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Our Ref: OM-DE/022

4 April 1997

MEMORANDUM

To : All Engineering Staff

From : Andrew Loh

Subject : Design Procedure
Sewerage Ejector/Solids Divertor

Please refer to the attached M&E requirements for ejector/divertor room issued by ENV.

ANDREW LOH

Distribution:

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M&E requirements pertaining to room for sewage ejector / solids divertor

A pit of minimum size of 3m by 3m shall be provided for the sewage ejector / solids divertor. The pit shall be adequately sized to accommodate the tank, pumps and dewatering sump with working space for maintenance. Generally, a room shall be provided for the sewage ejector / solids divertor. The provision of a room enables the following functional requirements to be met :

(i) a safe working environment for maintenance with respect to ventilation, vehicular traffic, etc;

(ii) adequate security and protection from vandalism;

(iii) the space for the ejector / divertor installation including that above the pit shall be free from obstructions, etc; at all times for maintenance purposes.

However for cases where a room is not provided, the functional requirements shall nevertheless be complied with as follows :-

(a) forced ventilation system shall be installed for the pit;

(b) the pit shall be located away from any driveway;

(c) the whole space for the ejector / divertor installation shall have a kerb 300mm high all round;

(d) the pit shall be securely covered with lockable floor doors or covers;

(e) the electrical control panel shall be complete with double enclosure and locking devices and shall be installed outside of the pit and all the cables from the control panel shall be run inside galvanised steel pipes leading to the pit;

(f) the access opening for the pit shall extend over the whole of the ejector / divertor tank and pumps;

(g) RSJ for chain block shall be installed directly above the ejector / divertor tank and pumps.