



**1 POWER LAYOUT - NORTH AREA**  
E4.0 SCALE: 1:100

**WET AND HAZARDOUS LOCATION ELECTRICAL NOTES**

- ALL WIRING AND ELECTRICAL EQUIPMENT IN WET LOCATION TO BE IN COMPLIANCE WITH C.E.C. 22-002 CATEGORY 1.
- ALL LIGHTING TO BE LENSED. CONFIRM PRIOR TO ORDERING.

**HEATING SCHEDULE - NORTH AREA**

TYPE	WATTS	VOLTAGE	DESCRIPTION	MANUFACTURER	CATALOGUE NO.	NOTES
C	1000	347	BASEBOARD	OUELLET	OFM1007	1
UH-1	20000	600	UNIT HEATER - WET LOCATION RATED	OUELLET	OWD20036	3
UH-2	20000	600	UNIT HEATER	OUELLET	OAS20036AM	3

**SPECIFIC HEATING NOTES:**  
 1. C/W BUILT-IN THERMOSTAT OR WIRED TO REMOTE THERMOSTAT AS SHOWN ON DRAWINGS. BASEBOARD TO BE C/W CLEAN BACK AND PEDESTAL MOUNTING KIT FOR MOUNTING IN FRONT OF FULL HEIGHT GLAZING. FINISH TO BE BLACK UNLESS OTHERWISE NOTED.  
 2. C/W BUILT-IN THERMOSTAT UNLESS OTHERWISE INDICATED. RECESSED. FINISH TO BE BLACK UNLESS OTHERWISE NOTED.  
 3. C/W BUILT-IN THERMOSTAT. MOUNT SECURELY WHERE INDICATED TO THE SATISFACTION OF THE ENGINEER.

**GENERAL HEATING NOTES:**  
 A. VOLTAGE TO BE AS INDICATED ABOVE UNLESS OTHERWISE NOTED ON DRAWINGS.  
 B. HEATER SHALL BE FED FROM GFCI PROTECTED CIRCUIT IF INSTALLED WITHIN 1m OF A SINK, TUB, SHOWER (CEC 62-132). CONTROLS FOR HEATERS SHALL BE NO CLOSER THAN 500mm FROM SINK, TUB, SHOWER (CEC 62-130).

