

1. PART 1 – GENERAL

1.1 Shop drawings

- .1 The drawings shall indicate the following:
 - .1 Devices and their component accessories, including connections, piping, fitting and control devices, as well as details concerning the factory mounted or mounted on site.
 - .2 Diagram and the actual wiring.
 - .3 Dimensions and recommended installation instructions.
 - .4 Performance curves of the pumps.

1.2 Maintenance records

- .1 Maintenance records should address to following:
 - .1 Description of the equipments including the manufacturer's name and type, year of manufacture, power or capacity and serial number.
 - .2 Details concerning the operation and maintenance.
 - .3 The list of recommended spare parts as well as the name and address of manufacturer representatives.

2. PART 2 – PRODUCTS

2.1 Sump pump submersible

- .1 Capacity, kPA head with NPS discharge as indicated at the following specifications schedule.
- .2 Installation simplex CSA approved housing epoxy coated cast iron, fiber glass reinforced thermoplastic impeller, stainless steel shaft, mechanical shaft seal, stainless inlet plate.
- .3 Motor as indicated at the schedule, hermetically sealed, with automatic overload protection.
- .4 Control: mercury float switches and simplex control box, with manual operability of pump without float.
- .5 Acceptable products: LIBERTY PUMP or equivalent from PLAD or Zoeller, as per characteristics of the following schedule.

.6 Specifications schedule:

.1 CARACTÉRISTIQUES DES POMPES DE PLOMBERIE										
1.2 PLUMBING PUMPS CHARACTERISTICS TABLE										
PUMP N° POMPE	SERVICE	(°F) TEMP. (°C)	MODEL MODÈLE	SIZE DIM	L/S (GPM)	HEAD TÊTE (m) (pi d'eau)	RPM T.P.M.	H.P.	ELECTRIC ÉLECTRICITÉ	NOTES REMARQUES
5-PPU-008	Sump pump	40°F (4°C)	No. 283HV of Liberty pump	DN- 1 1/2	3.2 (50)	4.34 (14.2')	3400	1/2	208/1/60 FLA 4, 6 amps	1, 2, 3
NOTE: 1 – Integrated contactor and pump start and stop devices. 2 – Complete with float, float switch, check valve and 3.0 m plug cord. 3 – Accessories: #ALM-P1 alarm panel, c/w local audible and visual alarm, plug and cord for 115 volts, 9V battery backup, high level probe fixable on the discharge pipe, auxiliary contact for remote alarm signal transmission.										

3. PART 3 - EXECUTION

3.1 Installation

- .1 Sump pump: install with all accessories with respect of access for maintenance.
- .2 Install panels following manufacturer's installation instructions.
- .3 Slide power cables and controls wiring inside a conduit installed by others to connect the pump, its float and its alarm probe to their power outlets and to the control panel installed above ground in the technical room adjacent to the sump pit. See plans.
- .4 Test alarms in coordination with control sub-contractor who uses the dedicated auxiliary contacts and adjust the probe at 100 mm lower than the water entrance.
- .5 Make an operation test to prove the good functioning.
- .6 Drill a 3 mm (1/8") diameter hole on the discharge pipe close to pump outlet for the air bubbles control.