THE INFORMATION CONTAINED IN THESE DRAWINGS SHALL BE ORIENTED IN THE SAME DATUM AS THE GIS, NAD 1983 JUNE 1990.

210 × 250

SIGHT GLASS INSTRUCTIONS

1. KEEP VALVE 'D' CLOSED DURING NORMAL OPERATION TO PREVENT FOULING OF SIGHT GLASS. IF SIGHT GLASS IS NEEDED THEN OPEN VALVE 'D'. CLEAN AND ISOLATE THE SIGHT GLASS WHEN FINISHED.

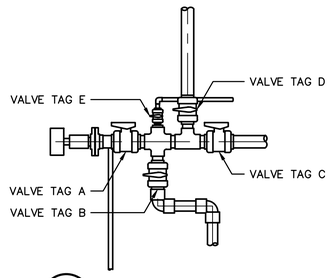
2. TO CLEAN AND ISOLATE THE SIGHT GLASS AFTER IT HAS BEEN USED:
   - A. KEEP VALVE 'D' OPEN.
   - B. CLOSE VALE 'C' TO ISOLATE FROM WETWELL.
   - C. OPEN VALVE 'B' TO DRAIN WATER TO SUMP.
   - D. CLOSE VALVE 'A' O ISOLATE LEVEL TRANSMITTER.
   - E. CLEAN SIGHT GLASS FROM THE TOP CAP USING A HOSE
   - F. WHEN CLEANING IS COMPLETE, CLOSE VALVES 'D' AND 'B'. THEN OPEN VALVES 'A' AND 'C'.

3. TO PURGE SLUDGE FROM PIPING BACK INTO THE WETWELL.
   - F.1. KEEP VALVE 'C' OPEN.
   - F.2. CLOSE VALVE 'A' TO ISOLATE LEVEL TRANSMITTER.
   - F.3. OPEN VALVE 'E' TO PURGE SLUDGE BACK INTO THE WETWELL.
   - F.4. WHEN PURGING IS COMPLETE, CLOSE VALVE 'E' THEN OPEN VALVE 'A'.

4. TO DRAIN SYSTEM:
   - F.1. CLOSE VALVE 'C'.
   - F.2. OPEN VALVE 'B'.
   - F.3. WHEN DRAINING IS COMPLETE CLOSE VALVE 'B' THEN OPEN VALVE 'C'.

TYP OF 1, FASTEN TO WALL SO THAT LAMACOID IS VISIBLE TO OPERATORS

LAMACOID DETAIL
SCALE: 1:1



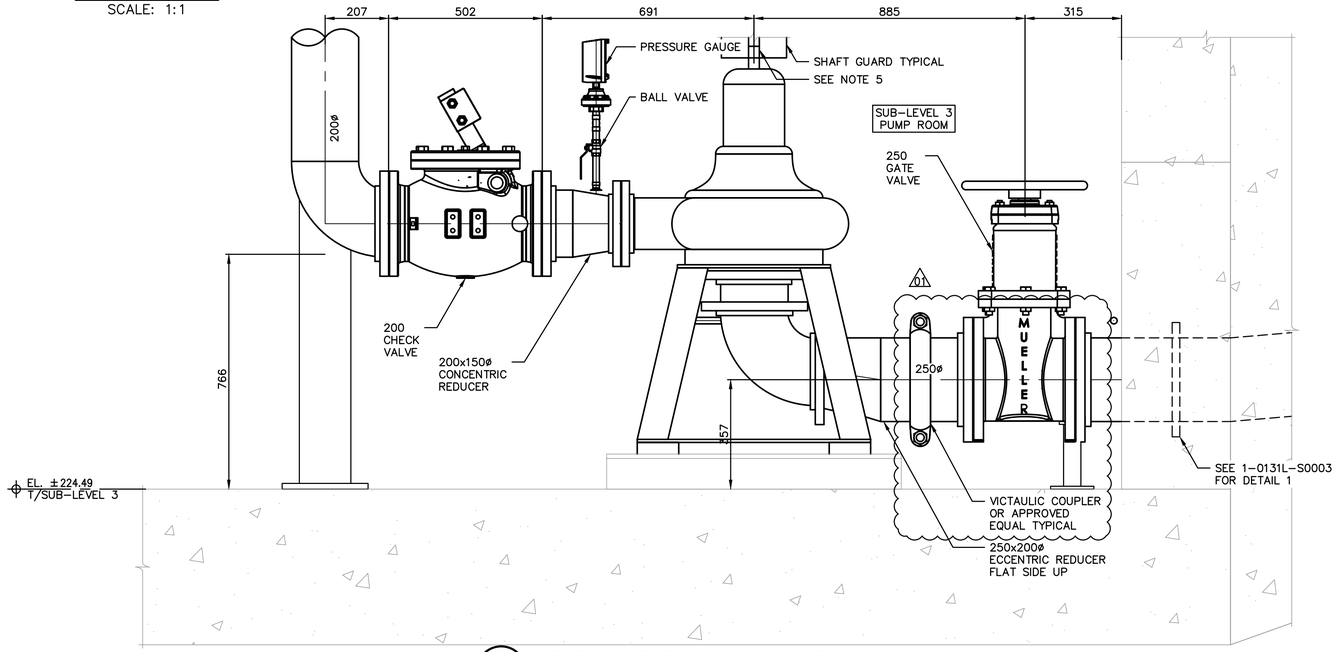
1 VALVE TAGS
SCALE: N.T.S.

