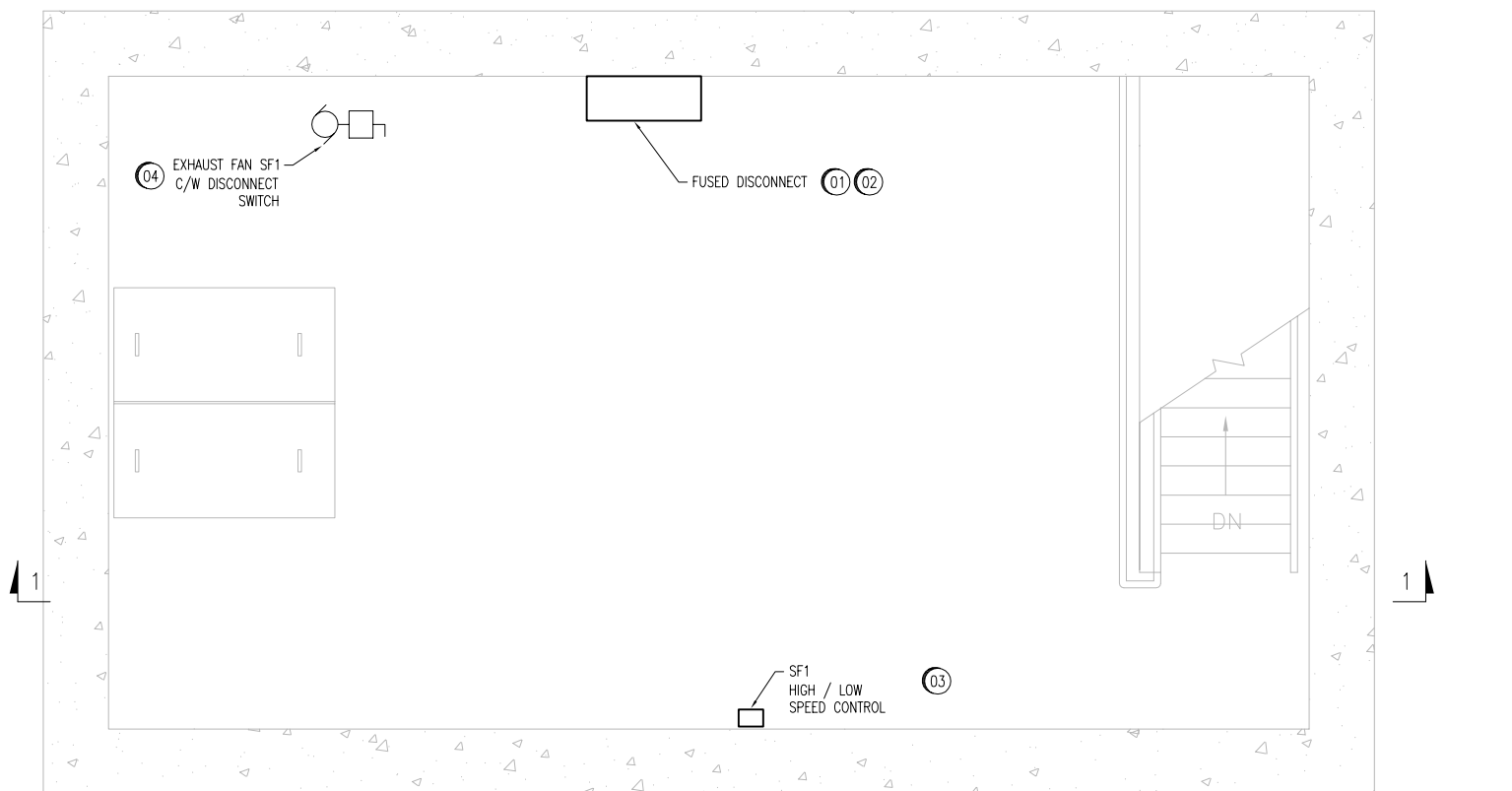
