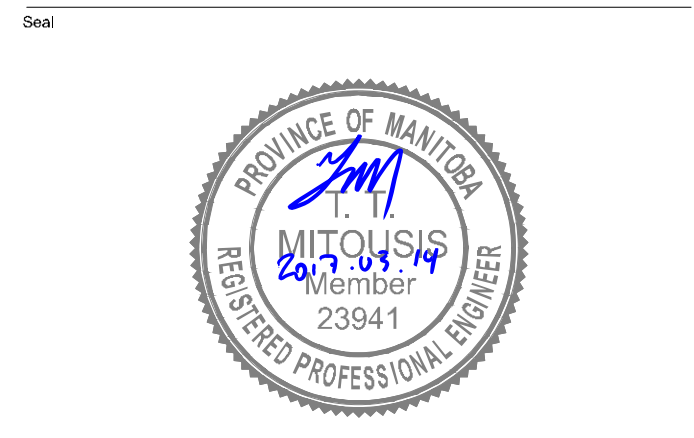



**ENGINEERS
GEOSCIENTISTS
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CGM Engineering Ltd.
 No. 6241

No.	DATE	REVISION /ISSUANCE
3	2017.03.14	ISSUED FOR ELEC. ADDENDUM #2
2	2017.03.03	ISSUED FOR ELEC. ADDENDUM #1
1	2017.02.17	ISSUED FOR CONSTRUCTION



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Project
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Sheet Title
**ELECTRICAL
POWER LAYOUT**

Project No. 1487
 Sheet **E-103**

- SPECIFIC ELECTRICAL NOTES**
- WIRE AND CONNECT AUTOMATIC SLIDING DOOR AND ALL ASSOCIATED CONTROLS AS REQUIRED. CONFIRM REQUIREMENTS ON SITE.
 - PROVIDE A SWITCHED 120V SWITCHED SEPARATE CIRCUIT DUPLEX RECEPTACLE AT HIGH LEVEL FOR "OPEN" SIGN. CONFIRM FINAL LOCATION OF SWITCH WITH CITY ON SITE.
 - PROVIDE 120V POWER SUPPLY FOR SELF-CHECK-IN STATION. CONFIRM EXACT REQUIREMENTS WITH MANUFACTURER'S LITERATURE PRIOR TO ROUGH-IN.
 - 100A-120/208V-3PH-4W RECESSED PANEL 'L' (42CCT).
 - WIRE AND CONNECT BARRIER FREE DOOR OPERATOR AND ALL ASSOCIATED CONTROLS AS REQUIRED. CONFIRM REQUIREMENTS ON SITE.
 - NOT USED.
 - POWER AND DATA CEILING MOUNTED FOR PROJECTOR. CONFIRM EXACT REQUIREMENTS AND MOUNTING LOCATION ON SITE.
 - DISPLAY MONITOR RECEPTACLE. CONFIRM FINAL LOCATION.
 - WIRE AND CONNECT EXTERIOR SIGNAGE AS REQUIRED. CONFIRM REQUIREMENTS ON SITE.
 - 200A-120/208V-3PH-4W PANEL 'B' (84 CCT) RECESSED.
 - PROVIDE 120V POWER SUPPLY FOR B.A.S. CONTROL PANEL.
 - 200A-120/208V-3PH-4W PANEL 'A' (120CCT) SURFACE MOUNTED.
 - 600A-120/208V-3PH-4W MAIN DISTRIBUTION (MD-1), 600A-3P MAIN DISCONNECT SWITCH, CTS AND METERING.
 - PROVIDE ASSISTED LISTEN SYSTEM AS PER N.B.C. 3.8.3.18.
 - FLOOR MOUNTED OUTLET FOR MONITOR. REFER TO ARCHITECTURAL DETAIL.

- OUTLET FOR CHECK OUT STATION.
- WEATHERPROOF OUTLET MOUNTED POST. MANUFACTURER LEGRAND BM-PP-1GTU-BLKL C/W LDR-DSF-BLX.
- NOT USED.
- LIVING WALL. PROVIDE 120V POWER SUPPLY TO IRRIGATION CONTROL UNIT. PROVIDE TWO(2) GFCI 15A RECEPTACLES. REFER TO GSKY VERSA WALL LITERATURE FOR EXACT MOUNTING LOCATIONS AND DETAILS.
- 400A-120/208V-3PH-4W PANEL 'H' (84 CCT) SURFACE MOUNTED.
- COORDINATE THE FINAL LAYOUT OF ALL EQUIPMENT WITHIN MECHANICAL/ELECTRICAL ROOM 107 WITH CONTRACTOR, MECHANICAL SUBCONTRACTOR AND ALL SUBTRADES PRIOR TO INSTALLATION.
- PROVIDE 120V POWER SUPPLY FOR DRINKING FOUNTAIN. CONFIRM EXACT REQUIREMENTS WITH MANUFACTURER'S LITERATURE PRIOR TO ROUGH-IN.
- LOW VOLTAGE LIGHTING CONTROL PANEL (24 RELAY CAPACITY MINIMUM). MANUFACTURER: ILIGHT BY ACUTY.
- FIRE ALARM PANEL.
- APPROXIMATE WALLSPACE WITHIN MECHANICAL/ELECTRICAL ROOM 107 DEDICATED TO MECHANICAL EQUIPMENT. COORDINATE EXACT LOCATIONS WITH MECHANICAL ON SITE.

