Transport
Roads & Maritime
Services

Traffic Signal Design

Appendix C Location and Function of Lanterns

Issue No: 1.2 23 December 2016

Preface

The traffic signal design guidelines have been developed to assist in designing traffic control signals. The information contained in the various parts is intended to be used as a guide to good practice. Discretion and judgement should be exercised, taking into account all the factors that may influence the design of traffic signals at any particular site.

The guidelines make reference, where relevant, to current Australian Standards or the Austroads Guides, and are intended to supplement and otherwise assist in their interpretation and application. If any conflict arises, the Australian Standards, the Austroads Guides and the RMS Supplements are to prevail.

The complete set of traffic signal design guidelines is as follows.

Section	Title
1	Investigation
2	Warrants
3	Design Process
4	Plan Requirements
5	Geometry
6	Pavement Marking
7	Phasing and Signal Group Display Sequence
8	Lanterns
9	Posts
10	Signs
11	Detectors
12	Controller
13	Provision for Future Facilities
14	Signalised Mid-block Marked Footcrossings
15	Special Situations
16	References

Appendix	Title
A	Design Plan Checklist
B	Traffic Signal Symbols
C	Location and Function of Lanterns
D	Location and Dimensions of Components
E	Left Turn on Red
F	Level Crossing Interface – Concept of Operations
G	Level Crossing Interface – Traffic Signal Design Guidance

Primary references and complementary material

Roads and Maritime has adopted the Australian Standards and the Austroads Guides as its primary technical references. Roads and Maritime has developed the following complementary material which must be used in conjunction with the Standards and Guides.

- Australian Standards Traffic Supplements.
- Supplements to the Austroads Guides.
- Traffic Signal Design Guide.
- Delineation Manual.
- NSW Bicycle Guidelines.
- Standard Drawings.
- Technical Directions.
- Technical Specifications.

These documents are published on the Roads and Maritime website at www.rms.nsw.gov.au.

About this release

Title:	Traffic Signal Design Guide: Appendix C Location and Function of Lanterns
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Prepared by:	Lyndall Johnson, Network Operations
Contributors:	Michael Bajenov, Fraser Johnson (Intelligent Transport Systems); Alan Dixon, Harry Campara (Network Operations); Jorge Sales-Luis (Road Design Engineering)
Endorsed by:	Alan Dixon, Principal Manager Network Operations Andrew Mehaffey, Principal Manager Intelligent Transport Systems
Authorised by:	Craig Moran, General Manager Road Network Operations
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Email for enquiries or feedback:	technical_directions_publication@rms.nsw.gov.au

Issue	Date	Section	Description	Approver
1.0	Feb 2008		Initial release	M Bushby Dir Network Management
1.1	Aug 2008	1.5 & 1.6	Figures amended to reflect new marked foot crossing markings	R O'Keefe Mgr Policies & Guidelines
1.2	Dec 2016	All 1.1 1.2 1.5 1.7	Reformatted to reflect latest structure and corporate identity. Lantern symbols changed to 200mm; ramp metering added. Ramp metering added. Traffic islands updated to show high entry angle. New section for ramp metering.	Craig Moran GM Road Network Operations

