SHEET: COW-A1 (03/2005)

MCC – 1SB

MOLDED CASE SWITCH 250A, 600V	S760–MXR MCP SIZE 1 BIOREACTOR MIXER 3.75 kW	XFMR–SAB 40A–3P BREAKER	SPACE
	S761–MXR MCP SIZE 1 BIOREACTOR MIXER 3.75 kW	SPACE	SPACE
SPACE		MOLDED CASE TIE SWITCH 250A, 600V	
SPACE	S762–MXR MCP SIZE 1 BIOREACTOR MIXER 3.75 kW		SPACE
SPACE	S763–MXR MCP SIZE 1 BIOREACTOR MIXER 3.75 kW	S638–EF 15A–3P BREAKER BIOREAC. EXHAUST FAN 0.75 kW	SPACE
SPACE	SPACE	SPACE	SPACE
SPACE	S770–P 40A–3P BREAKER NITRIFIED RECYCLE PUMP 11.5kW; S810–WAP 20A–3P BREAKER WAS PUMP 5.0kW	SPACE	SPACE

(2)

A SE2.02 DETAIL
SCALE NTS

MCC – 2SB

MOLDED CASE SWITCH 250A, 600V	S765–MXR MCP SIZE 1 BIOREACTOR MIXER 3.75 kW	WELDING RECEPT. 60A–3P BREAKER	O/H DOOR CONTROL 15A–3P BREAKER	SPACE
	S766–MXR MCP SIZE 1 BIOREACTOR MIXER 3.75 kW	S780–AHU MCP SIZE 1 AIR HANDLING UNIT .75 kW		SPACE
SPACE				
SPACE	S767–MXR MCP SIZE 1 BIOREACTOR MIXER 3.75 kW	S639–EF 15A–3P BREAKER BIOREAC. EXHAUST FAN 0.75 kW	S768–SMP S769–SMP 15A–3P BREAKER SUMP PUMP 2x1.1 kW	SPACE
SPACE	S768–MXR MCP SIZE 1 BIOREACTOR MIXER 3.75 kW	SPACE	S780–AHU 15A–3P BREAKER AHU HEATER 3 kW	SPACE
SPACE	SPACE	SPACE		SPACE
SPACE	S771–P 40A–3P BREAKER NITRIFIED RECYCLE PUMP 11.5kW; S820–WAP 20A–3P BREAKER WAS PUMP 5.0kW	SPACE		SPACE

(2)

B SE2.02 DETAIL
SCALE NTS

PANEL SCHEDULE
Panel SAB

DESCRIPTION	LOAD	BKR	CCT	A	B	C	CCT	BKR	LOAD	DESCRIPTION
Lighting	375	15	1	*			2	15	2	Receptacle
Condensing Unit S790-CU	-	20	3		*		4	15	5	Receptacles - Bioreactor 1
		3P	5			*	6	15	5	Receptacles - Bioreactor 2
			7	*			8	15		Spare
Oxygen Transmitter S451-AIT		15	9		*		10	15		Oxygen Transmitter S461-AIT
Oxygen Transmitter S452-AIT		15	11			*	12	15		Oxygen Transmitter S462-AIT
Oxygen Transmitter S453-AIT		15	13	*			14	15		Oxygen Transmitter S463-AIT
Oxygen Transmitter S454-AIT		15	15		*		16	15		Oxygen Transmitter S464-AIT
Flow Transmitter S125-FIT		15	17			*	18	15		Flow Transmitter F558-AIT
Flow Transmitter F556-FIT		15	19	*			20	15		Flow Transmitter S121-AIT
Flow Transmitter S111-FIT		15	21		*		22	15		Flow Transmitter S122-AIT
Flow Transmitter S112-FIT		15	23			*	24	15		Spare
Flow Control Valve S458-FCV		15	25	*			26	15		Flow Control Valve S468-FCV
Flow Control Valve S810-FCV		15	27		*		28	15		Flow Control Valve S820-FCV
Flow Control Valve S556-FCV		15	29			*	30	15		Flow Control Valve F558-FCV
Motorized Dampers for 780-AHU		15	31	*			32	15		Spare
Space		-	33		*		34	15		Spare
Space		-	35			*	36	15		Spare
Space		-	37	*			38	-		Space
Space		-	39		*		40	-		Space
Space		-	41			*	42	-		Space

Voltage:	120/208V/3Ø/4 wire	Feeder:	4/C#3 TECK
Mains:	225A	Main Breaker:	N/A
Location:	Bioreactor Electrical Room	Power Source:	Transfromer SAB
Mounting:	Surface		

APEGM
Certificate of Authorization
Earth Tech Canada Inc.
No. 730 Expiry: April 30, 2006

DRAWING NOTES

1. NEW WRAPPERS SHALL BE INSTALLED IN EXISTING STARTER SPACES AND SHALL CONTAIN A NEW 20A–3P, 600V BREAKERS (ONE FOR S810–WAP AND ONE FOR S820–WAP). WIRE TO NEW REMOTE VFD'S (SUPPLIED BY DIVISION 11) AS INDICATED ON ELECTRICAL DRAWINGS. WIRE FROM VFD'S TO NEW PUMPS S810–WAP AND S820–WAP AND MAKE ALL CONNECTIONS.
2. PANEL SB INSTRUMENT CIRCUITS – REFER TO INSTRUMENTATION AND CONTROL DRAWINGS FOR INSTRUMENTATION LOCATIONS. PROVIDE WIRE AND CABLE AS PER INSTRUMENT CABLE LIST.

GENERAL NOTES

1. COORDINATE WITH OTHER TRADES TO PREVENT CONFLICTS.
2. USE PVC JACKETED HITECK CABLE FOR ALL POWER WIRING.
3. WIRING FOR LIGHTING, RECEPTACLES AND COMMUNICATIONS TO IN RGID ALUMINUM CONDUIT.
4. ALL CONDUIT TO BE 21mmø MINIMUM UNLESS OTHERWISE NOTED.

B.M.
ELEV.

NO.	REVISIONS	DATE	BY
02	21–2006 ADDENDUM 6	06/07/05	SRP
01	21–2006 ADDENDUM 3	06/05/19	ERC
00	ISSUED FOR TENDER	06/04/26	ERC

Earth Tech
A Tyco International Ltd. Company

DESIGNED BY	GSN	CHECKED BY	PS
DRAWN BY	ERC	APPROVED BY	JEH
HOR. SCALE: AS NOTED VERTICAL SCALE:		RELEASED FOR CONSTRUCTION BY:	J. VEILLEUX
DATE	2005/12/19	DATE	2006/04/26

ENGINEER'S SEAL
ORIGINAL SIGNED BY
P. STRYK
2006/04/26

CONSULTANT DRAWING NO.
SE2.03

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

WEWPCC
BIOLOGICAL NUTRIENT REMOVAL UPGRADE
CONTRACT 3

CITY FILE NUMBER
SHEET OF

ELECTRICAL
AREA S – BIOREACTORS
ELECTRICAL ROOM DETAILS

CITY DRAWING NUMBER