



Section 100

Introduction

Engineering Branch

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100 INTRODUCTION

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101 PURPOSE OF THIS MANUAL

The purpose of this manual is to establish uniform design guidelines for lighting, signal, and sign installations.

The intended audience for this manual includes in-house designers, consultants, reviewers and managers. The manual covers a variety of topics and is designed to be used as both a text and a reference manual.

This manual is not intended to be a substitute for sound engineering knowledge and experience. Designers are encouraged to be innovative and to employ the principals of “value engineering” to all designs. Designers shall review concepts presenting good value with the Ministry Electrical Representative prior to proceeding and to provide documentation outlining the justification for new initiatives.

102 USING THIS MANUAL

A structured number format is used to order the information in this manual. This format allows each point to be referenced using a unique identifier, so the reader can refer to, or find a specific point quickly and easily.

This manual is divided into sections, chapters, clauses, sub-clauses, paragraphs, sub-paragraphs and sub-sub-paragraphs. Each element is numbered sequentially, with sections beginning at the highest level. The numbering for all other element begins with the section number. *Table 1* describes each element and gives examples.

ELEMENT	NUMBERING	EXAMPLE
Sections	Are numbered starting at 100 in intervals of 100.	100, 200, 300...
Chapters	Use the same numbering as sections but increment by 1.	101, 102, 103...
Clauses	Use a decimal and a one digit number incrementing by 1.	101.1, 101.2, 101.3...
Sub-clauses	Use a decimal and a one digit number incrementing by 1.	101.1.1, 101.1.2, 101.1.3
Paragraphs	Use a decimal and a one digit number incrementing by 1.	.1, .2, .3...
Sub-paragraphs	Use a decimal and a one digit number incrementing by 1.	.1, .2, .3...
Sub-sub-paragraphs	Use a decimal and a one digit number incrementing by 1.	.1, .2, .3...

Table 1. Description and examples of manual format

Using this format it is easy to identify any part of the manual. For example, if you wished to find Chapter 302.1 Paragraph 3.2, you would refer to section 300, chapter 2, clause 1, paragraph 3, sub-paragraph 2.

Drawings are located in the appendices.

103 MANUAL REVISION AND ADDITIONS

- .1 Users of this manual may submit suggestions or comments aimed at improving the manual to the Ministry of Transportation, Engineering Branch, Victoria.
- .2 Manual revisions and additions will be issued on an as and when required basis via the Ministry web site at:
[http://www.th.gov.bc.ca/publications/eng_publications/eng_pubs.htm#Traffic Electrical Highway Safety and Geometric Standards Section Publications](http://www.th.gov.bc.ca/publications/eng_publications/eng_pubs.htm#Traffic_Electrical_Highway_Safety_and_Geometric_Standards_Section_Publications). Users are to check web site for technical bulletins and changes to this and other documents
- .3 Where changes to this Manual impact projects out to bid or under construction the designer shall contact the Ministry Electrical Representative to advise of impacts. The Ministry Electrical Representative shall advise if design revisions will be required.

104 RELATED MANUALS AND DOCUMENTS

- .1 When preparing designs, designers must comply with all relevant sections in the most recent or revised editions of the following documents and manuals:
 - .1 This manual.
 - .2 Canadian Electrical Code including B.C. Electrical Bulletins.
 - .3 British Columbia Motor Vehicle Act.
 - .4 National Building Code of Canada.
 - .5 Workers Compensation Board Regulations.
 - .6 Ministry Documents and Publication. Many of these documents are located on the Ministry web site at:
http://www.th.gov.bc.ca/publications/eng_publications/eng_pubs.htm#Traffic_Electrical_Highway_Safety_and_Geometric_Standards_Section_Publications.
 - .7 Illuminating Engineering Society (IES) Lighting Manuals, Handbook Publication (IES publications are listed in *Clause 301.3* of this Manual).
 - .8 Traffic Engineering Manuals as noted in Section 400 of this manual
 - .9 Ministry Traffic Control Manual for Work on Roadways (available for purchase from the Ministry of Management Services at:
<http://www.publications.gov.bc.ca/>)
- .2 If there are discrepancies between this manual and the documents and manuals listed above, contact the Ministry Engineering Branch, Victoria for clarification.
- .3 Ministry manuals may be purchased from the Ministry of Management Services at: <http://www.publications.gov.bc.ca/>
- .4 The Ministry will issue Technical Bulletins which may supercede sections so these documents may need to be read in conjunction with this document. Designers shall check the Ministry web site for new Technical Bulletins prior to starting and completing a design.