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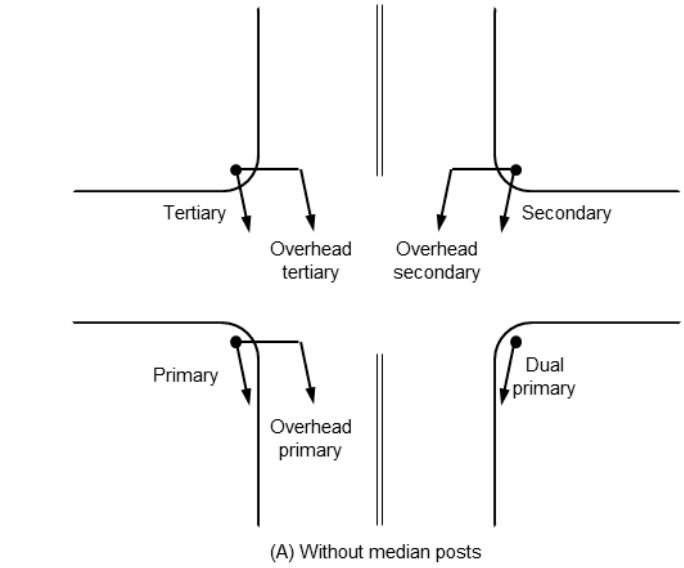
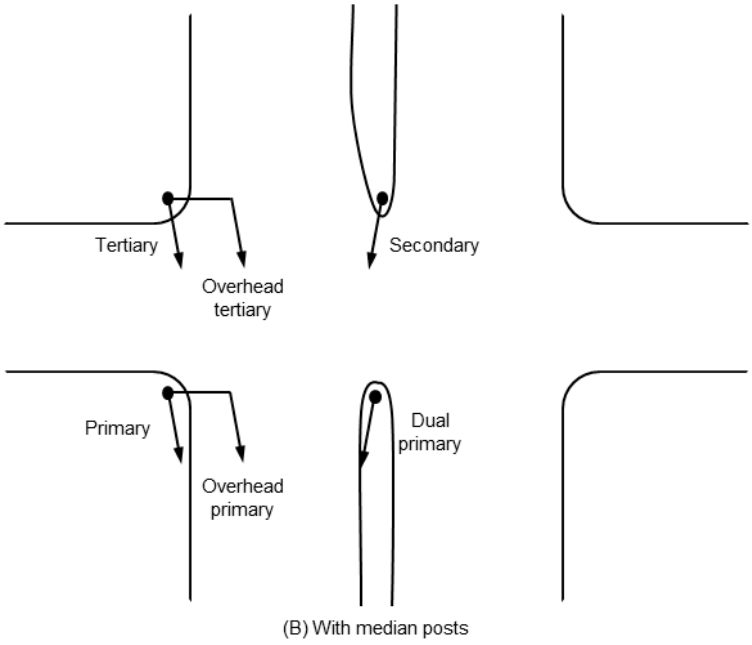
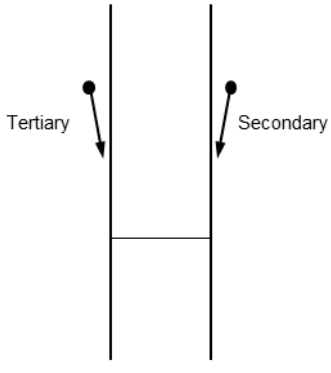
1.1. Designation of lanterns