MOTOR SCHEDULE								
NO.	DESCRIPTION	LOCATION	VOLTAGE	HP/W/MCA	C.B.	COND.	STARTER	NOTES
FC-1-1	FAN COIL	WASAC MTG	208V-1PH	4.3 MCA	15A-2P	#12	PACKAGED	1
FC-1-2	FAN COIL	WADING POOLS OFFICE	208V-1PH	1.8 MCA	15A-2P	#12	PACKAGED	1
FC-1-3	FAN COIL	WADING POOLS OPEN OFFICE	208V-1PH	4.3 MCA	15A-2P	#12	PACKAGED	1
FC-1-4	FAN COIL	BY-LAW OFFICE	208V-1PH	1.8 MCA	15A-2P	#12	PACKAGED	1
FC-1-5	FAN COIL	STAFF ROOM	208V-1PH	2.1 MCA	15A-2P	#12	PACKAGED	1
FC-1-6	FAN COIL	BY-LAW OPEN OFFICE	208V-1PH	2.9 MCA	15A-2P	#12	PACKAGED	1
FC-2-1	FAN COIL	WELCOME OFFICE	208V-1PH	4.4 MCA	15A-2P	#12	PACKAGED	1
FC-2-2	FAN COIL	CANTEEN	208V-1PH	4.3 MCA	15A-2P	#12	PACKAGED	1
FC-2-3	FAN COIL	CANTEEN	208V-1PH	3 MCA	15A-2P	#12	PACKAGED	1
FC-2-4	FAN COIL	WASAC OPEN OFFICE	208V-1PH	2.9 MCA	15A-2P	#12	PACKAGED	1
FC-2-5	FAN COIL	WASAC OPEN OFFICE	208V-1PH	2.9 MCA	15A-2P	#12	PACKAGED	1
FC-2-6	FAN COIL	WASAC OPEN OFFICE	208V-1PH	2.9 MCA	15A-2P	#12	PACKAGED	1
FC-2-7	FAN COIL	WASAC STORAGE	208V-1PH	2.9 MCA	15A-2P	#12	PACKAGED	1
HC-1-1	HEATING COIL	WASAC MTG	347V-1PH	3 KW	15A-1P	#12	-	1
HC-1-2	HEATING COIL	WADING POOLS OFFICE	347V-1PH	2 KW	15A-1P	#12	-	1
HC-1-3	HEATING COIL	WADING POOLS OPEN OFFICE	347V-1PH	6 KW	25A-1P	#10	-	1
HC-1-4	HEATING COIL	BY-LAW OFFICE	347V-1PH	2 KW	15A-1P	#12	-	1
HC-1-5	HEATING COIL	STAFF ROOM	347V-1PH	2 KW	15A-1P	#12	-	1
HC-1-6	HEATING COIL	BY-LAW OPEN OFFICE	347V-1PH	5 KW	20A-1P	#12	-	1
HC-2-1	HEATING COIL	WELCOME OFFICE	347V-1PH	6 KW	25A-1P	#10	-	1
HC-2-2	HEATING COIL	CANTEEN	347V-1PH	6 KW	25A-1P	#10	-	1
HC-2-3	HEATING COIL	CANTEEN	347V-1PH	2 KW	15A-1P	#12	-	1
HC-2-4	HEATING COIL	WASAC OPEN OFFICE	347V-1PH	3 KW	15A-1P	#12	-	1
HC-2-5	HEATING COIL	WASAC OPEN OFFICE	347V-1PH	5 KW	20A-1P	#12	-	1
HC-2-6	HEATING COIL	WASAC OPEN OFFICE	347V-1PH	1.5 KW	15A-1P	#12	-	1
HC-2-7	HEATING COIL	WASAC STORAGE	347V-1PH	3 KW	15A-1P	#12	-	1
MUA-1	MAKE UP AIR UNIT	GRADE	600V-3PH	46 MCA	50A-3P	#8	PACKAGED	1
ACCU-1	CONDENSING UNIT	ROOF	208V-3PH	11 MCA	15A-3P	#12	PACKAGED	1
ACCU-2	CONDENSING UNIT	ROOF	208V-3PH	11 MCA	15A-3P	#12	PACKAGED	1
HP-1	HEAT PUMP	ROOF	208V-3PH	66 MCA	110A-3P	#2	PACKAGED	1
HP-2A	HEAT PUMP	ROOF	208V-3PH	55 MCA	90A-3P	#6	PACKAGED	1
HP-2B	HEAT PUMP	ROOF	208V-3PH	55 MCA	90A-3P	#6	PACKAGED	1
HRV-1	HEAT RECOVERY VENT.	MECHANICAL 119	208V-3PH	28 MCA	35A-3P	#8	PACKAGED	1
HRV-2	HEAT RECOVERY VENT.	MECHANICAL 119	208V-3PH	28 MCA	35A-3P	#8	PACKAGED	1
HRV-3	HEAT RECOVERY VENT.	JAN/LAUNDRY 145	120V-1PH	1.9 MCA	15A-1P	#12	PACKAGED	1,4
HRV-4	HEAT RECOVERY VENT.	MPR STORAGE 137	120V-1PH	5.5 FLA	15A-1P	#12	PACKAGED	1,4
HRV-5	HEAT RECOVERY VENT.	GRADE	600V-3PH	42 MCA	45A-3P	#8	PACKAGED	1,4
CU-1	CONDENSING UNIT	GRADE	600V-3PH	14 MCA	15A-3P	#12	PACKAGED	1
CU-2	CONDENSING UNIT	GRADE	600V-3PH	44.3 MCA	50A-3P	#12	PACKAGED	1
CU-3	CONDENSING UNIT	GRADE	208V-1PH	16.7 MCA	25A-2P	#10	PACKAGED	1
CU-4	CONDENSING UNIT	GRADE	208V-1PH	15.2 MCA	25A-2P	#10	PACKAGED	1
CU-5	SPLIT A/C UNIT	ROOF	208V-1PH	25 MCA	30A-2P	#10	PACKAGED	1,5
AC-5	SPLIT A/C UNIT	ELEC/T 118	208V-1PH	1A	-	-	PACKAGED	1,5
CU-6	SPLIT A/C UNIT	GRADE	208V-1PH	11A	15A-2P	#12	PACKAGED	1,5
AC-6	SPLIT A/C UNIT	ELEC 139B	208V-1PH	1A	-	-	PACKAGED	1,5
AH-1	AIR HANDLER UNIT	MECH ROOM 153	600V-3PH	56.2 MCA	60A-3P	#6	PACKAGED	1
AH-2	AIR HANDLER UNIT	MECH ROOM 153	600V-3PH	87.3 MCA	100A-3P	#3	PACKAGED	1
AH-3	AIR HANDLER UNIT	GRADE	600V-3PH	22 MCA	25A-3P	#10	PACKAGED	1
P-1	CONDENSATE PUMP	MECH ROOM 153	120V-1PH	FRAC.	15A-1P	#12	-	1,3
P-2	CONDENSATE PUMP	MECH ROOM 153	120V-1PH	FRAC.	15A-1P	#12	-	1,3
FC-1	FAN COIL	MPR STORAGE 137	208V-1PH	74.4 MCA	80A-2P	#4	PACKAGED	1
FC-2	FAN COIL	MPR STORAGE 137	208V-1PH	43.3 MCA	45A-2P	#8	PACKAGED	1
PHC-2	PRE HEAT COIL	MPR STORAGE 137	347V-1PH	4 KW	15A-1P	#12	-	1
PHC-3	PRE HEAT COIL	MPR STORAGE 137	347V-1PH	5 KW	20A-1P	#12	-	1
EF-1	EXHAUST FAN	WASH BAY	120V-1PH	1/4HP	15A-1P	#12	-	1,2
EF-2	EXHAUST FAN	JAN/LAUNDRY 145	120V-1PH	FRAC.	15A-1P	#12	-	1,6
EF-3	EXHAUST FAN	UTR 144	120V-1PH	FRAC.	15A-1P	#12	-	1,7
HU-1	HUMIDIFIER	MECHANICAL 119	208V-1PH	4 KW	25A-2P	#12	PACKAGED	1
HWT-1	HOT WATER TANK	MECHANICAL 119	600V-3PH	27 KW	35A-3P	#8	-	1
HWT-2	HOT WATER TANK	JAN/LAUNDRY 145	600V-3PH	12 KW	15A-3P	#12	-	1
CP-1	CIRC. PUMP	MECHANICAL 119	120V-1PH	FRAC.	15A-1P	#12	-	1
CP-2	CIRC. PUMP	JAN/LAUNDRY 145	120V-1PH	FRAC.	15A-1P	#12	-	1
CF-1 THU 6	CEILING FAN	MULTI-PURPOSE WORKSPACE	120V-1PH	FRAC.	15A-1P	#12	-	1,6

