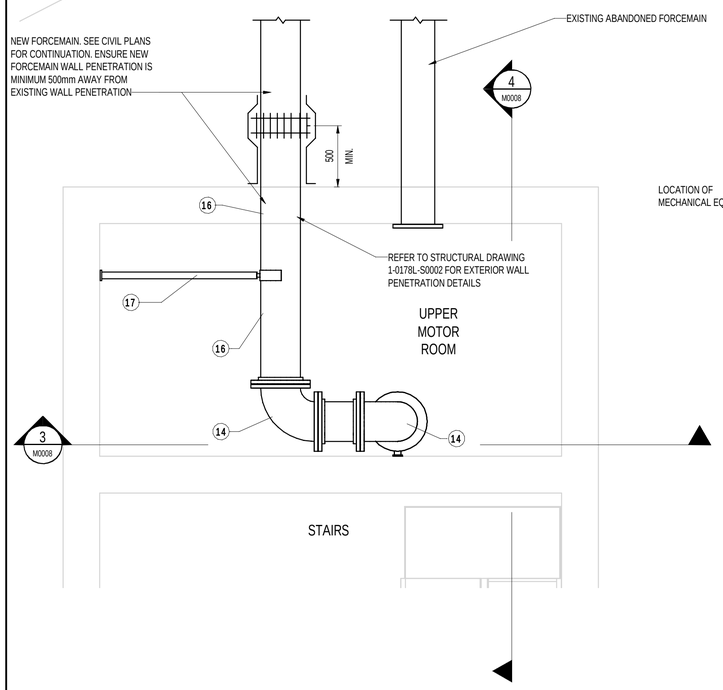
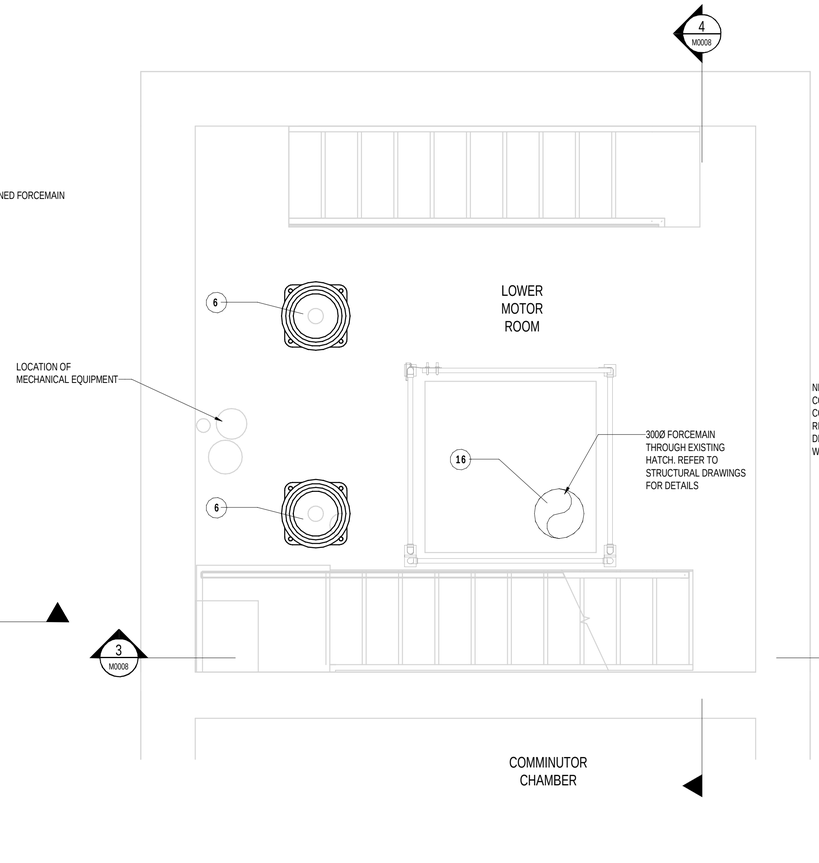
A1 SIZE - 594mm x 847mm



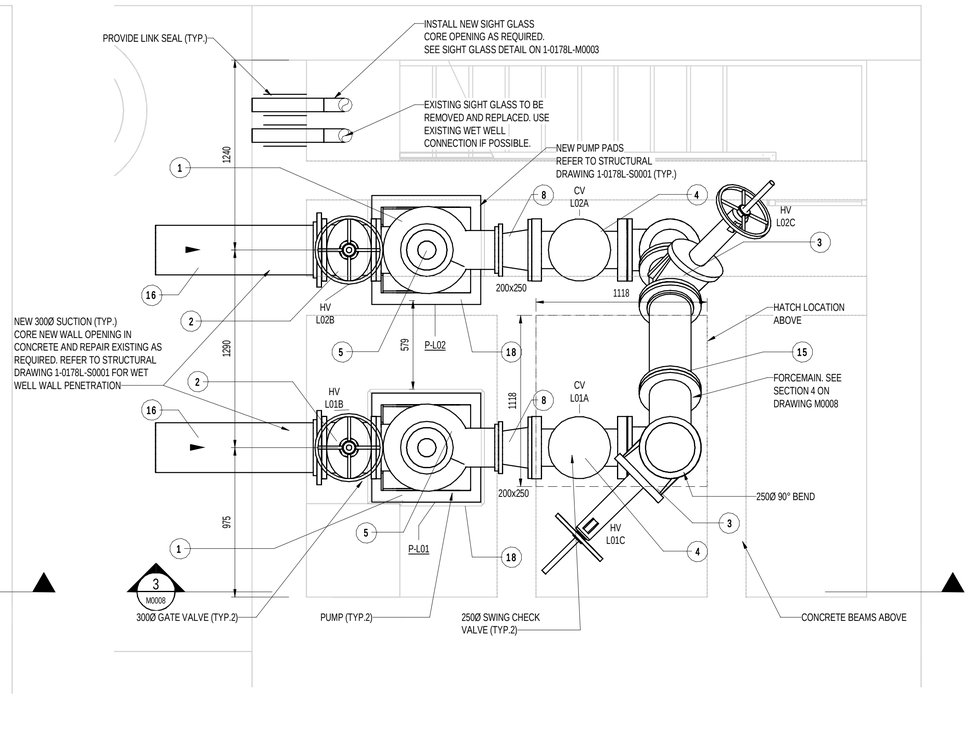
NEW PLAN - LEVEL 01 (ELEV. 229.197m)

