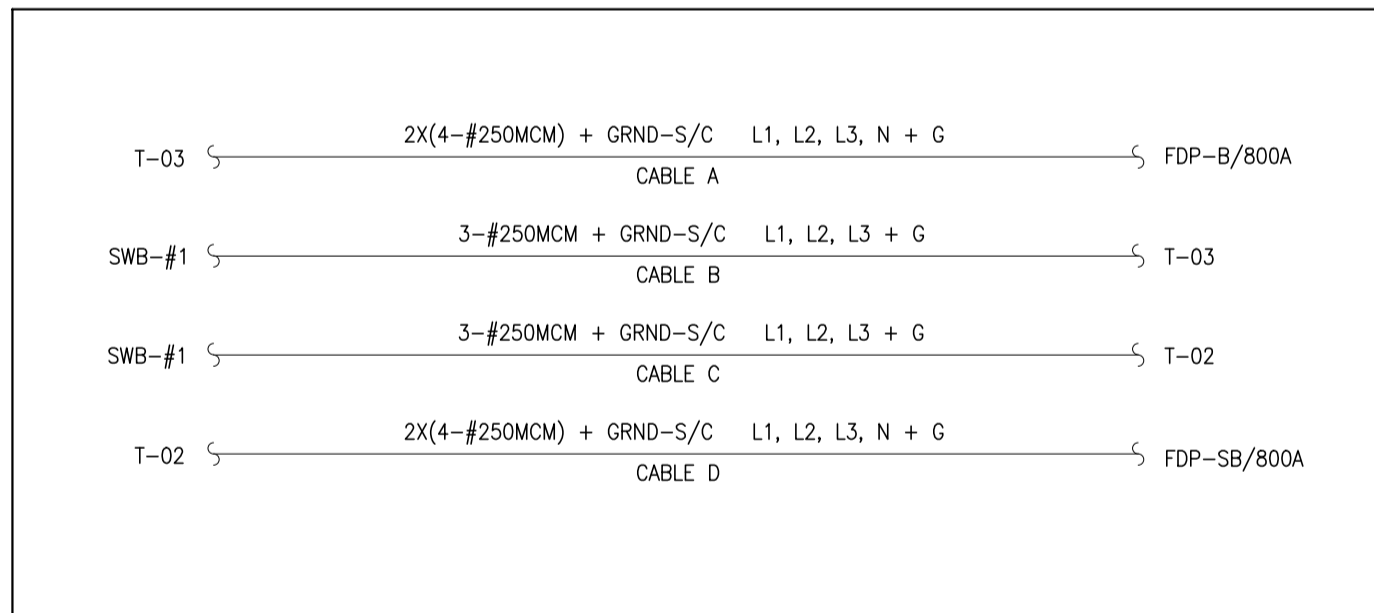
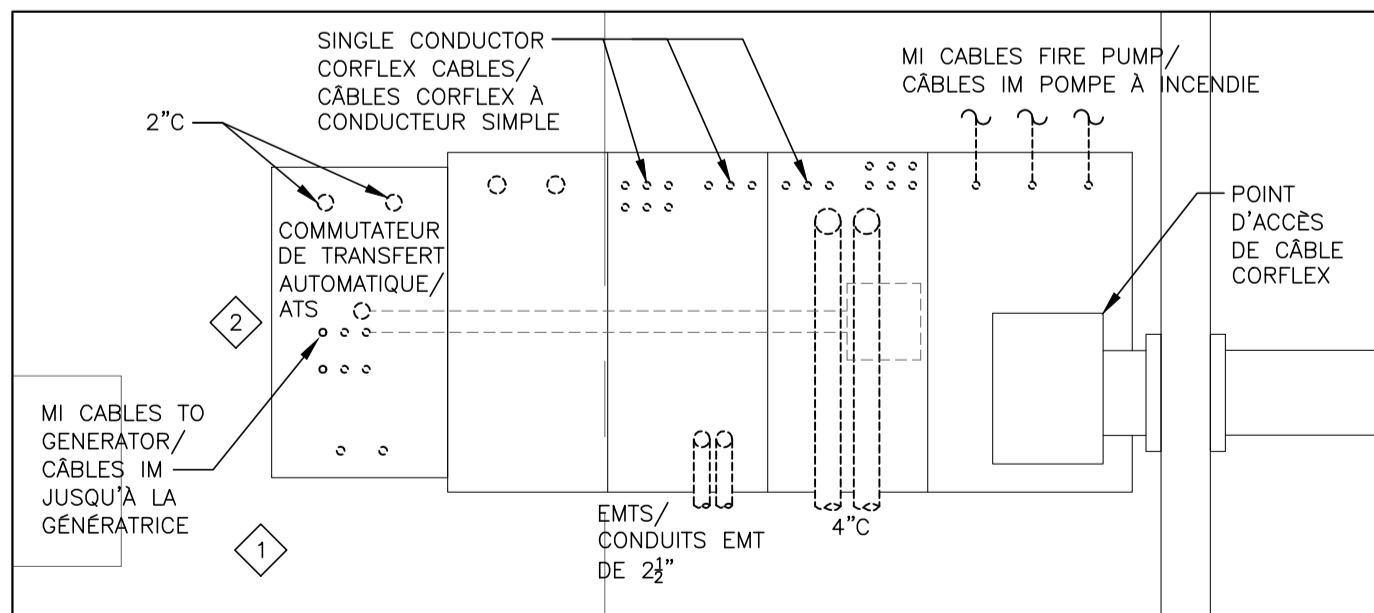


