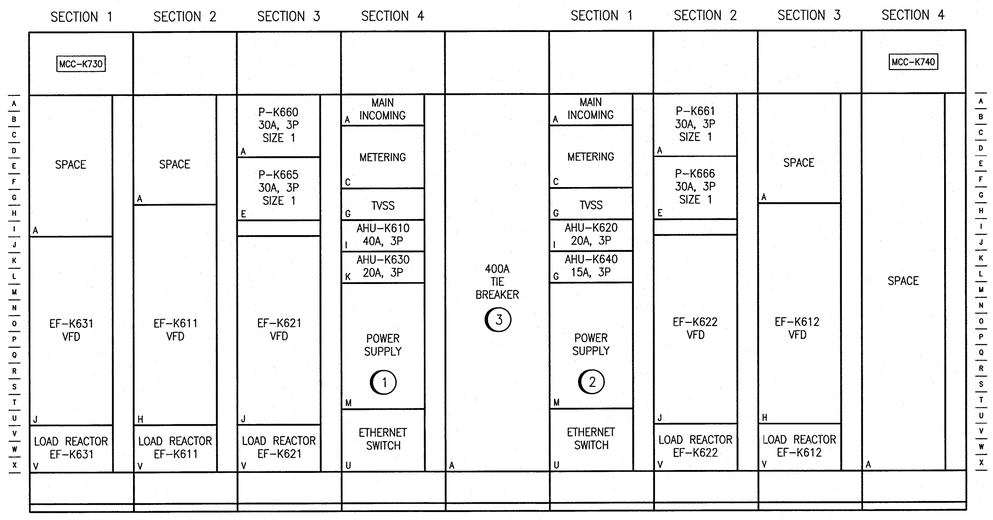
A1 SIZE – 594mm x 841mm

600 VOLT MOTOR CONTROL CENTRE – MCC–K730

MCC NUMBER	EQUIP. NUMBER	LOAD		MOTOR			STARTER			CIRCUIT PROTECTION		
		DESCRIPTION	LOCATION	HP	kW	FULL LOAD AMPS	NEMA SIZE	TYPE	OVERLOAD	CONT. RATING (AMPS)	FRAME TYPE	REMARKS
1A		SPACE										
1J	EF–K631	GALLERY EXHAUST FAN		2	1.5			VFD		6		
1V		EF–K631 LOAD REACTOR										
2A		SPACE										
2H	EF–K611	CLARIFIER ROOM EXHAUST FAN		15	11			VFD		30		
2V		EF–K611 LOAD REACTOR										
3A	P–K660	HOT WATER PUMP		7.5	5.6		SIZE 1		MMC	30		
3E	P–K665	GLYCOL PUMP		7	5.6		SIZE 1		MMC	30		
3J	EF–K621	PUMP ROOM EXHAUST FAN		1	0.75			VFD		6		
3V		EF–K621 LOAD REACTOR										
4A		MAIN INCOMING								250		CIRCUIT BREAKER IN MCC–K710
4C		METERING										PM5500
4G		TVSS								60		
4I	AHU–K610	AIR HANDLING UNIT		20	15	29.3				40		VFD INTEGRAL TO HVAC EQUIPMENT
4K	AHU–K630	AIR HANDLING UNIT		6	4.5	10.3				20		VFD INTEGRAL TO HVAC EQUIPMENT
4M		POWER SUPPLY FOR ETHERNET SWITCH										
4U		16 PORT ETHERNET SWITCH										PRODUCT NO. TCSESM163F23F0

600 VOLT MOTOR CONTROL CENTRE – MCC–K740

MCC NUMBER	EQUIP. NUMBER	LOAD		MOTOR			STARTER			CIRCUIT PROTECTION		
		DESCRIPTION	LOCATION	HP	kW	FULL LOAD AMPS	NEMA SIZE	TYPE	OVERLOAD	CONT. RATING (AMPS)	FRAME TYPE	REMARKS
1A		MAIN INCOMING								250		CIRCUIT BREAKER IN MCC–K720
1C		METERING										PM5500
1G		TVSS								60		
1I	AHU–K620	AIR HANDLING UNIT		6	4.5	10.3				20		VFD INTEGRAL TO HVAC EQUIPMENT
1K	AHU–K640	AIR HANDLING UNIT			2.45	4.4				15		VFD INTEGRAL TO HVAC EQUIPMENT
1M		POWER SUPPLY FOR ETHERNET SWITCH										
1U		16 PORT ETHERNET SWITCH										PRODUCT NO. TCSESM163F23F0
2A	P–K661	HOT WATER PUMP		7.5	5.6		SIZE 1		MMC	30		
2E	P–K666	GLYCOL PUMP		7.5	5.6		SIZE 1		MMC	30		
2J	EF–K622	PUMP ROOM EXHAUST FAN		1	0.75			VFD		6		
2V		EF–K622 LOAD REACTOR										
3A		SPACE										
3H	EF–K612	EXHAUST FAN		15	11			VFD		30		
3V		EF–K612 LOAD REACTOR										
4A		SPACE										



SPECIFIC NOTES

1. MCC–K730 TO BE FABRICATED COMPLETE WITH DUAL (REDUNDANT) POWER SUPPLIES FOR ETHERNET SWITCHES. REFER TO SPECIFICATIONS. PROVIDE UPS POWER TO ETHERNET SWITCHES FROM PNL–K713U, CCT. 9.
2. MCC–K740 TO BE FABRICATED COMPLETE WITH DUAL (REDUNDANT) POWER SUPPLIES FOR ETHERNET SWITCHES. REFER TO SPECIFICATIONS. PROVIDE UPS POWER TO ETHERNET SWITCHES FROM PNL–K713U, CCT. 10.
3. MCC VENDOR TO MAKE TIE BREAKER CONNECTION BETWEEN MCC–K730 AND MCC–K740 INTERNAL TO MCC.

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: 2015/01/30	DATE: 2017/04/05
CONSULTANT NO.: 474248	

ENGINEER'S SEAL: PROVINCE OF MANITOBA — D.E. BECKER — Member 23646 — REGISTERED PROFESSIONAL ENGINEER — Apr 5/ 2017

REFERENCE DRAWINGS	DESCRIPTION
0102–ESLD–K003	SINGLE LINE DIAGRAM, MCC–K730 & MCC–K740

Winnipeg — THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE
SEWPCC UPGRADING/EXPANSION PROJECT
ELECTRICAL – MCC/CABINETS DRAWING
HIGH RATE CLARIFICATION BUILDING
MCC–K730 AND MCC–K740 LAYOUT AND SCHEDULE

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1–0102–ECBD–K003	001	00	A1

PLOT DATE: Mar 24, 2017 – 9:39am
FILE NAME:1–0102–ECBD–K003.dwg

LAST SAVE: 2017/03/24 – 9:39am
PATH: C:\DWG\1–0102–ECBD–K003.dwg