

ABBREVIATIONS	
	DESCRIPTION
A	AMPERE, AMPACITY
AC	ABOVE COUNTER
ACT	ACOUSTIC CEILING TILE
AFF	ABOVE FINISH FLOOR
AG	ABOVE GRADE
CCT	CIRCUIT, CCT: C= PANEL ; CT= CIRCUIT
D	DEMOLITION, REMOVE BACK TO SOURCE
DED	DEDICATED CIRCUIT
DS	DOOR SWITCH
DSW	DISCONNECT SWITCH
DWG	DRAWING
DW	DISHWASHER
ES-X	ELECTRIC STRIKE, "X" DENOTES TYPE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HLA	HIGH LEVEL ALARM (SUMP PIT)
HTR	HEATER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HZ	HERTZ
JB	JUNCTION BOX
M	METER
MD	MOTION DETECTOR
MW	MICROWAVE
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON COUNTER
OS	OCCUPANCY SENSOR
PB	PUSH BUTTON (DISTRESS)
PNL	PANEL
PTL	PUSH-TO-LOCK
R	RELOCATED LOCATION & REUSE
RCPT.	RECEPTACLE
SW	SWITCH
TBD	TO BE DETERMINED
TR	TRANSFORMER
TYP.	TYPICAL
V	VOLT
W	WATT
WP	WEATHER PROOF

HEATER SCHEDULE						
TAG	DESCRIPTION	MANUFACTURER	CATALOG No.	WATTS	VOLTS/PH.	NOTES
BB-1	BASEBOARD	OUELLET	OFM0507	500	347V/1PH.	1,4
BB-2	BASEBOARD	OUELLET	OFM0757	750	347V/1PH.	1,3,4
BB-3	BASEBOARD	OUELLET	OFM1007	1000	347V/1PH.	1,3,4
BB-4	BASEBOARD	OUELLET	OCB1007	1000	347V/1PH.	1,2,4
BB-4	BASEBOARD	OUELLET	OFM1507	1500	347V/1PH.	1,3,4
BB-4	BASEBOARD	OUELLET	OCB1507	1500	347V/1PH.	1,2,4
FF-1	FORCE FLOW	OUELLET	OCA3007	3000	347V/1PH.	1,4
FF-2	FORCE FLOW	OUELLET	OCA4007	4000	347V/1PH.	1,4
UH-1	UNIT HEATER	OUELLET	OAS03007	3000	347V/1PH.	1,4

- HEATER SCHEDULE NOTES:
1. WIRED TO WALL THERMOSTAT AS SHOWN.
 2. SPECIFIED MANUFACTURER/CATALOG No. SERIES "OCB" HAS FLOOR MOUNT CONFIGURATION TO BE USED ALONG SOUTH & WEST WALLS OF GENERAL OFFICE AREA 1 & 2.
 3. THERMOSTATS CONNECTED TO BASEBOARD HEATER & VAV TO INCLUDE SINGLE-POLE RELAY, COIL 24V, WITH TRANSFORMER 347V/24V, 18A AT 347V, OUELLET CONTROL OCB-RT-347. CONFIRM WITH CONTROLS CONTRACTOR.
 4. APPROVED EQUAL IN ACCORDANCE WITH B7 : CHROMALOX, STELPRO, REZNO

ELECTRICAL LEGEND	
TYPE	DESCRIPTION
	DUPLEX RECEPTACLE
	HEIGHT IN INCHES ABOVE FINISH FLOOR TO CENTERLINE OF DEVICE
	2-GANG DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE WITH (2) 2A USB 2.2 & 3.0 CAPABLE
	DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER
	LIGHT SWITCH, SINGLE POLE
	PUSH PLATE (36") ACTUATOR SWITCH FOR AUTOMATIC DOOR OPERATOR
	MOTOR STARTER WITH DISCONNECT SWITCH
	AUTOMATIC DOOR OPERATOR
	JUNCTION BOX
	HEAT DETECTOR
	SMOKE DETECTOR
	DATA PORT
	KEY PAD/DISPLAY - SECURITY
	HORN - SECURITY
	MOTION DETECTOR - SECURITY
	GLASS BREAK DETECTOR - SECURITY
	ELECTRICAL PANEL
	EMERGENCY BATTERY UNIT WITH DUAL HEADS
	EMERGENCY DUAL HEAD LIGHTS
	THERMOSTAT
	CALL FOR ASSISTANCE PACKAGE, EDWARDS CATALOG No.6538-G5, CONTAINS PULL CORD SWITCH, RESETTABLE (CAT. No.6537, HORNSTROBE (CAT. No. 6536-G5), & TRANSFORMER (CAT. No.592).
	ELECTRIC STRIKE FOR OFFICES, HES 5000 WITH 501 FACEPLATE, FINISH TBD
	DOOR CONTACT - FLUSH MOUNT, GE MODEL # 1076CW
	EIA COMPLIANT 45U NETWORK RACK, 2-POST OPEN FRAME RACK, TOOLLESS BUTTON HOLE MOUNTING FOR VERTICAL PDU & CABLE MANAGERS, BLACK, 800 LBS CAPACITY, PATCH PANEL (2x): 1RU 48-PORT FLAT PANEL, (CAT 6) W/IFRONT & REAR CABLE MANAGEMENT, LEVITON OR EQUIVALENT

