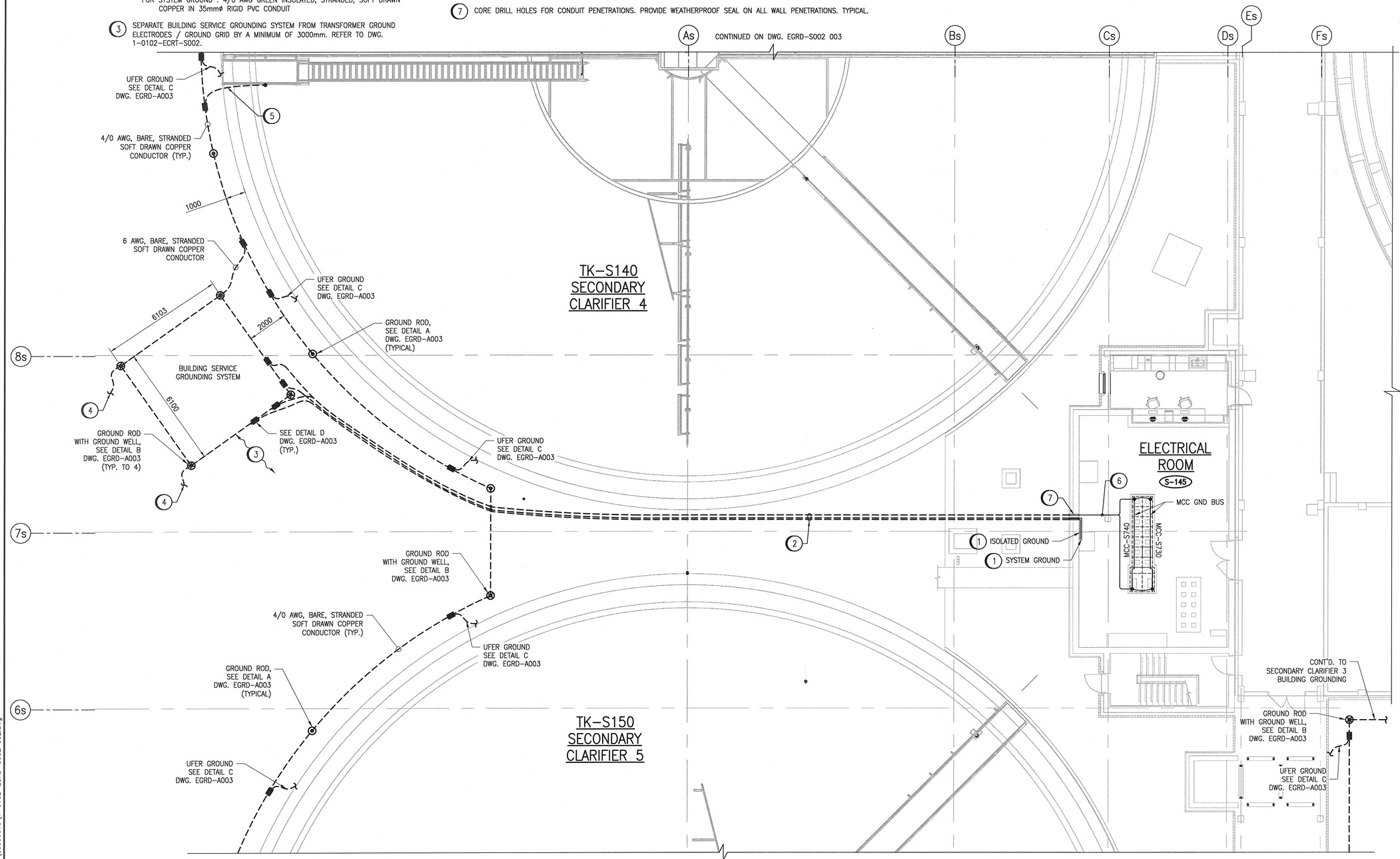
A1 SIZE – 594mm x 841mm

SPECIFIC NOTES:

