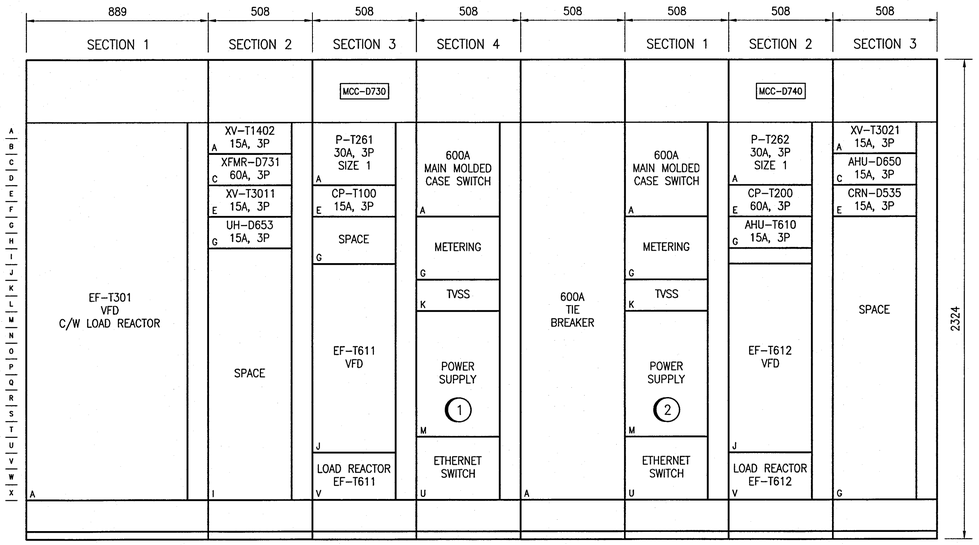
A1 SIZE – 594mm x 841mm

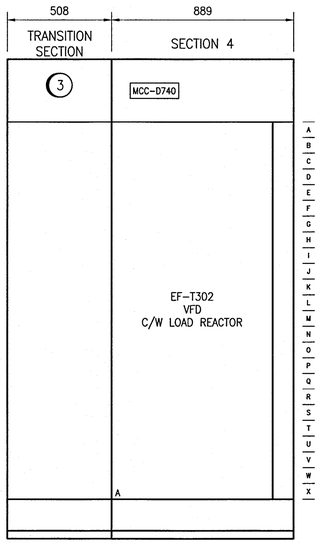
600 VOLT MOTOR CONTROL CENTRE – MCC–D730

MCC NUMBER	EQUIP. NUMBER	LOAD		MOTOR			STARTER			CIRCUIT PROTECTION	
		DESCRIPTION	LOCATION	HP	kW	FULL LOAD AMPS	NEMA SIZE	TYPE	OVERLOAD	CONT. RATING (AMPS)	REMARKS
1A	EF–T301	BIOFILTER EXHAUST FAN		150	112			VFD		200	CLASS J FUSE, C/W LOAD REACTOR
2A	XV–T1402	MICROSTRAINER OUTLET VALVE		1	0.75					15	
2C	XFMR–D731	XFMR–D731 AND PNL–D731								60	LSIG
2E	XV–T3011	BIOFILTER EXHAUST FAN INLET DAMPER		1	0.75					15	
2G	UH–D653	ELECTRICAL ROOM B ELECTRIC UNIT HEATER			4					15	
2I		SPACE									
3A	P–T261	PROCESS SUMP PUMP		4	3		SIZE		MMC	30	
3E	CP–T100	HUMIDIFIER ROOM CONTROL PANEL			4.25					15	
3G		SPACE								15	
3J	EF–T611	BIOFILTER HUMIDIFIER ROOM EXHAUST FAN 1		1	0.75			VFD		6	CLASS J FUSE
3V		EF–T611 LOAD REACTOR									
4A		MAIN MOLDED CASE SWITCH								600	
4G		METERING									
4K		TVSS								60	
4M		POWER SUPPLY FOR ETHERNET SWITCH									
4U		16 PORT ETHERNET SWITCH									PRODUCT NO. TCSESM163F23F0