1 SUB-BASEMENT NEW ELECTRICAL LAYOUT
SCALE 1 : 150



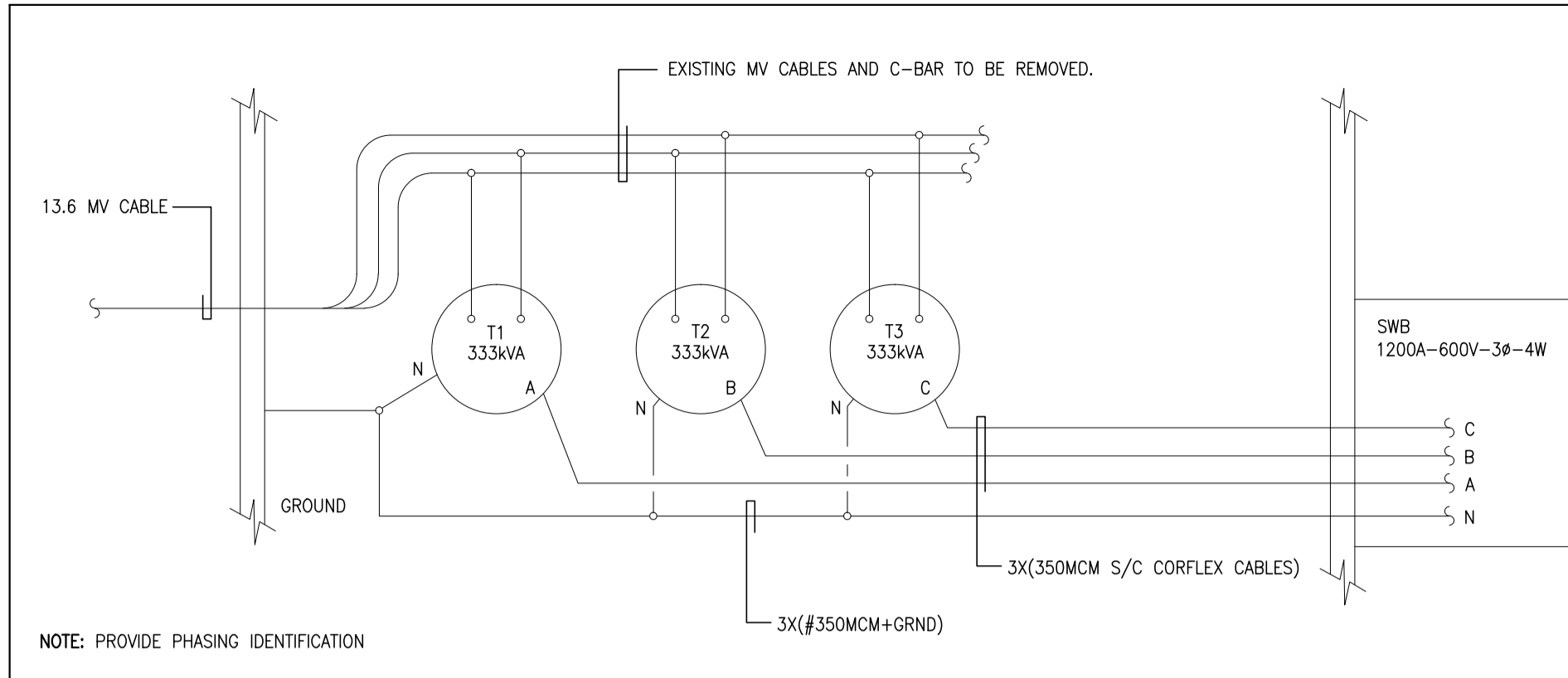
2 ELECTRICAL CABLES
N.T.S.



