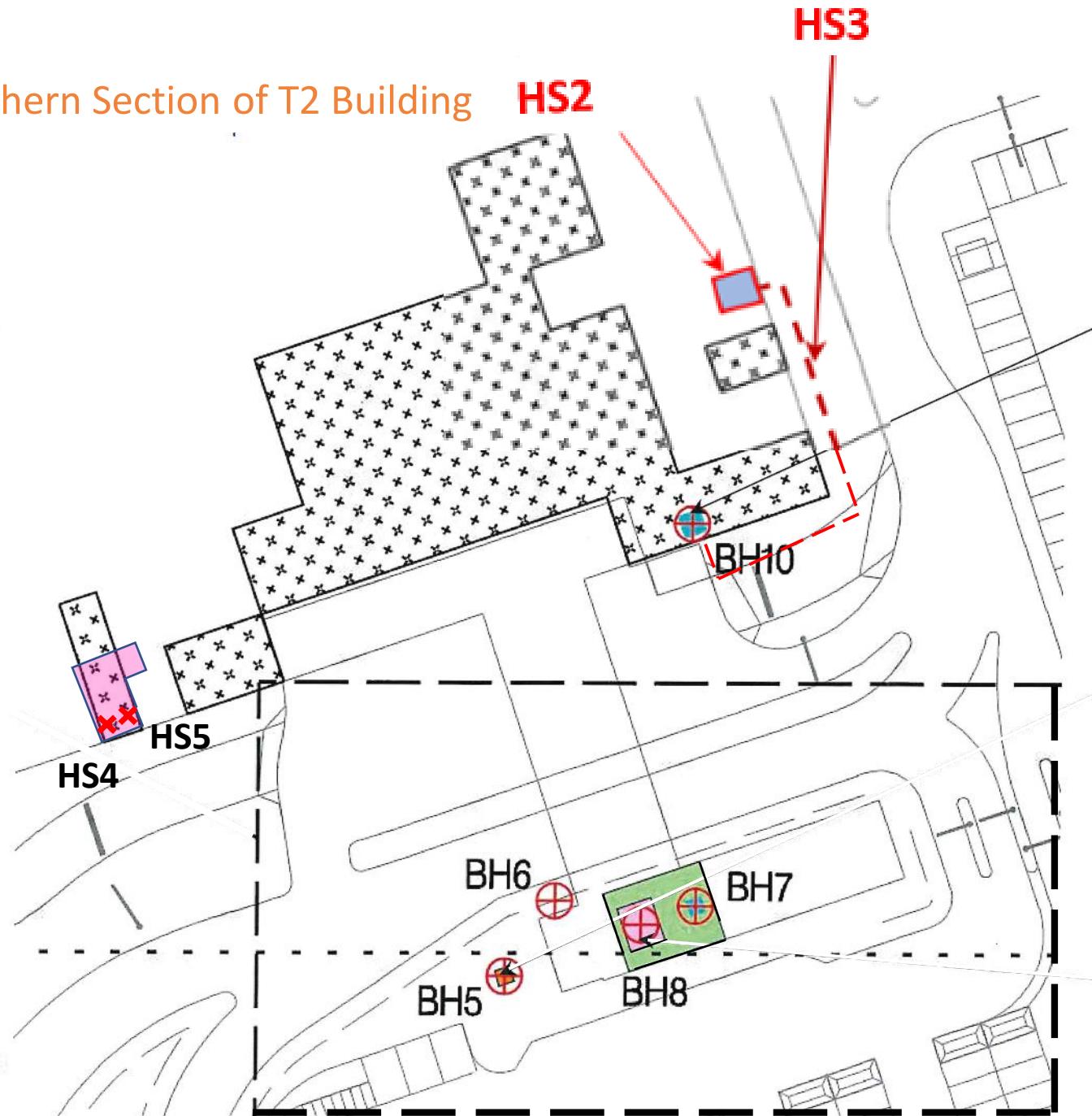


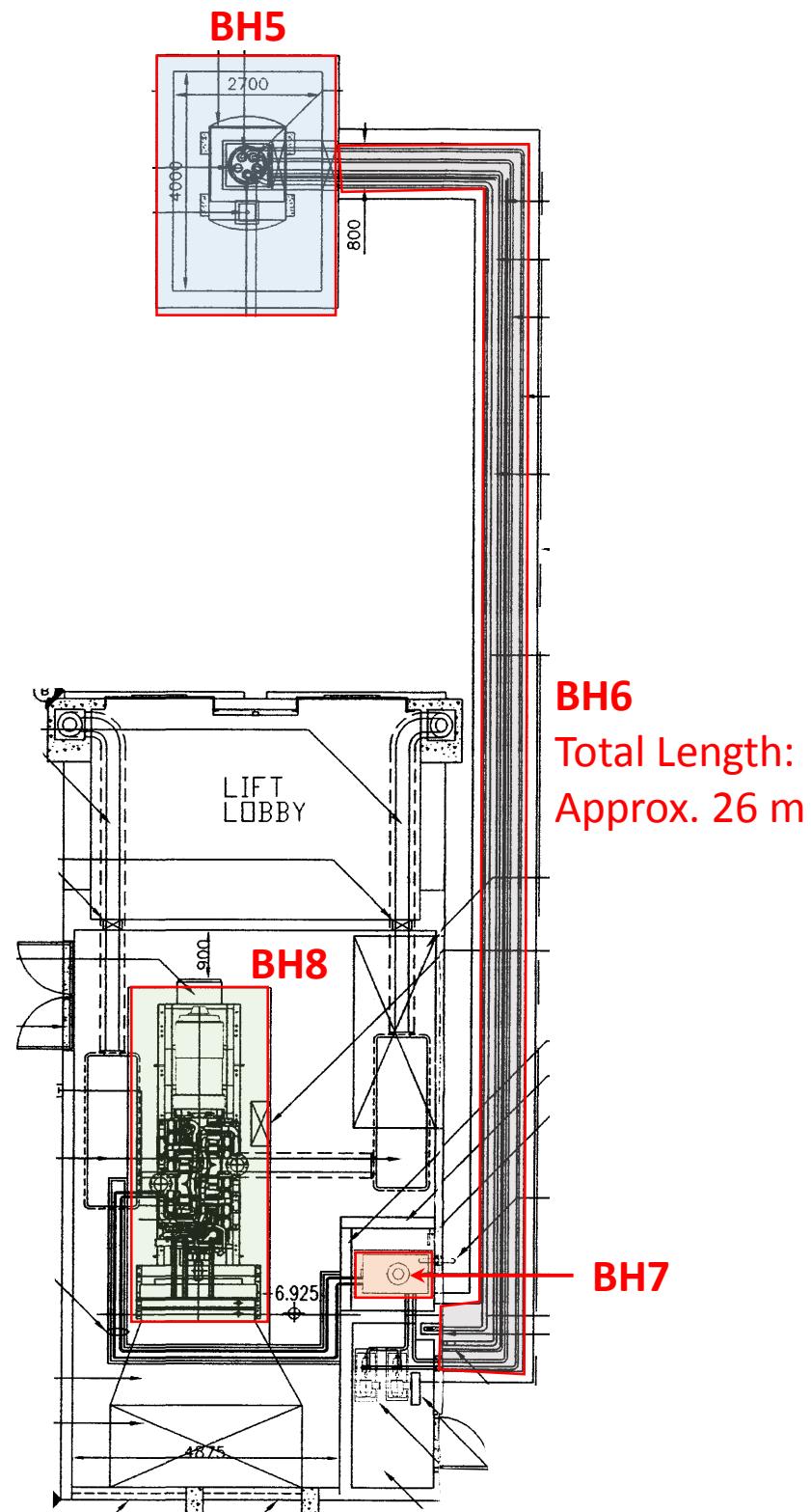
Appendix E.3 Emergency Power Supply System No. 3 (**BH 5, BH6, BH7** and **BH8**)

