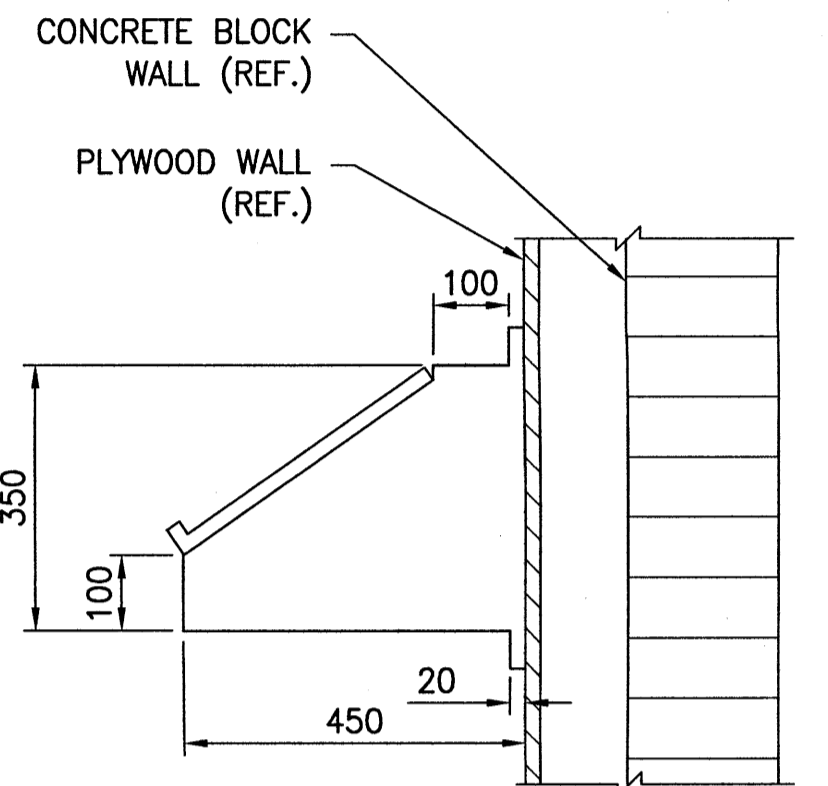


3 SAMPLE PUMP & PIPING SECTION
SCALE: 1:20 METRIC (A1)

- GENERAL NOTES:**
1. PROVIDE PVC SCH.40 PIPE AND FITTINGS.
 2. ALL SAMPLER PIPING TO BE PVC SOLVENT WELDED.
 3. ALL DUCTWORK TO BE GALVANIZED WITH INSULATION AND JACKETING.



4 WALL MOUNTED CABINET SECTION
SCALE: 1:10mm METRIC (A1)

2 WET WELL SECTION
MGAD-Z001
SCALE: 1:30mm METRIC A1

DUCT HEATER SCHEDULE				
UNIT NO.	MAKE + MODEL	CAPACITY (kW)	VOLTS/PH/Hz	NOTES
HCE-Z603	PRICE DF CIOOH	16	208/3φ/60	C/W SCR CONTROLLER, AIRFLOW SENSOR, AUTOMATIC THERMAL CUTOUT, TRANSFORMER, AND DUCT MOUNTED THERMOSTAT

FAN SCHEDULE									
UNIT NO.	SERVICE	MAKE & MODEL	LOCATION	CAPACITY (L/s)	ESP (Pa)	SPEED (RPM)	MOTOR (kW)	VOLTS/PH/Hz	NOTES
SF-Z604	SUPPLY	GREENHECK BSQ-90-4	GROUND FLOOR	239	0.5	1725	0.19	120/1φ/60	C/W VIBRATION ISOLATION

ROOM SCHEDULE						
DESCRIPTION	SEASONAL TEMPERATURE OBJECTIVES	MINIMUM VENTILATION REQUIREMENTS	HEAT DISPERSION VENTILATION REQUIREMENTS	PRESSURIZATION REQUIREMENTS	SPECIAL CLASSIFICATION	EXPLANATORY REMARKS
EFFLUENT MONITORING STATION MAIN FLOOR	HEATING = 18°C COOLING = 35°C VENTILATION COOLING	INTERMITTENT	168 L/s	25 Pa	NONE	NONE
EFFLUENT MONITORING STATION DRY WELL	HEATING = 18°C COOLING = 35°C VENTILATION COOLING	INTERMITTENT	71 L/s	25 Pa	NONE	NONE
EFFLUENT MONITORING STATION WET WELL	NONE	NONE	0 L/s	NONE	NONE	NONE