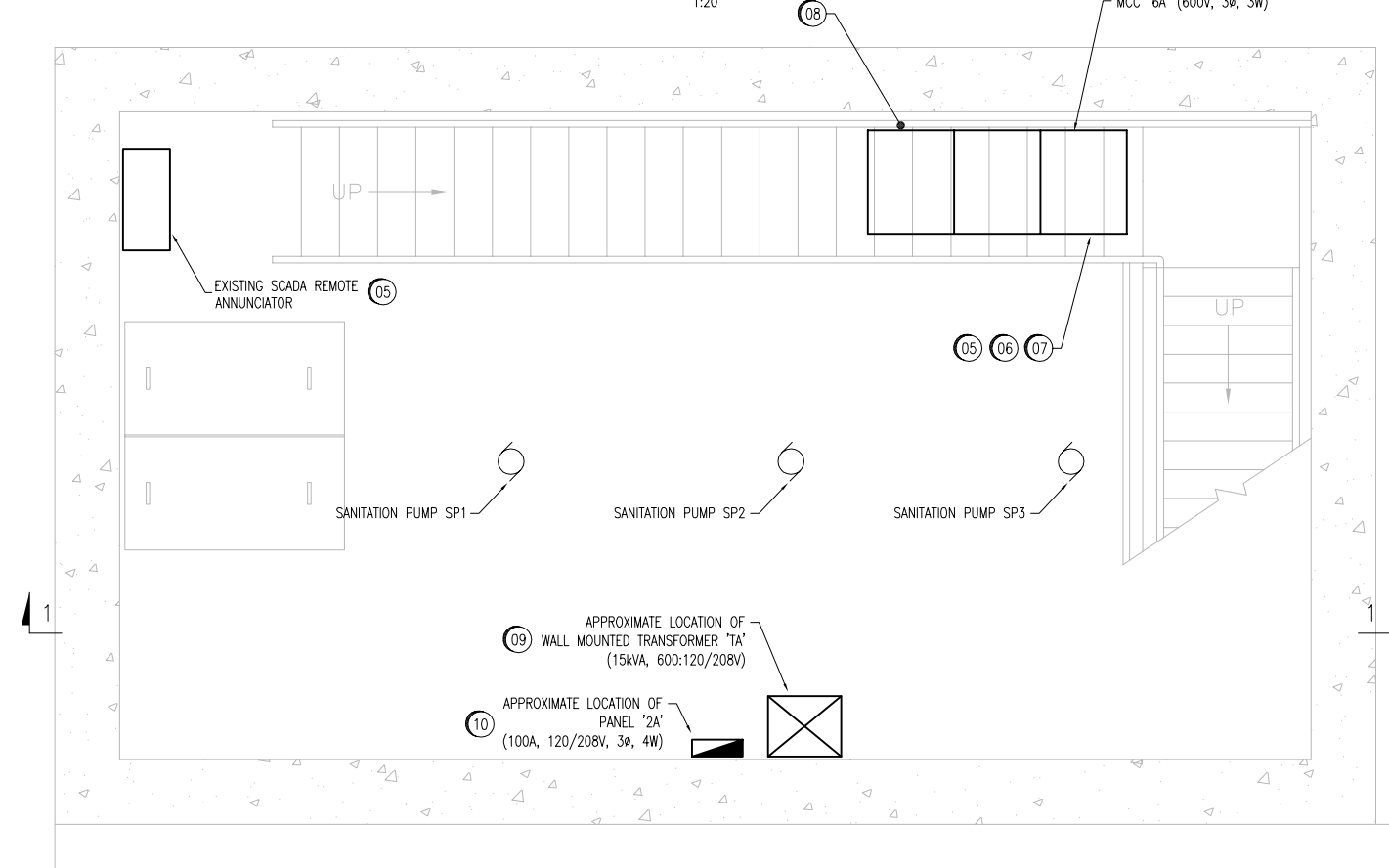