Southern Section of T2 Building

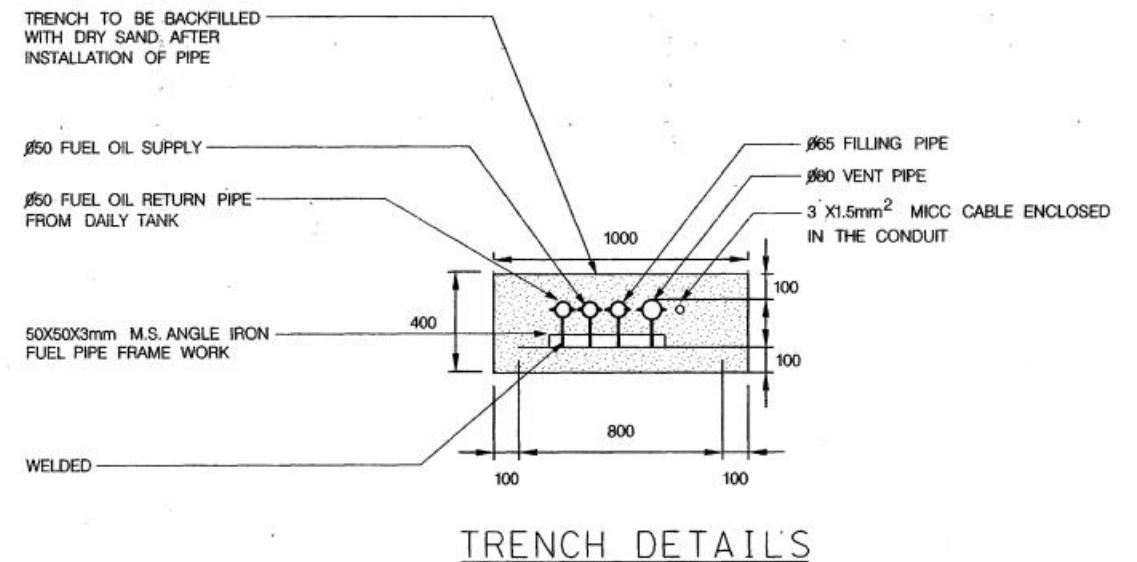


<u>Reference ID</u>	<u>Description</u>
BH5	A 3,000 L underground fuel tank
BH7	A 450 L above-ground fuel tank at Emergency Generator Room
BH6	26 m-in-length underground fuel pipelines connecting the 3,000 L underground fuel tank (i.e. BH5) and the 450 L above-ground fuel tank (i.e. BH7)
BH8	An emergency generator at Emergency Generator Room (above-ground)

Appendix E.3 Emergency Power Supply System No. 3 (**BH 5, BH6, BH7** and **BH8**)



Reference ID	Description
BH5	A 3,000 L underground fuel tank
BH7	A 450 L above-ground fuel tank at Emergency Generator Room
BH6	26 m-in-length underground fuel pipelines connecting the 3,000 L underground fuel tank (i.e. BH5) and the 450 L above-ground fuel tank (i.e. BH7)
BH8	An emergency generator at Emergency Generator Room (above-ground)



