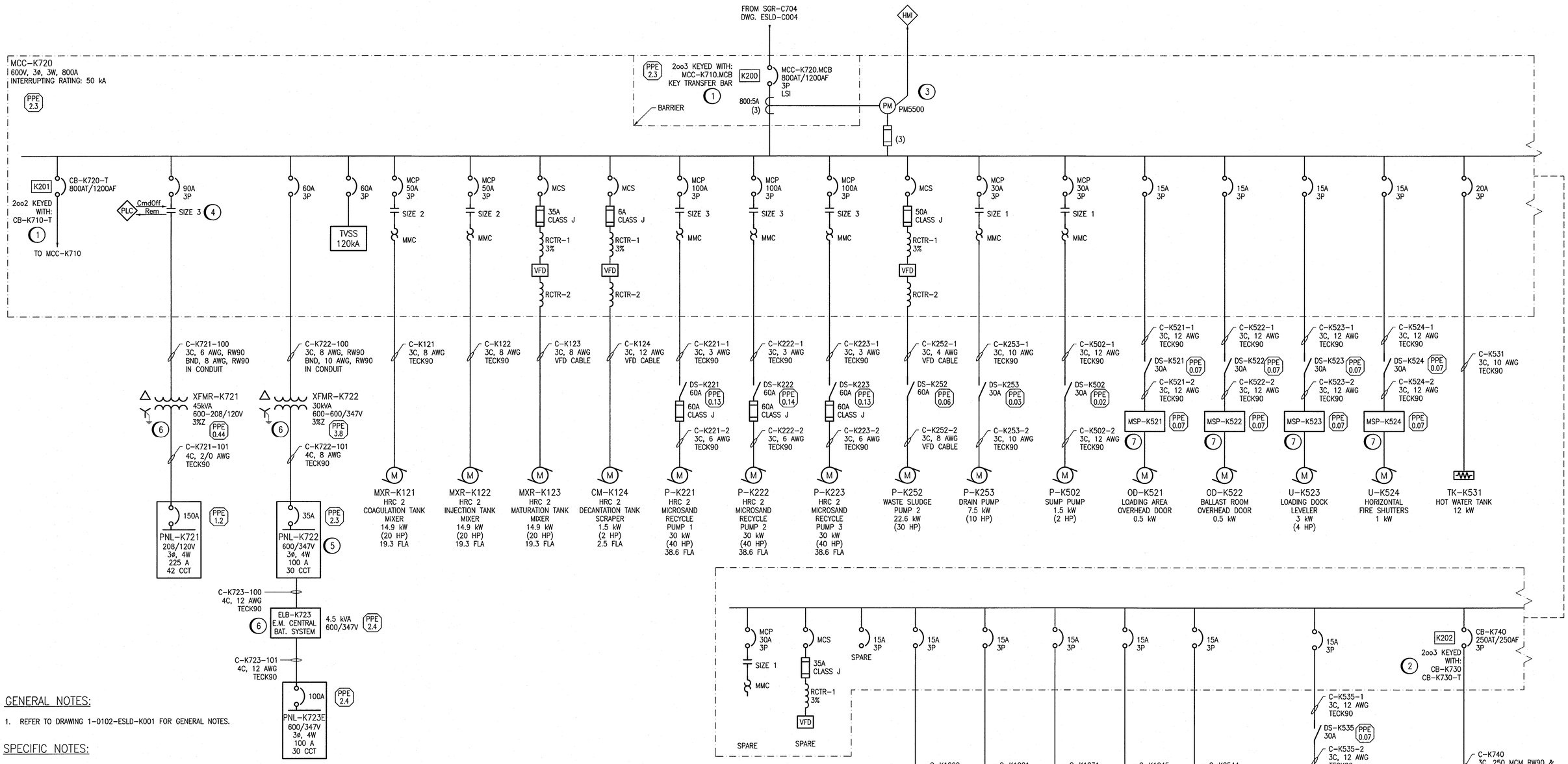


## GENERAL NOTES:

1. REFER TO DRAWING 1-0102-ESLD-K001 FOR GENERAL NOTES.

## SPECIFIC NOTES:

(1) PROVIDE KIRK KEY INTERLOCKS BETWEEN MCC-K710.MCB, MCC-K720.MCB, CB-K710-T, AND CB-K720-T TO PREVENT CLOSING OF TIE BREAKERS WHEN 2 SEPARATE UTILITY SOURCES ARE FEEDING THE MCC.

