

**PARTIAL LOWER LEVEL PLAN – BIOREACTOR 1**  
SCALE : 1:100

**NOTES:**

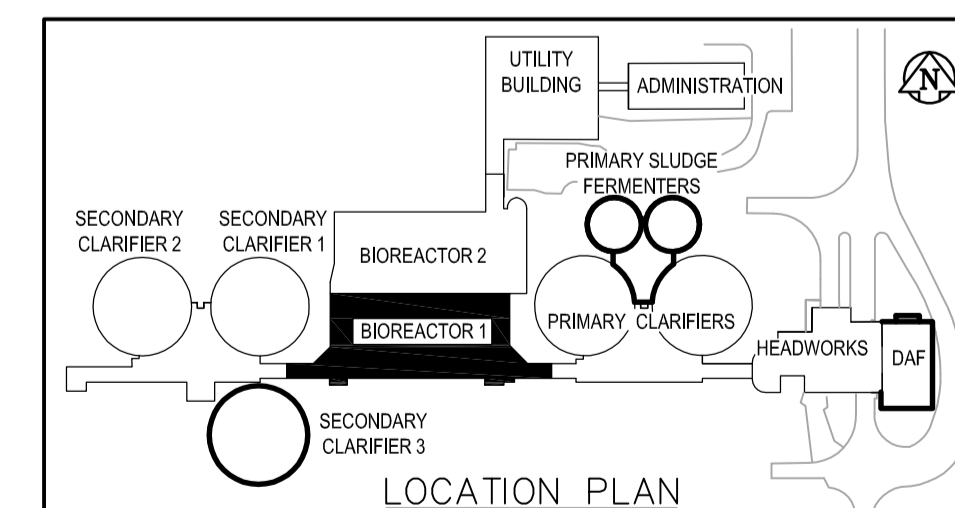
- EXISTING CONCRETE SURFACE TO BE INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF 5mm & TO BE CLEAN, SOUND & FREE OF LAITANCE. EXISTING CONC. TO BE IN A S.S.D. CONDITION FOR 24 HOURS PRIOR TO CASTING OF CONCRETE INFILL WALLS/BEAMS. TYPICAL AT NEW & EXISTING INTERSECTION POINTS FOR: CB-1, CB-2, CB-3, CC-1, SL-1 & CW-6
- MAXIMUM CONSTRUCTION LOAD NOT TO EXCEED A SERVICE LOAD OF 12.0 kPa WITHIN THE EXISTING GALLERY TUNNELS.
- NOTE: RE: DIMENSION SLAB ELEVATIONS ±

**CONCRETE BEAM SCHEDULE**

MARK	WIDTH	DEPTH	REINFORCING				ADDITIONAL	REMARKS
			TOP	MIDDLE	BOTTOM	STIRRUPS		
CB-1	350	800	2-20M		2-20M	15M @ 200 o/c		
CB-2	400	1225	2-20M	4-15M E.F.	5-20M	10M @ 300 o/c	2-20M UP TURN DOWELS T&B	50 DEEP KEY, WIDTH & DEPTH OF BEAM
CB-3	250	400	2-15M	-	2-20M	10M @ 175 o/c		50 DEEP KEY, WIDTH & DEPTH OF BEAM

**CONCRETE WALL SCHEDULE**

MARK	WIDTH	REINFORCING		REMARKS
		VERTICAL	HORIZONTAL	
CW-1	350	20M @ 300 E.F.	20M @ 300 E.F.	
CW-2	350	20M @ 300 E.F.	20M @ 300 E.F.	
CW-3	350	20M @ 300 E.F.	20M @ 300 E.F.	
CW-4	350	20M @ 300 E.F.	20M @ 300 E.F.	
CW-5	350	20M @ 300 E.F.	20M @ 300 E.F.	
CW-6	400	20M @ 300 E.F.	20M @ 300 E.F.	



B.M. ELEV.	<b>EarthTech</b> A Tyco International Ltd. Company		ENGINEER'S SEAL
	DESIGNED BY: AA/JB	CHECKED BY: AA/JB	ORIGINAL SIGNED BY: J. BETKE
	DRAWN BY: WDB	APPROVED BY: JEH	2006/04/26
	HOR. SCALE: AS NOTED	RELEASED FOR CONSTRUCTION BY: J. VEILLEUX	CONSULTANT DRAWING NO. SS2.01
	VERTICAL SCALE:		
01 21-2006 ADDENDUM 3 06/05/19 SRP	DATE	DATE	DATE
00 ISSUED FOR TENDER 06/04/26 KK	2006/04/26	2006/04/26	2006/04/26

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT  
ENGINEERING DIVISION

**WEWPC**  
BIOLOGICAL NUTRIENT REMOVAL UPGRADE  
CONTRACT 3

STRUCTURAL  
AREA S – BIOREACTOR 1  
PARTIAL LOWER LEVEL PLAN & SCHEDULES

CITY FILE NUMBER  
SHEET OF  
CITY DRAWING NUMBER