

Guide Sign Installation at Intersections

Purpose

The following procedure guidelines are intended to clearly define the design parameters, manufacturing product standards, and installation methodologies of new or replacement highway guide signs at intersections on all roadways of the provincial secondary highway network.

Procedure(s)

The following specifications are to be used in the design, manufacturing, and installation of intersection Guide Signs on non-100 Series Highways:

1 Legend Content

The legend used for **Provincial Road Names** must conform to the Provincial Road Listing Database. All road names must be spelled in full with no exceptions. The Road Listing Database also contains an approved list of prefix and suffix abbreviations that can be used. Both prefixes and suffixes may be used for bilingual signs. For further information on the Road Listing Database, contact the Maintenance and Operations Section of TIR.

In order to ensure conformity with the 911 database, the legend used for **Private Road Names** must conform to the official road name for the road, as confirmed by the municipality. All road names must be spelled in full with no exceptions. Prefix/Suffix abbreviations contained in the Provincial Road Listing Database may be used for private roads as well.

The legend for **Place Names** must conform to the approved version as contained in the Nova Scotia Geographical Names Database. Any abbreviations must be approved by the Provincial Signing Officer.

2 Colour and Retro reflectivity

All provincial road name signs, with the exception of service road name signs, consist of a white message and border on a green background. Municipalities will be given the option of adding a symbol icon to identify their respective municipality.

Service road name signs consist of a white message on a black background

White sign legends with a stroke width of 15 mm (5/8") or less may be a minimum of ASTM Type 1 sheeting. All other sign legends must be a minimum of ASTM Type III (High Intensity) sheeting. Green background must be a minimum of ASTM Type I (Engineer Grade) sheeting. Black background is not retro reflective.

All "Private Road" name signs consist of black non-retro reflective vinyl letters and border (ScotchCal or equivalent) on a white Engineer Grade background.

3 Typeface

The following legend size/typeface combinations should be used for Provincial (except service roads) or Municipal road name signs (not combined with community name):

Through Road Type	Legend Size/Typeface	Minimum Sign Board Height* (for one line legend)	Sign Placement
Posted speed greater than 80 km/h	8" Mixed Case Clearview 5-W-R	24" (600 mm) Plywood	In advance of intersection (see Appendix A - Standard Guide Sign Placement)
Two lane two way with posted speed greater than 50 km/h but less than or equal to 80 km/h or Multilane* with posted speed greater than or equal to 50 km/h	6" Mixed Case Clearview 3-W	16" (400 mm) Plywood	In advance of intersection (see Appendix A - Standard Guide Sign Placement)
Two lane two way with posted speed 50 km/h except within subdivisions	4" Mixed Case Clearview 2-W	12" (300 mm) Plywood	In advance of intersection (see Appendix A - Standard Guide Sign Placement)

Two lane two way Posted speed 50 km/h within subdivision	4" Mixed Case Clearview 2-W	8" (200 mm) Plywood	On Stop or Yield Sign Post (see Appendix A - Standard Guide Sign Placement)
	OR		
	3.5" Mixed Case Clearview 2-W	6" Aluminum Street Blade	On top of Stop or Yield Sign or on individual post at intersection (see Appendix A - Standard Guide Sign Placement)

* Multilane denotes more than one lane in the same direction of travel and therefore does not include three lane cross sections consisting of one travel lane in each direction and a two-way left turn lane.

For service road name signing the following Legend Size/Typeface combinations should be used:

Through Road Type	Legend Size/Typeface	Minimum Sign Board Height (for two line legend)	Sign Placement
All intersections with service roads	3"/4" Mixed Case Clearview 2-W As shown in Figure A0	16" (400mm) Plywood	On the service road at the intersection (see Appendix A - Standard Guide Sign Placement)

For all other guide signing, the following Legend Size/Typeface combinations should be used:

Road Type	Legend Size/Typeface
Posted speed greater than 80 km/h	8" Mixed Case Clearview 5-W-R
Posted speed less than or equal to 80 km/h	6" Mixed Case Clearview 3-W

4 Spacings

4.1 Single Line Road Name Signs

The distance from the left and right edge of the sign to the legend shall be no less than the height of the legend's upper case letter.

