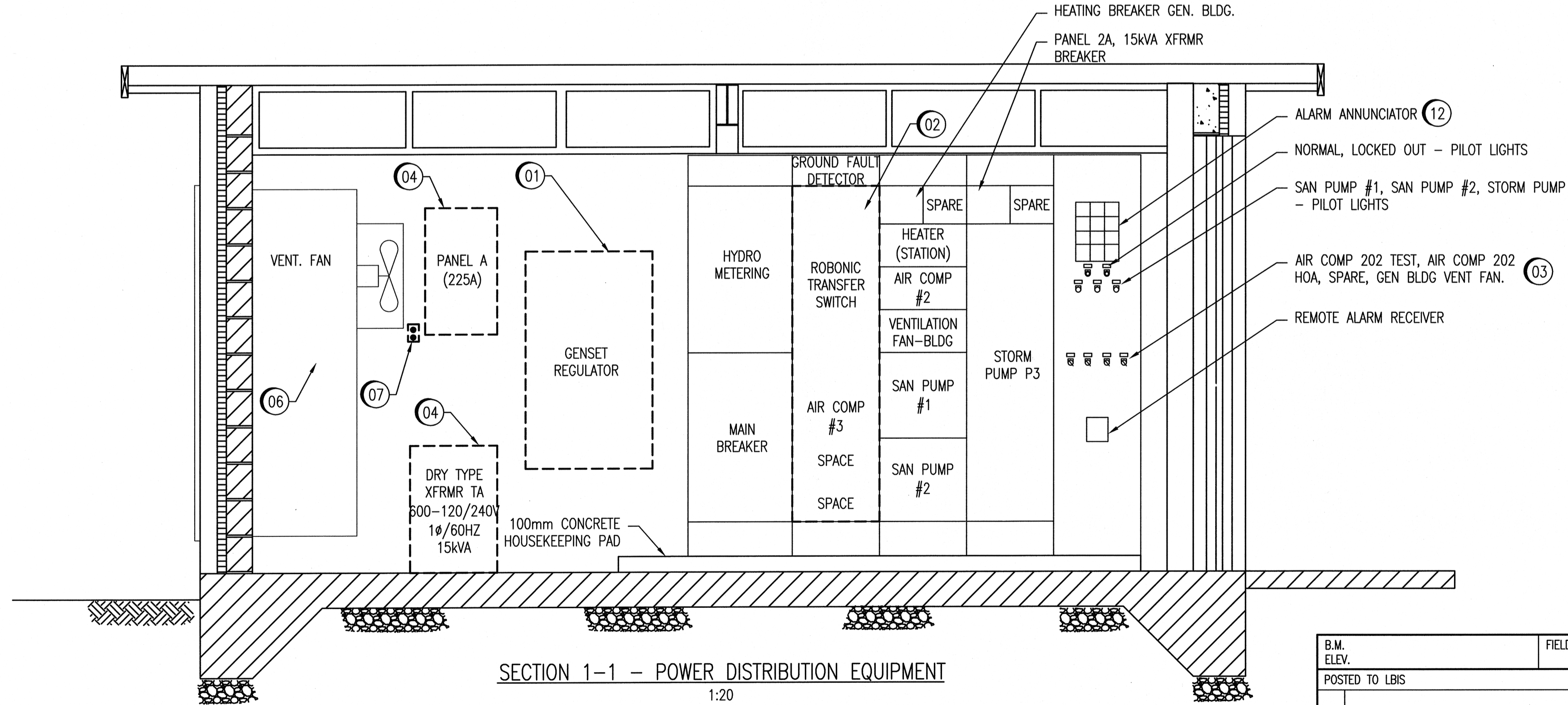
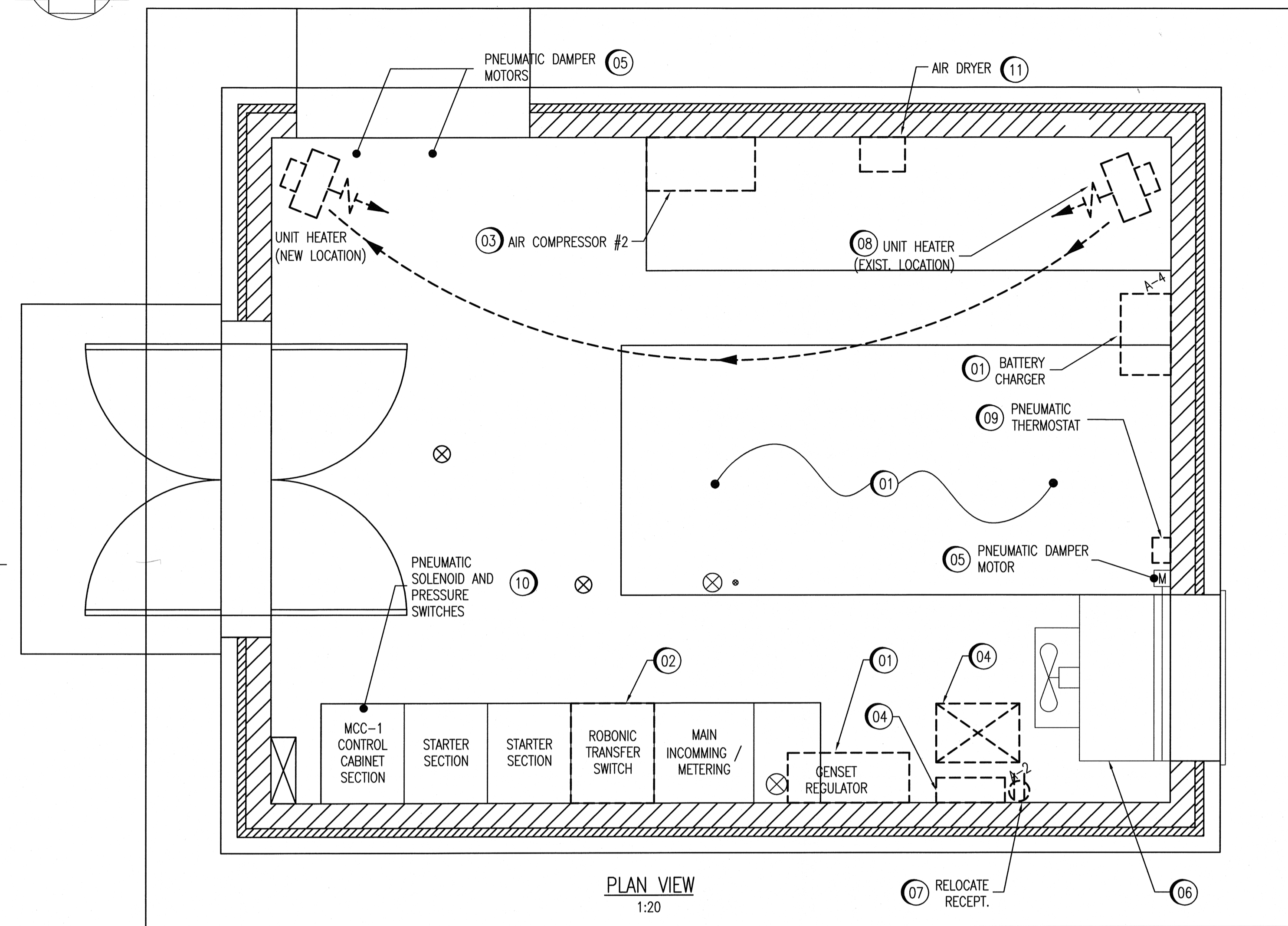
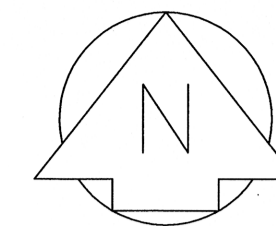