LUMINAIRE, SWITCH & LIGHTING CONTROL SCHEDULE				
TYPE	MANUFACTURER	CATALOGUE No.	LAMP	DESCRIPTION
	LITHONIA	2BLT2 40L ADP347 EZ1 LP840 N100	LED 4000 LUMENS, 4000K	2'X2' VOLUMETRIC RECESSED LED LUMINAIRE, DIFFUSER -CURVED LINEAR PRISMS, DIMS TO 1%, nLIGHT W/O LUMEN MANAGEMENT
	LITHONIA	2BLT2 40L ADPT 347 EZ1 LP840 N100 NESPD77	LED 4000 LUMENS, 4000K	2'X2' VOLUMETRIC RECESSED LED LUMINAIRE, DIFFUSER WITH TRIM RINGS CURVED LINEAR PRISMS, DIMS TO 1%, nLIGHT W/O LUMEN MANAGEMENT & DUAL INTEGRAL OCCUPANCY CONTROL (PIR & MICROPHONICS)
	LITHONIA	2BLT2 40L ADPT 347 EZ1 LP840 N100 NESPD77ADCX	LED 4000 LUMENS, 4000K	2'X2' VOLUMETRIC RECESSED LED LUMINAIRE, DIFFUSER WITH TRIM RINGS CURVED LINEAR PRISMS, DIMS TO 1%, nLIGHT W/O LUMEN MGMT. & DUAL INTEGRAL OCC. CONTROL (PIR & MIC.) WITH AUTO DIMMING PHOTOCELL.
	LITHONIA	GRD LLP 8FT MSL8 80CRI 40K ID1000MF 2080 MINI NLIGHT 120 SCT F2 12F C110	LED 8000 LUMENS, 4000K	8.25'W x 8' L' LINEAR SUSPENDED INDIRECT/DIRECT, 20% UP/80% DOWN, nLIGHT ENABLE, 120V, HARD CEILING MOUNT, PAINTED ALUMINUM, 12" SUSPENSION
	LITHONIA	GRD LLP 8FT MSL8 80CRI 40K ID1000MF 2080 MINI NLIGHT 120 SCT P0T F2 12F C110	LED 8000 LUMENS, 4000K	8.25'W x 8' L' LINEAR SUSPENDED INDIRECT/DIRECT, 20% UP/80% DOWN, nLIGHT ENABLE, 120V, HARD CEILING MOUNT, PAINTED ALUMINUM, 12" SUSPENSION, OCCUPANCY SENSOR/DAYLIGHT SENSOR
	LITHONIA	BLT4 20L ADP 347 EZ1 LP840 N100	LED 2000 LUMENS, 4000K	1'X4' VOLUMETRIC RECESSED LED LUMINAIRE, DIFFUSER -CURVED LINEAR PRISMS, 347, DIMS TO 1%, nLIGHT W/O LUMEN MANAGEMENT
	LITHONIA	BLT4 20L ADPT 347 EZ1 LP840 N100 NESPD77ADCX	LED 2000 LUMENS, 4000K	1'X4' VOLUMETRIC RECESSED LED LUMINAIRE, DIFFUSER -CURVED LINEAR PRISMS, 347, DIMS TO 1%, nLIGHT W/O LUMEN MANAGEMENT, & DUAL INTEGRAL OCC. CONTROL (PIR & MIC.) WITH AUTO DIMMING PHOTOCELL.
	JUNO	JUNO TRAC-MASTER	SORAA LED PAR38 18.5W SP38-18-60D-940-03	JUNO TRAC-MASTER T691WH, T8WH TRAC SECTIONS TO FORM 8 FEET SQUARE, PENDANT STEM T90WH-24, (2) LAMPS PER SIDE, WHITE, 120V
