

NEW MECHANICAL EQUIPMENT SCHEDULE																						
EQUIPMENT				ELECTRICAL CHARACTERISTICS			PACKAGED UNIT	STARTER					CONTROLS				CIRCUITRY INFORMATION					
ITEM	DESCRIPTION	LOCATION	KW	HP	AMPS	VOLTS/Ø	UNIT	TYPE	HOA	PILOT LIGHT	PUSH BUTTON	SUPPLIED BY	TYPE	SUPPLIED BY	INSTALL BY	WIRED BY	PANEL-CCT	O.C.P	WIRE	CONDUIT	NOTES	
EHC-1	ELECTRIC HEATING COIL	STORAGE 103	2.5		10.42	240/1	Y	-	-	-	-	-	-	MECH	ELEC	ELEC	PANEL SCHEDULE	15A/2P	2-#12 AWG RW90 CU	3/4" (21mm) EMT	1,2	
ERV-1	ENERGY RECOVERY VENTILATOR	STORAGE 103	0.24	1/3	7.6	120/1	Y	-	-	-	-	-	-	MECH	ELEC	ELEC	PANEL SCHEDULE	15A/1P	2-#12 AWG RW90 CU	3/4" (21mm) EMT	1,2	
HWT-1	ELECTRIC WATER HEATER	STORAGE 103	3		12.5	240/1	Y	-	-	-	-	-	-	MECH	ELEC	ELEC	PANEL SCHEDULE	20A/2P	2-#12 AWG RW90 CU	3/4" (21mm) EMT	1,2	
UH-1	UNIT HEATER	STORAGE 103	5		20.83	240/1	Y	-	-	-	-	-	-	MECH	ELEC	ELEC	PANEL SCHEDULE	30/2P	2-#10 AWG RW90 CU	3/4" (21mm) EMT	1,2	
NOTES:											LEGEND:											
1.	ELECTRICAL CONTRACTOR SHALL CONFIRM FINAL LOCATION OF ALL EQUIPMENT WITH MECHANICAL DRAWINGS PRIOR TO ROUGHING-IN OF CONDUIT. CONFIRM FINAL EQUIPMENT RATINGS AND NAMEPLATES WITH MECHANICAL PRIOR TO ROUGHING-IN OF CONDUIT. WIRING AND CIRCUIT BREAKERS. SIZE OVER PROTECTION ACCORDINGLY. INFORM ENGINEER OF ANY DISCREPANCIES AND OR DEVIATIONS PRIOR TO ROUGHING IN OF EQUIPMENT.											MAG=MAGNETIC STARTER VFD=VARIABLE FREQUENCY DRIVE MAN=MANUAL STARTER TOG=MOTOR RATED TOGGLE SWITCH CON=CONTRACTOR CONTROLS: T-STAT= THERMOSTAT H-STAT= HUMIDISTAT EMCS = ENERGY MANAGEMENT CONTROL SYSTEM TC = TIME CLOCK MT = MANUAL TIMER MS = MANUAL SWITCH VSC = VARIABLE SPEED CONTROL APS = AIR PROVIDING SWITCH COD = CARBON MONOXIDE DETECTOR FA = FIRE ALARM INTERLOCK AUTO = INTEGRAL AUTO SWITCH ACTIVATION FLOAT = FLOAT SWITCH										
2.	ELECTRICAL CONTRACTOR SHALL CONFIRM FINAL LOCATION OF ALL EQUIPMENT WITH MECHANICAL DRAWINGS PRIOR TO ROUGHING IN OF CONDUIT. CONFIRM FINAL EQUIPMENT RATINGS AND NAMEPLATES WITH MECHANICAL PRIOR TO ROUGHING-IN OF CONDUIT. WIRING AND CIRCUIT BREAKERS. SIZE OVER PROTECTION ACCORDINGLY. INFORM ENGINEER OF ANY DISCREPANCIES AND OR DEVIATIONS PRIOR TO ROUGHING IN OF EQUIPMENT.																					
3.	ALL STARTERS SHALL BE SUPPLIED, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE INDICATED.PROVIDE DRIVE RX CABLE FOR VFD CONNECTIONS.																					
4.	ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED MOTOR DISCONNECT FOR THE EQUIPMENTS. CONTRACTOR TO CONFIRM EQUIPMENT RATING AND PROVIDE POWER CONNECTION AS PER MANUFACTURER RECOMMENDATIONS AT NO EXTRA COST.																					

