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BC Hydro is not liable for reliance on past versions of the Standard that may be stored electronically.

REVISIONS: UPDATED LEGAL ACKNOWLEDGEMENT FORM. FD MAR '16

DESIGNED J. AGNOLIN	RECOMMENDED  F. DENNERT	ACCEPTED  G. REIMER	ENGINEER OF RECORD 	NOTICE FROM THE EXECUTIVE VICE PRESIDENT TRANSMISSION AND DISTRIBUTION AND CUSTOMER SERVICE	
DISTRIBUTION STANDARDS 		ISSUED: MAR 2016 REPLACES: MAY 2004 ORIGINALLY ISSUED: NOV 1980		PAGE 1 OF 2	ES43/53/54/55/65 A1-01.01 ^R 4

Scope

This manual is one of a series containing standards for construction of the BC Hydro electrical distribution plant within the service area of BC Hydro. A new distribution plant shall be designed, constructed, owned, operated, maintained and repaired to these standards.

Purpose of Standards

BC Hydro objectives require standardization to:

- a) Ensure uniform safety requirements comply with BC statutes and regulations.
- b) Provide uniform system reliability.
- c) Provide uniform operating practices.
- d) Permit economic bulk purchasing of materials.
- e) Achieve optimum life cycle cost of plant construction.
- f) Effect efficient quality assurance.

Responsibility

The Distribution Standards Department prepares these standards and verifies that specified plant and procedures will perform adequately under all normally expected conditions encountered throughout the province of British Columbia. These standards are approved by Professional Engineers. It is the responsibility of BC Hydro Managers to ensure that the standards are followed unless abnormal conditions are encountered that require variations. These variations should be kept to a minimum and their performance shall be the responsibility of the Professional of Record in charge of the project, who will record and seal the variation based on satisfactory qualifications and experience to do so. As per the latest revision of the BC Hydro Distribution Owner's Engineer Guide, these variations must be accepted by BC Hydro's Owner's Engineer.

Use of Stock Materials

The electrical distribution plant covered by these standards is built using stock materials approved by a Professional Engineer as required by law. The use of non-stock materials for special and unusual situations must be approved by Distribution Standards or the BC Hydro Engineer responsible for the project.

Revisions to Manual

These standards are revised from time to time to improve the safety, performance, workability, cost effectiveness or appearance of the plant. The existing plant built to previous standards need not be updated unless so specifically advised by BC Hydro. When maintenance or other work, such as voltage conversion or conductor change is being done, updating plant to current standards is encouraged.

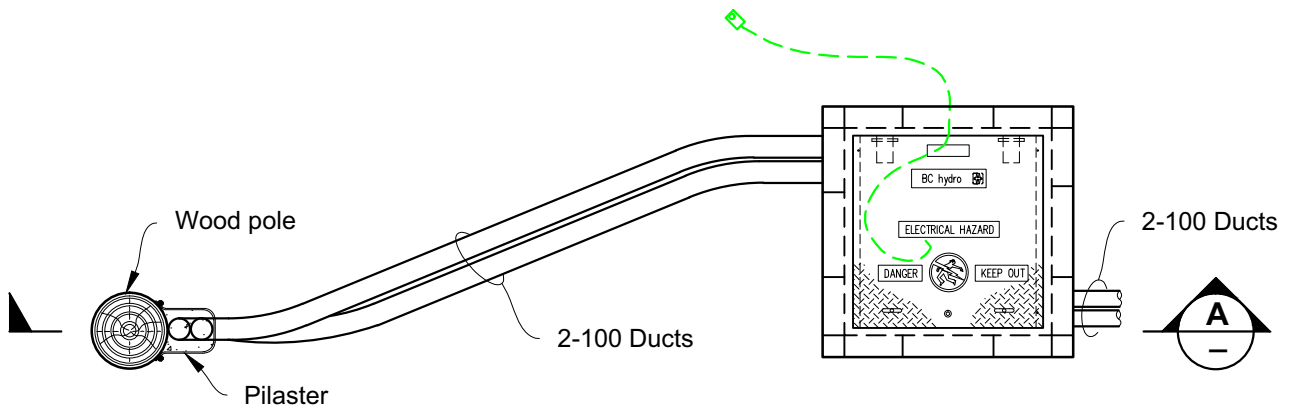
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The manual has been issued to a corporation or firm rather than to an individual. The corporation or firm is responsible for the safekeeping of the manual, and for keeping it current. Changes of address or in number of copies required must be reported promptly.

