

Hong Kong Disneyland Resort

Technical Visit
On
09 Aug 2010

Underground Main Utilities Overview

Electrical Installation - Substations



Fire Service Pumping Installations



Central Chiller Plant

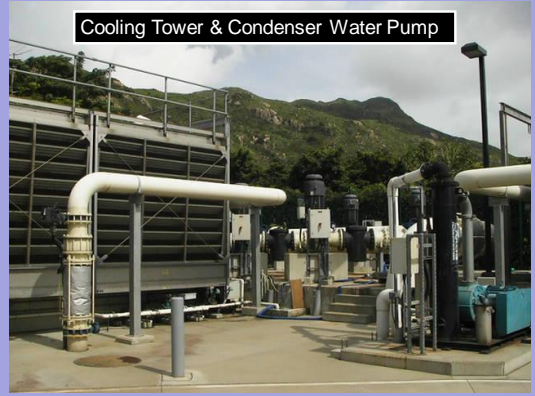


Centrifugal Liquid Chiller

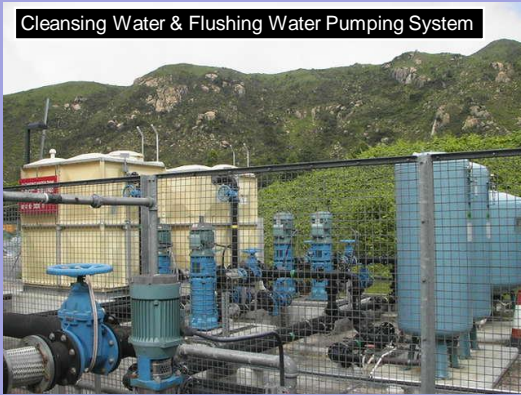




Chilled Water Pump



Cooling Tower & Condenser Water Pump



Cleansing Water & Flushing Water Pumping System

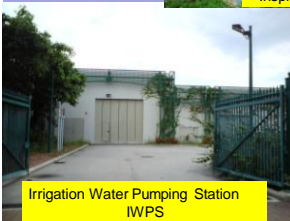


Compressor Air Plant

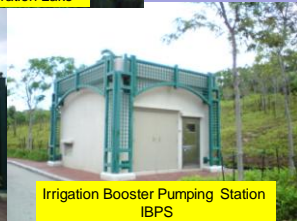
Irrigation Water Supply System



Inspiration Lake



Irrigation Water Pumping Station
IWPS



Irrigation Booster Pumping Station
IBPS

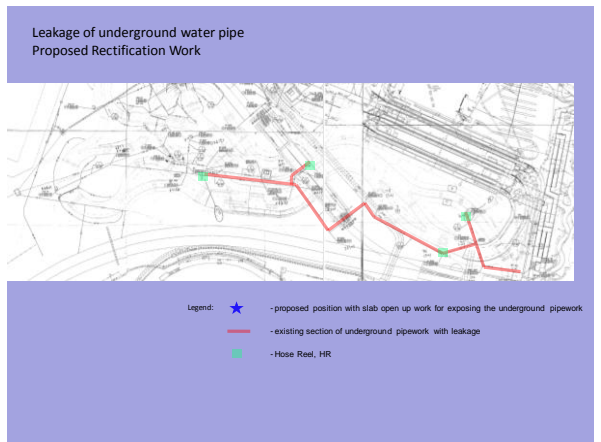


Motor Hall

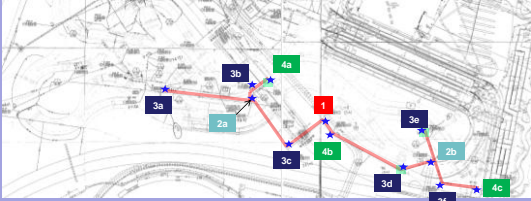


Rectification work for Underground Utilities (case study)

Hierarchy Approach to study the critical path of repairing work



Leakage of underground water pipe
Proposed Rectification Work

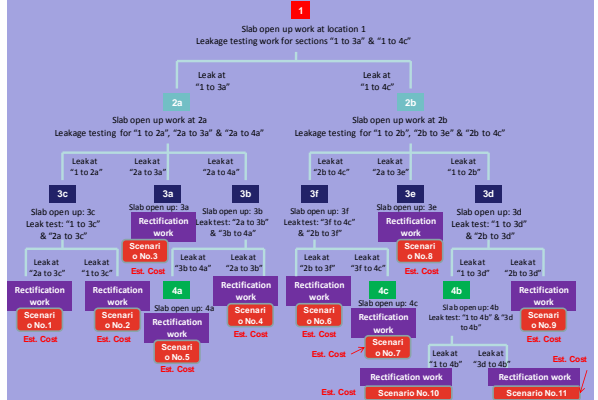


- Legend:
- ★ - proposed position with slab open up work for exposing the underground pipework
 - - existing section of underground pipework with leakage
 - - Hose Reel, HR

The numbering listed in the above plan shows the work sequence. And the detailed hierarchy of proposed maintenance work is listed in the following page.

Estimated Cost can be referred to the hierarchy listed in next page.

Hierarchy of proposed maintenance work



Before the excavation work



Trench excavation for new pipeline



Replacement of water pipe



Marking of new cut line on concrete floor to match the Theme



Laying of concrete and stamping concrete with mould



A wooden gangway to protect the newly laid concrete



Fresh concrete



Acid wash to match the color



Saw cut and core drill to remove the concrete slab



Temp. color concrete covers



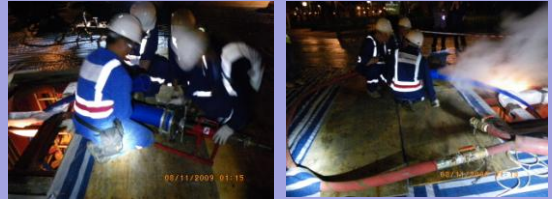
Excavation for the pipe joint



Pipe jacket to existing FS pipe



Steam hardening to pipe



Completed pipe jacket



Pouring of concrete slab and temp. rain cover

