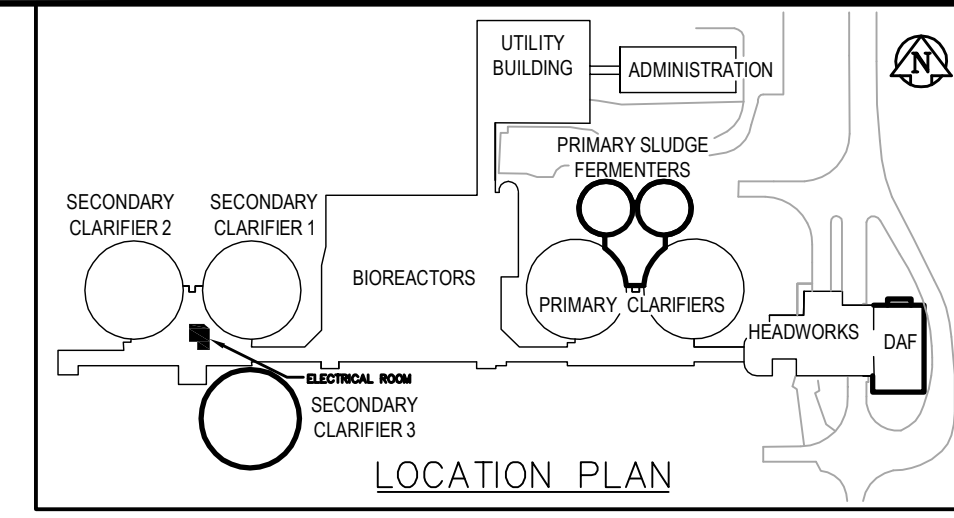


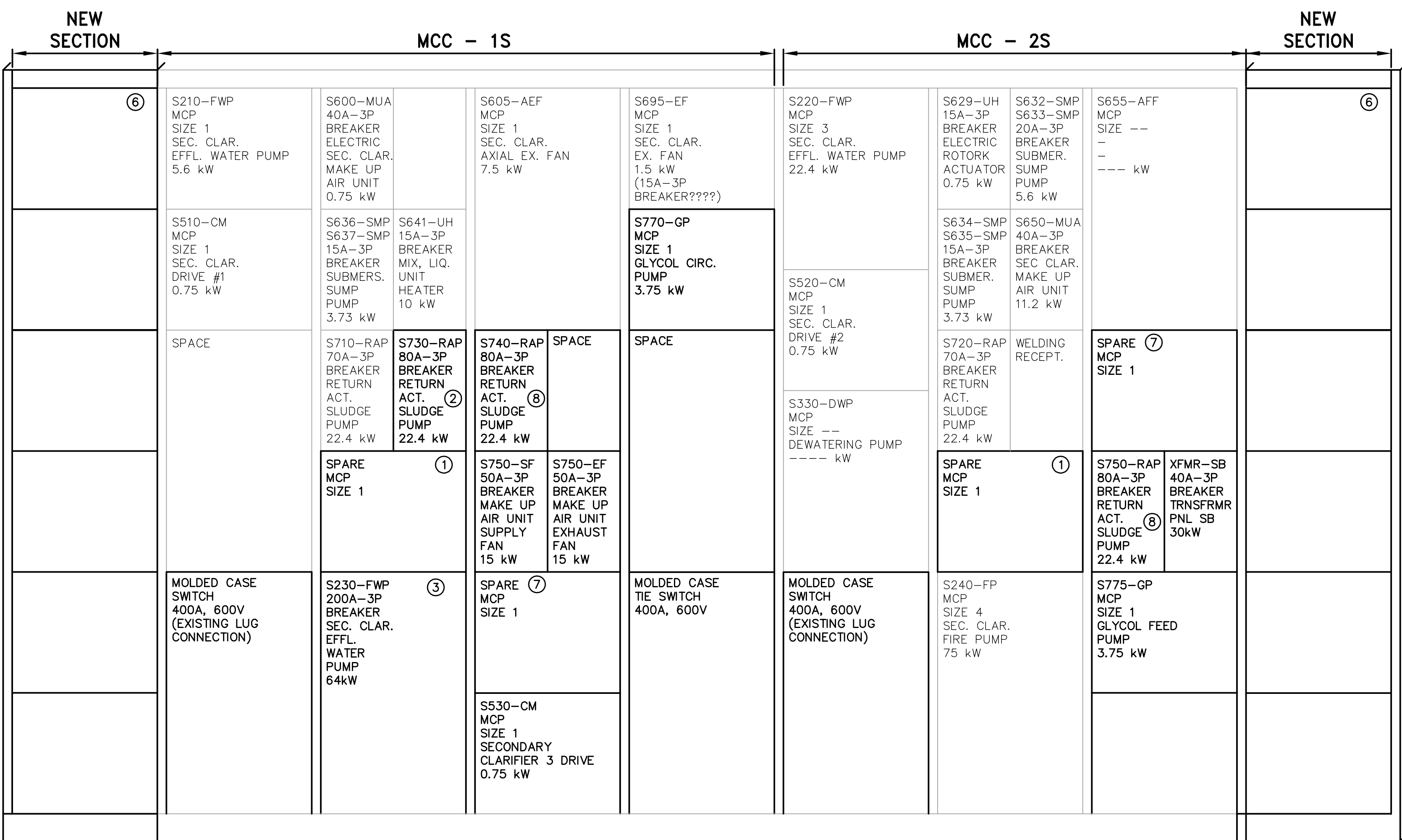
Panel SB												
DESCRIPTION	LOAD	BKR	CCT	A	B	C	CCT	BKR	LOAD	DESCRIPTION		
Receptacle	2	15A	1	*			2	15		Glycol Feed Tank S776-GFT		
Receptacle	2	15	3	*			4	20		Natural Gas Blower S760-GH		
Receptacle	3	15	5	*			6	20		Natural Gas Blower S765-GH		
Receptacle	3	15	7	*			8	15		Supply Fan S780-SF		
Flow Transmitter S820-FIT	15	9	*				10	15		Flow Transmitter S720-FIT		
Flow Transmitter S540-FIT	15	11	*				12	15		Flow Transmitter S740-FIT		
Flow Transmitter S710-FIT	15	13	*				14	15		Flow Transmitter S821-FIT		
Spare	15	15	*				16	-		Space		
Spare	15	17	*				18	-		Space		
Spare	15	19	*				20	-		Space		
Spare	15	21	*				22	-		Space		
Spare	15	23	*				24	-		Space		
Motorized Dampers for 750-AHU	15	25	*				26	-		Space		
Motorized Dampers for 780-SF	15	27	*				28	-		Space		
Control Valve for 750-AHU	15	29	*				30	-		Space		
Space	-	31	*				32	-		Space		
Space	-	33	*				34	-		Space		
Space	-	35	*				36	-		Space		
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: Secondary Clarifier Electrical Room	Power Source: Transformer XFMR-SB
Mounting: Surface	



