



Information Bulletin:

Revised ES54 Section H Duct Standards

1.0 Items Covered

ES54	H0-02 R9	Duct General Notes
ES54	H1-01 R6	General Trenching Details URD, UD, and Feeder Installations
ES54	H4-01 R6	Duct Separation to Other Utilities

This advisory and the standards listed above can be found at bchydro.com/distributionstandards.

2.0 Overview

ES54 H0-02 has been updated to revision 9 as follows:

- a. Added RTRC approved suppliers;
- b. Relief of mandatory warning boards. They are not limited only to direct buried feeders and are based on the consideration that Schedule 40 ducts are used and municipal construction works become more precise;
- c. The standard burial depth may be reduced but must not be less than the minimum specified in CSA C22.3 No. 7 where it is necessary for a duct to cross over another underground facility;
- d. Edited Table 1 to specify standard and minimum burial depth per CSA C22.3 No. 7;
- e. Notes have been revised to clarify when concrete encasement is required for duct banks; and
- f. Added duct concrete encasement material option to use bagged concrete mix for duct bank volume less than 1 m³.

ES54 H1-01 has been updated to revision 8 to update wall penetration notes and figure, and to include the authority having jurisdiction in the backfill description.

ES54 H4-01 has been updated to revision 6 to reduce horizontal separation to water, sanitary, and sewer lines from 900 mm to 300 mm. Replaced railway crossing requirement with a reference to CSA C22.3 No. 7.

3.0 Action

Duct bank construction shall be in accordance with standards. Ducts shall be designed and installed at the standard burial depth. Burial depth may be reduced where it is necessary for a

duct to cross over another underground facility but shall not be less than the minimum specified in CSA C22.3 No. 7.

The minimum separation requirements between BC Hydro ducts and other underground utilities are reduced to be consistent with CSA C22.3 No. 7. Best practice is to increase separation to the preferred clearances rather than design to the minimum required clearances, and to maximize separation to prevent damage to both underground facilities at the time of construction and for the life of the installation.

Designers and Engineers

Designers and engineers shall be aware of the new revisions and are responsible for applying them. Designers and engineers shall reference the latest revisions of ES54 H0-02, H1-01, and H4-01 when designing ducts for underground residential distribution (URD), underground distribution (UD), and feeder installations.

Civil Inspectors

Civil inspectors shall reference the latest revisions of ES54 H0-02, H1-01, and H4-01 when conducting reviews of site-specific conditions. The revised specifications for concrete encasement and cement types may impact acceptable solutions and procedures that have been previously practiced.

4.0 Contact

Customer and Customer Representatives

Please direct any questions or concerns to your local BC Hydro representative.

BC Hydro Employees and Contractors

Please direct any questions or concerns related to the standards to distribution.standards@bchydro.com.

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