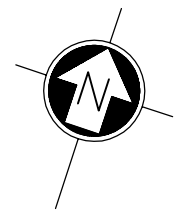
A1 SIZE - 594mm x 841mm



LIFT STATION PARTIAL PLAN @ GROUND LEVEL EL. 230.4
1:20



LIFT STATION PARTIAL PLAN @ EL. 223.6
1:20

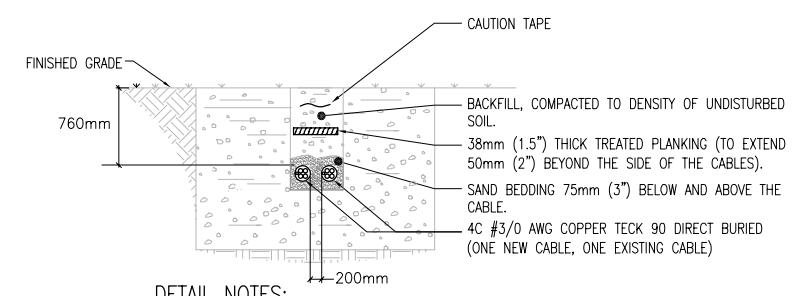


CSA C22.1-06 CODE REVIEW:

1. THIS FACILITY IS CLASSIFIED AS A SEWAGE 'LIFT STATION' (DRY WELL) AND IS SUBJECT TO THE REQUIREMENTS UNDER THE CEC SECTION 22-704.
2. THE DESIGN HEREIN IS BASED ON THE REQUIREMENT THAT THE DRY WELL WILL HAVE 6 CONTINUOUS POSITIVE PRESSURE AIR CHANGES PER HOUR. VENTILATION WILL COMPLY WITH NFPA 820 AND THE CANADIAN ELECTRICAL CODE. WITH THIS UNDERSTANDING, AND AS PER CEC 22-704 (5) THE FACILITY WILL BE CLASSIFIED AS AN "ORDINARY", NON-HAZARDOUS LOCATION. SUPPLY AND INSTALL ALL CABLING AND MATERIALS AS NECESSARY FOR A COMPLETE AND FUNCTIONING SYSTEM ACCORDINGLY TO MEET AIR CHANGE VENTILATION REQUIREMENTS AS SPECIFIED IN THE TENDER DOCUMENTS.

SPECIFIC NOTES:

- 01 EXISTING 200A FUSED DISCONNECT TO BE REMOVED AND RETURNED TO THE OWNER.
- 02 SUPPLY AND INSTALL NEW 600A, 600V, 3Ø, 4W, SERVICE ENTRANCE RATED FUSED DISCONNECT AT SAME LOCATION.
- 03 SUPPLY AND INSTALL HIGH / LOW SPEED SELECTOR SWITCH IN NEMA 4X JUNCTION BOX ADJACENT TO ENTRANCE DOOR. THE DOOR IS LOCATED AT APPROXIMATELY THIS LOCATION AT GROUND LEVEL (NOT SHOWN).
- 04 PROVIDE COMPLETE DEMOLITION OF EXISTING EXHAUST FAN. REMOVE CABLING AND ASSOCIATED CONTROL. SUPPLY AND INSTALL NEW CABLING TO NEW EXHAUST FAN, AND NEW CONTROL AND NEW CONTROL WIRING FOR NEW EXHAUST FAN.
- 05 SUPPLY AND INSTALL 6 PAIR, #16 AWG TSP, CIC, CU, IN 21mm CONDUIT FROM MCC CONTROL / ALARMS SECTION TO SCADA REMOTE ANUNCIATOR. TAG UN-USED PAIRS AS "SPARE".
- 06 SUPPLY AND INSTALL THE NEW MCC AND ALL ASSOCIATED CABLING AND MATERIALS AS NECESSARY FOR A COMPLETE AND FUNCTIONING SYSTEM.
- 07 SUPPLY AND INSTALL CABLING FROM EXISTING LEVEL TRANSMITTER AND TERMINATE IN NEW MCC CONTROL SECTION.
- 08 REMOVE AND RELOCATED EXISTING DEVICES, WIRING AND CONDUIT ON THE WALL ADJACENT TO THE EXISTING MCC IN TO CREATE SPACE FOR THE NEW MCC. RELOCATE RECEPTACLE AND EXTEND CABLING AND CONDUIT AS REQUIRED. CONFIRM ALL DEVICES ON SITE.
- 09 PROVIDE TRANSFORMER 'TA', 15 kVA, 600:120/208V, 3Ø, 4W, WALL MOUNTED, EPOXY ENCAPSULATED, DRY TYPE, WALL MOUNTED TRANSFORMER. INSTALL WALL MOUNTED, ABOVE PANEL '2A'.
- 10 PROVIDE 100A, 120/208V, 3Ø, 4W PANEL COMPLETE WITH AN INTEGRAL TRANSIENT VOLTAGE SURGE SUPPRESSOR (TVSS). THE EXISTING MCC SECTION (WHICH IS TO BE REMOVED AS PART OF THIS PROJECT) HAS AN INTEGRAL PANELBOARD. THE NEW PANEL IS TO BE USED TO FEED THE CIRCUITS PREVIOUSLY FED OUT OF THE EXISTING MCC PANELBOARD. INTERCEPT AND ROUTE ALL EXISTING WIRING TO THIS NEW LOCATION. TERMINATE ALL EXISTING CIRCUITS IN THIS NEW PANELBOARD. SITE CONFIRM CABLE AND CONDUIT REQUIREMENTS. WHERE EXISTING WIRING IS TOO SHORT TO REACH THIS LOCATION, SUPPLY AND INSTALL A SUITABLE JUNCTION BOX C/W TERMINAL BLOCKS, AND PROVIDE NEW WIRING AND/OR CONDUIT TO THE PANELBOARD '2A'. JUNCTION BOXES SHALL HAVE SUITABLE TERMINAL BLOCKS WITHIN. TAG THE JUNCTION BOX WITH THE VOLTAGE, CIRCUIT NUMBER AND THE DEVICE NAME.



DETAIL NOTES:
1. WATER WASH EXCAVATE EXISTING TRENCH, AND MODIFY TRENCH TO BE AS SHOWN IN THIS DETAIL. PROVIDE ALL ITEMS AS REQUIRED.

DETAIL B: LIFT STATION SERVICE CABLE TRENCH
SCALE: NTS



2008 PUMPING STATION UPGRADES
INSTALLATION OF NEW PUMPING UNITS
AND MODIFICATIONS TO THE
BALTIMORE WASTEWATER PUMPING STATION
LIFT STATION PLAN AND DETAILS

B.M. ELEV.	FIELD BOOK #:	 SNC-LAVALIN INC. 148 Notaire Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080	ENGINEER'S SEAL
POSTED TO LBIS			 THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT
DESIGNED BY D.E. BECKER	CHECKED BY C. ASMUNDSON	HOR. SCALE AS SHOWN VERTICAL AS SHOWN	2008 PUMPING STATION UPGRADES INSTALLATION OF NEW PUMPING UNITS AND MODIFICATIONS TO THE BALTIMORE WASTEWATER PUMPING STATION LIFT STATION PLAN AND DETAILS
DRAWN BY D.E. BECKER	APPROVED BY C. REIMER		
DATE 2007/12/11	DATE 2007/04/12	FILENAME: 06798.dwg	BID OPPORTUNITY 613-2008
NO. REVISIONS	DATE		CITY DRAWING NUMBER 06798 4 OF 17

LAST SAVE: 2008/07/30 - 1:20pm
PATH: M:\113046\MENG\WFELE\DD - General DWG\06798.dwg

DRAWING NUMBER	REFERENCE DRAWINGS
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SHEET	REV.	SIZE
4	01	D