EQUIPMENT LIST				
ITEM NO.	TAG NO.	DESCRIPTION	MAKE & MODEL	SIZE
1	FE-Z0002	ELECTROMAGNETIC FLOW METER	SIEMENS MAG5100W SENSOR WITH EBONITE LINER AND MAG6000 TRANSMITTER	φ750mm (φ30")
2	P-Z501	DRY WELL SUMP PUMP	ZOELLER SUBMERSIBLE SIMPLEX EFFLUENT SUMP PUMP MODEL M98	38mm (1 1/2") NPT DISCHARGE
3	HV-Z003	WET WELL SLIDE GATE	FONTAINE SERIES 20, MODEL 204 STAINLESS STEEL SLIDE GATE T.B.D.	305mm X 305mm (12" X 12")
4	P-Z004	RECIRCULATION LOOP PUMP	GOMANN-RUPP SELF-PRIMING CENTRIFUGAL PUMP TZA3-B 1.5kW	5.7 L/s @ 5.2M HEAD (90 USGPM @ 17FT. HEAD)
5	PS-Z5040	VACUUM PRIMING VALVE	VALMATIC 38P	50mm (2") NPT
6	P-Z005	VACUUM PUMP	GAST MODEL DOA-P703-FB	0.25kW (1/3 HP)
7	SA-Z0006	COMPOSITE SAMPLER	SENTRY ISOLOK SERIES AUTOMATIC SAMPLER SAB-25	25cc
8		REFRIGERATOR	DANBY DAR482BLS	0.125m ³ (4.4 CU.FT) CAP.
9	CMP-Z503	AIR COMPRESSOR	INGERSOL RAND OIL-LUBRICATED TWIN-STACK AIR COMPRESSOR P1/U-A9	1.50kW/17.6L (2HP/4GAL) TANK

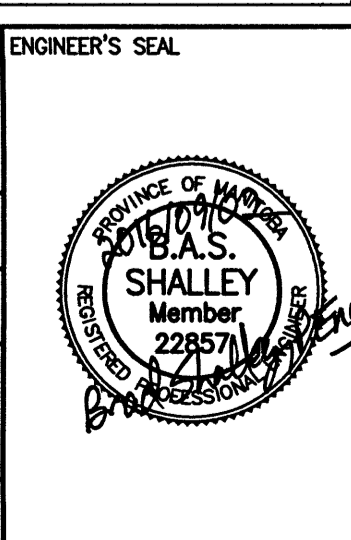
- LEGEND:**
- L-1 - IDENTIFICATION
 - 300x300 - SIZE (mm x mm)
 - 239 - AIR FLOW RATE (L/s)
 - I - INTERMITTENT, C=CONTINUOUS
 - [Symbol] MODULATING DAMPER
 - [Symbol] BALANCE DAMPER
 - [Symbol] SUPPLY
 - [Symbol] RELIEF
 - [Symbol] LOUVRE

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES



B.M. -	ELEV. -
DESIGNED BY: B. A. SHALLEY	CHECKED BY: J. SMITH
DRAWN BY: C. R. ABELLANOSA	APPROVED BY: J. SMITH
SCALE: AS NOTED	ISSUED FOR CONSTRUCTION
DATE: 2016/03/17	DATE:
CONSULTANT NO.: 15-0107-019_M02	
NO. REVISIONS	DATE DESIGN CHECK

KGS GROUP
CONSULTING ENGINEERS



THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

WEST END SEWAGE TREATMENT PLANT
EFFLUENT MONITORING STATION
GENERAL ARRANGEMENT DRAWING
MECHANICAL
EQUIPMENT AND PIPING SECTIONS

CITY DRAWING NUMBER: 1-0103-MGAD-Z002
SHEET: 00
REV.: A1
SIZE: A1