600 VOLT MOTOR CONTROL CENTRE – MCC–D740

MCC NUMBER	EQUIP. NUMBER	LOAD		MOTOR			STARTER			CIRCUIT PROTECTION	
		DESCRIPTION	LOCATION	HP	kW	FULL LOAD AMPS	NEMA SIZE	TYPE	OVERLOAD	CONT. RATING (AMPS)	REMARKS
A		TIE BREAKER								600AT/600AF	LSIG
1A		MAIN MOLDED CASE SWITCH								600	
1G		METERING									
1K		TVSS								60	
1M		POWER SUPPLY FOR ETHERNET SWITCH									
1U		16 PORT ETHERNET SWITCH									PRODUCT NO. TCSESM163F23F0
2A	P–T262	PROCESS SUMP PUMP		4	3		SIZE 1		MMC	30	
2E	CP–T200	HUMIDIFIER ROOM CONTROL PANEL			20					60	LSIG
2G	AHU–T610	BIO FILTER AIR HANDLING			2.98					15	
2J	EF–T612	BIOFILTER HUMIDIFIER ROOM EXHAUST FAN 2		1	0.75			VFD		6	CLASS J FUSE
2V		EF–T612 LOAD REACTOR									
3A	XV–T3021	BIOFILTER EXHAUST FAN INLET DAMPER		1	0.75					15	
3C	AHU–D650	ELECTRICAL ROOM B PRESSURIZATION UNIT			0.75					15	
3E	CRN–D535	PUMP GALLERY MONORAIL TROLLEY, HOIST			1.5					15	
3G		SPACE									
4A	EF–T302	BIO FILTER EXHAUST FAN		150	112			VFD		200	CLASS J FUSE, C/W LOAD REACTOR





GENERAL NOTES:

1. ALL EQUIPMENT SHOWN ON THIS DRAWING IS NEW AND IS TO BE PROVIDED BY THE CONTRACTOR.
2. MCC–D730 AND MCC–D740 ARE LOCATED IN ELECTRICAL ROOM B IN THE FERMENTER AREA AND FEED LOADS IN THE BIOFILTER AREA.

SPECIFIC NOTES

1. MCC–D730 TO BE FABRICATED COMPLETE WITH DUAL (REDUNDANT) POWER SUPPLIES FOR ETHERNET SWITCHES. REFER TO SPECIFICATIONS. PROVIDE UPS POWER TO ETHERNET SWITCHES FROM PNL–6S, CCT. 22. REFER TO DWG AGAD–S001 FOR LOCATION OF PNL–6S.
2. MCC–D740 TO BE FABRICATED COMPLETE WITH DUAL (REDUNDANT) POWER SUPPLIES FOR ETHERNET SWITCHES. REFER TO SPECIFICATIONS. PROVIDE UPS POWER TO ETHERNET SWITCHES FROM PNL–6S, CCT. 24. REFER TO DWG AGAD–S001 FOR LOCATION OF PNL–6S.
3. PROVIDE 90° CORNER TRANSITION SECTION TO ALLOW MCC–D740 TO BE INSTALLED ON BOTH THE NORTH AND WEST SIDES OF ELECTRICAL ROOM B,. REFER TO DRAWING EGAD–D002.

REFERENCE DRAWINGS	DESCRIPTION
1–0102–ESLD–D004	MOTOR CONTROL CENTRE MCC–D740
1–0102–ESLD–D003	MOTOR CONTROL CENTRE MCC–D730

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: 2016/06/07	DATE: 2017/04/05
CONSULTANT NO.: 474248	

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

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE
SEWPCC UPGRADING/EXPANSION PROJECT
ELECTRICAL – MCC/CABINETS DRAWING
FERMENTERS/THICKENERS
MCC–D730 & MCC–D740 LAYOUT AND SCHEDULE

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1–0102–ECBD–D003	001	00	A1

LAST SAVE: 2017/03/24 – 2:20pm
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PLOT DATE: Mar 24, 2017 – 2:20pm
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