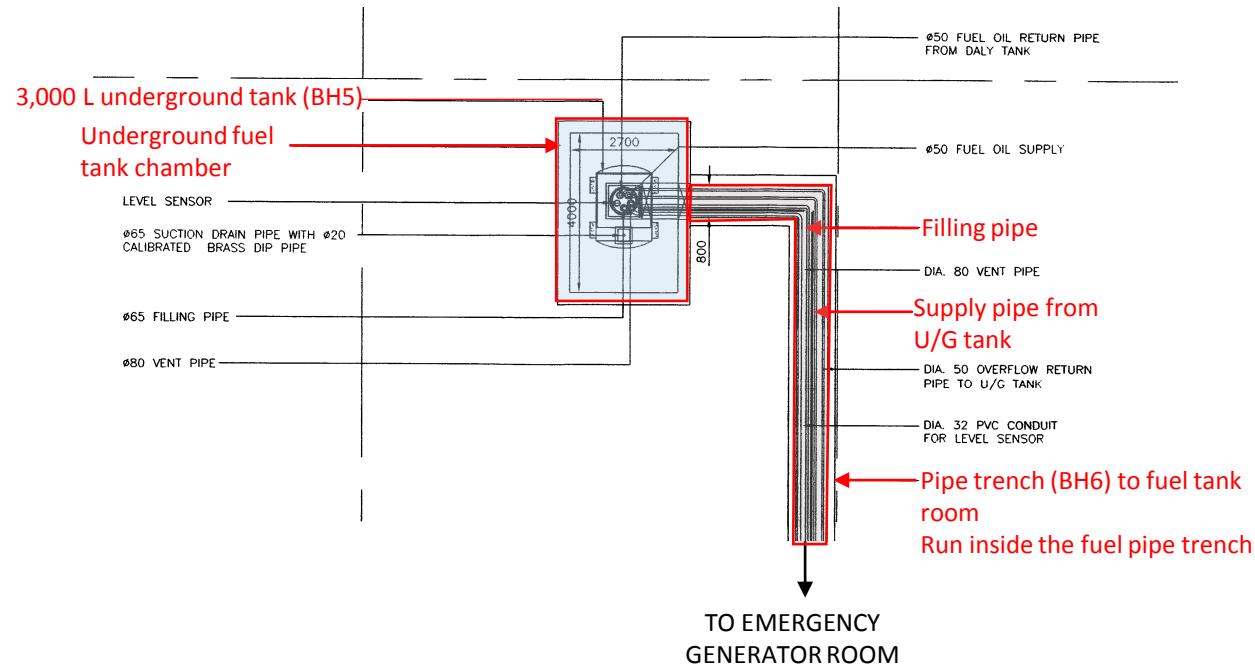
Appendix E.3 Emergency Power Supply System No. 3 – Details of **BH5** (3,000 L **Underground** Fuel Tank) & **BH6** (**Underground** Fuel Pipeline)



Notes

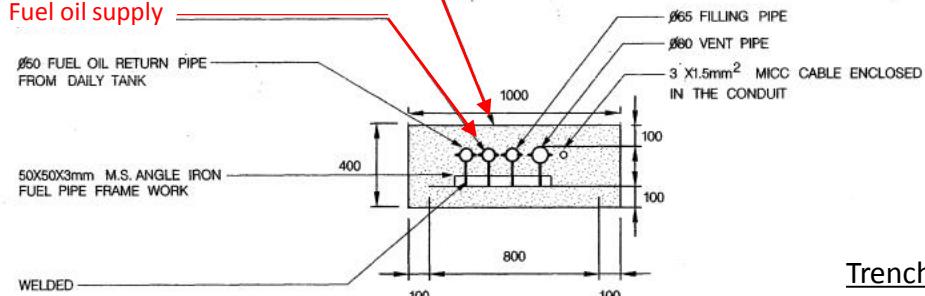
- Underground fuel tank fully encased in 300mm thick concrete chamber
- Space between the tank and the chamber is filled with sand
- Test run of emergency generator conducted monthly (for 30-60 mins)
- Manhole chamber of U/G tank is checked monthly and re-filled approx. every 6 months
- The quantity of fuel inside the tank is automatically monitored by level sensor. No sign of leakage is detected.

