

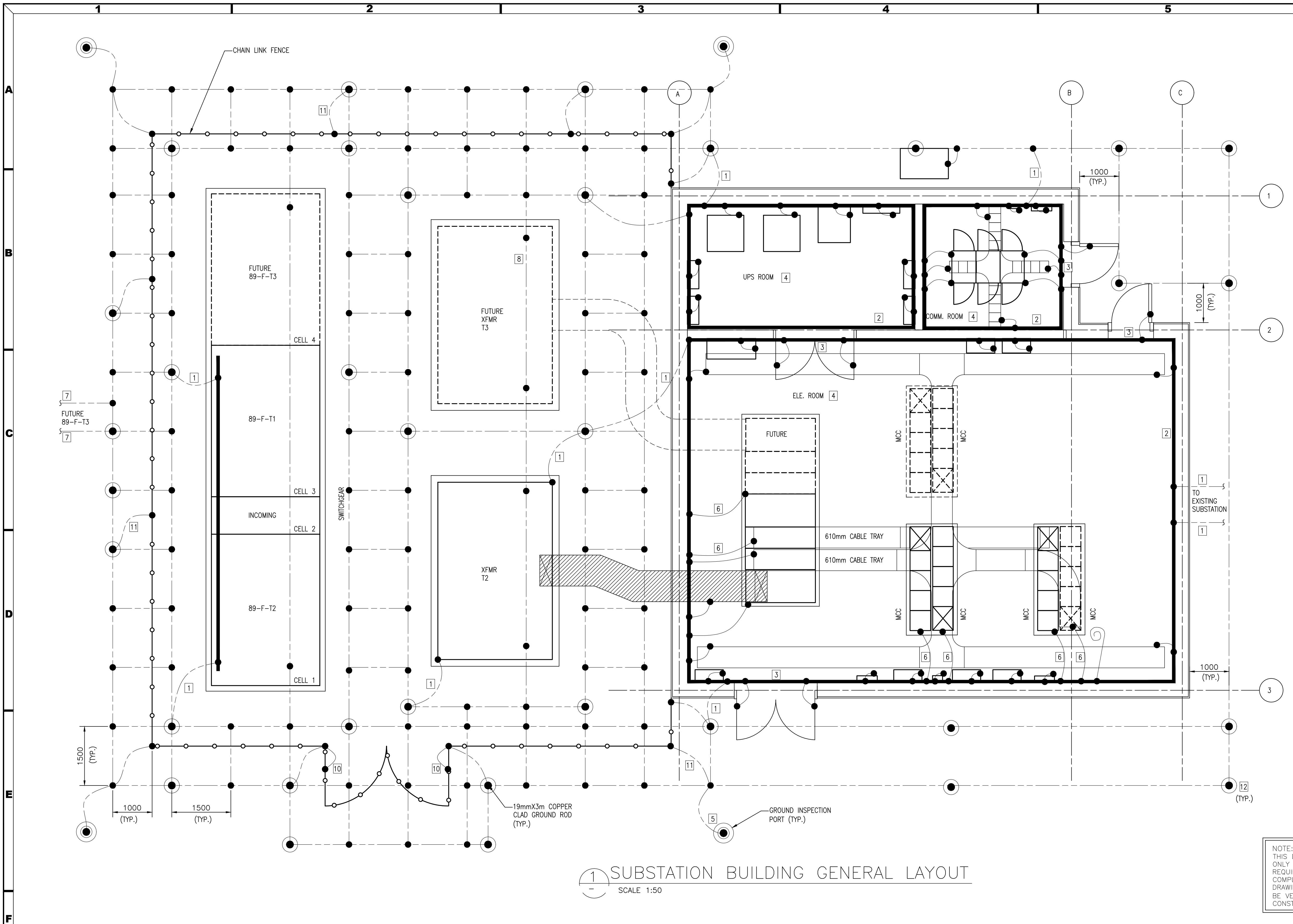
ALL DIMENSIONS SHOWN ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED.

GENERAL NOTES:
1. REFER TO ELECTRIFICATION STANDARDS AND SPECIFICATIONS FOR GROUNDING AND BONDING, EM/EMF WITHSTAND REQUIREMENTS, CABLING REQUIREMENTS.