KEY NOTES:

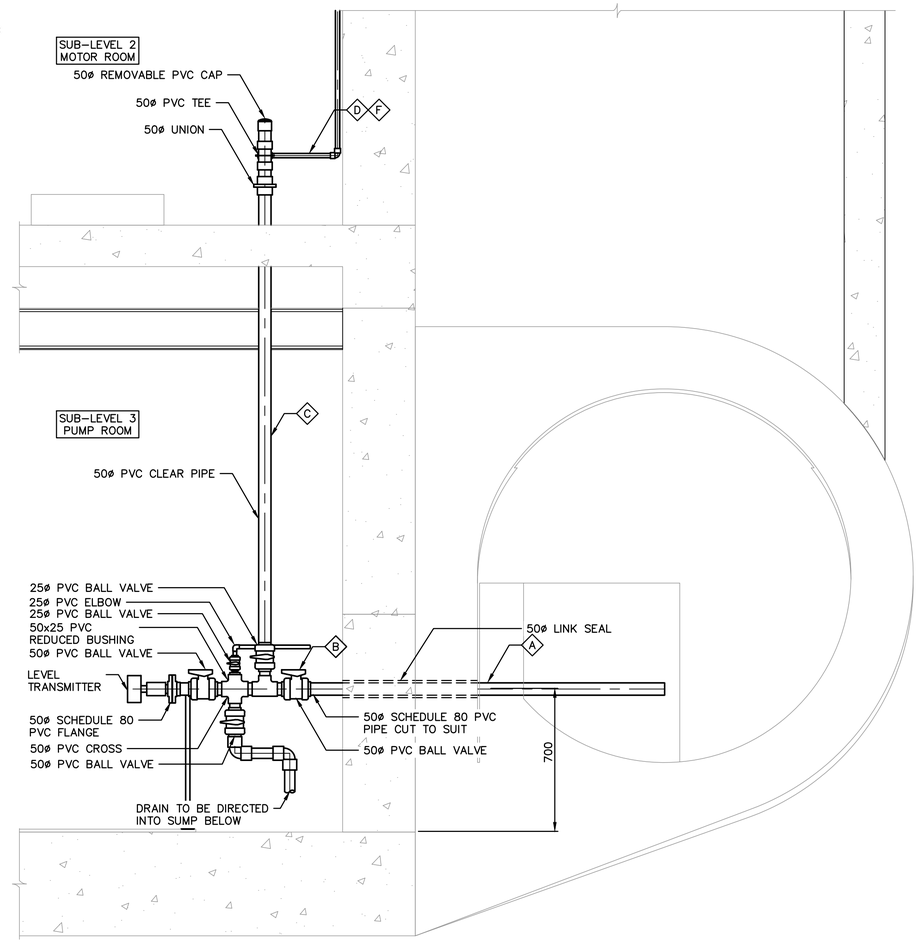
- A. CORE THROUGH CONCRETE WALL AND WET WELL BAFFLE, PROVIDE 50mm SCH. 80 PVC PIPE AND LINK SEAL.
- B. CONNECT ø12mm FLUSHING WATER PIPE FROM NEW WATER SUPPLY ALONG WALL.
- C. SUPPORT SIGHT GLASS PIPE AS REQUIRED WITHOUT IMPEDING VISIBILITY OF LEVEL IN PIPE.
- D. PROVIDE ø12mm SCH. 40 PVC PIPING, (VENT PIPING). VENT BOTH SIGHT GLASS ASSEMBLIES TOGETHER. FASTEN PIPING TO WALL AT NOT MORE THAN 1.0 METER SUPPORT SPACING.
- E. CORE AND SLEEVE 150mm HOLE THROUGH CONCRETE FLOOR. RUN VENT PIPING AGAINST WALL AND IN SUCH A MANNER THAT IT DOES NOT CAUSE OBSTRUCTION.
- F. FASTEN PIPING TO WALL AT NO MORE THAN 1.0 METER INTERVALS. VENT OUTSIDE THROUGH ROOF.