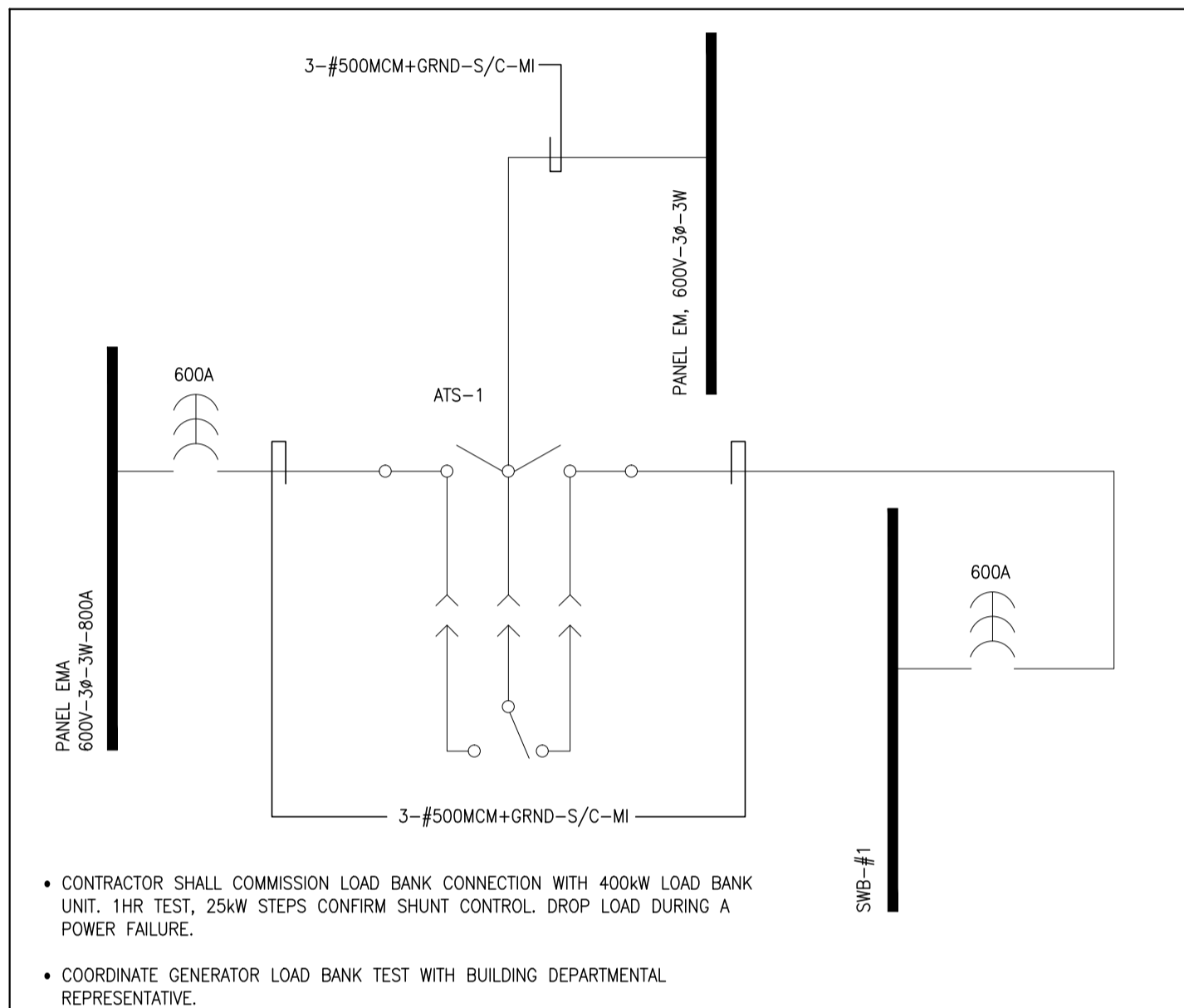
4 EXISTING MAIN SECONDARY SWITCHBOARD DETAIL
SCALE 1 : 30

DRAWING NOTES:

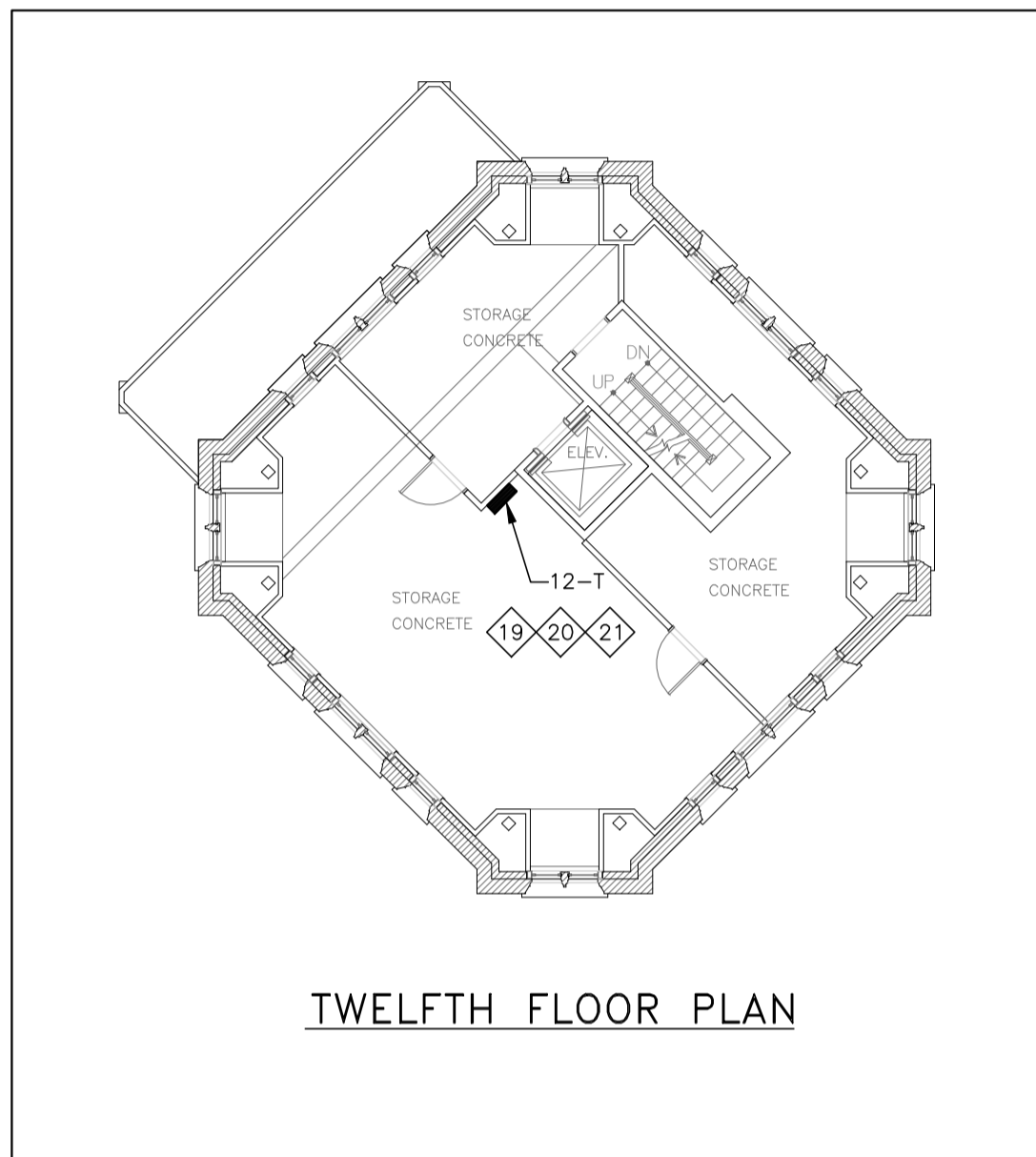
- EXISTING CONDUITS AND CABLES SHALL BE REMOVED AND RELOCATED TO NEW SWB#1.
- ATS#1 RELOCATED TO ADJACENT ROOM.



