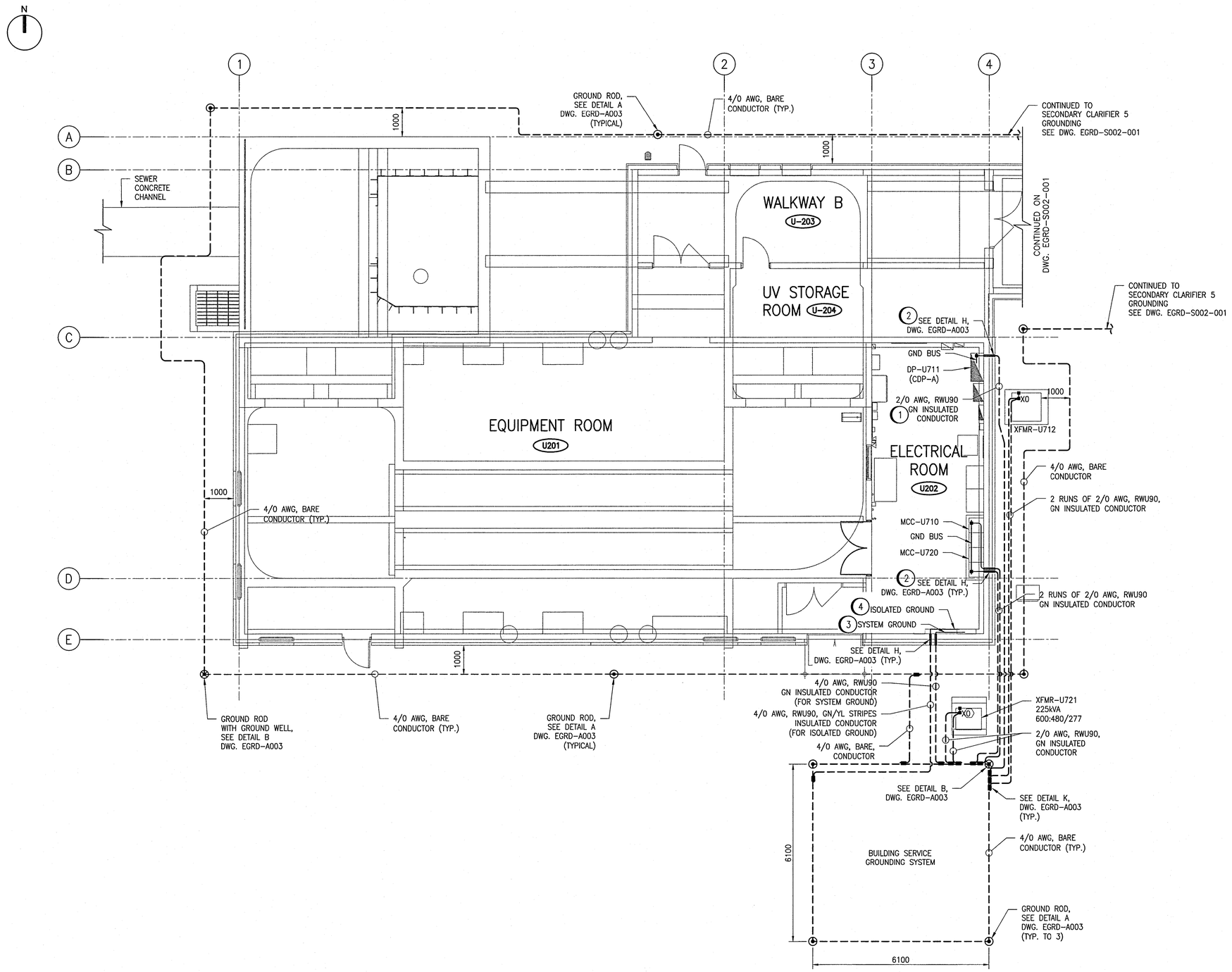
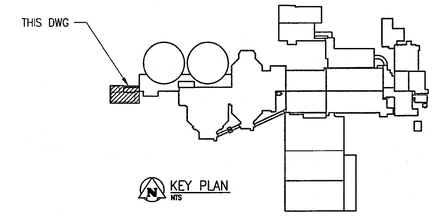
A1 SIZE – 594mm x 841mm



GROUND FLOOR PLAN

SCALE: 1 : 75



GENERAL NOTES:

1. CONNECTIONS TO SYSTEM GROUND ELECTRODES SHALL BE EXOTHERMIC WELD IN ACCORDANCE WITH CEC 10–806.
2. ALL CONDUCTORS TO BE STRANDED, SOFT DRAWN, COPPER.
3. PERIMETER BURIED GROUND WIRING SHALL BE LAID IN UNDISTURBED NATIVE SOIL OR MECHANICALLY COMPACTED SOIL. GROUND RODS SHALL BE INSTALLED IN UNDISTURBED NATIVE SOIL OR MECHANICALLY COMPACTED SOIL.
3. ALL GROUNDING CONDUCTORS SHALL BE STRANDED, SOFT DRAWN, COPPER, UNLESS NOTED OTHERWISE.
4. ALL CABLING SHALL BE PHYSICALLY PROTECTED BY DIRECT BURIAL OR BY SURFACE RUN CONDUIT. EXPOSED GROUND CABLES ARE NOT ACCEPTABLE.
5. GROUND RODS, AND PERIMETER GROUND CABLING IS SHOWN AT APPROXIMATE LOCATIONS (ON THIS DRAWING). SURVEY, COORDINATE AND CONFIRM ANY BURIED SYSTEMS. AVOID DAMAGE TO EXISTING SYSTEMS.
6. REFER TO DWG. EGRD–UD01 (DEMOLITION DRAWIING) FOR REMOVAL NOTES ON GROUNDING ELECTRODES AND CONDUCTORS (INSTALLED IN CONTRACT C1).

LEGEND:

- GROUNDING CONDUCTOR (ABOVE GRADE / INSIDE OF BUILDING)
- GROUNDING CONDUCTOR (BELOW GRADE)
- GROUND ROD WITH GROUND WELL
- GROUND ROD
- PARALLEL CONNECTION (EXOTHERMIC WELD)
- EQUIPMENT GROUND CONNECTION

SPECIFIC NOTES:

1. PROVIDE GROUND CONNECTION FROM DP–U711 (CDP–A) TO BUILDING SERVICE GROUNDING SYSTEM, TO USE WHILE DP–U711 REMAINS USED AS THE MAIN SERVICE DISTRIBUTION IN THE U.V. BUILDING. WHEN DP–U711 IS BACK FED FROM MCC–U710, DISCONNECT GROUND CONNECTION FROM BUILDING SERVICE GROUNDING SYSTEM THEN CONNECT TO MCC–U710 GROUND BUS.
2. CONDUIT TO PENETRATE INTO THE BUILDING AT APPROXIMATELY 2700mm ABOVE FLOOR. PROVIDE WEATHERPROOF SEAL FOR ALL PENETRATIONS.
3. SYSTEM GROUND CONDUCTOR TO BE MOUNTED ON THE WALL AT APPROXIMATELY 2500mm ABOVE FLOOR. SEE DETAIL A AND B ON DWG. EGRD–U002 FOR EQUIPMENT GROUNDING CONNECTION.
4. ISOLATED GROUND CONDUCTOR TO BE MOUNTED ON THE WALL AT APPROXIMATELY 2700mm ABOVE FLOOR. SEE DETAIL A AND B ON DWG. EGRD–U002 FOR EQUIPMENT GROUNDING CONNECTION.

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

1:75 750 0 1500 3000

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

NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR CONSTRUCTION – 976–2016	2017/04/05	SLJ	DEB

CH2MHILL. SNC·LAVALIN KGS GROUP

DESIGNED BY: S. JUGANAS	CHECKED BY: E. RYCZKOWSKI
DRAWN BY: S. JUGANAS	APPROVED BY: D. BECKER
SCALE: 1:75	ISSUED FOR CONSTRUCTION BY: J. SHUMKA
DATE: 2015/12/24	DATE: 2017/04/05
CONSULTANT NO.: 474248	

ENGINEER'S SEAL: PROVINCE OF MANITOBA, D.E. BECKER, Member 23646, REGISTERED PROFESSIONAL ENGINEER, April 2017

Winnipeg — THE CITY OF WINNIPEG, WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE
SEWPCC UPGRADING/EXPANSION PROJECT
ELECTRICAL – GROUNDING LAYOUT
UV DISINFECTION BUILDING
GROUND FLOOR PLAN

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1–0102–EGRD–U001	001	00	A1

LAST SAVE: 2017/03/30 – 1:38pm
PATH: P:\u DRAWINGS\1–0102–EGRD–U001.dwg

PLOT DATE: Mar 30, 2017 – 1:38pm

FILE NAME: 1–0102–EGRD–U001.dwg