A REF.1 LIFT STATION – SECTION

SCALE: 1:30

GENERAL NOTES:

1. PERFORM WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
2. EQUIPMENT LOCATIONS AND PIPE ROUTING THE DRAWINGS IS APPROXIMATE ONLY. CONFIRM ALL LOCATIONS IN THE FIELD. LISTED DIMENSIONS ARE APPROXIMATE AND ARE ONLY INTENDED FOR BIDDING PURPOSES. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DIMENSIONS AND ROUTING IN THE FIELD FOR ORDERING EQUIPMENT AND COMMENCING INSTALLATION WITHOUT EXTRA CHARGES TO THE PROJECT.
3. CONTRACTOR TO ENSURE PIPES ARE ADEQUATELY SUPPORTED AGAINST MOVEMENT PRIOR TO PRESSURIZATION.
4. ALL EQUIPMENT SHOWN ON THIS DRAWING IS NEW AND IS TO BE PROVIDED BY THE CONTRACTOR UNLESS OTHERWISE INDICATED AS EXISTING.

KEYNOTES:

1. INSTALL SHAFT GUARD SUPPLIED WITH PUMP SHAFT OR PROVIDE SHAFT MACHINE GUARDS (TYPICAL 3 EACH) IN ACCORDANCE WITH CSA Z432, SAFE GUARDING OF MACHINERY. GUARD PAINT FINISH SHALL BE SAFETY YELLOW.
2. SUPPLY AND INSTALL MAGNETIC FLOW METER IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND WITH A MINIMUM OF 5 PIPE DIAMETERS UPSTREAM AND 3 PIPE DIAMETERS DOWN STREAM OF STRAIGHT PIPE.
3. SUPPLY AND INSTALL GATE VALVE WITH MANUAL OPERATOR 1.5m ABOVE THE FLOOR LEVEL.
4. FABRICATED STEEL MOTOR STAND SUPPLIED WITH PUMP TO BE BOLTED DIRECTLY TO HOUSEKEEPING PAD. PROVIDE ANCHOR BOLT DETAILS TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

B – DETAIL – PLAN VIEW OF FORCEMAIN

SCALE: N.T.S.

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

500 0 500 1000 1500 2000 2500
SCALE: 1:30mm

NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE
10		
9		
8		
7		
6		
5		
4		
3	1-0162L-M0012-001	NEW PROCESS PIPING – SECTIONS AND DETAILS
2	1-0162L-M0010-001	PIPING SUPPORT – STANDARD DETAILS
1	1-0162L-M0005-001	NEW PROCESS PIPING – PLANS

REFERENCE DRAWINGS

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
KGS Group
No. 245

B.M.
ELEV.

NO.	REVISIONS	DATE (YY.MM.DD)	BY
0	ISSUED FOR CONSTRUCTION	2023 03 24	

KGS GROUP

DESIGNED BY	K. RADTKE	CHECKED BY	
DRAWN BY	R. PERALTA	APPROVED BY	
SCALE: HORIZONTAL VERTICAL	AS SHOWN	RELEASED FOR CONSTRUCTION	
DATE	2022 07 19	DATE	

PLOT DATE: 2023 03 22

ENGINEER'S SEAL
PROVINCE OF MANITOBA
J.V. SMITH
2023-03-22
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NUMBER
22-0107-004_M06

BID OPPORTUNITY: 864-2022

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

METCALFE LIFT PUMPING STATION
2022 UPGRADES
MECHANICAL
NEW PROCESS PIPING
SECTION

CITY DRAWING NUMBER 1-0162L-M0006-001

SHEET 77 OF 109

FILE PATH: P:\Projects\2022\22-0107-004\Dwg\Mech\
FILE NAME: 1-0162L-M0006-001.dwg