1. ISOLATED GROUND CONDUCTOR TO BE ROUTED ON THE WALL AT 3000mm ABOVE FLOOR AND SYSTEM GROUND AT 2700mm ABOVE THE FLOOR. FOR GROUNDING CONNECTION TO EQUIPMENT, REFER TO DWG. 1–0102–EGRD–S001.
2. GROUNDING CONDUCTORS ROUTED BELOW GRADE FROM ELECTRICAL ROOM TO BUILDING SERVICE GROUNDING SYSTEM:
   - FOR MCC GROUND : 2 RUNS OF 4/0 AWG GREEN INSULATED, STRANDED, SOFT DRAWN COPPER CONDUCTOR IN 53mmø RIGID PVC CONDUIT
   - FOR ISOLATED GROUND : 4/0 AWG GREEN/YELLOW STRIPES INSULATED, STRANDED, SOFT DRAWN COPPER IN 35mmø RIGID PVC CONDUIT
   - FOR SYSTEM GROUND : 4/0 AWG GREEN INSULATED, STRANDED, SOFT DRAWN COPPER IN 35mmø RIGID PVC CONDUIT
3. SEPARATE BUILDING SERVICE GROUNDING SYSTEM FROM TRANSFORMER GROUND ELECTRODES / GROUND GRID BY A MINIMUM OF 3000mm. REFER TO DWG. 1–0102–ECRT–S002.
4. CONNECT BUILDING SERVICE GROUNDING SYSTEM (USING 4/0 AWG, BARE, STRANDED SOFT DRAWN COPPER CONDUCTOR) TO THE TRANSFORMER GROUND ELECTRODES / GROUND GRID. REFER TO DWG. 1–0102–ECRT–S002.
5. PROVIDE 2/0 AWG, GREEN INSULATED, STRANDED, BONDING CONDUCTOR FROM THE WALKWAY BRIDGE METAL FRAMES TO THE GROUNDING GRID. ALL EXPOSED CONNECTIONS SHALL BE PAINTED WITH GLYPTAL PAINT TO PROVIDE PROTECTION FROM CORROSION.
6. CONNECT THE MCC GROUND BUSES TO THE BUILDING SERVICE GROUNDING SYSTEM. PROVIDE 2 RUNS OF 4/0 AWG GREEN INSULATED, STRANDED, SOFT DRAWN COPPER CONDUCTOR RUN IN 53mmø RIGID ALUMINUM CONDUIT (FOR INTERIOR) AND TRANSITION TO RIGID PVC CONDUIT (FOR EXTERIOR ROUTING).
7. CORE DRILL HOLES FOR CONDUIT PENETRATIONS. PROVIDE WEATHERPROOF SEAL ON ALL WALL PENETRATIONS. TYPICAL.

GENERAL NOTES:

1. REFER REFER TO DWG. 1–0102–EGRD–S002 001 FOR GROUNDING LEGEND AND GENERAL NOTES.



PARTIAL GROUND FLOOR PLAN

SCALE: 1 : 100

REFERENCE DRAWINGS	DESCRIPTION
1–0102–EGRD–A003	GROUNDING DETAILS

APEGM Certificate of Authorization
SNC-Lavalin Inc.
No. 4489

NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR TENDER – B.O. 899–2015	01/2016	SLJ	DEB

CH2MHILL. SNC·LAVALIN KGS GROUP

DESIGNED BY: S. JUGANAS	CHECKED BY: D. BECKER
DRAWN BY: S. JUGANAS	APPROVED BY: E. RYCZKOWSKI
SCALE: 1:100	ISSUED FOR CONSTRUCTION BY: T. TURZAK
DATE: 2015/12/02	DATE: 2016/01/29
CONSULTANT NO.: 474248	

ENGINEER'S SEAL
PROVINCE OF MANITOBA
E. M. RYCZKOWSKI
Member 4771
REGISTERED PROFESSIONAL ENGINEER
2016/01/27

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE
SEWPCC UPGRADING/EXPANSION PROJECT
ELECTRICAL – GROUNDING LAYOUT
SECONDARY CLARIFIERS 4 AND 5
GROUND FLOOR PLAN

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1–0102–EGRD–S002	002	00	A1

LAST SAVE: 2016/01/27 – 11:47am
PATH: C:\pw_workdir\ch2mhill_wbg\mp0067t4\d0356519\1–0102–EGRD–S002 002.dwg

PLOT DATE: Jan 27, 2016 – 11:47am

FILE NAME: 1–0102–EGRD–S002 002.dwg