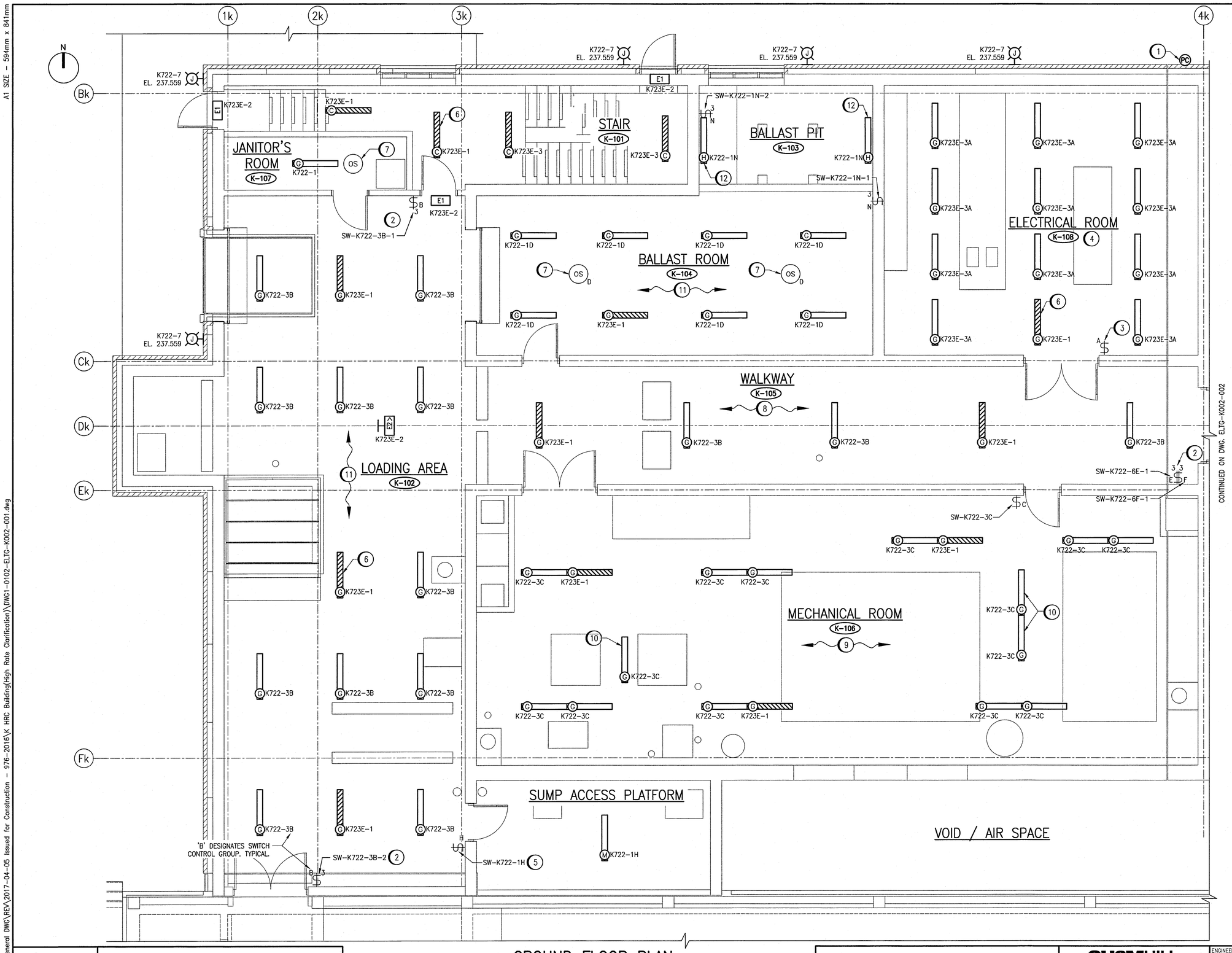

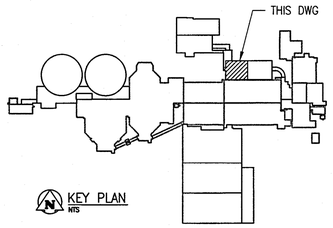

GENERAL NOTES:

1. THERE ARE STRUCTURAL EXPANSION JOINTS IN THE FACILITY (NOT SHOWN ON ELECTRICAL). PROVIDE EXPANSION COUPLINGS AND FITTING FOR ALL CONDUIT CROSSING THE JOINTS. DO NOT LOCATE RIGID DEVICES ACROSS OR ON TOP OF THE EXPANSION JOINTS.
2. WIRING SHALL BE RW90 RUN IN CONDUIT C/W ALL FITTINGS, ACCESSORIES, SUPPORTS, ETC AS REQUIRED. CONDUIT SHALL BE SOLIDLY SECURED TO BUILDING STRUCTURE OR CANTRUSS SUPPORTS.
3. LUMINAIRES ARE SHOWN AT THEIR APPROXIMATE LOCATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE EQUIPMENT AND DEVICE LOCATIONS IN ORDER TO ENSURE THAT EACH LUMINAIRE IS APPROPRIATELY PLACED AND THAT EACH LUMINAIRE DOES NOT CONFLICT WITH OTHER SYSTEMS OR DEVICES. THE E.C SHALL ENSURE THAT EACH LUMINAIRE IS NOT BLOCKED. ADJUST THE LOCATIONS AS REQUIRED.
4. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO UNDERSTAND THE CLASSIFICATIONS (CLASS I, ZONE 1 / CLASS I, ZONE 2 / UN-RATED / WET) OF THE ROOM / SPACE / LOCATION AND TO PROVIDE ALL DEVICES, MATERIALS AND INSTALLATION IN COMPLIANCE WITH THE CLASSIFICATION OF THE SPACE. REFER TO DRAWINGS EHLC-K001 & EHLC-K002 FOR THE CLASSIFICATION OF EACH AREA / ROOM.
5. LUMINAIRES SHALL EACH BE SOLIDLY SECURED AND INSTALLED. SUSPENDED FROM THE CEILING LUMINAIRES SHALL BE RIGIDLY AFFIXED TO CANTRUSS MEMBERS, SECURED FROM THE CEILING VIA THREADED ROD SUPPORTS. LOOSE HANGING OR SWINGING LUMINAIRES ARE NOT ACCEPTABLE.
6. LIGHT SWITCHES SHALL BE TAGGED (WITH A HARD PLASTIC LAMACOID NAMEPLATE) TO INDICATE THE CIRCUIT NUMBER, AND WHAT AREA EACH LIGHT SWITCH CONTROLS.
7. PROVIDE ALL REQUIRED LUMINAIRE / EXIT LIGHT MOUNTING KITS TO SUIT THE CONSTRUCTION. NOT ALL MOUNTING KITS / HARDWARE ARE SPECIFICALLY INDICATED.

