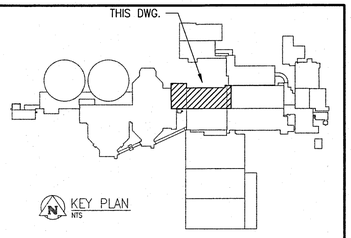
A1 SIZE – 594mm x 841mm

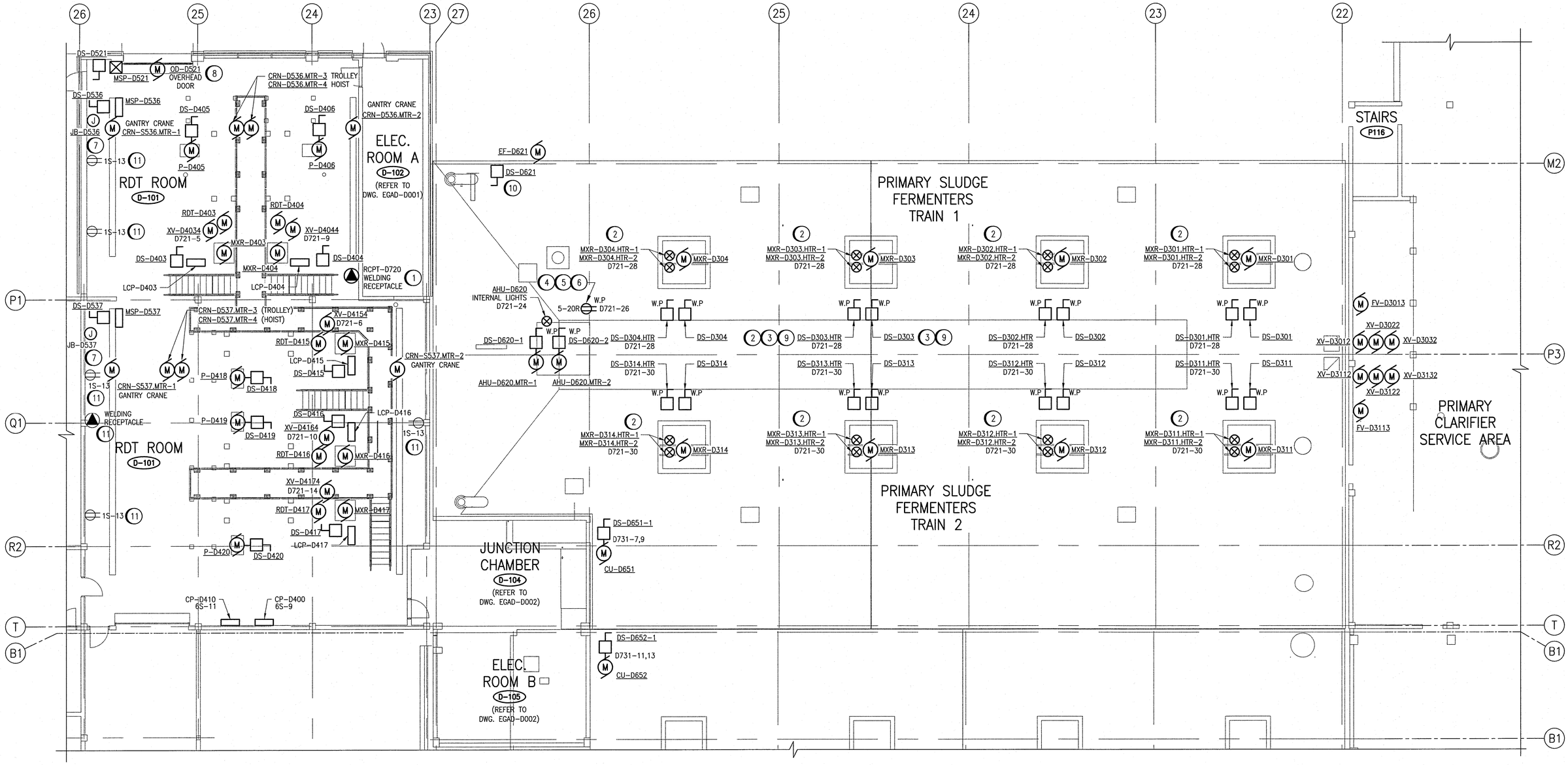
GENERAL NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT SIZE OF ALL ELECTRICAL EQUIPMENT WITH THE VENDOR SHOP DRAWINGS.
2. ALL WIRING ASSOCIATED WITH RECEPTACLES SHALL BE RUN IN CONDUIT.
3. THERE ARE STRUCTURAL EXPANSION JOINTS IN THE FACILITY (NOT SHOWN ON ELECTRICAL). PROVIDE EXPANSION COUPLINGS AND FITTINGS FOR ALL CONDUIT CROSSING THE JOINTS. DO NOT LOCATE RIGID DEVICES ACROSS OR ON TOP OF THE EXPANSION JOINTS.
4. EQUIPMENT WITH NO CIRCUIT NUMBERS SHOWN ARE TO BE FED FROM THE 600 VAC MCC. REFER TO SINGLE LINE DRAWINGS FOR DETAILS. TYPICAL.
5. ALL CONDUIT SHALL BE RIGID, THREADED ALUMINUM CONDUIT.
6. PROVIDE UNISTRUT SUPPORT FROM THE FLOOR TO THE CEILING TO SUPPORT VERTICAL CABLE RUNS FROM CABLE TRAY TO MOTOR J.B. TYPICAL FOR ALL CABLE RUNS TO MOTORS THAT ARE NOT LOCATED ADJACENT TO A WALL.
7. EXTERIOR MOUNTED EQUIPMENT AND DEVICES TO BE MINIMUM NEMA 4X, SEALED, GASKETTED, CORROSION RESISTANT (OR HIGHER) RATED.
8. PRIMARY CLARIFIER 1 AND 2 IS A CLASS I, ZONE 2 AREA. PROVIDE APPROPRIATELY RATED EQUIPMENT, MATERIALS AND INSTALLATION. REFER TO HAZARDOUS LOCATION DRAWING 1-0102P-E0014.
9. WHEREVER POSSIBLE LOCATE ELECTRICAL EQUIPMENT, CONTROL PANELS, DISCONNECT SWITCHES OUTSIDE OF HAZARDOUS AREAS. EQUIPMENT LOCATED WITHIN THE HAZARDOUS AREAS SHALL BE APPROPRIATELY RATED.