(A) Without median posts

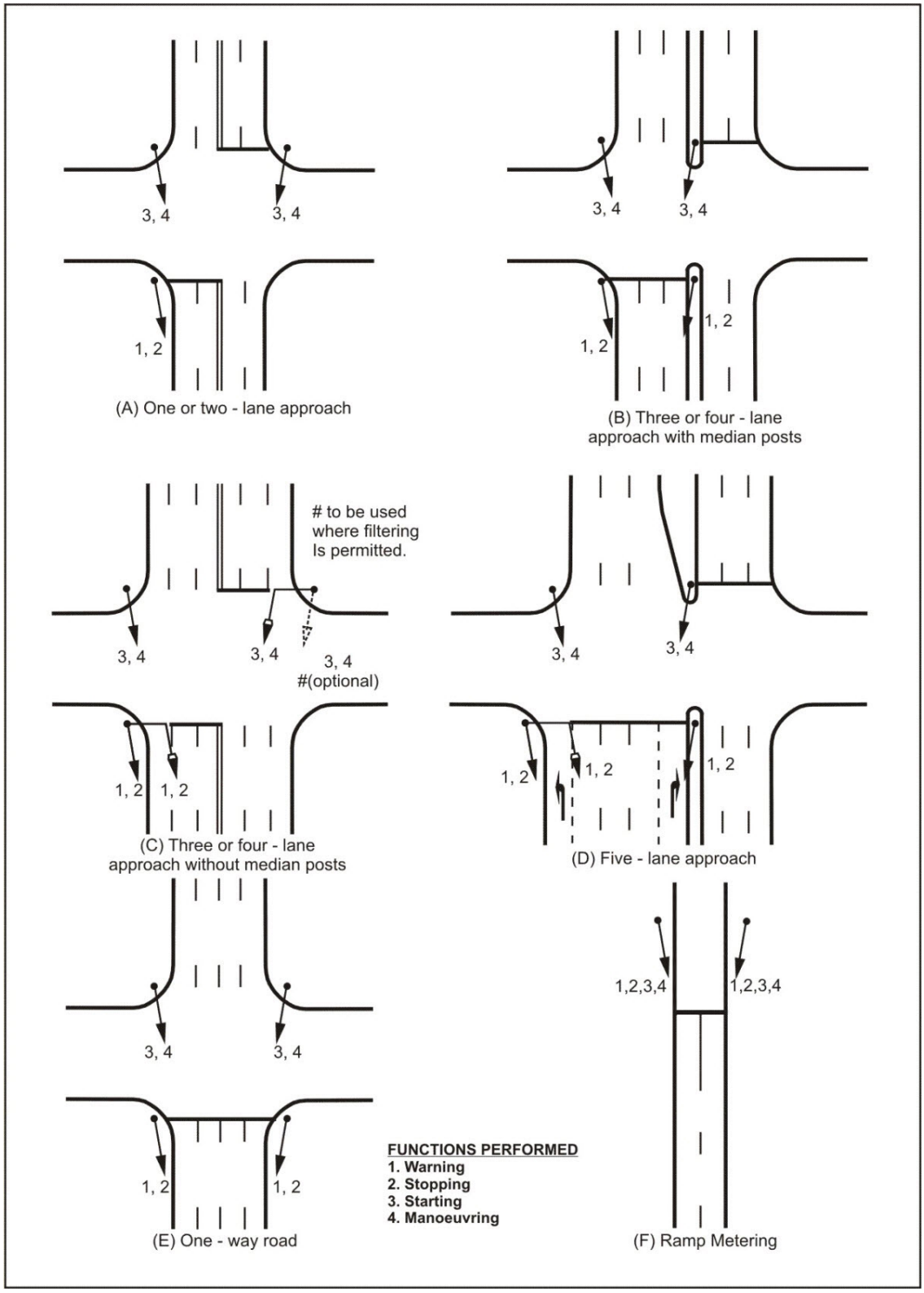


(B) With median posts

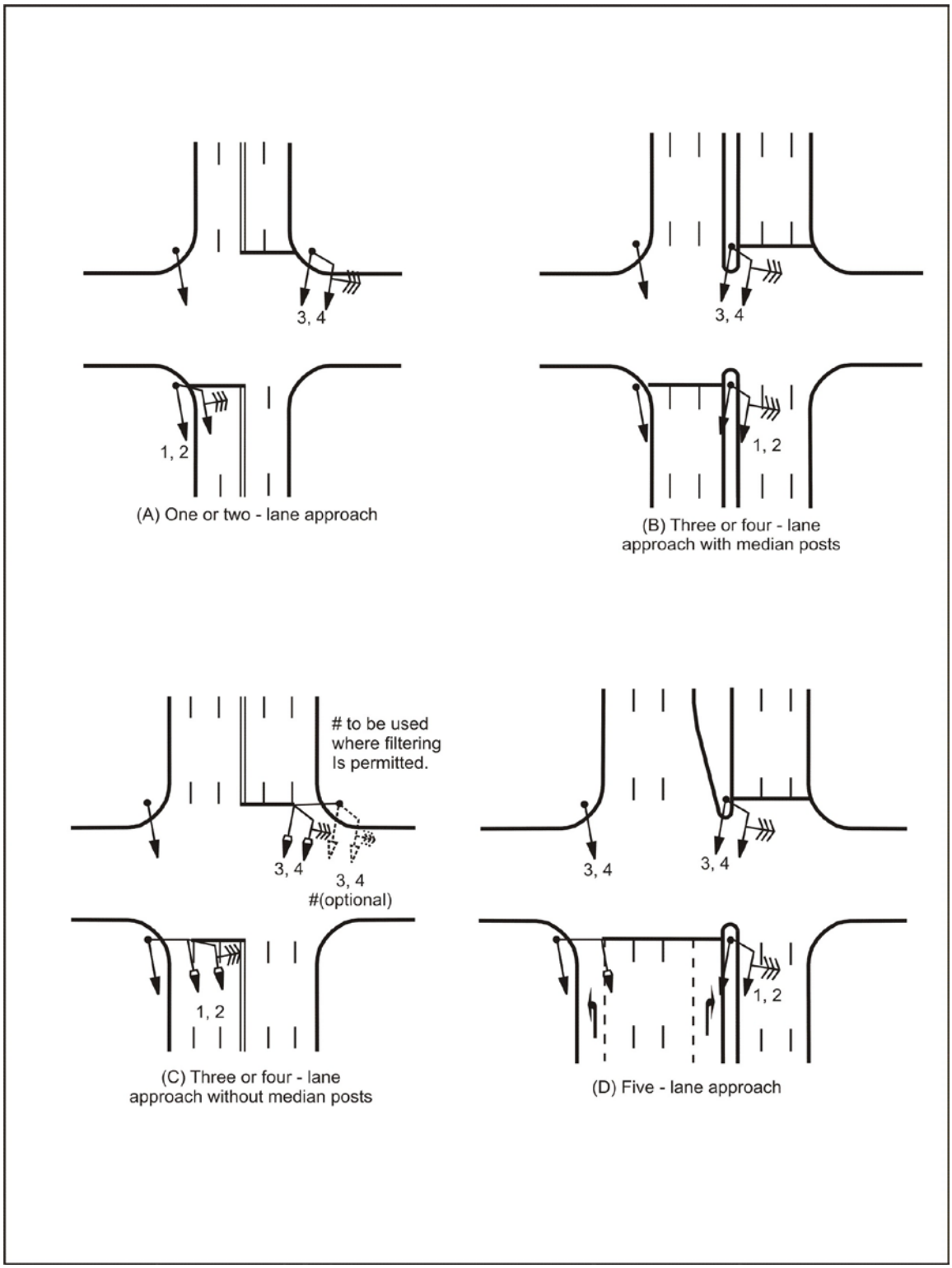


(C) Ramp metering

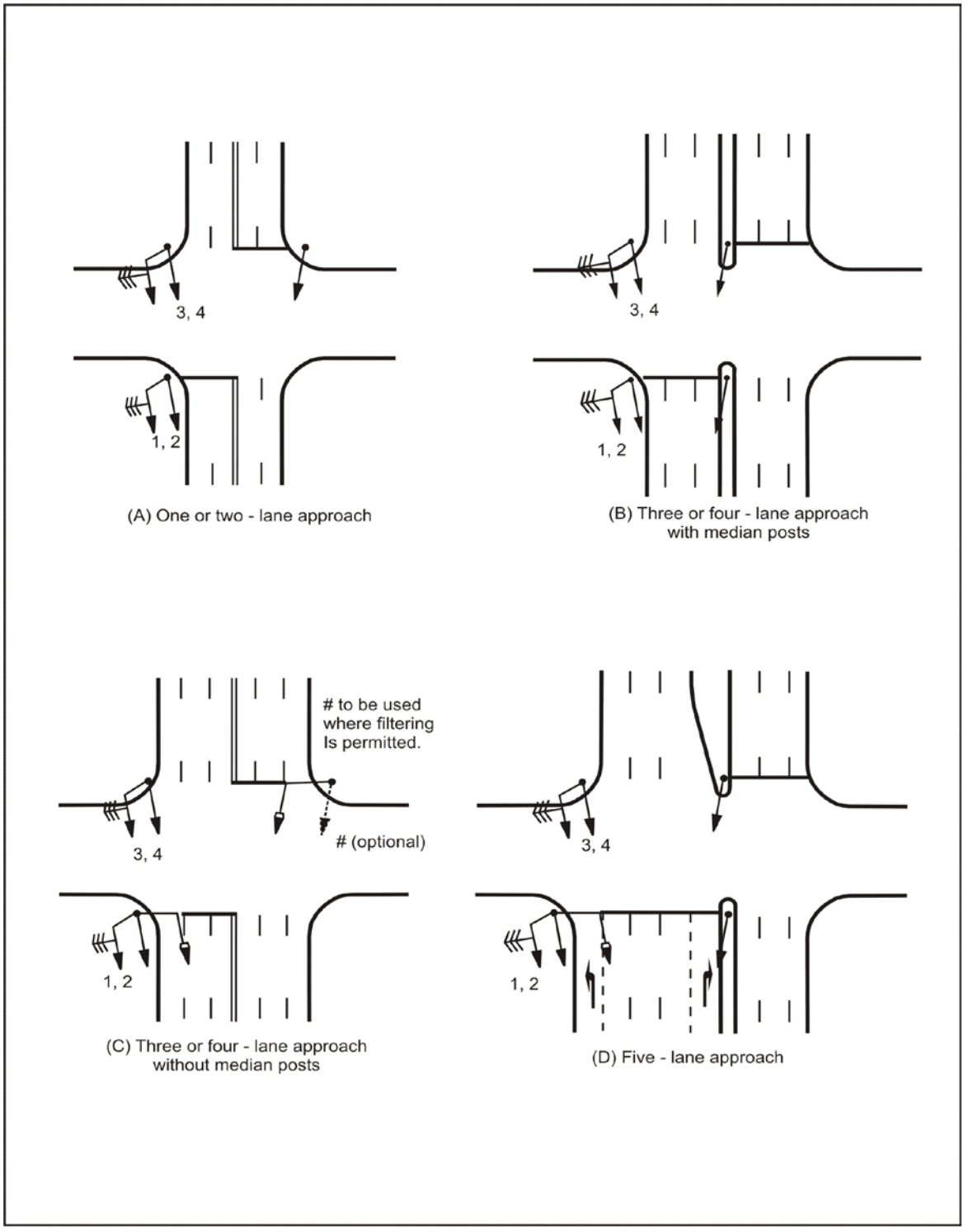
