

## **PART 1 - GENERAL**

### **1.1 GENERAL DESCRIPTION**

- .1 The goal of this section is to describe the piping arrangement for the degasser building. The goal of installed pipe is to convey any spilled seawater from the floor of the upper main room to the bypass drain area below. The contractor shall install all new piping and new drain grates for this purpose.
- .2 The drains shall be located where the existing 100 mm drains are. These new drains shall be drilled where the existing drains holes are. Drains shall be sealed to pipes and completely watertight.
- .3 All existing 100 mm pipework from the existing drains to the bypass drain area shall be demolished and removed from site.
- .4 New pipe shall be installed in the place of the existing pipe, as shown on the drawing. New pipe shall be of PVC, and be 300mm in diameter.
- .5 Pipe supports shall be of 316 stainless steel.
- .6 Drain grates shall be of 316 stainless steel.

### **1.2 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
  - .1 Provide manufacturer's printed product literature, specifications and datasheets for piping and equipment and include product characteristics, performance criteria, physical size, finish and limitations.

### **1.3 QUALITY ASSURANCE**

- .1 Sustainability Standards Certification:
  - .1 Low-Emitting Materials: provide listing of sealants used in building, comply with VOC and chemical component limits or restriction requirements.

### **1.4 DELIVERY, STORAGE AND HANDLING**

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.
- .2 Delivery and Acceptance Requirements:

- .1 Deliver materials to site in original factory packaging, labelled with manufacturer's name, address.
- .3 Packaging Waste Management: remove for reuse and return by manufacturer of pallets crates padding and packaging materials in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

## **PART 2 - PRODUCTS**

### **2.1 MATERIAL**

- .1 Sealants: maximum VOC limit to SCAQMD Rule 1168 to GSES GS-36.
- .2 Sealants: maximum VOC limit to SCAQMD Rule 1168 to GSES GS-36.
- .3 Adhesives: maximum VOC limit to SCAQMD Rule 1168 to GSES GS-36.

## **PART 3 - EXECUTION**

### **3.1 APPLICATION**

- .1 Manufacturer's Instructions: comply with manufacturer's written recommendations, including product technical bulletins, handling, storage and installation instructions, and datasheets.

### **3.2 DRAINS**

- .1 Install piping with grade in direction of flow except as indicated.

### **3.3 PIPEWORK INSTALLATION**

- .1 Install pipework to CSA B139.
- .2 Screwed fittings jointed with Teflon tape.
- .3 Protect openings against entry of foreign material.
- .4 Install to isolate equipment and allow removal without interrupting operation of

other equipment or systems.

- .5 Assemble piping using fittings manufactured to ANSI standards.
- .6 Install concealed pipework to minimize furring space, maximize headroom, conserve space.
- .7 Slope piping, except where indicated, in direction of flow for positive drainage and venting.
- .8 Use eccentric reducers at pipe size changes to ensure positive drainage and venting.

### **3.4 EXISTING SYSTEMS**

- .1 Connect into existing drains at times approved by Departmental Representative.
- .2 Request written approval by Departmental Representative 10 days minimum, prior to commencement of work.
- .3 Be responsible for damage to existing plant by this work.

### **3.5 CLEANING**

- .1 Clean in accordance with Section 01 74 11 - Cleaning.
  - .1 Remove surplus materials, excess materials, rubbish, tools and equipment.
- .2 Waste Management: separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.