PLAN VIEW



Trench backfilled with dry sand

Fuel oil supply

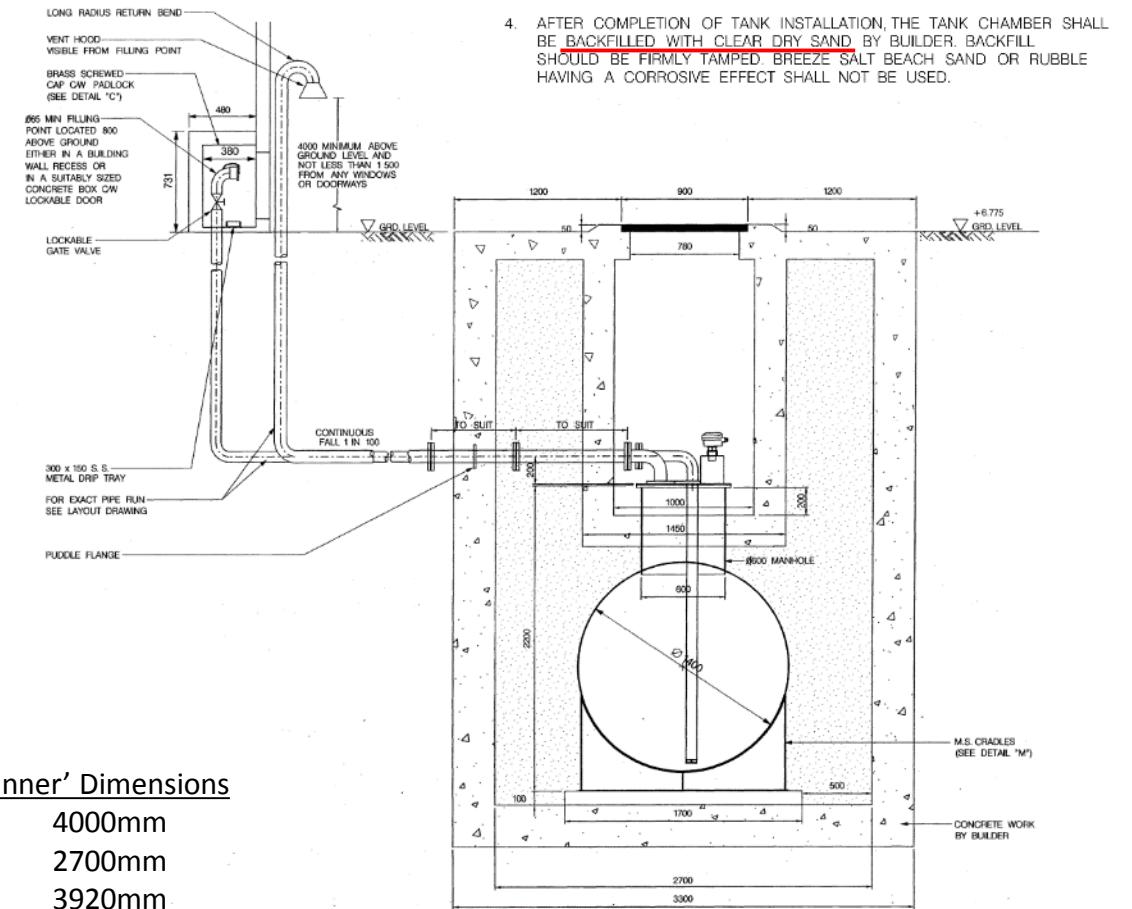
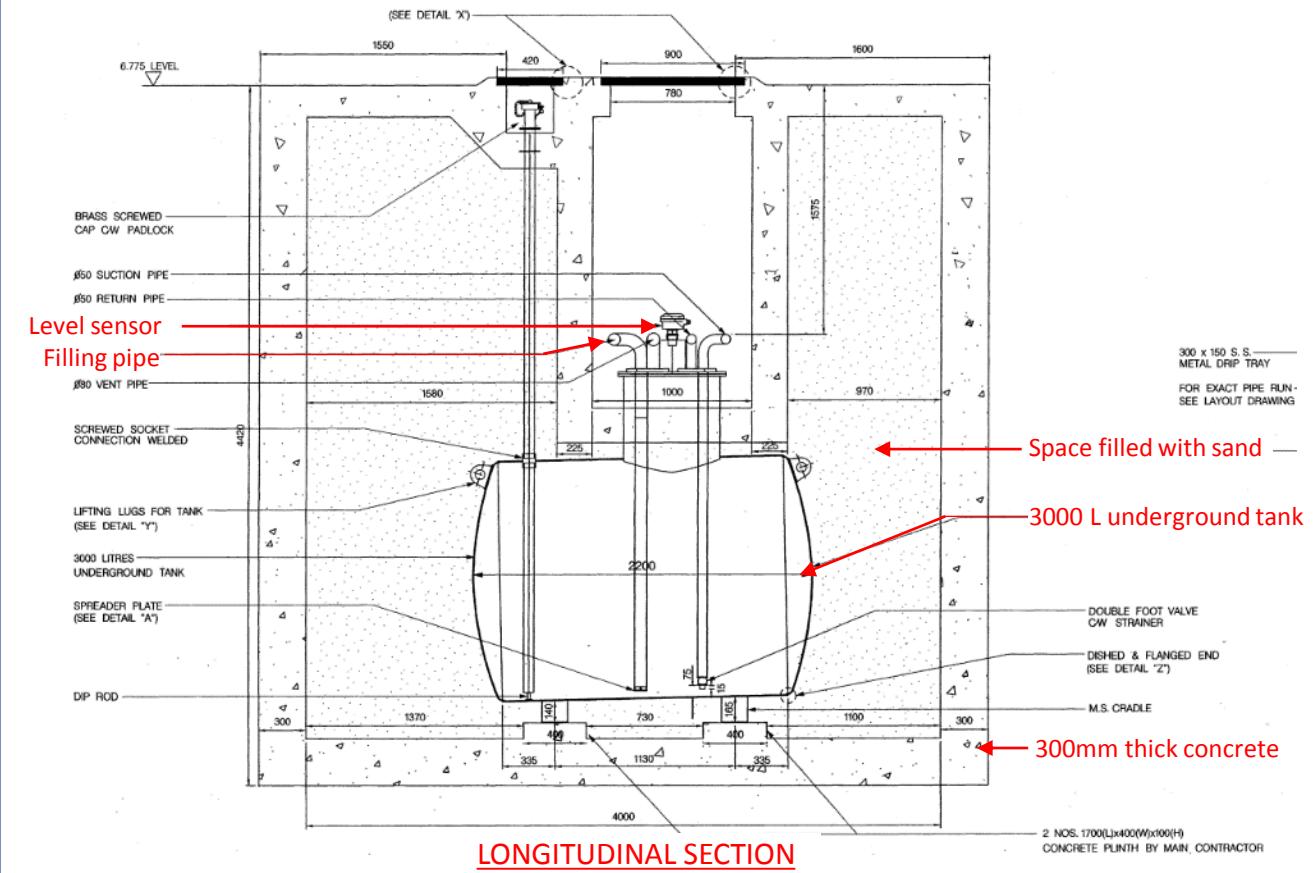