1.2. Location and functions of through lanterns



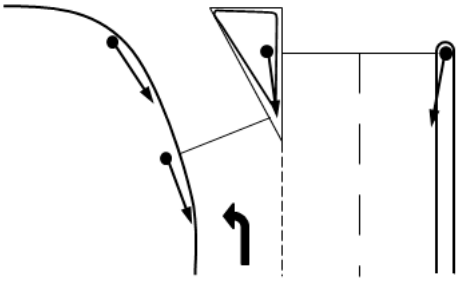
1.3. Location and function of right-turn lanterns



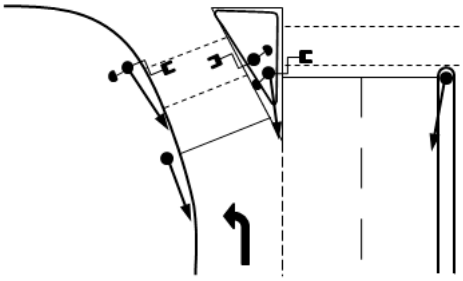
1.4. Location and function of left-turn lanterns



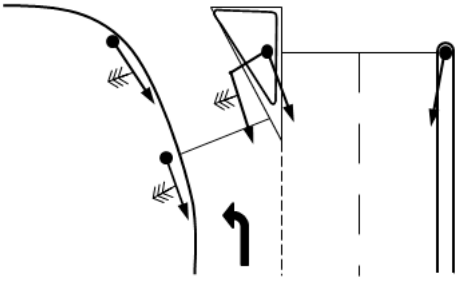
1.5. Typical location of lanterns for controlled left-turn slip lanes



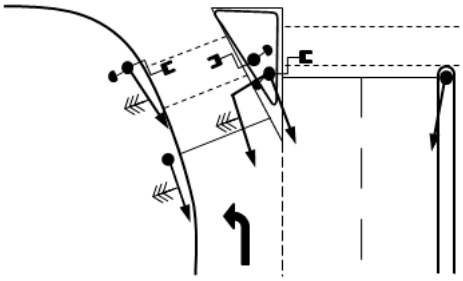
(A) No crossing and no independent control