3 HYDRO VAULT TRANSFORMER - SECONDARY CABLE LAYOUT
N.T.S.



5 ATS #1 RELOCATED TO ADJACENT ROOM
N.T.S.



6 TOWER FLOOR PLAN
SCALE 1 : 150

DRAWING NOTES:

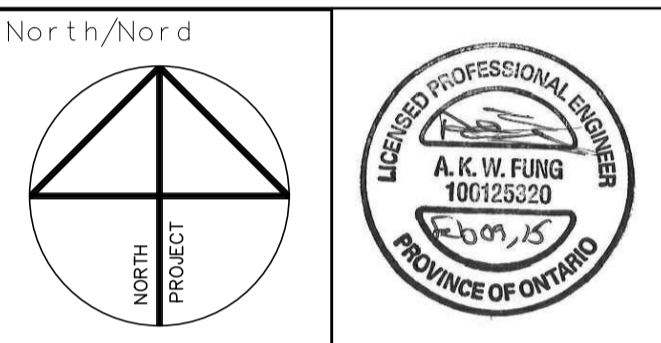
- PROVIDE 600V/4.16kV STEP-UP TRANSFORMER, CONNECT EXISTING 4.1kV TO SECONDARY SIDE.
- INSTALL 600V TRANSFORMER BELOW 4.1kV FEEDER TO OUTSIDE POLE LINE.
- EXISTING 4.16kV FEEDER TO OUTSIDE POLE LINE SHALL BE RE-USED AND TERMINATED AT 225kVA - 4.16kV TRANSFORMER.
- FEED 600V DISCONNECT SWITCH FROM MAIN SWITCH BOARD SWB-#1.
- SWB-#1 1200A-600V-3Ø-4W
- REMOVE 3000A BUS DUCT AND REPLACE WITH TYPE SINGLE CONDUCTOR CORFLEX CABLES RATED 1200A SERVICE.
- NEW 225kVA TRANSFORMERS T-02, T-03 - 600V - 120/208V INSTALLED IN NEW LOCATION.
- RE-ROUTE EXISTING BRANCH-CIRCUITS TO NEW PANELS COMPLETE WITH IDENTIFICATION.
- PROVIDE U-CHANNEL SUPPORT RACK FOR CORFLEX CABLES AT EVERY 2'-6".
- INSTALL EXISTING ATS#1 IN NEW LOCATION AND CONNECT NEW EMERGENCY, NORMAL AND LOADSIDE FEEDERS.
- EXISTING 1/2" ABOVE DOOR SHALL BE RELOCATED TO CEILING TO MAKE ROOM FOR HVAC DUCT. PROVIDE JUNCTION BOX FOR FA CONDUIT, 120V CONDUIT FOR UNIT HEATER.
- REMOVE DOOR CONTACTS FROM EXISTING VAULT DOOR. COORDINATE WITH BUILDING SECURITY.
- NEW NP FEED FROM 1-SB, 200A-4-#3/0+GRND-2" C
- NEW RELOCATED PANEL NP AND NP1, PROVIDE JUNCTION BOX TO EXTEND CIRCUITS AND FEEDERS. NP-NP1 SHALL BE AS ONE PANEL.
- LOAD BANK QUICK CONNECT TERMINATION BOX, REFER TO 5/E16
- SWB-#1 SHALL BE REMOVED AND REPLACED UPON COMPLETION OF PHASE 1 AND 2.
- CO-ORDINATE SWB-#1 WITH HYDRO AND REFER TO HYDRO DRAWINGS, SPECIFICATIONS AND DETAILS.
- PROVIDE AND INSTALL NEW ATS#3 COORDINATE REINSTATEMENT OF CONNECTIONS TO ELEVATOR CONTROL SYSTEM WITH ON SITE ELEVATOR TECHNICIAN.
- ELECTRICIAN SHALL REPLACE EXISTING BRANCH CIRCUIT PANELS WITH NEW 120/208V-3Ø-4W 10KA BREAKER PANELS.
- EXISTING BRANCH CIRCUITS CONDUIT AND CABLES SHALL BE REMOVED AND RE-INSTALLED IN NEW PANEL.
- EXISTING SINGLE CONDUCTOR CORFLEX FEEDER CABLES SHALL BE RE-ROUTED TO NEW PANELS.
- NEW SWB-#1 BY HYDRO OTTAWA.
- REMOVAL OF MV CABLES BY CONTRACTOR.