Panel Board: New Panel A (MCB REQUIRED , RATING 100A)										Rating: 120/240V/3Ø/4Wire 100A 42KAIC
Item	Load(KW)	Breaker	CCT	A	B	C	CCT	Breaker	Load(KW)	Item
EHC-1	1.25	15A/2P	1	●			2	15A/1P	1.00	DOOR OPERATOR AND PUSH BUTTONS UNIVERSAL TOILET ROOM
	1.25		3		●		4	15A/1P	1.00	DOOR OPERATOR AND PUSH BUTTONS TOILET ROOM
ERV-1	0.24	15A/1P	5			●	6	15A/1P	0.20	LITE UNIVERSAL TOILET ROOMS
HWT-1	1.50	20A/2P	7	●			8	15A/1P	0.20	LITE MAINTENANCE ROOM
	1.50		9		●		10	15A/1P	0.50	LITE EXTERIOR
UH-1	2.50	30A/2P	11			●	12	15A/1P	0.15	OUTDOOR PATIO RECEPTACLES
	2.50		13	●			14	15A/1P		SPARE
RECS MAINTENANCE ROOM	1.20	15A/1P	15		●		16	15A/1P		SPARE
RECS TOILET ROOM (GFCI)	0.60	15A/1P	17			●	18	15A/1P		SPARE
HANDRYER UNIVERSAL TOILET ROOM 101	1.00	15A/1P	19	●			20	15A/1P		SPARE
HANDRYER TOILET ROOM 102	1.00	15A/1P	21		●		22	15A/1P		SPARE
SPARE		15A/1P	23			●	24	15A/1P		SPARE
SPARE		15A/1P	25	●			26	15A/1P		SPARE
SPARE		15A/1P	27		●		28	15A/1P		SPARE
SPARE		15A/1P	29			●	30	15A/1P		SPARE
SPARE		15A/1P	31	●			32	15A/1P		SPARE
SPARE		15A/1P	33		●		34	15A/1P		SPARE
SPARE		15A/1P	35			●	36	15A/1P		SPARE
SPARE		15A/1P	37	●			38	15A/1P		SPARE
SPARE		15A/1P	39		●		40	15A/1P		SPARE
SPARE		15A/1P	41			●	42	15A/1P		SPARE
Connected Load per phase(kw):				7.5	6.5	3.7				
Total Load(KW):										17.6
Total Current (A):										42.3
NOTES: 1. PROVIDE TYPE WRITTEN PANEL DIRECTORY. 2. BALANCE LOADS IN EACH PHASE.										

LUMINAIRE SCHEDULE									
TYPE	DESCRIPTION	MOUNTING	LAMP TYPE	VOLTS	WATTS	TOTAL WATTS	MANUFACTURER	CATALOGUE NUMBER	NOTES
A	1FTX4FT FLAT PANEL, ACRYLIC MICRO OPTICS, EXTRUDED ALUM DOOR FRAME	RECESSED CEILING	LED	120	47.6	-	COOPER	14CGTS-L3C3-WLS	1,2,3
EXT	DIE CAST ALUMINUM, GLARE FREE PRISMATIC LENS, -40C - +40C, WET LOCATION RATED, INTEGRAL PHOTOCCELL	WALL	LED	120	15	-	COOPER	MWP20FSUNVDBZ	1,2,3

NOTES

1. ALL LUMINAIRES MUST BE CSA APPROVED.

2. ALL DRIVER CUTSHEETS MUST INCLUDED WITH LUMINAIRE.

3. PROVIDE ALL REQUIRED MOUNTING KITS/HARDWARE FOR ALL CEILING WALL TYPES.

EMERGENCY LIGHTING BATTERY BANK SCHEDULE							
TYPE	MANUFACTURER	CATALOGUE NUMBER	WATTAGE	LAMPS	CLASSIFICATION	VOLTAGE	NOTES
CMB	BELUCE	NV636-2SR5LED-120347V	36W	LED	COMBINATION BATTERY BANK WITH REMOTE HEAD	120V	2,3,5,6
NOTES:							
1	ALL WIRING TO BE IN EMT CONDUIT 21mm C/W MINIMUM #10 AWG Cu WIRING. CONFIRM WIRE SIZES WITH DISTANCES PER MANUFACTURER'S RECOMMENDATIONS.						
2	ADJUST LIGHTING HEADS TO PROPERLY ILLUMINATE EGRESS ROUTE.						
3	APPROVED EQUIPMENT DEVICES BY DIFFERENT MANUFACTURERS ARE ACCEPTABLE SHOP DRAWING MUST BE SUBMITTED TO ENGINEER FOR APPROVAL.						
4	BATTERY BANK SHALL PROVIDE BACK UP FOR 60 MINUTES CONFIRM BATTERY BANK LOADING WITH MANUFACTURER BEFORE WIRING EXIT LIGHTS.						
5	CATALOGUE NUMBER IS FOR UNIT WITH NO ARROWS. VERIFY DRAWINGS IF ARROWS ARE SHOWN ON UNIT. ORDER APPROPRIATE PART NUMBER BASED ON ARROWS.						
6	CATALOGUE NUMBER IS FOR UNIT WITH SINGLE FACE. VERIFY DRAWINGS IF DOUBLE FACES ARE SHOWN ON UNIT. ORDER APPROPRIATE PART NUMBER BASED ON DOUBLE FACE.						
7	CONFIRM REQUIRED NUMBER OF ZONES AS PER LIGHTING FLOOR PLAN. ALLOW FOR FOUR(4) EXTRA ZONES FOR FUTURE CONSIDERATION.						

0	ISSUED FOR CONSTRUCTION	2026-07-16	D.S.
Rev	Revision Description	Date	Issued by
Revision Schedule			

**ENGINEERS
GEOSCIENTISTS
MANITOBA**

Certificate of Authorization

Break Engineering Ltd.

No.8336

 Alliance ENGINEERING SERVICES INC		 CITY OF WINNIPEG 2777 Portage Avenue, Winnipeg, MB, R3J 0R3					
 BREAK ENGINEERING		GRANT'S OLD MILL MAINTENANCE BUILDING RENOVATION SCHEDULES					
DESIGN	S.N.	CHECKED	D.S.	SIZE		DWG. NO.	E3.0
DRAWN	S.N.	APPROVED	D.S.	SCALE	AS NOTED	SHEET	REV 0