The distances from the top and bottom of the sign to the top and bottom of the capital letters in the legend should be as follows:

Legend Height/ Edge Spacing	Sign Board Height	Distance from top of sign	Distance from bottom of sign
8" (200 mm)	24" (600 mm)	6.5" (165 mm)	9.5" (235 mm)
6" (150 mm)	16" (400 mm)	4.25" (105 mm)	5.75" (145 mm)
4" (100 mm)	12" (300 mm)	3.25" (85 mm)	4.75" (115 mm)
4" (100 mm)	8" (200 mm)	1.5" (40 mm)	2.5" (60 mm)

4.2 Multi Line Road Name Signs

Spacings for multi-line signs should follow the proportional line spacing guides as detailed in the English Edition of the Clearview Typeface Supplement to the Manual of Uniform Traffic Control Devices as published by the United States Federal Highways Administration (FHWA).

5 Placement

Sign locations must conform to the Typical Guide Sign Placement diagrams included in Appendix A, unless geographical conditions warrant the sign be located elsewhere.

To assist with selection of the correct placement diagram, use the following:

- Figure A0 Where a provincial service road intersects a provincial road.
- Figure A1 Where a private road intersects a provincial road.
- Figure A2 Where a provincial subdivision street with a posted speed of 50 km/h intersects another subdivision street with a posted speed of 50 km/h.
- Figure A3 Where a low volume local road (less than 200 vpd ADT, not Routes or Trunks), intersects another

provincial road.

Figures A4 and A5 Where a local road of higher volume and speed, (no Trunks or Routes), intersects with another local provincial road (no Trunks or Routes).

Figures A6 and A7 Where a local road of higher volume and speed, (no Trunks or Routes), intersects with a Trunk or a Route.

Figures A8 and A9 Where a Trunk or Route intersects with another Trunk or Route.

These drawings cannot address every possible situation. Drawings may be combined where intersections are a combination of the configurations shown. The Provincial Signing Officer or District Traffic Supervisor should be consulted when signing unusual intersections.

6 Post Spacing

Sign post spacing shall conform to Sign Erection Details, Figure B1 included in Appendix B.

Accountability

Area Managers and Supervisors are responsible for ensuring this procedure and its application are followed.

Monitoring

The Supervisor, or their designate, are responsible for ensuring that signs are constructed and are placed according to the guidelines and the appropriate typical plan. The Area Manager and the District Traffic Authority are responsible for the monitoring of this policy.

References

1. Manual 23, Chapter 2, Policy # PO1010 Guide Signing at Intersections
2. Manual 23, Chapter 2, Policy # PO1022 Service Roads
3. Manual 23, Chapter 2, Policy # PO1027 Service Roads Naming Conventions

4. Guide Sign Report
5. Canadian General Standards Board, Standard 62-GP-11M
6. *Manual of Uniform Traffic Control Devices for Canada* - Transportation Association of Canada
7. *Supplemental Guide for Guide and Information Signage in Canada* - Transportation Association of Canada
8. *Clearview Supplement to The Manual of Uniform Traffic Control Devices, English Edition* - United States Federal Highway Administration
9. *Nova Scotia Geographical Names Database* - https://www.gov.ns.ca/GeoNova/home/products/softpage/nova_scotia_place_names.asp

