

Special Arrangements for Substations

Where possible, distribution substations shall be located centrally to a development block along a sikka or an Access Lane, so as to distribute the loads to more than one Street, Avenue or Boulevard and thus reduce the width of LV power distribution corridors.

As illustrated in Figure 4.30, primary substations are typically located on Avenues or Boulevards, and shall include a service Access Lane or a sikka/mushtarak located on one or more of the other sides to facilitate distribution of the multiple cable arrays.

Primary substation plots shall be equipped with separate inlets/sides for both power distribution and transmission cables and include a setback for the installation of distribution and transmission cables.

Whenever a grid station is required within or near to a development, a HV power transmission corridor shall be allocated to connect the grid station to other substations. Whenever more than one primary substation is required within a development, they should be located on different Boulevards.

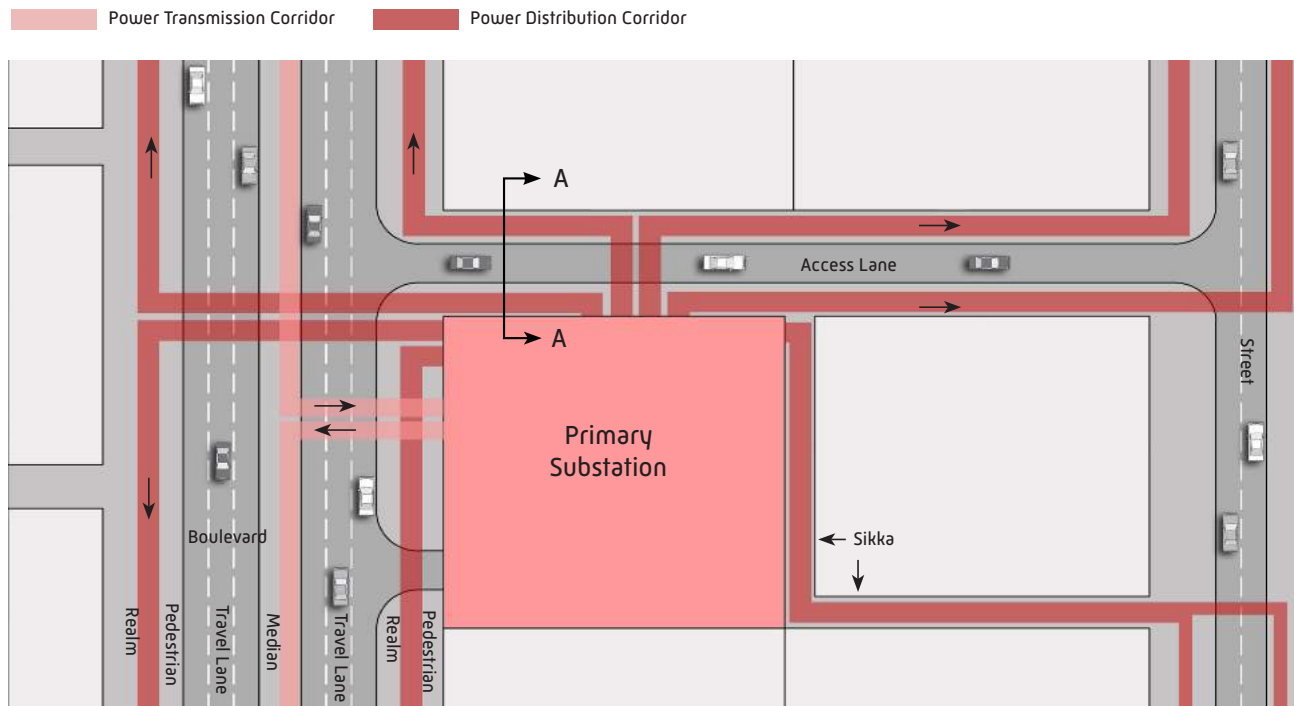
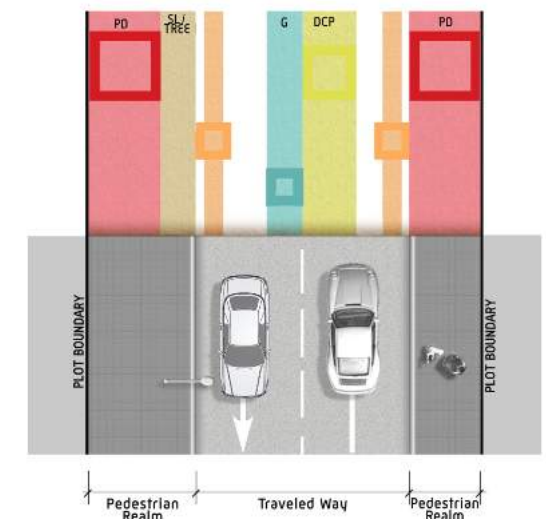
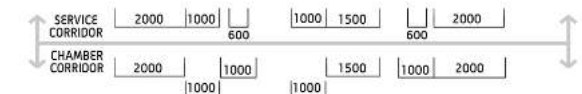
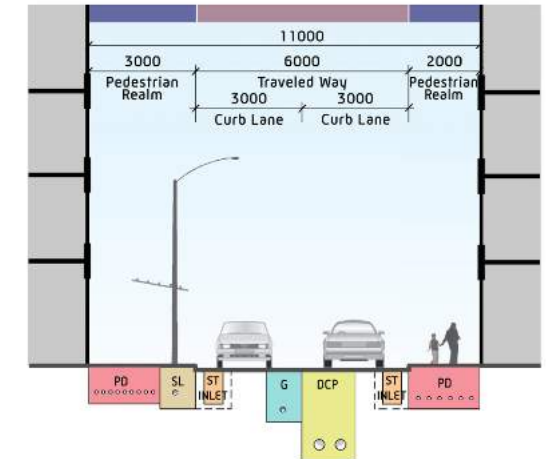


Figure 4.30: Minimum utility corridor arrangement for Access Lane adjacent to a primary substation

Cross section A-A for Access Lane adjacent to Primary Substation



Note:

1. For specific context, street elements shall be in accordance with USDM minimum requirements.
2. District Cooling is not required for Residential/Emirati Neighbourhood Contexts.