

The following notes are applicable to Drawing Nos. H 6168 & H 6169 :

- (1) Unless prior approval to deviate from this condition has been granted by Highways Department (HyD), the project proponent shall ensure that underground services and installations be laid or placed in accordance with the minimum depth requirement. The minimum depth measured vertically to the top of the underground services and installations including pipes, cables, ducts, joints, etc. shall be:
  - (I) Services other than high tension power cables of 33kV or above laid under:
    - (a) Part of the street which is not carriageway (non-carriageway) - 450 mm from the finished surface of the non-carriageway including footway, cycle track, verge, side lane and back lane provided that
      - (i) Where the proposed underground services or installations occupy more than half the combined width of the non-carriageway, the minimum depth shall be increased to 900 mm (for the purpose of measuring the combined width, adjoining non-carriageway parts including footway, cycle track, verge, side lane and back lane will be counted), and
      - (ii) For non-energised underground services, which include telecommunication cables laid in ducts but exclude power cables, watermains and gas mains, involving a maximum of two cable ducts of nominal diameter 115 mm or less, the minimum depth to the top of the external surface of the ducts can be reduced to 300 mm provided that conspicuous identification devices in the form of plastic caution tape of not less than 100 mm wide with the utility company's name or abbreviation clearly imprinted on it are provided continuously above the ducts. When entrusted works are involved where the project proponent undertakes to lay or place telecommunication cables in ducts on behalf of other(s), the number of cable ducts to be laid for each telecommunication utility undertaking shall not exceed two and these cable ducts shall also be laid in compliance with the requirements stipulated above;
    - (b) Carriageway - 900 mm from the finished surface of the carriageway;
  - (II) High tension power cables of 33kV or above laid under:
    - (a) Part of the street which is not carriageway (non-carriageway) - 1000 mm from the finished surface of the non-carriageway including footway, cycle track, verge, side lane and back lane;
    - (b) Carriageway - 1000 mm from the finished surface of the carriageway.
- (2) Unless prior approval to deviate from this condition has been granted by HyD, the project proponent shall ensure that underground services and installations running along the "Kerb Zone", which is made up of the part of the street which is not carriageway including footway, cycle track, verge, side lane and back lane within 300 mm from the kerb line and the part of the carriageway within 2000 mm from the kerb line, be placed at a minimum depth of 1500 mm measured vertically from the finished surface of the carriageway to allow construction of road gullies.
- (3) Where deemed necessary by HyD,
  - (I) the minimum depth needs to be increased to make way for or to avoid any physical constraints; or
  - (II) in the event of any damage or fault in the underground services or installations may cause damage to the roads or adjoining properties,
 the project proponent shall comply with the requirement of laying or placing the underground services and installations at such depth or with such special precautions considered appropriate by HyD.
- (4) Where the project proponent has adequate reasons to justify that underground services and installations should be laid or placed at depth less than the minimum depth quoted in notes (1) and (2) above, the project proponent shall submit the justifications and obtain the prior written approval of HyD.

	New issue	Original signed	Sep 14
REF.	REVISION	SIGNATURE	DATE

**MINIMUM DEPTH REQUIREMENT  
FOR UNDERGROUND SERVICES  
(SHEET 3 OF 3)**

**HIGHWAYS DEPARTMENT**

REFERENCE	DRAWING No.	CAD
SCALE	H 6170	