SPECIFIC NOTES:

1. PROVIDE PHOTOCELL FOR EXTERIOR LUMINAIRE CONTROL. INSTALL PHOTOCELL ON THE EXTERIOR WALL AT APPROX. 305mm BELOW THE ROOFLINE. SEE DWG. 1-0102-ELTG-K005.
2. 3-WAY, MAINTAINED, TOGGLE STYLE LIGHT SWITCH. SEE DWG. 1-0102-ELTG-K004 FOR LIGHTING CONTROL SCHEMATIC.
3. PROVIDE DIRECT LINE VOLTAGE SWITCH CONTROLS (NOT PART OF THE AUTOMATED LIGHTING CONTROL SYSTEM) FOR ELECTRICAL ROOM LIGHTING.
4. ALL LUMINAIRES IN ELECTRICAL ROOM WILL BE FED FROM THE ESSENTIAL LIGHTING PANEL. LUMINAIRES TO BE MOUNTED DIRECTLY BELOW CABLE TRAY AT AN ELEVATION APPROX. 2800mm ABOVE FLOOR.
5. PROVIDE SINGLE POLE, MAINTAINED, TOGGLE STYLE LIGHT SWITCH. CONNECT THE LIGHT SWITCH TO THE INTERIOR LIGHTING CONTROL PANEL CP-K724 FOR STATUS INDICATION TO THE PLC. REFER TO DWG. 1-0102-ELTG-K004 FOR SCHEMATIC DIAGRAM.
6. LUMINAIRE TO BE UN-SWITCHED ON ESSENTIAL LIGHTING CIRCUIT. TYPICAL.
7. PROVIDE CEILING MOUNTED OCCUPANCY SENSOR, LUTRON CATALOG NUMBER LOS-CDT-2000-WH. PROVIDE POWER PACK, LUTRON CATALOG NUMBER PP-347H. PROVIDE ALL WIRING, PROGRAMMING, TESTING, AND COMMISSIONING FOR A COMPLETE AND FUNCTIONAL SYSTEM.
8. LUMINAIRES IN THE WALKWAY TO BE MOUNTED DIRECTLY BELOW CABLE TRAY AND PIPE TRAY AT AN ELEVATION APPROX. 2800mm ABOVE FLOOR.
9. LUMINAIRES TO BE STEM HUNG MOUNTED BELOW MECHANICAL SYSTEM TO AVOID OBSTRUCTIONS AT APPROX. 3000mm ABOVE FLOOR, UNLESS NOTED OTHERWISE.
10. LUMINAIRES TO BE MOUNTED DIRECTLY BELOW CABLE TRAY AT AN ELEVATION APPROX. 2900mm ABOVE FLOOR.
11. LUMINAIRES IN LOADING AREA AND BALLAST ROOM TO BE STEM HUNG MOUNTED AT AN ELEVATION APPROX. 3500mm ABOVE FLOOR.
12. LUMINAIRES IN BALLAST PIT TO BE WALL MOUNTED AT AN ELEVATION APPROX. 2500mm ABOVE FLOOR.

GROUND FLOOR PLAN

1 : 50

1:50 500 0 1000 2000

REFERENCE DRAWINGS	DESCRIPTION
1-0102-ELTG-K005	EXTERIOR LIGHTING CONTROL, LC-K725 SCHEM. & WIRING DIAG.
1-0102-ELTG-K004	INTERIOR LIGHTING CONTROL, CP-K724 SCHEM. DIAGRAM
1-0102-ESCH-K001	PANEL SCHEDULES & DETAILS
1-0102-ESCH-A002	SCHEDULE - LUMINAIRE AND EXIT SIGNS

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: MJ. PERSSON	APPROVED BY: D. BECKER
SCALE: 1:50	ISSUED FOR CONSTRUCTION BY: J. SHUMKA
DATE: 2015/02/04	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 - LIGHTING PLAN LAYOUT
HIGH RATE CLARIFICATION BUILDING
GROUND FLOOR PLAN

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0102-ELTG-K002	001	00	A1

PLOT DATE: Mar 28, 2017 - 10:58am
FILE NAME:1-0102-ELTG-K002-001.dwg

A1 SIZE - 594mm x 841mm

LAST SAVE: 2017/03/28 - 10:58am
PATH: M:\614099\ENG\47ELE\DD - General DWG\REV\2017-04-05 Issued for Construction - 976-2016\K HRC Building(High Rate Clarification)\DWG1-0102-ELTG-K002-001.dwg