member
 20996
 AUG 21 2007
 REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: SCX CHECKED BY: USER APPROVAL
 DATE: 2007.07.11

CITY OF WINNIPEG
 PLANNING, PROPERTY & DEVELOPMENT DEPARTMENT
 CIVIC ACCOMMODATIONS DIVISION
 300 - 65 GARRY ST. R3C 4K4

PROJECT
 Construction of Cindy Klassen
 Recreation Complex Facility
 Enhancement Project
 999 Sargent St. Winnipeg, Manitoba

SHEET TITLE
 Electrical
 Motor Schedule

SCALE: N.T.S. PROJECT NO: 2005-059 SHEET NO: E8.3

DRAWING SHEET SIZE: A1 (841mm x 594mm) PLOT 1:1