GENERAL NOTES:

1. PERFORM WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATION.
2. EQUIPMENT LOCATIONS AND PIPE ROUTING IN THE DRAWING 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. ALL EQUIPMENT SHOWN ON THIS DRAWING IS NEW AND IS TO BE PROVIDED BY THE CONTRACTOR UNLESS OTHERWISE INDICATED AS EXISTING.
4. THIS DIMENSION VARIES FOR EACH PUMP DEPENDING ON THE LOCALIZED FLOOR SLOPE. SET ALL PUMP INTAKES AT THE SAME ELEVATION.
5. PROVIDE SHAFT MACHINE GUARDS IN ACCORDANCE WITH CSA Z432, SAFE GUARDING MACHINERY. GUARD PAINT FINISH SHALL BE SAFETY YELLOW.
6. PROVIDE GUARD AROUND LEVEL GAUGE FOR PROTECTION. MINIMUM GUARD HEIGHT 300mm.



D LIFT PUMP SECTION LOOKING SOUTH
REF. 1 SCALE: 1:10



E LEVEL GAUGE SECTION LOOKING SOUTH
REF. 1 SCALE: 1:15

NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE
10		
9		
8		
7		
6		
5		
4		
3		
2		
1	1-0131L-M0005-001-01	MOTOR & PUMP ROOM PROCESS PIPING PLAN

REFERENCE DRAWINGS

0 300 600 900 1200 1500
SCALE: 1:15

0 200 400 600 800 1000
SCALE: 1:10

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES
UNLESS OTHERWISE NOTED

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
MPE, a division of Englobe Corp.
No. 4968 Date: APRIL 26, 2024

B.M.
ELEV.

NO.	REVISIONS	DATE	BY
1	ADDENDUM 03, RE-ISSUED FOR CONSTRUCTION	2024-04-26	
0	ISSUED FOR CONSTRUCTION	2024-03-22	

MPE a division of Englobe

DESIGNED BY	B. BAKER	CHECKED BY	P. GOERTZEN
DRAWN BY	D. MCMILLAN	APPROVED BY	P. GOERTZEN
SCALE: HORIZONTAL / VERTICAL	AS SHOWN	RELEASED FOR CONSTRUCTION	
DATE	2024-03-19	DATE	

PLOT DATE: 2024 04 25

PROVINCE OF MANITOBA — B.R. BAKER Member 46231 — REGISTERED PROFESSIONAL ENGINEER
APRIL 26, 2024
CONSULTANT DRAWING NUMBER

BID OPPORTUNITY: --

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

CONWAY LIFT PUMPING STATION
2024 UPGRADES
MECHANICAL DETAILS
LIFT PUMPS & LEVEL GAUGE DETAILS

CITY DRAWING NUMBER 1-0131L-M0010-001-01 SHEET 38 OF 102

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