This drawing is the sole property of WSP. Reproduction is not permitted. Only stamped, signed and dated copies of this drawing can be used for construction. Drawings shall be read in conjunction with other project drawings.

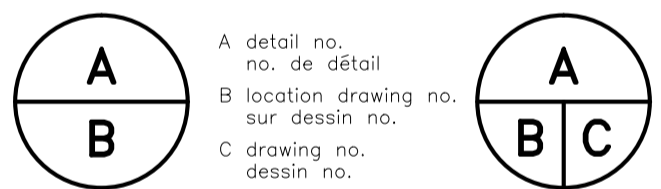
This drawing is not to be scaled. Contractor shall check and verify any discrepancies to WSP prior to proceeding with the work.

Contractor must comply with the requirements of applicable codes, bylaws, and other authorities having jurisdiction.

Electronic versions of this drawing shall not be used without written permission.



revisions		date
G	ISSUED FOR REV.1 EMIS POUR REV.1	09/FEB/15
F	ISSUED FOR TENDER EMIS POUR SOUMISSION	03/FEB/15
E	ISSUED FOR 100% REVIEW EMIS POUR REVISION 100%	15/JAN/15
D	ISSUED FOR 100% REVIEW EMIS POUR REVISION 100%	15/DEC/14
C	ISSUED FOR 99% REVIEW EMIS POUR REVISION 99%	19/NOV/14
B	ISSUED FOR 66% REVIEW EMIS POUR REVISION 66%	07/OCT/14
A	ISSUED FOR 33% REVIEW EMIS POUR REVISION 33%	13/AUG/14



project HIGH AND LOW VOLTAGE - ELECTRICAL UPGRADES
project

AMÉLIORATIONS ÉLECTRIQUES - HAUTE ET BASSE TENSION

229 WELLINGTON STREET
OTTAWA, ONTARIO

drawing dessin

SUB-BASEMENT
NEW ELECTRICAL LAYOUT
AND DETAILS
TWELFTH FLOOR
PANEL UPGRADE

scale AS SHOWN

designed C. McGUIRE conçu

date 20/06/2014

drawn M.A. DUFOUR dessiné

date 20/06/2014

reviewed K. BOCHERT examiné

date 20/06/2014

approved K. BOCHERT/C. McGUIRE approuvé

date 20/06/2014

Tender Soumission

PWC Project Manager Administrateur de projets TPC

project number no. du projet

R.069893.001

drawing no. no. du dessin

E15