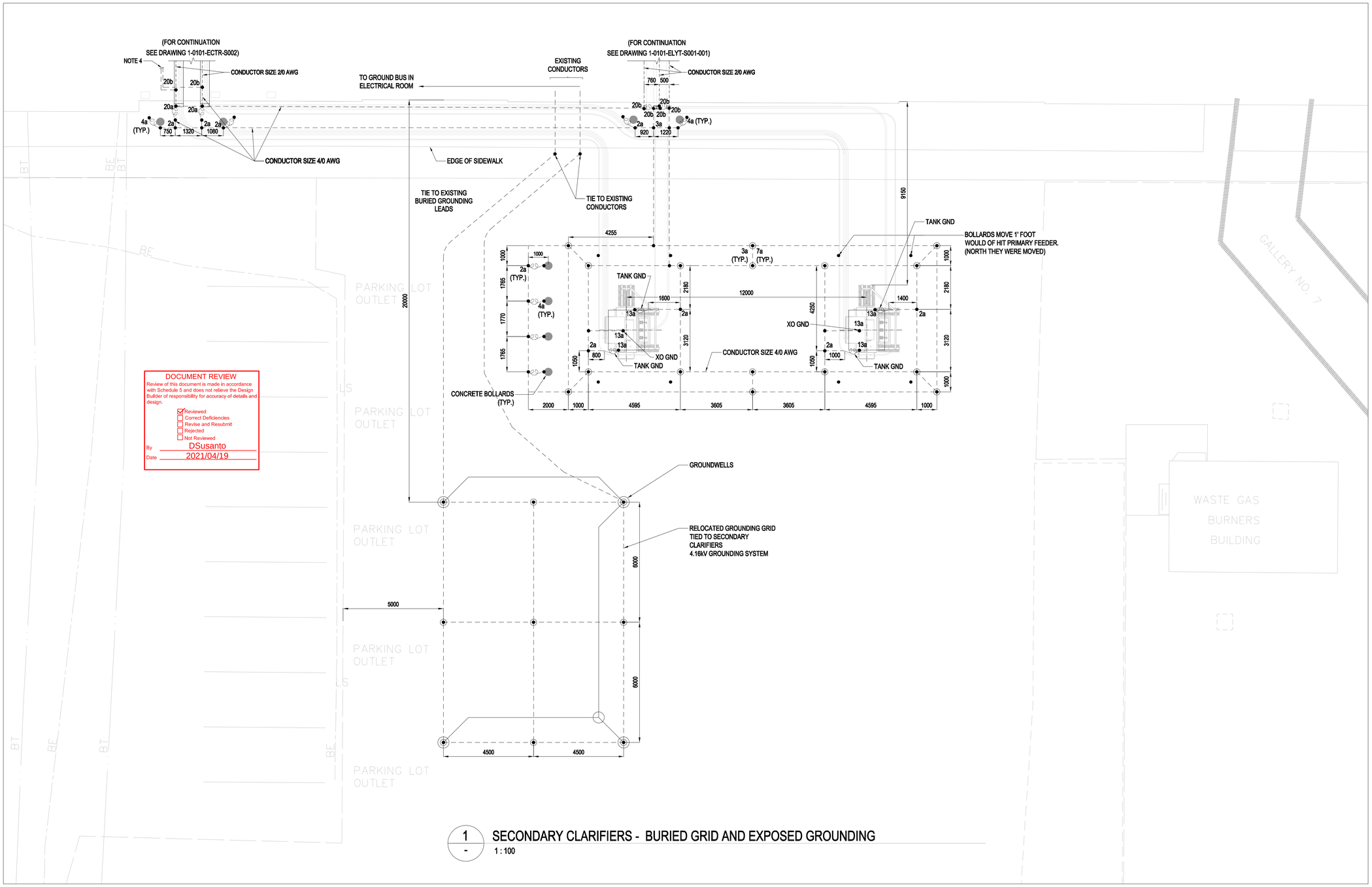

1 - SECONDARY CLARIFIERS - BURIED GRID AND EXPOSED GROUNDING

1 : 100

DOCUMENT REVIEW

Review of this document is made in accordance with Schedule 5 and does not relieve the Design Builder of responsibility for accuracy of details and design.