**SPECIFIC NOTES:**  
 1. WIRE AND CONNECT AS REQUIRED. REFER TO MECHANICAL.  
 2. MAGNETIC STARTER BY ELECTRICAL CONTRACTOR.  
 3. MANUAL STARTER BY ELECTRICAL CONTRACTOR.  
 4. HRV'S ARE CORD CONNECTED AND REQUIRE SEPARATE CIRCUIT RECEPTACLES AT HIGH LEVEL FOR PLUG IN. COORDINATE FINAL MOUNTING LOCATION WITH MECHANICAL PRIOR TO ROUGH-IN.  
 5. WIRE AND CONNECT INDOOR UNIT TO OUTDOOR UNIT TERMINALS, AS PER MANUFACTURER'S RECOMMENDATIONS. REFER TO MECHANICAL.  
 6. TIE EXHAUST FAN TO WALL SWITCH IN ROOM. COORDINATE FINAL LOCATION WITH MECHANICAL.  
 7. TIE EXHAUST FAN TO ROOM LIGHT SWITCH.

**GENERAL NOTES:**  
 A. MANUAL STARTERS TO BE C/W OVERCURRENT PROTECTION.  
 B. ALL DISCONNECT SWITCHES TO BE SUPPLIED BY ELECTRICAL CONTRACTOR.  
 C. ELECTRICAL CONTRACTOR TO PROVIDE CIRCUIT BREAKERS AND WIRING ACCORDING TO THE FINAL NAMEPLATES OF ALL THE MECHANICAL EQUIPMENT.  
 D. ALL LOW VOLTAGE CONTROL WIRING BY MECHANICAL CONTRACTOR.  
 E. ALL LINE VOLTAGE CONTROL WIRING BY ELECTRICAL CONTRACTOR - REFER TO MECHANICAL SECTION. CO-ORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.