ELECTRIC HEAT SCHEDULE

TYPE	DESCRIPTION	VOLTAGE	LOAD	MANUFACTURER	REMARKS
EBB-1	BASEBOARD HEATER	208V-1PH	AS NOTED	OUELLET ODB SERIES	-
EBB-2	BASEBOARD HEATER C/W 24V RELAY AND TRANSFORMER	208V-1PH	AS NOTED	OUELLET ODB SERIES C/W ODB-RT-208	-
EFF	FORCE FLOW HEATER	208V-1PH	2.0 KW	OUELLET GAWH SERIES	-
EUH-1 TO EUH-3	UNIT HEATER	208V-1PH	3.0 KW	OUELLET OAS SERIES	-

NOTES:
 1. C/W BUILT-IN THERMOSTAT UNLESS OTHERWISE NOTED. WIRE TO REMOTE THERMOSTAT AS INDICATED ON DRAWINGS.
 2. VOLTAGE AS INDICATED IN THIS TABLE UNLESS OTHERWISE NOTED ON DRAWINGS.
 3. PROVIDE ALL APPROVED WORKING ACCESSORIES.
 4. APPROVED EQUALS: DIMPLEX, STELPRO.

- GENERAL ELECTRICAL NOTES**
- PROVIDE LAMACOID LABELS FOR ALL ELECTRICAL EQUIPMENT AND OUTLETS.
 - ALL RECEPTACLES WITHIN PUBLIC AREAS ARE TO BE CHILDPROOF.
 - ALL OUTLETS WITHIN THE PUBLIC LIBRARY AREA ARE TO BE FED FROM THE CRAWLSPACE.
 - CONFIRM ALL ELECTRICAL REQUIREMENTS OF ELECTRIC BASEBOARD HEATER CONTROLS WITH MECHANICAL SUBCONTRACTOR. PROVIDE ADDITIONAL CONDUIT AND WIRING AS DIRECTED ON SITE.

MECHANICAL SCHEDULE

TYPE	DESCRIPTION	LOCATION	VOLTAGE	LOAD	CIRCUIT BREAKER	WVIRE SIZE	STARTER	REMARKS
RTU-1	ROOF TOP UNIT	OUTSIDE	208V-3PH	73 MCA	80A-3P	#4	PACKAGED	-
RTU-2	ROOF TOP UNIT	OUTSIDE	208V-3PH	73 MCA	80A-3P	#4	PACKAGED	-
RTU-3	ROOF TOP UNIT	OUTSIDE	208V-3PH	29.4 MCA	40A-3P	#8	PACKAGED	-
AHU-1	AIR HANDLING UNIT	MECH/ELEC ROOM 107	120V-1PH	7.9 MCA	15A-1P	#12	PACKAGED	-
EF-1	EXHAUST FAN	STORAGE 114	120V-1PH	315 W	15A-1P	#12	MANUAL	-
EF-2	EXHAUST FAN	STAFF WC 104	120V-1PH	92 W	15A-1P	#12	MANUAL	-
EF-3	EXHAUST FAN	MECH/ELEC ROOM 107	120V-1PH	661 W	15A-1P	#12	MANUAL	-
H-1	HUMIDIFIER	MECH/ELEC ROOM 107	208V-3PH	26.25 KW	100A-3P	#3	-	-
H-2	HUMIDIFIER	MECH/ELEC ROOM 107	208V-3PH	26.25 KW	100A-3P	#3	-	-
CU-1	CONDENSING UNIT	OUTSIDE	208V-1PH	12 MCA	20A-2P	#12	MAGNETIC	-
SF-1	SUPPLY FAN	VESTIBULE 101	120V-1PH	1/4 HP	15A-1P	#12	MANUAL	-
EHC-1	ELECTRIC HEATING COIL	VESTIBULE 101	208V-3PH	8.0KW	30A-3P	#10	-	-
SP-1A/B	SUMP PUMP	CRAWLSPACE	120V-1PH	1/3 HP	20A-1P	#12	MAGNETIC	-
SP-2A/B	SUMP PUMP	CRAWLSPACE	120V-1PH	1/3 HP	20A-1P	#12	MAGNETIC	-
DWH-1	DOMESTIC WATER HEATER	MECH/ELEC ROOM 107	208V-3PH	6 KW	30A-3P	#10	-	-
DWH-2	DOMESTIC WATER HEATER	FEMALE WC 117	208V-3PH	6 KW	30A-3P	#10	-	-

NOTES:
 1. ELECTRICAL CONTRACTOR TO WIRE AND CONNECT ALL MECHANICAL EQUIPMENT AS INDICATED. COORDINATE WITH MECHANICAL ON SITE.
 2. ELECTRICAL CONTRACTOR TO CONFIRM ALL EQUIPMENT LOADS, CIRCUIT SIZES, AND MOUNTING HEIGHTS PRIOR TO ROUGH-IN.
 3. ELECTRICAL CONTRACTOR TO PROVIDE ALL RELAYS & WIRING AND MAKE ALL CONNECTIONS FOR INTERLOCKING OF MECHANICAL EQUIPMENT AS REQUIRED. CONFIRM AND COORDINATE EXACT REQUIREMENTS WITH MECHANICAL ON SITE.
 4. ELECTRICAL CONTRACTOR TO PROVIDE ALL MOTOR STARTERS AND DISCONNECT SWITCHES AS REQUIRED.
 5. ALL MOTOR STARTERS ARE TO BE COMPLETE WITH OVERCURRENT PROTECTION.
 6. ELECTRICAL CONTRACTOR TO PROVIDE ALL LINE VOLTAGE CONTROL WIRING AS REQUIRED. REFER TO MECHANICAL DRAWINGS. COORDINATE REQUIREMENTS WITH MECHANICAL ON SITE.