- [x] Reviewed
- [ ] Correct Deficiencies
- [ ] Revise and Resubmit
- [ ] Rejected
- [ ] Not Reviewed

By DSusanto

Date 2021/04/19

NOTES:

1. THE GROUNDING CONDUCTORS SHALL BE BURIED AT LEAST 0.5m BELOW THE FINISHED GRADE LEVEL.
2. THE GROUNDING GRID OF THE SUBSTATION SHALL BE EXTENDED BY 1m PAST THE PERIMETER OF THE BOLLARDS.
3. ALL GROUND RODS SHALL BE 3m LONG, 20mm DIA. AND SHALL BE DRIVEN AT LEAST 0.5m BELOW FINISHED GRADE.
4. PROVIDE TWO #4/0 AWG CONDUCTORS AND TIE THE NEW TRANSFORMER GRID TO THE EXISTING GROUND BUS BAR IN THE ELECTRICAL ROOM, USING NEMA 2-HOLE LUGS. FOLLOW EXISTING GROUNDING CONDUCTOR ROUTING TO THE ELECTRICAL ROOM. WHEN GOING THROUGH A FLOOR OR WALL PENETRATION, FIREPROOFING MATERIAL SHALL BE REPAIRED. SEE REF. DRAWING 1-0101S-E0004-001.

LEGEND:

- BURIED GROUNDING CONDUCTOR AND ROD
- T CONNECTION
- GROUND CONDUCTOR 1 m LONG COILED UP FOR FUTURE CONNECTION
- 4/0 AWG GROUND CONDUCTOR
- 2/0 AWG GROUND CONDUCTOR

AS BUILT DRAWING

NOTICE:
AS-CONSTRUCTED DIMENSIONS, MEASUREMENTS AND OTHER DETAILS CONTAINED IN THIS AS-BUILT DRAWING HAVE BEEN OBTAINED BY AECOM CANADA LTD. ("AECOM") FROM VARIOUS SOURCES. SUCH INFORMATION REPRESENTS THE BEST INFORMATION AVAILABLE TO AECOM AT THE TIME OF PREPARATION OF THIS AS-BUILT DRAWING. AECOM DOES NOT IN ANY WAY REPRESENT OR WARRANT THAT SUCH INFORMATION IS ACCURATE AND ASSUMES NO RESPONSIBILITY FOR ANY ERRORS OR OMISSIONS CONTAINED THEREIN.

TN N

REFERENCE DRAWING(S): 1-0101-EDTL-E003, E004, 1-0101-ELYT-S001-001

NO.	REVISIONS	DATE	DESIGN	CHECK
02	ISSUED FOR AS-BUILT DRAWING	2021-02-02	J.P.D.	B.A.R.
01	XFMR GND DETAILS AND NEW GRID ADDED	2019-09-12	J.P.D.	B.A.R.
00	ISSUED FOR CONSTRUCTION	2019-004-01	L.F.	J.P.D.

AECOM

DESIGNED BY: L. FARNESI
CHECKED BY: J.P. DUFRESNE / B.A. ROY
DRAWN BY: A. MORIELLI
APPROVED BY: E. SCHRAML
SCALE: 1:100
RELEASED FOR CONSTRUCTION BY:
DATE: 2018-07-18
DATE:
CONSULTANT NO.:

ENGINEER'S SEAL

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

NORTH END SEWAGE TREATMENT PLANT

SECONDARY CLARIFIER
12.47kV/4.16kV TRANSFORMER
GROUNDING

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0101-EGRD-S001		02	A1

A1 SIZE - 594mm x 841mm

LAST SAVE: 2021/02/13 4:02 PM

PATH: L:\Legacy\CAWPG1FP001\Data\Projects\60576900\900-CAD_GIS\910-CAD\20-SHEETS\E\Montreal CAD 2020-05-27\SECONDARY CLARIFIERS\REVISION 01\1-0101-EGRD-S001_R01.dwg