

| SYMBOL | DESCRIPTION   |
|--------|---|
|        | DRAWOUT AIR CIRCUIT BREAKER, LOW VOLTAGE  |
|        | CIRCUIT BREAKER, THERMAL MAGNETIC TRIP SHOWN, 3 POLE, UNO   |
|        | CIRCUIT BREAKER WITH CURRENT LIMITING FUSES, TRIP AND FUSE RATING INDICATED, 3 POLE, UNO  |
|        | FUSED SWITCH, SWITCH AND FUSE CURRENT RATING INDICATED, 3 POLE, UNO   |
|        | SWITCH, CURRENT RATING INDICATED, 3 POLE, UNO   |
|        | FUSE, CURRENT RATING AND QUANTITY INDICATED   |
|        | MAGNETIC STARTER WITH OVERLOAD, NEMA SIZE INDICATED, FVNR UNO   |
|        | ELECTRONIC STARTER/SPEED CONTROL<br>RVSS = REDUCED VOLTAGE SOFT STARTER<br>AFD = AC ADJUSTABLE FREQUENCY DRIVE<br>DC = DC ADJUSTABLE SPEED DRIVE<br>RVAT = REDUCED VOLTAGE AUTO TRANSFORMER TYPE<br>RVRT = REDUCED VOLTAGE REACTOR TYPE |
|        | CABLE OR BUS CONNECTION POINT   |
|        | CAPACITOR - KVAR INDICATED, 3 PHASE   |
|        | AC MOTOR, SQUIRREL CAGE INDUCTION - HORSEPOWER INDICATED  |
|        | UTILITY REVENUE METER   |
|        | GROUND  |
|        | 15 KVA<br>480-120/240V<br>1 PH<br>TRANSFORMER, SIZE, VOLTAGE RATINGS, AND PHASE INDICATED   |
|        | 480-120V<br>(3)<br>POTENTIAL TRANSFORMER, VOLTAGE RATING AND QUANTITY INDICATED   |
|        | 100:5<br>(3)<br>CURRENT TRANSFORMER, RATIO(100:5) AND QUANTITY INDICATED (3)  |
|        | CONNECTION POINT TO EQUIPMENT SPECIFIED IN OTHER DIVISIONS, RACEWAY, CONDUCTOR AND CONNECTION IN THIS DIVISION  |
|        | TRANSIENT VOLTAGE SURGE SUPPRESSOR  |
|        | DELTA CONNECTION  |
|        | WYE GROUNDED CONNECTION, SOLID GROUND   |
|        | WYE NEUTRAL GROUND RESISTOR OR IMPEDANCE CONNECTION   |

- NOTES:
- THESE ARE STANDARD LEGEND SHEETS. SOME SYMBOLS AND ABBREVIATIONS MAY APPEAR ON THE LEGEND AND NOT ON THE DRAWINGS.
  - FOR ADDITIONAL ABBREVIATIONS OF OTHER DIVISIONS (HVAC, MECHANICAL, AND STRUCTURAL/ARCHITECTURAL) SEE OTHER LEGENDS.

| SYMBOL | DESCRIPTION  |
|--------|--|
|        | PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY OPEN   |
|        | PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY CLOSED   |
|        | PUSH BUTTON SWITCH, MAINTAINED CONTACTS WITH MECHANICAL INTERLOCK  |
|        | 3 POSITION SELECTOR SWITCH MAINTAINED CONTACT  |
|        | SELECTOR SWITCH - MAINTAINED CONTACT - CHART IDENTIFIES OPERATION WHEN NEEDED FOR CLARITY:   |
|        | TOGGLE SWITCH, ON-OFF TYPE   |
|        | SELECTOR SWITCH, ON-OFF TYPE   |
|        | MUSHROOM HEAD PUSHBUTTON SWITCH, PAD LOCKABLE  |
|        | INDICATING LIGHT, PUSH-TO-TEST, LETTER INDICATES COLOR   |
|        | INDICATING LIGHT - LETTER INDICATES COLOR<br>A - AMBER      G - GREEN      S - STROBE<br>B - BLUE      R - RED<br>C - CLEAR      W - WHITE |
|        | ELAPSED TIME METER   |
|        | MOTOR STARTER CONTACTOR COIL   |
|        | CONTROL RELAY, X INDICATES NUMERICAL ORDER IN CIRCUIT  |
|        | CONTACT - NORMALLY OPEN  |
|        | CONTACT - NORMALLY CLOSED  |
|        | REMOTE DEVICE  |
|        | TERMINAL BLOCK FOR FIELD WIRING IN MCC   |
|        | TERMINAL BLOCK, INTERNAL   |
|        | TERMINAL BLOCK IN PLC (RPU)  |
|        | TERMINAL BLOCK IN BAS (BUILDING AUTOMATION PANEL)  |
|        | FUSED TERMINAL BLOCK   |
|        | FUSE, RATING INDICATED   |
|        | TRANSFORMER, CONTROL POWER   |