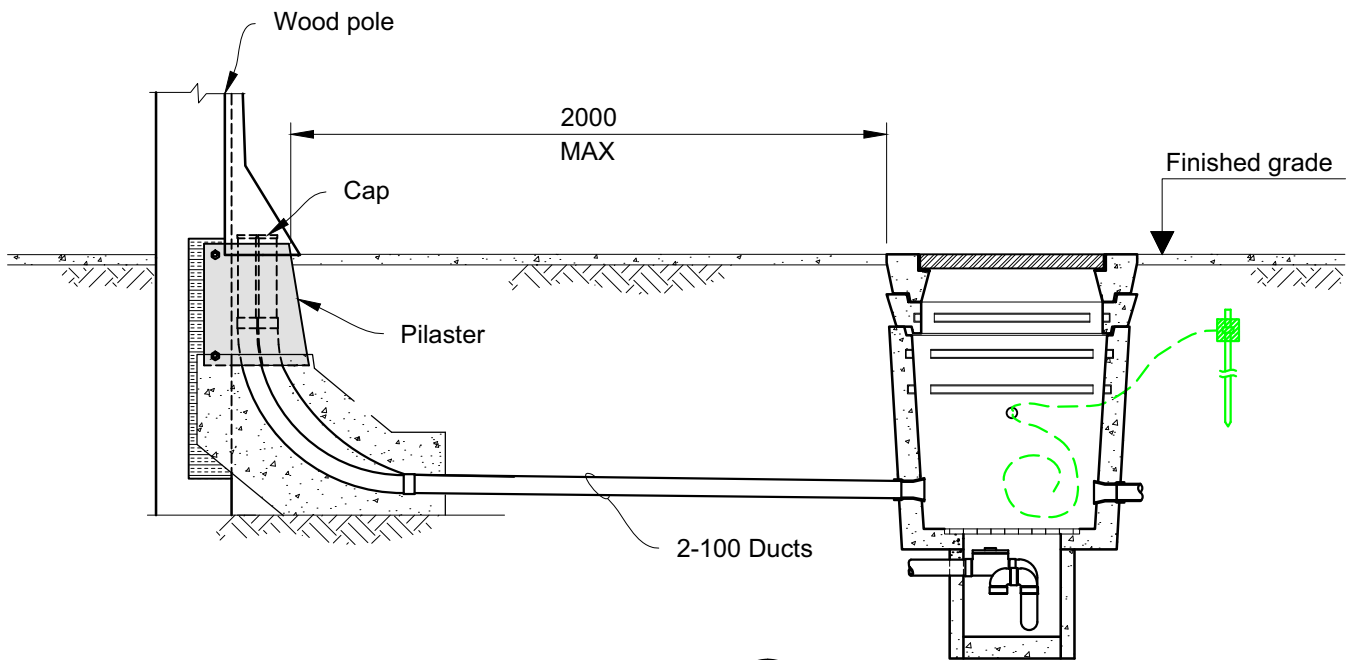
Suggestions for changes in the manual, or required changes of address may be made on the pre-addressed comment sheet included in the Manual and with each issue of revision.

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DESIGNED J. AGNOLIN	RECOMMENDED  F. DENNERT	ACCEPTED  S. REIMER	ENGINEER OF RECORD 	NOTICE FROM THE EXECUTIVE VICE PRESIDENT TRANSMISSION AND DISTRIBUTION AND CUSTOMER SERVICE		
DISTRIBUTION STANDARDS BC Hydro		ISSUED: MAR 2016 REPLACES: MAY 2004 ORIGINALLY ISSUED: NOV 1980		PAGE 2 OF 2	ES43/53/54/55/65 A1-01.02	R 4



Plan



Section A

REVISIONS: R.3 - REVISED, TITLE CHANGED, MAR '16 MK

DESIGNED  M. KELVIN	RECOMMENDED  C. PICASSI	ACCEPTED  F. DENNERT	ENGINEER OF RECORD  2017-02-15	SECONDARY THREE-PHASE SERVICES 800 A, THREE PHASE DIP PUBLIC PROPERTY INSTALLATION		
DISTRIBUTION STANDARDS 		ISSUED: MAR 2016 REPLACES: NOV 2002 ORIGINALLY ISSUED: FEB 1982		PAGE 1 OF 2	ES54 S2-02.01	R 3

Notes

1. Installation shows a wood pole.
 2. For pilaster installation details and bill of material, see ES53 M1-01 for wood poles.
 3. Installation shows a service box installed in a sidewalk. Alternatively, the service box may be installed in a boulevard. See ES54 B7-01 for installation details, restrictions (if any), ground rod installation details, clearances and bill of material.
 4. For trenching details, see ES54 H1-01.
- Note:** installation of the plate lid requires a 1.5 m minimum clearance on the hinge side to allow for lid opening.

Reference Standards

ES53 M2-01	Structures on Concrete Poles, Guard and Cover Installation Details
ES53 M1-01	Structures on Wood Poles, Guard and Cover Installation Details
ES54 H1-01	URD/UD Trenching Details
ES54 B7-01	Service/Junction Box - Sidewalk Duty
ES53 S2-02	Secondary Services 100% Rated 800 A Max, 3-Phase Pole Dip, Wiring and Installation Details
ES54 Section W	Construction Specifications

REVISIONS: R.3 - REVISED. TITLE CHANGED. MAR '16 MK

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