TRENCH DETAILS

(Underground Pipeline (BH6) – Approx. 1.5m below ground level)

Trench 'Inner' Dimensions

Width	800mm
Depth	300mm
Thickness	100mm



Chamber 'Inner' Dimensions

Length	4000mm
Width	2700mm
Depth	3920mm
Thickness	300mm

Appendix E.3 Emergency Power Supply System No. 3 – Details of BH7 (450 L Above-ground Fuel Tank) & BH8 (Emergency Generator)

Emergency Generator (BH8)
(Stand on 200mm-thick concrete plinth)

PLAN VIEW



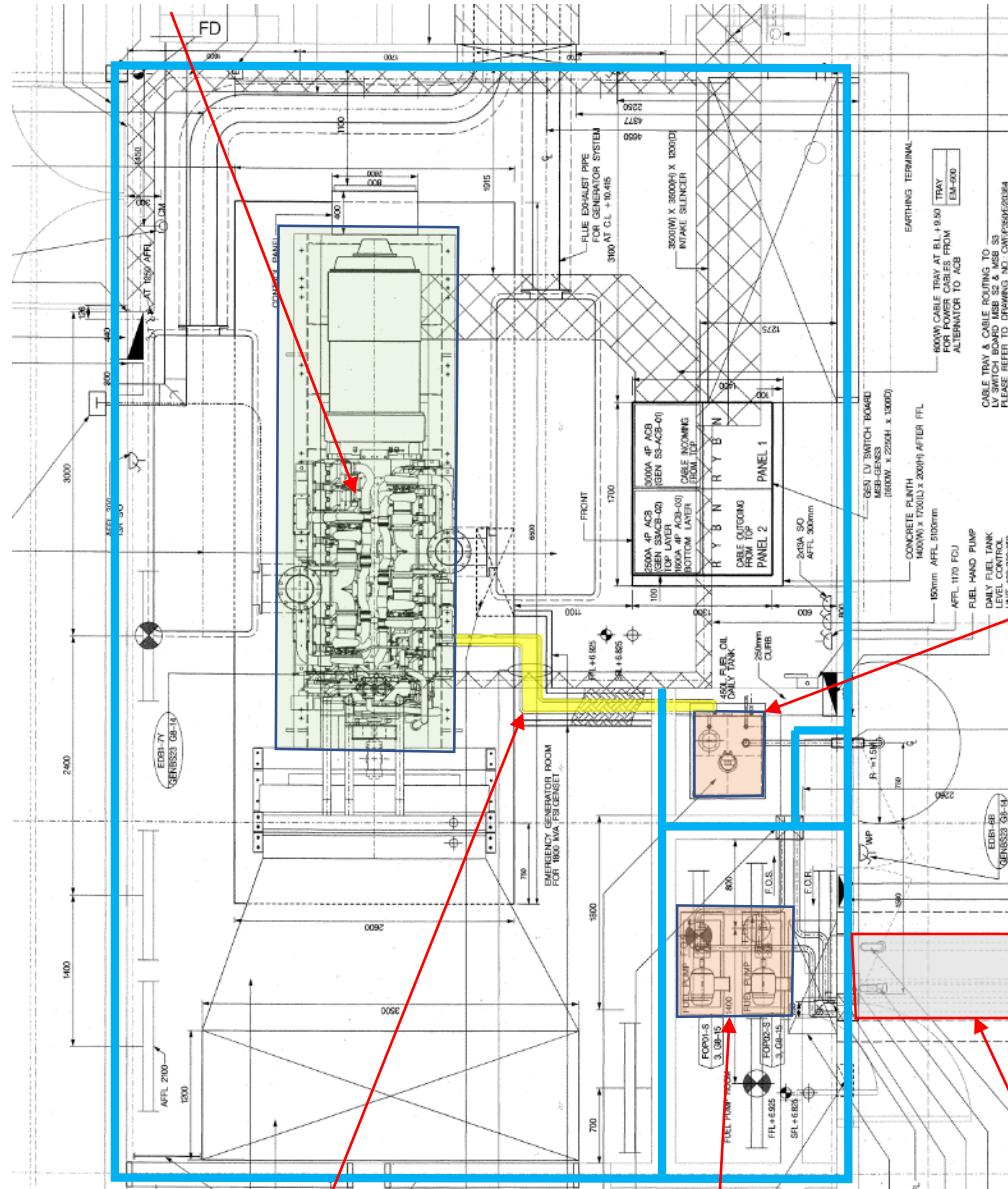
Fuel pipes to/from fuel tank and the generator



Sand filled trench containing fuel pipes (outside the fuel tank chamber)



Exposed fuel pipes



Fuel pump room

BH6
Sand Filled Trench
(1.5m below ground level)



Fuel pump room



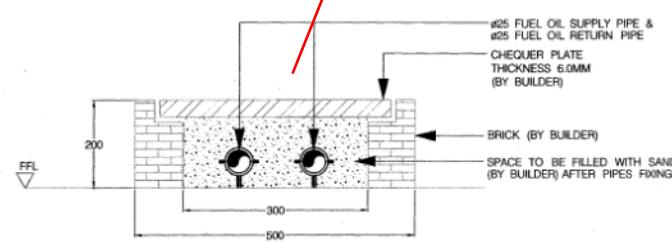
450 L fuel tank (BH7)

