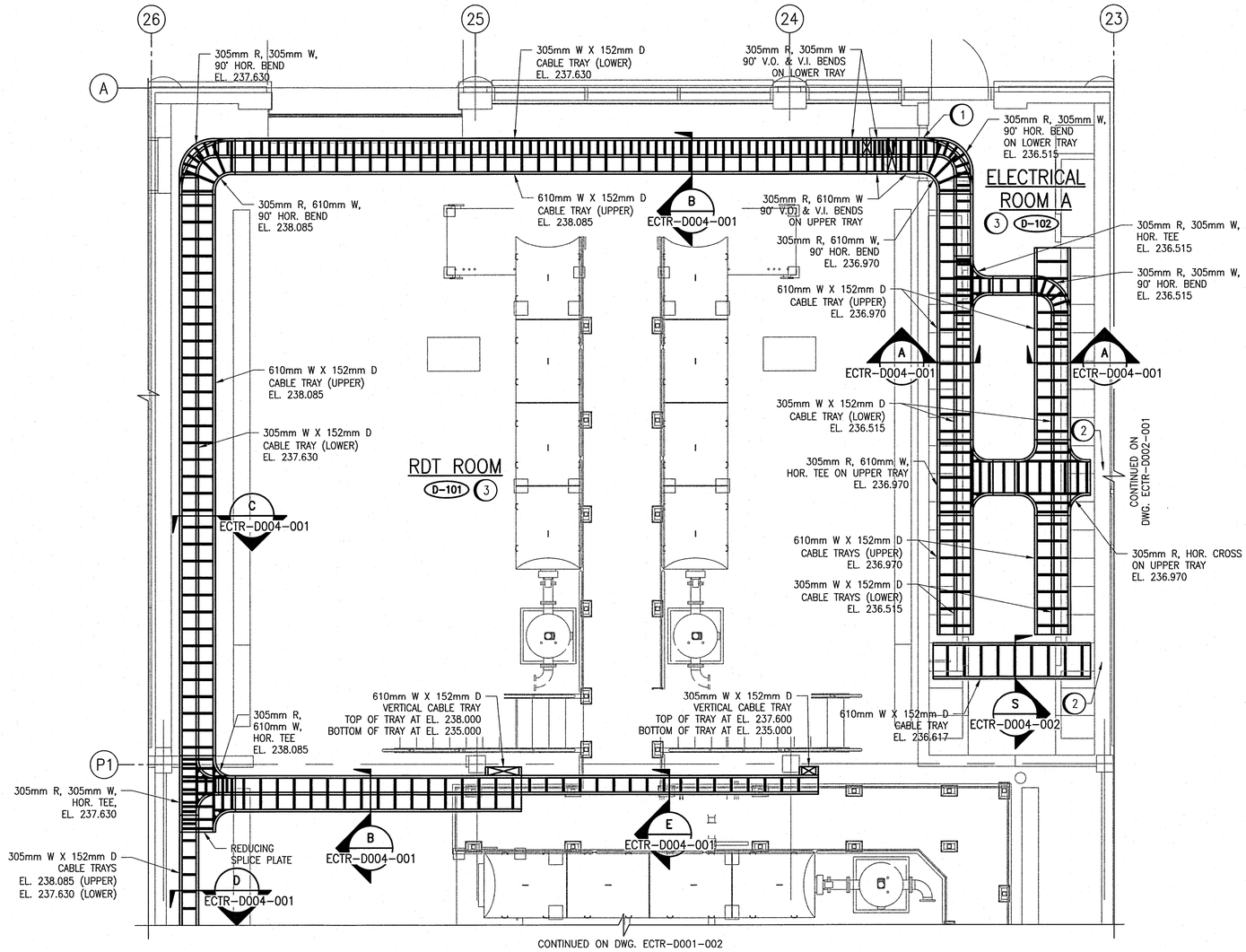
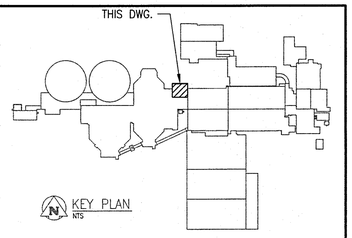
A1 SIZE – 594mm x 841mm





GENERAL NOTES:

1. INSTALL THE CABLE TRAY IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION AND IN ACCORDANCE WITH NEMA VE2.
2. CABLE TRAY ELEVATIONS ARE MEASURED FROM THE BOTTOM OF THE CABLE TRAY.
3. CABLE TRAYS SHALL BE CSA CLASS C1 FOR INDOOR INSTALLATION AND CSA CLASS D FOR OUTDOOR INSTALLATION. ALL CABLE TRAYS SHALL BE ALUMINUM, HEAVY DUTY, 229mm RUNG SPACING, 152mm SIDE RAIL. STANDARD COMPONENTS, FACTORY MADE TEES, CROSSES, REDUCERS, EXPANSION JOINTS, COVERS AND ELBOWS. USE ACCESSORIES FROM SAME MANUFACTURER.
4. INSTALL CABLE TRAYS WITHOUT KINKS AND SAGS, COMPLETE WITH SUPPORTS, BRACKETS, AND HARDWARE. PROVIDE A COMPLETE, RIGID AND CONTINUOUS INSTALLATION.
5. NOT ALL REQUIRED TRAY BENDS, FITTINGS, ETC, ARE SHOWN. PROVIDE THESE AS REQUIRED TO SUIT THE EXACT INSTALLATION.
6. SUPPORT TRAYS FROM STRUCTURAL MEMBERS OF THE BUILDING ONLY, SUCH MEMBERS INCLUDE COLUMNS, BEAMS AND MASONRY. INSTALL TRAY SUPPORTS AT SPACING OF NOT MORE THAN 2500mm ON CENTRE FOR HORIZONTAL RUNS AND NOT MORE THAN 1800mm ON CENTRE FOR VERTICAL RUNS.
7. ENSURE THAT BOLTED CONNECTIONS ARE TIGHT, THAT TRAYS ARE FREE OF BURRS, SHARP CORNERS AND OTHER PROJECTIONS, WHICH MIGHT DAMAGE CABLE JACKETS.
8. PROVIDE #2/0 AWG GREEN INSULATED BONDING CONDUCTOR ALONG THE ENTIRE LENGTH OF TRAY, CONNECTED TO ALL MEMBERS WITH BONDING CLAMPS.
9. ONLY MAIN CABLE TRAY RUNS ARE SHOWN. THE CONTRACTOR SHALL PROVIDE CABLE CHANNEL WHERE MOTORS AND/OR EQUIPMENT ARE LOCATED AWAY FROM THE MAIN CABLE TRAY.
10. PROVIDE VERTICAL UNISTRUT SUPPORTS ANCHORED TO THE CEILING STRUCTURE AND THE FLOOR FOR CABLES RUN VERTICALLY DOWN FROM THE CABLE TRAY SYSTEM TO THE EQUIPMENT BELOW.
11. REFER TO STRUCTURAL DRAWINGS FOR BUILDING EXPANSION JOINTS. PROVIDE EXPANSION COUPLINGS AND FITTINGS FOR ALL CABLE TRAY CROSSING JOINTS.

SPECIFIC NOTES:

1. PROVIDE FIRE RATED ASSEMBLY AND SEAL ALL CABLES PENETRATING THE WALL TO SEPARATE THE AREAS.
2. SCAN THE WALL PRIOR TO CORE DRILLING OR CUTTING. CORE DRILL HOLES THROUGH THE WALL FOR CABLES (SIZED TO SUIT). PROVIDE WEATHERPROOF ROXTEC SEAL FOR ALL CABLES PENETRATING THE WALL TO EXTERIOR OF BUILDING.
3. CABLE TRAY MAXIMUM ALLOWABLE CABLE LOADING:
   - ELECTRICAL ROOM 'A' : 60 KG/M PER TRAY
   - RDT ROOM : 40 KG/M PER TRAY

PARTIAL GROUND LEVEL PLAN

1 : 50

1:50 500 0 1000 2000

REFERENCE DRAWINGS	DESCRIPTION
1-0102-ECTR-D004	CABLE TRAY, SECTIONS AND DETAILS

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

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

CH2MHILL. SNC·LAVALIN KGS GROUP

DESIGNED BY: S. JUGANAS	CHECKED BY: E. RYCZKOWSKI
DRAWN BY: S. JUGANAS	APPROVED BY: D. BECKER
SCALE: 1:50	ISSUED FOR CONSTRUCTION BY: J. SHUMKA
DATE: 2016/06/20	DATE: 2017/04/05
CONSULTANT NO.: 474248	

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

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

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

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0102-ECTR-D001	001	00	A1

LAST SAVE: 2017/03/24 – 2:20pm
PATH: C:\Users\persm2\DWG\1-0102-ECTR-D001-001.dwg

PLOT DATE: Mar 24, 2017 – 2:20pm

FILE NAME:1-0102-ECTR-D001-001.dwg