- GROUNDING NOTES:
- #2/0 AWG INSULATED STRANDED COPPER GROUND WIRE IN 27mm CONDUIT WHERE EXPOSED TO DAMAGE.
 - 6mm X 50mm GROUND BUS ON INSULATED STANDOFFS 300mm AFF. AT PERIMETER WALL OR AS REQUIRED TO CLEAR OBSTRUCTIONS (TYP.)
 - INSTALL GROUNDING BUS AT HEIGHT OF 300mm AFF. THE GROUND BUS AT THE DOOR(S) SHALL GO AROUND ABOVE THE DOORS (TYP.)
 - ALL GROUNDING AND BONDING SHALL BE ACCORDANCE WITH THE DRM AND THE LATEST EDITION OF ONTARIO ELECTRICAL SAFETY CODE AND APPLICABLE STANDARDS.
 - CONDUCT ELECTRODE RESISTANCE TEST AND GROUND GRID CONTINUITY AND RESISTANCE TESTS USING METHODS ACCEPTABLE TO THE CONSULTANT AND AUTHORITIES HAVING JURISDICTION I.E. ELECTRODE RESISTANCE TESTING TO COMPLY WITH IEEE THREE POINT FALL OF POTENTIAL METHOD, OR OTHER ACCEPTED METHODS. PERFORM TESTS PRIOR TO ENERGIZING THE ELECTRICAL SYSTEM.
 - PROVIDE #2/0 AWG INSULATED EQUIPMENT BONDING CONDUCTOR TO ALL METAL OBJECTS IN ROOM INCLUDING MECHANICAL EQUIPMENT (TYP.)
 - #2/0 AWG BARE COPPER CONDUCTOR ALONG TOP OF DUCTBANK. (REFER TO DUCTBANK ROUTING LAYOUT)
 - PROVIDE #2/0 AWG COPPER CONDUCTOR WAVED THROUGH REBAR. PROVIDE COMPRESSION CONNECTIONS TO REBAR AT 2 LOCATIONS, ONE AT EACH END.
 - ADDITIONAL GROUND RODS MAY BE REQUIRED. GROUND TESTING REQUIRED TO ESTABLISH GROUND STUDY AND NUMBER OF RODS TO ENSURE GROUND SAFE AND RESISTANCE BELOW 5 OHMS.
 - SEE GATE GROUNDING DETAIL.
 - SEE FENCE GROUNDING DETAIL.
 - ALL GROUND RODS SHALL BE 19mmX3m COPPER CLAD STEEL.

- LEGEND:
- COMPRESSION CONNECTOR
 - 19mmX3m COPPER CLAD GROUND ROD
 - GROUND INSPECTION PORT
 - #2/0 AWG BARE COPPER CONDUCTOR

NOTE:
THIS DRAWING IS PROVIDED FOR INSTRUCTIONAL DESIGN PURPOSES ONLY BASED ON METROLINX GO TRANSIT DESIGN GUIDELINES AND REQUIREMENTS. THE CONSULTANT SHALL VERIFY FOR LOCAL CODE COMPLIANCE, EXISTING SITE CONDITIONS AND INTER DISCIPLINARY DRAWING COORDINATION. ALL DIMENSIONS AND SPECIFICATIONS SHOULD BE VERIFIED BY CONSULTANT AND/OR CONTRACTOR BEFORE ACTUAL CONSTRUCTION BEGINS.



1 SUBSTATION BUILDING GENERAL LAYOUT
SCALE 1:50

GO TRANSIT PROJECT NO. XXXXX

AutoCAD drawing: WSP-043.dwg Aug 15/18 12:30pm

REFERENCE DRAWINGS		ISSUE		REVISIONS		
DWG. NO.	TITLE	REV.	DATE	ISSUED FOR	REV.	DATE

DRAWN BY:	DESIGNED BY:
CHECKED BY:	APPROVED BY:
SCALE: 1:50 FULL SIZE ONLY	



XXXXXX WAYSIDE POWER SUBSTATION BUILDING GROUNDING LAYOUT			
CONTRACT NO. XXXXXXXXXXXX	DWG. NO. WSP-043	REV. 0	SHEET XX