- NOTES:**
- SPECIFIC ELECTRICAL NOTES**
- WIRE AND CONNECT POWER DOOR OPERATOR AND ALL RELATED CONTROLS. CONFIRM EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
  - WIRE AND CONNECT OVERHEAD DOOR OPERATOR AND ALL RELATED CONTROLS. CONFIRM EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
  - EXISTING OVERHEAD DOORS TO REMAIN.
  - POWER AND DATA TO FEED WORK STATIONS ARE TO BE RUN FROM EXTERIOR WALL. IN NEW LOW HEIGHT STUD WALL. COORDINATE EXACT LOCATION AND ROUTING WITH G.C. PRIOR TO ROUGH-IN.
  - PROVIDE RECEPTACLE MOUNTED TO AIR HANDLER UNIT FOR CONNECTION OF ASSOCIATED CONDENSATE PUMP WITH CORDED END.
  - COORDINATE WITH CITY OF WINNIPEG FINAL PLUG, DATA AND PHONE RECEPTACLES FOR COMPUTER, PINPAD (POS), PRINTER AND LANDLINE PHONE PRIOR TO ROUGH IN.
  - WIRE AND CONNECT FIRE SHUTTER C/W FUSIBLE LINK AND ALL RELATED CONTROLS. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. (NOTE: DOES NOT REQUIRE FIRE ALARM CONDITION)
  - PROVIDE AN EMERGENCY CALL SYSTEM FOR ACCESSIBLE RESTROOM AS REQUIRED BY MFC SECTION 3.8.3 AND THE PROVISION OF CSA B651-18 SECTION 5.3.1.2. SYSTEM TO BE CAMDEN CX-WC11 SYSTEM INCLUDING UTR DOOR OPERATOR, LOCK, CONTROLS AND ALARM SYSTEM. REFER TO ARCHITECTURAL DOOR HARDWARE SPECIFICATIONS FOR DETAILS.
  - CO/NO2 SENSOR SUPPLIED BY MECHANICAL. WIRE AND CONNECTED BY ELECTRICAL.
  - WIRE AND CONNECT LOW VOLTAGE TRANSFORMER FOR AUTO FLUSH AND AUTO FAUCET DEVICES. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
  - WIRE AND CONNECT POWER WASHER AND ALL ASSOCIATED CONTROLS AS REQUIRED. CONFIRM EXACT REQUIREMENTS AND CONNECTION TYPE WITH SUPPLIER PRIOR TO ROUGH-IN. PROVIDE RECEPTACLE OR DIRECT CONNECTION AS NEEDED. VERIFY FINAL LOCATION WITH CITY OF WINNIPEG PRIOR TO ROUGH-IN.
  - SUPPLY, INSTALL, WIRE AND CONNECT RECEIVING AREA DOOR SIGNAL SYSTEM C/W EXTERIOR WEATHER-PROOF PUSH BUTTON, INTERIOR BUZZER, LOW VOLTAGE TRANSFORMER AS NECESSARY. VERIFY FINAL BUZZER LOCATION WITH CITY OF WINNIPEG PRIOR TO ROUGH-IN.
  - BASEBOARD HEATER TO BE C/W LOW VOLTAGE RELAY AND TIED TO WALL THERMOSTAT.
  - PROVIDE SEPARATE CIRCUIT RECEPTACLE FOR SPRINKLER SYSTEM COMPRESSOR. COORDINATE EXACT LOCATION AND EQUIPMENT REQUIREMENT WITH SPRINKLER SYSTEM SUPPLIER PRIOR TO ROUGH-IN. PROVIDE ADDITIONAL CONNECTIONS AS REQUIRED.

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R1 No.	ADDENDUM #1 REVISION/DESCRIPTION	AM BY	DATE
			2025.01.31

DATE	USER	APPROVAL
2025.01.31		

THE CITY OF WINNIPEG  
 ASSETS AND PROJECT MANAGEMENT  
 DEPARTMENT  
 MUNICIPAL ACCOMMODATIONS DIVISION  
 3-65 GARRY STREET, R3C 4K4

PROJECT  
**REDEVELOPMENT OF THE OLD EXHIBITION ARENA**

80 SINCLAIR STREET  
 SHEET TITLE

**ELECTRICAL**  
**POWER AND SYSTEMS LAYOUT - NORTH**

SCALE	PROJECT No:	SHEET No:
AS SHOWN	2020-136	E4.0