	JUNO	JUNO TRAC-MASTER	SORAA LED PAR38 18.5W SP38-18-60D-940-03	JUNO TRAC-MASTER T691WH, T8WH TRAC SECTIONS TO FORM 8 FEET SQUARE, PENDANT STEM T90WH-24, (4) LAMPS, WHITE, 120V
	LITHONIA	WL4 20L 347 EZ1 LP840 N100 NESPD77	LED 2000 LUMENS, 4000K	4" WALL MOUNT LED LUMINAIRE, DIFFUSER -IMPACT MODIFIED LINEAR FACETED REFRACTOR, 347V, DIMS TO 1%, nLIGHT W/O LUMEN MANAGEMENT, & DUAL INTEGRAL OCC. CONTROL (PIR & MIC.) WITH AUTO DIMMING PHOTOCELL.
	LITHONIA	ZL1N L96 6000LM FST 347V 40K 80CRI WH NPP16D	LED 6000 LUMENS, 4000K	96" LED STRIPLIGHT, SNAP-ON FROSTED DIFFUSER, 347V, nLIGHT SWITCHING/DIMMING MODULE (NPP16D), WHITE
	LITHONIA	ZL1N L96 6000LM FST 347V 40K 80CRI WH NPP16D LSXR	LED 6000 LUMENS, 4000K	96" LED STRIPLIGHT, SNAP-ON FROSTED DIFFUSER, 347V, nLIGHT SWITCHING/DIMMING MODULE (NPP16D), WHITE, SENSOR SWITCH OCCUPANCY SENSOR
	LITHONIA	ZL1N L48 3000LM FST 347 40K 80CRI WH	LED 3000 LUMENS, 4000K	48" LED STRIPLIGHT, 347V, SNAP-ON FROSTED DIFFUSE, WHITE
	LITHONIA	EVO SQ 35/10 4AR LSS 347 EZ10	LED 1000 LUMENS, 3500K	4" SQUARE RECESSED LED DOWNLIGHT, CLEAR APERTURE/TRIM SEOLF-FLANGED, SEMI-SPECULAR FINISH, 347V, DIMMING TO 10%
	LITHONIA	WST LED P1 40K VW 347 PBBW DBL BXD	LED 1500 LUMENS, 3000K	LED WALL SCONCE, 347V, VISUAL WIDE DISTRIBUTION, TEXTURED BLACK FINISH
	LITHONIA HAPCO POLE	DSX1 LED 60C 700 40K T4M 347 RPA DNAXD	LED 17051 LUMENS, 4000K	LED AREA LUMINAIRE, 60 LEDS (TWO ENGINES), TYPE IV MEDIUM DISTRIBUTION, 347V, ROUND POLE, NATURAL ALUMINUM, HAPCO ROUND TAPER ALUMINUM POLE RTA25C7B4 -01, 25 FEET, SATIN ALUMINUM, VIBRATION DAMPER
	LITHONIA HAPCO POLE	DSX1 LED 60C 700 40K T5M 347 RPA DNAXD	LED 17051 LUMENS, 4000K	LED AREA LUMINAIRE, 60 LEDS (TWO ENGINES), TYPE V MEDIUM DISTRIBUTION, 347V, ROUND POLE, NATURAL ALUMINUM, HAPCO ROUND TAPER ALUMINUM POLE RTA25C7B4 -01, 25 FEET, SATIN ALUMINUM, VIBRATION DAMPER
	ACUITY CONTROLS	nPODM DX WH		WALL MOUNTED SINGLE CHANNEL DIMMER, ON/OFF + RAISE/LOWER CONTROL, nLIGHT NETWORK PORTS, WHITE
	ACUITY CONTROLS	nPODM 2P DX WH		WALL MOUNTED TWO CHANNELS DIMMER, ON/OFF + RAISE/LOWER CONTROL, nLIGHT NETWORK PORTS, WHITE