SPECIFIC NOTES:

1. PROVIDE 60A RATED WELDING RECEPTACLE WITH INTEGRAL DISCONNECT SWITCH FED FROM MCC-D710. MOUNT RECEPTACLE AT 1.2m A.F.F.
2. WIRE AND CONNECT MIXER HEATERS (2x 50 WATTS MINIMUM FOR EACH MIXER, SUPPLIED BY MIXER VENDOR) TO PREVENT FREEZING OF SYSTEM. PROVIDE FIELD MOUNTED NEMA 4X DISCONNECT SWITCH FOR EACH PAIR OF HEATERS.
3. LOCATE ALL DISCONNECT SWITCHES OUTSIDE OF THE HAZARDOUS AREAS. REFER TO EHLC-D002 FOR HAZARDOUS AREA LOCATIONS. TYPICAL.
4. INSTALL RECEPTACLES A MINIMUM OF 750mm ABOVE THE ROOF TO ACCOMMODATE SNOW ACCUMULATION AS PER WINNIPEG ELECTRICAL BYLAWS (WEB) RULE 26-704. PROVIDE STRUCTURAL SUPPORT IN ORDER TO MOUNT RECEPTACLES ACCORDINGLY.
5. RECEPTACLES ON ROOFTOP SHALL BE 5-20R CSA CONFIGURATION AND PROTECTED BY A CLASS A TYPE GFCI BREAKER.
6. RECEPTACLES TO BE LOCATED WITHIN 7500mm OF ELECTRICAL EQUIPMENT.
7. LOCATE GANTRY CRANE JUNCTION BOX BASED ON MANUFACTURER'S RECOMMENDATIONS. JUNCTION BOX TO RECEIVE TECK90 CABLE FROM DISCONNECT SWITCH AND FEED FESTOON CABLE TO GANTRY CRANE MOTOR STARTER PANEL. FESTOON CABLE TO BE SUPPLIED BY CRANE MANUFACTURER, IN ACCORDANCE WITH THEIR REQUIREMENTS.
8. WIRE AND CONNECT POWER AND CONTROLS FOR OVERHEAD DOOR OD-D521 IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. REVIEW REQUIREMENTS ON SHOPDRAWINGS. INSTALL CONTROLS ADJACENT TO THE OVERHEAD DOOR.
9. PROVIDE SUPPORTS TO MOUNT DISCONNECT SWITCHES ASSOCIATED WITH MIXER AND MIXER HEATERS ON FERMENTER DECK. TYPICAL.
10. PROVIDE SUPPORTS TO MOUNT DISCONNECT SWITCH FOR EXHAUST FAN EF-D621 ON FERMENTER DECK.
11. RETAIN EXISTING RECEPTACLE.





GROUND LEVEL PLAN

1 : 100

1:100 1000 0 2000 4000

APEGM Certificate of Authorization SNC-Lavalin Inc. No. 4489

REFERENCE DRAWINGS	DESCRIPTION
1-0102-EAAA-A001	ELECTRICAL, LEGEND AND DETAILS

NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR CONSTRUCTION – 976-2016	2017/04/05	WE	DEB

CH2MHILL. SNC·LAVALIN KGS GROUP

DESIGNED BY: V. ELIMBAN
CHECKED BY: E. RYCZKOWSKI
DRAWN BY: MJ. PERSSON
APPROVED BY: D. BECKER
SCALE: 1:100
ISSUED FOR CONSTRUCTION BY: J. SHUMKA
DATE: 2016/06/08
DATE: 2017/04/05
CONSULTANT NO.: 474248

ENGINEER'S SEAL: PROVINCE OF MANITOBA, D.E. BECKER, Member 23646, REGISTERED PROFESSIONAL ENGINEER, April 5 2017

Winnipeg — THE CITY OF WINNIPEG, WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE
SEWPCC UPGRADING/EXPANSION PROJECT
ELECTRICAL – POWER LAYOUT
FERMENTERS/THICKENERS
GROUND LEVEL PLAN

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0102-EGAD-D004	001	00	A1

PLOT DATE: Mar 28, 2017 – 3:25pm
FILE NAME: 1-0102-EGAD-D004.dwg

LAST SAVE: 2017/03/28 – 3:25pm
PATH: M:\614099\4ENG\47ELE\DD – General DWG\REV\2017-04-05 Issued for Construction – 976-2016\D Fermenters-thickeners\DWG\1-0102-EGAD-D004.dwg