**FLOOR PLAN**  
SCALE: 1:25



**DRAWING NOTES**

- MOTOR CONTROL CENTRES 1S & 2S**
- SIZE 1 STARTERS FOR WAS ACTIVATED SLUDGE PUMPS S810-WAP AND S820-WAP SHALL BE DISCONNECTED AND LEFT IN PLACE AS SPARES. EXISTING PUMPS S810-WAP AND S820-WAP SHALL BE DISCONNECTED AND ALL WIRING FROM EXISTING STARTERS TO BE REMOVED. (REFER TO DRAWING SE3.02) MODIFY STARTER LABELS TO SUIT REVISED EQUIPMENT. MODIFY WRAPPER DOOR AS REQUIRED.
  - REMOVE BREAKER (MCC-1S) FOR EXISTING PUMP S730-RAP. REPLACE BREAKER WITH NEW 80A-3P, 600V BREAKER. RECONNECT EXISTING WIRING. REFER TO DRAWING SE3.02.
  - SIZE 3 STARTER (MCC-1S) FOR FLUSHING WATER PUMP S230-FWP SHALL BE DISCONNECTED AND REMOVED. PROVIDE NEW MCC WRAPPER COMPLETE WITH 200A-3P BREAKER. REMOVE EXISTING WIRING FROM EXISTING STARTER TO EXISTING PUMP MOTOR. INSTALL NEW POWER WIRING TO NEW PUMP MOTOR (3/C#1 TECK CABLE). RECONNECT EXISTING CONTROL WIRING FOR S230-FWP AT NEW MOTOR STARTER.
  - PROVIDE NEW STARTER AND BREAKER WRAPPERS IN EXISTING SPACES AS INDICATED ON MCC ELEVATION. MODIFY DOORS TO SUIT NEW STARTERS, CONTROL SWITCHES, INDICATING LIGHTS AND BREAKERS AS REQUIRED.
  - EXISTING MCC'S. REFER TO DETAIL FOR EXISTING DETAILS AND MODIFICATIONS.
  - PROVIDE ADDITIONAL VERTICAL CELL TO EACH END OF MCC. CONNECT TO EXISTING MCC BUS.
  - SIZE 1 STARTERS FOR WAS ACTIVATED SLUDGE PUMPS S850-SP AND S860-SP SHALL BE DISCONNECTED AND LEFT IN PLACE AS SPARES. EXISTING PUMPS S850-SP AND S860-SP SHALL BE DISCONNECTED AND ALL WIRING FROM EXISTING STARTERS TO BE REMOVED. (REFER TO DRAWING SE3.02) MODIFY STARTER LABELS TO SUIT REVISED EQUIPMENT. MODIFY WRAPPER DOOR AS REQUIRED.
  - PROVIDE NEW BREAKER WRAPPERS IN EXISTING SPACES AS INDICATED ON MCC ELEVATION FOR RETURN ACTIVATED SLUDGE PUMPS S740-RAP AND S750-RAP. PROVIDE NEW SIZE R5 VFD'S AS SHOWN ON FLOOR PLAN. INSTALL NEW POWER WIRING TO NEW VFD AND FROM VFD TO PUMP MOTOR (3/C#4 TECK CABLE WITH 100% GROUND WIRE).
  - PANEL SB INSTRUMENT CIRCUITS - REFER TO INSTRUMENTATION AND CONTROL DRAWINGS FOR INSTRUMENTATION LOCATIONS. PROVIDE WIRE AND CABLE AS PER INSTRUMENT CABLE LIST.

**GENERAL NOTES**

- COORDINATE WITH OTHER TRADES TO PREVENT CONFLICTS.
- USE PVC JACKETED HITECK CABLE FOR ALL POWER WIRING.
- WIRING FOR LIGHTING, RECEPTACLES AND COMMUNICATIONS TO IN RIGID ALUMINUM CONDUIT.
- ALL CONDUIT TO BE 21mmØ MINIMUM UNLESS OTHERWISE NOTED.

**1** DETAIL - EXISTING MOTOR CONTROL CENTRE MODIFICATIONS  
SCALE 1:25



B.M. ELEV.	<b>EarthTech</b> A Tyco International Ltd. Company		ENGINEER'S SEAL	<b>THE CITY OF WINNIPEG</b> WATER AND WASTE DEPARTMENT ENGINEERING DIVISION
	DESIGNED BY: GSN	CHECKED BY: PS	ORIGINAL SIGNED BY: P. STRYK	
	DRAWN BY: ERC	APPROVED BY: JEH	2006/04/26	WEPCC BIOLOGICAL NUTRIENT REMOVAL UPGRADE CONTRACT 3
02 ISSUED FOR CONSTRUCTION 06/09/22 SRP	HOR. SCALE: NTS		CONSULTANT DRAWING NO. SE4.01	CITY FILE NUMBER
01 21-2006 ADDENDUM 3 06/09/15 ERC	VERTICAL SCALE:			SHEET OF
00 ISSUED FOR TENDER 06/04/26 ERC	RELEASED FOR CONSTRUCTION BY: J. VEILLEUX			CITY DRAWING NUMBER
NO. REVISIONS	DATE	BY	DATE	ELECTRICAL AREA S - SECONDARY CLARIFIERS EXISTING ELECTRICAL ROOM DETAILS