ALL NEW LIGHTING LUMINAIRES AND COMPONENTS SHALL BE MANITOBA HYDRO POWER SMART APPROVED.

MOTOR SCHEDULE								
TAG	DESCRIPTION	LOCATION	VOLTS/PH.	KW/HP/FLA	CB	COND	STARTER	NOTES
AHU-1	AIR HANDLING UNIT	MECH. RM B-04	575V/3PH.	5.6KW	15	#12	MAGNETIC	1,2,4
AHU-1	AHU-1 HEATING COIL	MECH. RM B-04	575V/3PH.	70KW	80	#3	---	1,4
DHT-1	HOT WATER HEATER	MECH. RM B-04	575V/3PH.	9KW/9FLA	15	#12	---	1
DHT-2	HOT WATER HEATER	MECH. RM B-04	575V/3PH.	9KW/9FLA	15	#12	---	1
CU-1	CONDENSING UNIT	OUTSIDE	575V/3PH.	29FLA/40A MOCPP	40	#8	MANUAL	1,3
CU-2	CONDENSING UNIT	OUTSIDE	208V/1PH.	30A MOCPP	30	#10	MANUAL	1,3
AC-1	EVAPORATOR FOR CU-2	ELECTRICAL RM.	120V/1PH.	1A	15	#12	MANUAL	1,3
SMP-1	SUMP PUMP	MECH. RM. B-04	575V/3PH.	2.4FLA/11.3 LRA	15	#12	MANUAL	1,3
SMP-2	SUMP PUMP	MECH. RM. B-04	575V/3PH.	2.4FLA/11.3 LRA	15	#12	MANUAL	1,3
HRV-1	HEAT RECOVERY VENTILATOR	MECH. RM. B-04	208V/3PH.	1500W	15	#12	MANUAL	1,2,4
P-1	DCW SUPPLY PUMP	MECH. RM. B-04	208V/1PH.	600W/7.4A	15	#12	MANUAL	1,3
P-2	DHW RECIRC. PUMP	MECH. RM. B-04	120V/1PH.	0.8A	15	#12	MANUAL	1,3
COMP-1	COMPOSTER TANK (FAN/HEATER)	MECH. RM. B-04	120V/1PH.	40W/500W	15	#12	MANUAL	1
COMP-2	COMPOSTER TANK (FAN/HEATER)	MECH. RM. B-04	120V/1PH.	40W/500W	15	#12	MANUAL	1
COMP-3	COMPOSTER TANK (FAN/HEATER)	MECH. RM. B-09	120V/1PH.	40W/500W	15	#12	MANUAL	1
COMP-4	COMPOSTER TANK (FAN/HEATER)	MECH. RM. B-09	120V/1PH.	40W/500W	15	#12	MANUAL	1
COMP-5	COMPOSTER TANK (FAN/HEATER)	MECH. RM. B-09	120V/1PH.	40W/500W	15	#12	MANUAL	1
F-1	EXHAUST FAN FOR NETWORK RM.	MECH RM. B-04	120V/1PH.	0.09HP	15	#12	MANUAL	1,3
F-2	RANGE HOOD	LUNCH RM. 108	120V/1PH.	1.8A	15	#12	MANUAL	1
F-3	EXHAUST FAN (RADON)	MECH RM. B-04	120V/1PH.	0.09HP	15	#12	MANUAL	1

- MOTOR SCHEDULE NOTES:
1. REFER TO MECHANICAL DRAWING & FOR WIRING & CONNECTION.
 2. MAGNETIC STARTER BY DIVISION 23.
 3. MANUAL STARTER BY DIVISION 23.
 4. INTERLOCK WITH AHU-1 & HRV-1 BY DIVISION 23.

EMERGENCY SIGN AND LIGHTING SCHEDULE					
TAG	DESCRIPTION	MANUFACTURER	CATALOG No.	VOLTS	BRANCH CIRCUIT
EBB-1	BATTERY UNIT W/2-LAMP	AIMLITE	EBST-12160	120V - 12V	BA25
EBB-2	BATTERY UNIT W/2-LAMP	AIMLITE	EBST-12160	120V - 12V	A67
	SIGN/BATTERY UNIT	AIMLITE	CSR1236	120V - 12V	BA25, A67
	RUNNING MAN SIGN	AIMLITE	RPST-U-M-WHT	120/347VAC	BA25, A67
	DOUBLE REMOTE LAMP	AIMLITE	RMMD-2-12-3.7L-WHT	12V	