SCALE: 1 : 25



NEW PLAN - MOTOR ROOM AND COMMINUTOR CHAMBER (ELEV. 226.494m)

SCALE: 1 : 20



NEW PLAN - PUMP ROOM (ELEV. 223.449m)

SCALE: 1 : 20

ITEM SUMMARY FOR ALL EQUIPMENT

ITEM	DESCRIPTION	FINISH
1	154 l/s AT 12.4m TDH CENTRIFUGAL PUMPS	C.I.
2	300mm RISING STEM GATE VALVE	D.I./304SS
3	250mm RISING STEM GATE VALVE	D.I./304SS
4	250mm CHECK VALVE	D.I./304SS
5	PUMP DRIVE SHAFT	C.I.
6	VERTICAL MOUNTED MOTOR	
7	300mm X 200mm REDUCER	D.I./304SS
8	200mm X 250mm ENLARGER	D.I./304SS
9	250mm 90 DEGREE BEND	D.I./304SS
10	250mm 45 DEGREE BEND	D.I./304SS
11	250mm WYE	D.I./304SS
12	250mm X 300mm ENLARGER	D.I./304SS
13	300mm FLOW METER WITH REMOTE DISPLAY	
14	300mm 90 DEGREE ELBOW	D.I./304SS
15	250mm STANDARD PIPE	D.I./304SS
16	300mm STANDARD PIPE	D.I./304SS
17	PIPE SUPPORT	
18	PUMP BASE	
19	300mm 45 DEGREE BEND	D.I./304SS

PIPE THRUST SUPPORTS

ITEM	QUANTITY	DESCRIPTION	THRUST	FINISH
T1	2	PIPE HANGER SUPPORT ON 250mm 90 DEGREE ELBOW	10.47 kN	C.I
T2	1	PIPE SUPPORT ON 250mm WYE FITTING	6.01 kN	C.I.
T3	2	PIPE SUPPORT ON 300mm DISCHARGE ELBOW	14.29 kN	C.I.
T4	2	PIPE SUPPORT ON 300mm 45 DEGREE ELBOW	7.73 kN	C.I.

NOTE: CONTRACTOR TO PROVIDE PIPE SUPPORTS TO WITHSTAND THRUSTS IN TABLE ABOVE.

NOTES:

1. ALL PIPING AND FITTINGS SHALL BE CLASS 52 DUCTILE IRON. ALTERNATIVELY, TYPE 30 STAINLESS STEEL PIPES AND FITTING CAN ALSO BE USED.
2. ALL BENDS, TEES AND CHANGES IN FLOW DIRECTION REQUIRE SUPPORTS TO RESTRAIN FORCES. NO FORCES SHALL BE SUPPORTED BY PUMP FLANGES. REFER TO TABLE ON DRAWING 1-0178L-M0008 FOR THRUSTS.
3. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
4. PUMPS AND VALVES TO BE SUPPLIED BY CITY AND INSTALLED BY CONTRACTOR.

DRAWING NUMBER	REFERENCE DRAWINGS
1-0178L-M0008	MECHANICAL PIPING SECTIONS
1-0178L-M0009	MECHANICAL MISCELLANEOUS DETAILS AND SEAL WATER PIPING DETAILS

400 200 0 500 1.0m
SCALE: 1:20

500 250 0 500 1.0m
SCALE: 1:25

NOT FOR CONSTRUCTION

ISSUED FOR TENDER

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
Dillon Consulting Limited (MB)
No. 1789 Date: _____

NO.	REVISIONS	DATE	DESIGN	CHECK
0	ISSUED FOR TENDER	2023/07/20	CP	BLM

DILLON CONSULTING

DESIGNED BY: CP	CHECKED BY: TC
DRAWN BY: SMZ	APPROVED BY: BLM
SCALE: As indicated	RELEASED FOR CONSTRUCTION BY:
DATE: MAR.2023	DATE:
CONSULTANT NO: 22-3229	

ENGINEER'S SEAL

PROVINCE OF MANITOBA
C.N. POGUE
Member
35962
07/20/23
REGISTERED PROFESSIONAL ENGINEER

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

RIVERBEND LIFT PUMPING STATION
2022 UPGRADES

MECHANICAL PIPING PLANS
.

CITY DRAWING NUMBER	SHEET	REV.	SIZE
I-0178L-M0007	001	0	A1

DILLON CONSULTING LIMITED 1558 WILLSON PLACE, WINNIPEG, MANITOBA, R3T 0Y4, PHONE (204) 453-2301, FAX (204) 452-4412

PLOT DATE: 2023-07-20 5:13:47 PM
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