SINGLE LINE DIAGRAM SCALE: NTS

DRAWING NOTES

(NEW) TVSS

800A BUS

EXISTING MCC - 1S

1 FEEDER FROM SPARE BREAKER LOCATED IN EXISTING MAIN 600V DISTRIBUTION WILL BE UTILIZED TO FEED NEW MCC-1SB AND MCC-2SB LOCATED IN NEW BIOREACTOR ELECTRICAL ROOM. CONTRACTOR TO ALLOW EXTRA 15m LENGTH OF FEEDER CABLES IN AREA BELOW EXISTING SWITCHGEAR FOR FUTURE USE.

(NEW) TVSS

800A BUS

EXISTING MCC - 2S

SECONDARY CLARIFIER AREA ELECTRICAL ROOM

- 2) REMOVE EXISTING CABLE LUGS FOR MCC-1H AND MCC-2H. PROVIDE A NEW 400A MOLDED CASE SWITCH AT EXISTING LUG LOCATIONS. PROVIDE KEY INTERLOCK BETWEEN THE 2 MAIN SWITCHES AND TIE SWITCH.
- 3) PROVIDE 400A MOLDED CASE TIE SWITCH IN MCC-1H. CONNECT FROM TIE SWITCH TO MCC-2H BUS TO PROVIDE REDUNDANCY BETWEEN MCC-1H AND MCC-2H. PROVIDE KEYED INTERLOCKS FOR MAIN MCC MOLDED CASE SWITCHES AND TIE MOLDED CASE SWITCH.
- 4 MCC-1HA SHALL BE RELOCATED TO NEW LOCATION AS INDICATED ON DRAWING HE1.01. EXTEND WIRING FROM SHUNT BREAKER IN MCC-1H TO MCC-HA NEW LOCATION AND CONNECT TO MCC-1HA BUS.
- 5 PROVIDE NEW 200A-3P, 600V BREAKER IN EXISTING MCC-1H TO FEED NE MCC-1T AND IN MCC-2H TO FEED NEW MCC-T2.
- 6 PROVIDE 200A-3P, 600V MAIN MOLDED CASE SWITCHES FOR MCC-1T AND MCC-2T AS INDICATED ON DRAWING TE2.01. PROVIDE 200A-3P, 600V MOLDED CASE TIE SWITCH IN MCC-1T. PROVIDE CABLE CONNECTION FROM TIE SWITCH IN MCC-1T TO BUS IN MCC-2T. PROVIDE KEY INTERLOCK BETWEEN THE MCC MAIN SWITCHES AND THE TIE SWITCH.
- 7) PROVIDE 250A-3P, 600V MAIN MOLDED CASE SWITCHES FOR MCC-1SB AND MCC-2SB AS INDICATED ON DRAWING SE2.03. PROVIDE 250A-3P, 600V MOLDED CASE TIE SWITCH IN MCC-1SB. PROVIDE CABLE CONNECTION FROM TIE SWITCH IN MCC-1SB TO BUS IN MCC-2SB. PROVIDE KEY INTERLOCK BETWEEN THE MCC MAIN SWITCHES AND THE TIE SWITCH. REMOVE EXISTING CABLE LUGS AT NEW MAIN SWITCH.
- (8) PROVIDE 400A-3P, 600V MAIN MOLDED CASE SWITCHES FOR MCC-1S AND MCC-2S AS INDICATED ON DRAWING SE4.01. PROVIDE 400A-3P, 600V MOLDED CASE TIE SWITCH IN MCC-1S. PROVIDE CABLE CONNECTION FROM TIE SWITCH IN MCC-1S TO BUS IN MCC-2S. PROVIDE KEY INTERLOCK BETWEEN THE MCC MAIN SWITCHES AND THE TIE SWITCH. REMOVE EXISTING CABLE LUGS AT NEW MAIN SWITCH LOCATION.
- 9 PROVIDE TWO NEW VERTICAL CELLS AND PROVIDE BUS CONNECTION TO EXISTING MCC-1H. REFER TO DRAWING HE1.01 AND HE2.01.
- 10 PROVIDE ONE VERTICAL CELL AT END OF MCC-1S. PROVIDE ONE VERTICAL CELL AT END OF MCC-2S. PROVIDE BUS CONNECTIONS FOR EACH NEW VERTICAL CELL TO RESPECTIVE MCC'S
- (11) WORK ON EXISTING MCC'S IS TO BE COMPLETED BY J.R. STEPHENSEN,

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

B.M. ELEV.				EarthTech			ENGINEER'S SEAL	
				A Tyco International Ltd. Company				ORIGINAL SIGNED BY
				DESIGNED BY	GSN	CHECKED BY	PS	P. STRYK
				DRAWN BY	ERC	APPROVED BY	JEH	2006/04/26
				HOR. SCALE: NTS VERTICAL SCALE:		RELEASED FOR CONSTRUCTION BY: J. VEILLEUX		
00	ISSUED FOR TENDER	06/04/26	ERC					CONSULTANT DRAWING NO.
NO.	REVISIONS	DATE	BY	DATE 200	05/11/22	DATE 2	006/04/26	LE1.03

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT Winnipeg ENGINEERING DIVISION

CITY FILE NUMBER WEWPCC BIOLOGICAL NUTRIENT REMOVAL UPGRADE SHEET OF CONTRACT 3 CITY DRAWING NUMBER ELECTRICAL AREA L — GENERAL AND SITEWORKS MODIFIED SINGLE LINE DIAGRAM