450 L Fuel Tank (BH7)

From 3000L U/G Fuel Tank



Metal drip tray and concrete curb surrounding fuel tank

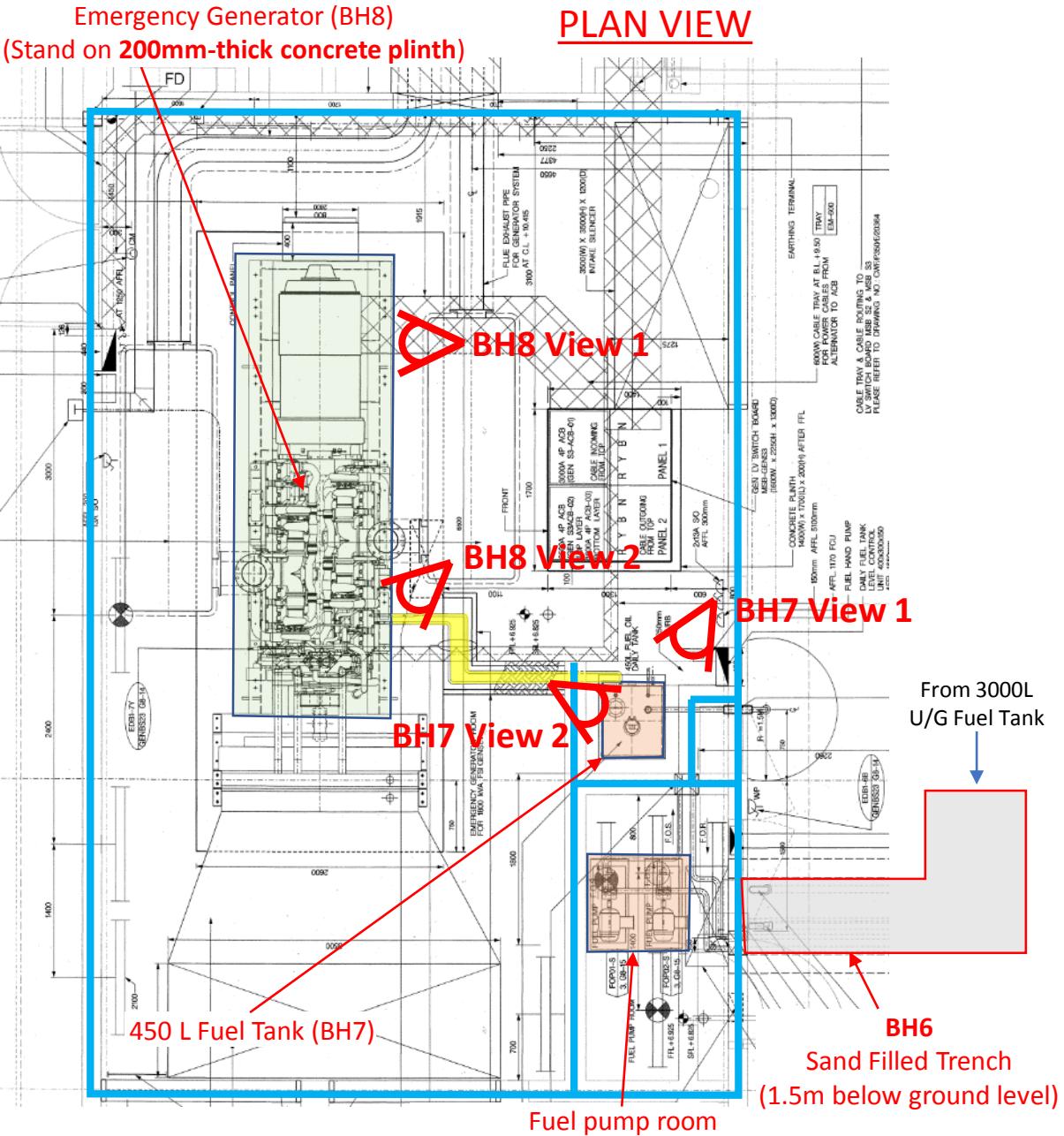


Supply and return pipe from fuel oil tank
(Sand Filled Trench at floor level)

Notes

- Both the fuel tank and generator mounted on intact concrete floor with no any oil stain.
- Test run of emergency generator conducted monthly (for 30-60 mins)
- Fuel tank is checked monthly and re-filled approx. every 6 months.
- The quantity of fuel inside the tank is monitored by level sensor. No sign of leakage is detected.

Appendix E.3 Emergency Power Supply System No. 3 –
 Details of **BH7** (450 L Above-ground Fuel Tank) & **BH8** (Emergency Generator)



BH8 View 1 - concrete floor condition underneath emergency generator



BH8 View 2 - concrete floor condition underneath emergency generator



BH7 View 1 - 450 L Above-ground Fuel Tank



BH7 View 2 - concrete floor condition underneath 450 L Above-ground Fuel Tank