(B) Crossing and no independent control

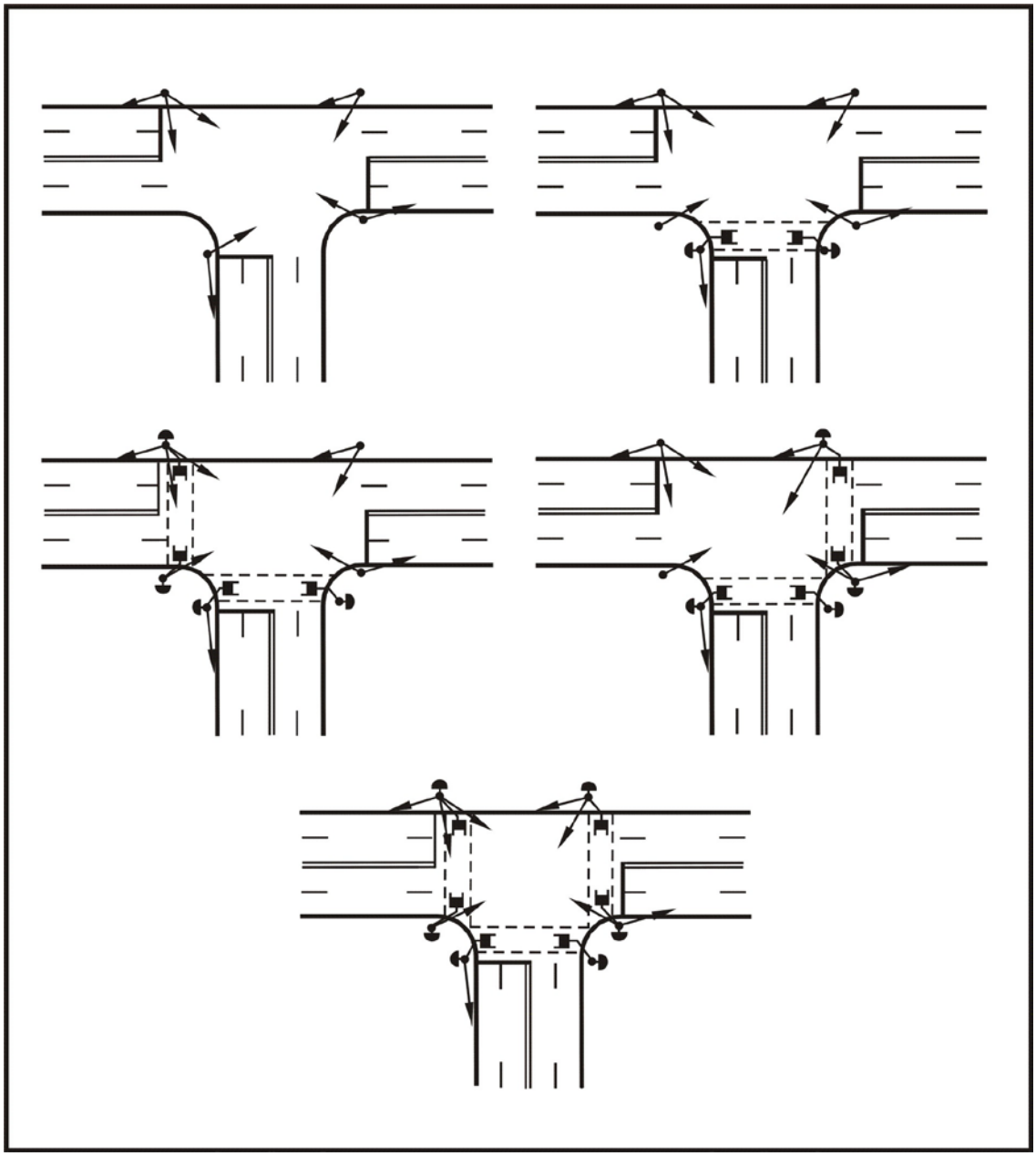


(C) No crossing and independent control

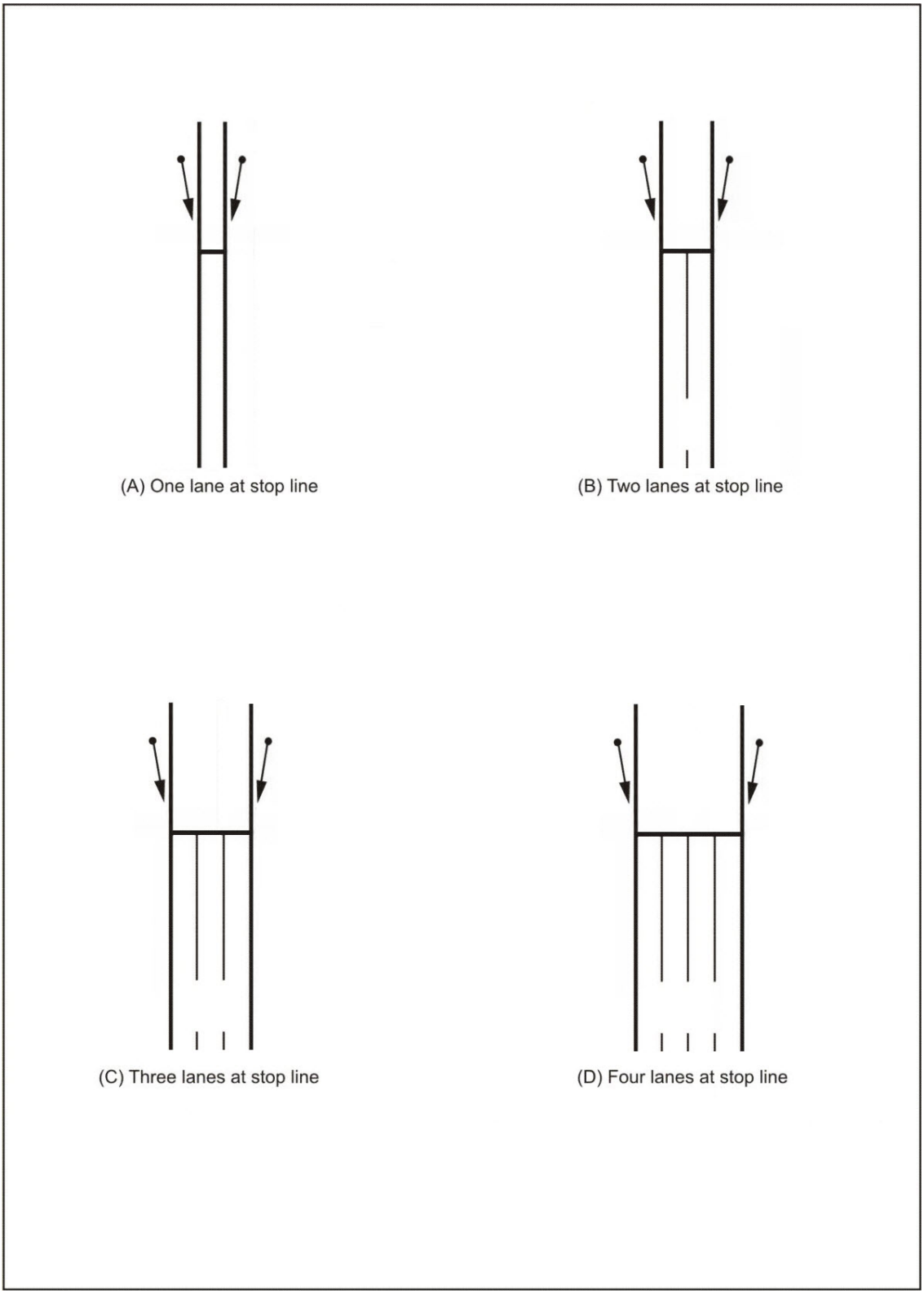


(D) Crossing and independent control

1.6. Typical location of lanterns for T-junctions



1.7. Typical location of lanterns for ramp metering traffic signals



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Customer feedback
Roads and Maritime
Locked Bag 928,
North Sydney NSW 2059

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