(2) PROVIDE KIRK KEY INTERLOCKS BETWEEN CB-K730, CB-K740, AND CB-K730-T TO PREVENT CLOSING OF TIE BREAKERS WHEN 2 SEPARATE UTILITY SOURCES ARE FEEDING THE MCC.

(3) PROVIDE POWER FOR POWER METER FROM PNL-K713U, CCT 4.

(4) PROVIDE NORMALLY OPEN CONTACTOR FOR PLC CONTROL OF 120/208V PANELBOARD. REFER TO DRAWING EMCL-K902 FOR DETAILS.

(5) PROVIDE 20A, 3P BREAKER IN LIGHTING PANEL TO FEED ESSENTIAL LIGHTING SYSTEM (CCT. 25,27,29).

(6) PROVIDE A SEPARATE 6 AWG RW90, GREEN INSULATED CONDUCTOR (RUN IN CONDUIT) FROM THE THE TRANSFORMER X0 TERMINAL, AND FROM THE E.M. CENTRAL BATTERY SYSTEM TO THE EQUIPMENT GROUNDING SYSTEM CONDUCTOR. REFER TO DWG. 1-0102-EGRD-K001 FOR DETAILS.

(7) WIRE AND CONNECT SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. REVIEW REQUIREMENTS ON SHOPDRAWINGS.

## DISCLAIMER NOTES:

1. ARC FLASH VALUES ARE PRELIMINARY AND WILL BE FINALIZED AT A LATER DATE.
2. IMPEDANCE %Z FOR TRANSFORMER ARE ESTIMATED AND WILL BE CORRECTED WITH ACTUAL VALUES SUBMITTED BY THE CONTRACTOR FROM SHOP DRAWING SUBMITTALS.

### MCC-K720 MAXIMUM LOAD ESTIMATE

| | CONNECTED LOAD (A) | DEMAND FACTOR | DEMAND LOAD (A) |
|---|---|---|---|
| LIGHTING | 11 | 1 | 11 |
| HVAC | 37 | 0.8 | 30 |
| MISC. | 47 | 0.5 | 24 |
| PROCESS | 220 | 0.8 | 176 |
| TOTAL | 315 | | 241 |

| REFERENCE DRAWINGS | DESCRIPTION |
|---|---|
| 1-0102-ECBD-K002 | ELECTRICAL, MCC-K720 LAYOUT AND SCHEDULE |
| 1-0102-EAAA-A001 | ELECTRICAL, LEGEND 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 | WE | DEB |

CH2MHILL. SNC·LAVALIN KGS GROUP

DESIGNED BY: V. ELIMBAN
CHECKED BY: E. RYCZKOWSKI
DRAWN BY: MJ. PERSSON
APPROVED BY: D. BECKER
SCALE: NTS
ISSUED FOR CONSTRUCTION BY: J. SHUMKA
DATE: 2014/12/11
DATE: 2017/04/05
CONSULTANT NO.: 474248

ENGINEER'S SEAL
PROVINCE OF MANITOBA
D.E. BECKER
Member
23646
REGISTERED PROFESSIONAL ENGINEER
Apr.15/2017

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE
SEWPCC UPGRADING/EXPANSION PROJECT
ELECTRICAL – SINGLE LINE DIAGRAM
HIGH RATE CLARIFICATION BUILDING
MCC-K720

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

A1 SIZE – 594mm x 841mm

LAST SAVE: 2017/03/24 – 9:55am
PATH: C:\DWG\1-0102-ESLD-K002.dwg

PLOT DATE: Mar 24, 2017 – 9:55am

FILE NAME: 1-0102-ESLD-K002.dwg