| SYMBOL | DESCRIPTION  |
|--------|--|
|        | CAPACITOR  |
|        | BATTERY  |
|        | LIMIT SWITCH, NORMALLY OPEN, CLOSSES AT END OF TRAVEL      |
|        | LIMIT SWITCH, NORMALLY CLOSED, OPENS AT END OF TRAVEL      |
|        | TEMPERATURE SWITCH, OPENS ON TEMPERATURE RISE              |
|        | TEMPERATURE SWITCH, CLOSSES ON TEMPERATURE RISE            |
|        | FLOAT SWITCH, NORMALLY OPEN, CLOSSES ON DESCENDING LEVEL   |
|        | FLOAT SWITCH, NORMALLY OPEN, CLOSSES ON RISING LEVEL       |
|        | PRESSURE SWITCH, NORMALLY CLOSED, OPENS ON RISING PRESSURE |
|        | PRESSURE SWITCH, NORMALLY OPEN, CLOSSES ON RISING PRESSURE |
|        | FLOW SWITCH, CLOSSES ON INCREASED FLOW                     |
|        | FLOW SWITCH, OPENS ON INCREASED FLOW                       |
|        | NEUTRAL GROUND CURRENT LIMITING RESISTOR                   |
|        | MULTICONDUCTOR SHIELDED CABLE                              |
|        | DUPLEX RECEPTACLE  |

**APECM**  
Certificate of Authorization  
CH2M HILL Canada Ltd.  
No. 1441 Date: January 25, 2013

|  |              |
|--|--------------|
| B.M. ELEV.                               |              |
| CONSTRUCTION COMPLETION DATE: YYYY MM DD |              |
| DESIGNED BY                              | LL           |
| CHECKED BY                               | WT           |
| DRAWN BY                                 | JN           |
| APPROVED BY                              | BW           |
| SCALE:                                   | NTS          |
| HORIZONTAL                               |              |
| VERTICAL                                 |              |
| ISSUED FOR CONSTRUCTION                  | 13/01/25 JBC |
| NO.                                      | REVISIONS    |
| DATE                                     | BY           |
| DATE                                     | 2013 01 25   |
| DATE                                     |              |

|                         |              |
|-------------------------|--------------|
| <b>CH2MHILL</b>         |              |
| DESIGNED BY             | LL           |
| CHECKED BY              | WT           |
| DRAWN BY                | JN           |
| APPROVED BY             | BW           |
| SCALE:                  | NTS          |
| HORIZONTAL              |              |
| VERTICAL                |              |
| ISSUED FOR CONSTRUCTION | 13/01/25 JBC |
| NO.                     | REVISIONS    |
| DATE                    | 2013 01 25   |
| DATE                    |              |

ENGINEER'S SEAL  
L.D. WATSON  
24278  
JAN 25 2013  
CONSULTANT DRAWING NUMBER  
E-001

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT  
ENGINEERING DIVISION

**Winnipeg**

BRADY ROAD RESOURCE MANAGEMENT FACILITY  
LEAF AND YARD WASTE AND  
PILOT BIOSOLIDS COMPOSTING

ELECTRICAL - LEGEND  
SHEET 1 OF 3

SHEET 36 OF 45  
CITY DRAWING NUMBER  
1-0400B-E0001-001-00