ELECTRICAL	
SHEET No:	SHEET TITLE
E1	ELECTRICAL: ABBREVIATIONS, LEGENDS, SYMBOLS, SCHEDULES
E2	SITE PLAN: ELECTRICAL; SERVICES
E3	BASEMENT FLOOR PLAN: ELECTRICAL; POWER AND SYSTEMS
E4	BASEMENT REFLECTED CEILING PLAN: ELECTRICAL; LIGHTING
E5	MAIN FLOOR PLAN: ELECTRICAL; POWER AND SYSTEMS
E6	MAIN FLOOR REFLECTED CEILING PLAN: ELECTRICAL; LIGHTING
E7	ELECTRICAL: PANEL SCHEDULES
E8	ELECTRICAL: INTRUSION ALARM AND MONITORING SYSTEMS (REFERENCE USE ONLY)
ES1	ELECTRICAL: ELECTRICAL SITE PLAN (SERVICES)
ES2	ELECTRICAL: ELECTRICAL SINGLE LINE AND SPECIFICATION (SERVICES)

- NOTES:
1. THESE DRAWINGS SHALL NOT BE SCALED. CONSULT WITH CLIENT AND DESIGNER ON ANY CONCERNS.
 2. DIMENSIONS & UNITS SHOWN IN WHOLE NUMBERS ARE IN MILLIMETRES (mm).
 3. DIMENSIONS & UNITS SHOWN TO DECIMAL PLACES ARE IN METRES (M).
 4. ALSO REFER TO ELECTRICAL SPECIFICATIONS.
 5. SUBMISSION OF SITE MARKUPS, AS-BUILTS, OPERATING & MAINTENANCE MANUALS AND OTHER SUPPORTING DOCUMENTS TO CLIENT ARE MANDATORY AT THE COMPLETION OF THIS PROJECT.
 6. THE CONTRACTOR SHALL VISIT THE SITE AND ENSURE ALL DIMENSIONS, DATUM, AND DETAILED INFORMATION SHOWN ARE CORRECT.
 7. THE CONTRACTOR IS TO REVIEW AND COORDINATE ALL ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL OPENINGS THROUGH FLOORS, WALLS AND CEILINGS FOR DUCTS, PIPES & ELECTRICAL RISERS AND ALL OPENINGS NOT SHOWN ON DRAWINGS.
 8. ALL OPENINGS THROUGH FIRE ASSEMBLIES INCLUDING FLOORS AND CEILINGS ARE TO BE FIRE STOPPED AND SEALED WITH ULC APPROVED FIRE STOPPING TO MAINTAIN THE INTEGRITY OF THE FIRE SEPARATION, AND PROVIDE A SMOKE-TIGHT BARRIER.
 9. ALL PRODUCTS AND MATERIALS TO BE USED AND INSTALLED SHALL CONFORM WITH MANUFACTURER'S SPECIFICATIONS, APPLICABLE CODES AND AUTHORITY HAVING JURISDICTION.
 10. THE CONTRACTOR SHALL BE RESPONSIBLE TO PATCH AND MAKE GOOD ALL EXISTING CONSTRUCTION AFFECTED BY THE REMOVAL OF ALL ITEMS FORMING PART OF THE RENOVATION WORK.
 11. COMMERCIAL DUTY DUPLEX RECEPTACLES SHALL BE "DECORA" STYLE, WHITE & CSA APPROVED, CIVIL WHITE FACE PLATES MOUNTED 450mm CENTERLINE ABOVE FINISHED FLOOR OR OTHERWISE NOTED.
 12. LIGHT SWITCHES SHALL BE "DECORA" STYLE & MOUNTED 107mm CENTERLINE ABOVE FINISHED FLOOR OR OTHERWISE NOTED.
 13. PROVIDE DYNA LABELS ON ALL SWITCHES, PORTS & RECEPTACLES. PANEL SCHEDULE SHALL BE TYPED TO REFLECT AS-BUILT CONDITIONS & INSERTED TO INSIDE OF ASSOCIATED PANEL DOOR SLEEVE PROTECTOR.

0	ISSUED FOR CONSTRUCTION	DTA	2017 03.20
No.	REVISION/DESCRIPTION	BY	DATE



DRAWN	DATE	CHECKED	DESIGNED	DATE	APPROVED
	2016.11.07				

THE CITY OF WINNIPEG
 PLANNING, PROPERTY AND
 DEVELOPMENT DEPARTMENT
 MUNICIPAL ACCOMMODATIONS DIVISION
 3-65 GARRY STREET, R3C 4K4

PROJECT
 BRADY ROAD LANDFILL
 ADMINISTRATION BUILDING
 DEVELOPMENT FOR BRADY LANDFILL
 1777 BRADY ROAD

SHEET TITLE
 ELECTRICAL
 ABBREVIATIONS, LEGENDS, SYMBOLS,
 SCHEDULES

SCALE	PROJECT No:	SHEET No:
AS SHOWN	2015-037-02	E1