



- NOTES:**
1. INSTALL EXISTING PNEUMATIC OPERATOR ON NEW VALVE.
  2. EXISTING VALVE S112-HV1-V302 RENAMED AS S114-FCV.
- BIOREACTOR 2 MIXER 1**  
 EQUIP. NO.: S-765-MXR  
 SPEC: 11395  
 TYPE: SUBMERSIBLE PROPELLER  
 DRIVE: FIXED SPEED  
 POWER: 3.75 kW
- BIOREACTOR 2 MIXER 2**  
 EQUIP. NO.: S-766-MXR  
 SPEC: 11395  
 TYPE: SUBMERSIBLE PROPELLER  
 DRIVE: FIXED SPEED  
 POWER: 3.75 kW
- BIOREACTOR 2 MIXER 3**  
 EQUIP. NO.: S-767-MXR  
 SPEC: 11395  
 TYPE: SUBMERSIBLE PROPELLER  
 DRIVE: FIXED SPEED  
 POWER: 3.75 kW
- BIOREACTOR 2 MIXER 4**  
 EQUIP. NO.: S-768-MXR  
 SPEC: 11395  
 TYPE: SUBMERSIBLE PROPELLER  
 DRIVE: FIXED SPEED  
 POWER: 3.75 kW

**AECOM**  
 As of January 3, 2009,  
 EarthTech became AECOM  
 Canada Ltd.

**PROJECT 773-2015**  
**KGS GROUP**  
 CONSULTING ENGINEERS

NO.	REVISIONS	DATE	BY
05	RE-ISSUED FOR BID-OP 773-2015	15/09/25	JL
04	ISSUED FOR BID-OP 773-2015	15/09/16	JS
03	AS CONSTRUCTED	08/09/12	AS
02	ISSUED FOR CONSTRUCTION	06/09/22	SRP
01	21-2006 ADDENDUM 3	06/05/19	SRP
00	ISSUED FOR TENDER	06/04/26	CD

DESIGNED BY	CGL/EVS	CHECKED BY	KM/ST
DRAWN BY	LAE/PPL	APPROVED BY	JEH
HOR. SCALE:	NONE	RELEASED FOR CONSTRUCTION BY:	J. VAILLEUX
VERTICAL SCALE:		DATE	2005/07/06
DATE	2005/07/06	DATE	2006/04/26

**EarthTech**  
 A Tyco International Ltd. Company

ENGINEER'S SEAL  
 ORIGINAL SIGNED BY  
 S.W. TORMEY  
 2006/04/26

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

**WEWPCC**  
 BIOLOGICAL NUTRIENT REMOVAL UPGRADE  
 CONTRACT 3

PROCESS  
 AREA S - BIOREACTORS  
 BIOREACTOR 2 - P&ID

CITY FILE NUMBER  
 SHEET OF  
 CITY DRAWING NUMBER  
**1-01035-A0002-001-05**

CONSULTANT DRAWING NO.  
 L12.03