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GENERAL OVERVIEW OF THE WORK:

1. THE EXISTING NATURAL GAS GENERATOR IS TO BE COMPLETELY REMOVED, AND REPLACED WITH A NEW NATURAL GAS GENERATOR. THE REMOVAL SHALL INCLUDE DISCONNECTING AND DISPOSING OF ALL CONTROL AND POWER CABLES TO THE GENERATOR, TO THE TRANSFER SWITCH, TO THE REGULATOR, AND FROM ANY GENERATOR RELATED CONTROL CABINET TO THE MCC MOUNTED CONTROLS / ALARM SECTION. THE ELECTRICAL SUBCONTRACTOR SHALL PROVIDE NEW CABLING FOR ALL GENERATOR RELATED DEVICES AS PART OF THE NEW GENERATOR PACKAGE. DO NOT RE-USE EXISTING POWER AND CONTROL CABLING.
2. THE TEMPORARY GENERATOR RENTED BY THE CITY OF WINNIPEG SHALL REMAIN ON SITE, AND CONNECTED AS LONG AS POSSIBLE IN ORDER TO ENSURE THAT BACKUP POWER IS MAINTAINED WHENEVER POSSIBLE. AS PART OF THE WORK, THE ELECTRICAL SUBCONTRACTOR SHALL DISCONNECT, AND REMOVE TEMPORARY GENERATOR CONNECTIONS, AND CABLING, AND SHALL TURN OVER THE TEMPORARY GENERATOR AND ASSOCIATED CABLING AND DEVICES TO THE CITY.
3. THE ELECTRICAL SUBCONTRACTOR SHALL PROVIDE A DETAILED WORK AND SHUTDOWN SCHEDULE TO THE CITY, AND TO THE CONTRACT ADMINISTRATOR FOR REVIEW, PRIOR TO ANY POWER SHUTDOWN. ALL ATTEMPTS MUST BE MADE TO MINIMIZE SHUTDOWN TIME, AND MINIMIZE THE TIME THAT A BACKUP GENERATOR IS NOT CONNECTED AT THE FACILITY. THE CITY RESERVES THE RIGHT TO REFUSE SHUTDOWN PROPOSALS SUBMITTED BY THE ELECTRICAL SUBCONTRACTOR, AND REQUIRE A DIFFERENT APPROACH TO THE WORK.

GENERAL NOTES:

1. PERFORM ALL WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE (CEC), LATEST EDITION OF THE MANITOBA ELECTRICAL CODE, AND THE CITY OF WINNIPEG ELECTRICAL BY-LAWS. OBTAIN AND PAY ALL APPLICABLE CERTIFICATES AND PERMITS. ARRANGE ALL NECESSARY INSPECTIONS AND CORRECT ANY DEFICIENCIES THAT MAY ARISE.

SPECIFIC NOTES:

- 01 PROVIDE DEMOLITION OF THE EXISTING 250 KW NATURAL GAS GENSET, INCLUDING THE GENSET CONTROLLER, REGULATOR, BREAKER, BAT. CHARGER, GOVERNOR, CABLING, AND CONDUIT, AND ALL OTHER ASSOCIATED EQUIPMENT.
- 02 PROVIDE DEMOLITION OF THE EXISTING GENERATOR ROBONIC TRANSFER SWITCH. PROVIDE ON-SITE BUS WORK MODIFICATIONS TO THE MCC SECTION IN ORDER TO EXTEND THE MCC BUS WORK INTO THIS SECTION (300 A VERTICAL BUS WORK, AND 600A HORIZONTAL). BUS WORK SHALL MATCH EXISTING BUSING WITHIN. THE INTENT IS THAT THIS SPACE SHALL BE MADE TO BE USEABLE TO FEED THE EXISTING AIR COMPRESSOR #3 STARTER, AND FOR FUTURE STARTERS, FUSED DISCONNECTS, ETC. THE EXISTING MCC MANUFACTURER IS WESTINGHOUSE, CLASS 11-350, STOCK ORDER NV-47509.
- 03 PROVIDE DEMOLITION OF COMPRESSOR 202 (ALSO KNOWN AS COMP. #2) CONTROLS AND INDICATION. REMOVE UNUSED CABLING. TAG CONTROLS AS "SPARE". PROVIDE DEMOLITION OF BUILDING VENTILATION FAN AND DAMPER CONTROLS. REMOVE UNUSED CABLING AND PROVIDE MODIFICATIONS TO THE MCC CONTROL AND ALARMS SECTION. TAG CONTROL ON PANEL DOOR AS "SPARE".
- 04 IF REQUIRED, RELOCATE THE EXISTING 225A, 120/240, 42 CCT. PANELBOARD (PANEL 2A) AND ASSOCIATED 15 KVA TRANSFORMER (XFRM TA) AND PROVIDE DEMOLITION OF THE EXISTING TRANSFORMER HOUSEKEEPING PAD. IF REQUIRED, PROVIDE NEW PAD FOR TRANSFORMER AT NEW LOCATION. PROVIDE NEW SOURCE CABLING FROM MCC. PROVIDE NEW, EXTEND OR ADJUST (AS REQUIRED) BRANCH CIRCUIT CABLING TO PANEL 2A. PROVIDE NEW, EXTEND OR ADJUST CONDUIT AS REQUIRED. PROVIDE ALL OTHER DEVICES AS REQUIRED IN ORDER TO ALLOW FOR PANEL AND TRANSFORMER RELOCATION.
- 05 PROVIDE DEMOLITION OF THE EXISTING PNEUMATIC DAMPER MOTORS. REMOVE ALL ASSOCIATED INSTRUMENTATION AIR LINES, AND ASSOCIATED DEVICES, VALVES, ACTUATORS, ETC. DAMPERS ARE TO REMAIN AND BE REUSED C/W NEW ELECTRIC ACTUATORS.
- 06 EXISTING BUILDING VENTILATION FAN.
- 07 RELOCATE EXISTING DUPLEX RECEPTACLE AND ASSOCIATED CABLING/CONDUIT. RELOCATION SHALL NOT INTERFERE WITH THE NEW LOCATION OF PANEL A.
- 08 RELOCATE THE EXISTING UNIT HEATER IN ORDER TO ACCOMMODATE MECHANICAL COMBUSTION AIR VENT. EXTEND CABLING AND CONDUIT AS REQUIRED.
- 09 PROVIDE DEMOLITION OF THE EXISTING PNEUMATIC THERMOSTAT AND ALL PNEUMATIC TUBING AND ASSOCIATED MATERIALS. REFER TO SUPERCEDED DRAWING SET 1044, 1046, 1048.
- 10 PROVIDE DEMOLITION OF THE EXISTING PNEUMATIC SOLENOID, PRESSURE SWITCHES, AND ALL PNEUMATIC TUBING AND CONNECTIONS.
- 11 PROVIDE DEMOLITION OF THE EXISTING AIR DRYER, WIRING, AND ALL ASSOCIATED DEVICES. MARK STARTER AS SPARE.
- 12 PROVIDE DEMOLITION OF PRESSURE SWITCH, ASSOCIATED WIRING TO LOW AIR PRESSURE ALARM. AND ALL PNEUMATIC TUBING. REMOVE LABEL AND MARK AS SPARE.

1044, 1046, 1048	SUPERCEDED DRAWING SET
06053	STRUCTURAL DRAWING SET
06051-06052	MECHANICAL DRAWING SET
06090-06092	ELECTRICAL DRAWING SET
06044-06049	ELECTRICAL DRAWING SET
DRAWING NUMBER	REFERENCE DRAWINGS

Certificate of Authorization
SNC-Lavalin Inc.
 No. 4489 Expiry: April 30, 2008

B.M. ELEV.	FIELD BOOK #:		SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080	ENGINEER'S SEAL 	 THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT WINDSOR PARK WASTEWATER PUMPING STATION GENERATOR UPGRADE PLAN AND SECTION ELECTRICAL BUILDING LAYOUT DEMOLITION
DESIGNED BY D. BECKER	CHECKED BY C. ASMUNDSON				
DRAWN BY D. BECKER	APPROVED BY C. ASMUNDSON				
HOR. SCALE 1:20	RELEASED FOR CONSTRUCTION				
VERTICAL 1:20	DATE 07/04/12				
00 ISSUED FOR CONSTRUCTION	08/01/18 AEO				
NO. REVISIONS	DATE BY	FILENAME: 113049-47DD-0000-0002.dwg			
		BID OPPORTUNITY No. 66-2008		CITY DRAWING NUMBER 06045	
				SHEET REV. SIZE 001 00 D	