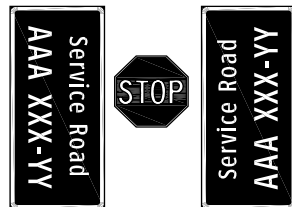
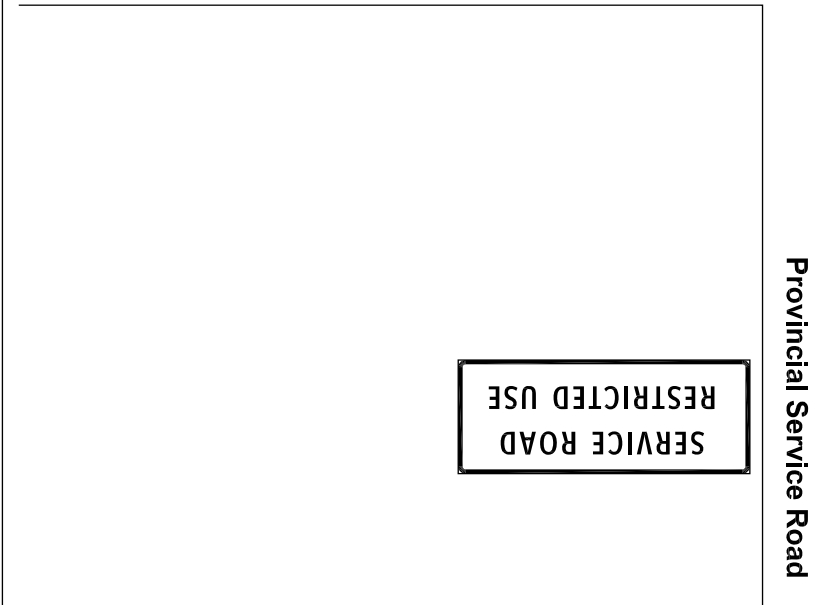
Appendices

- Appendix A - Typical Guide Sign Placement Diagrams - Figures A0 through A9
- Appendix B - Sign Erection Details - Figure B1

Enquiries

Area Managers
Traffic Studies Engineer
Provincial Signing Officer
District Traffic Supervisor

Provincial Road




NOTE:

Service road name signs should be placed back to back on a post placed on the service road near the intersection so the signs are visible to drivers on the through road. Take caution not to block the visibility of drivers entering the through road from the service road.

Where practical, the service road name signs may be placed below the stop sign, on the same post.

Regulatory signing is shown for illustration purposes only . Installation of Regulatory signing must conform to the Regulatory and Warning Signage Plan as issued by the District Traffic Supervisor.

SERVICE ROAD RESTRICTED USE sign should be placed approximately 20 to 50m from the provincial road. It may be adjusted outside this range based on existing conditions provided it is not a distraction for through traffic on the provincial road

	<p><i>Manual 23 - Policy and Procedures</i> Division: Highway Programs Section: Engineering and Construction Function: Traffic Management (HP 2.23.2) Procedure Number: PR5052 Appendix: A</p>
<p>Figure A0 Typical Guide Sign Placement Provincial Service Road</p>	
<p>Scale : NTS</p>	<p>Date : August 2009</p>
<p>Produced by : Traffic Engineering Services</p>	

Thoroughfare (Provincial Road)

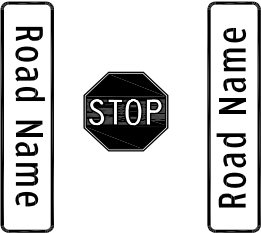
NOTE:

When Aluminum Street Blade is used, it must be placed on top of stop sign post.

When Plywood Fingerboard Sign is used, it should be placed above the stop sign but may be placed below the stop sign if necessary.

Regulatory signing is shown for illustration purposes only .

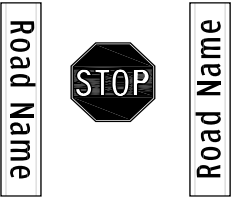
Private Road




Plywood Fingerboard Sign

OR

When Speed on Thoroughfare is 50km/h



Aluminum Street Blade

	<p><i>Manual 23 - Policy and Procedures</i> Division: Highway Programs Section: Engineering and Construction Function: Traffic Management (HP 2.23.2) Procedure Number: PR5052 Appendix: A</p>
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**Figure A1
 Typical Guide Sign Placement
 Private Road Intersecting Provincial Road**

Scale : NTS	Date :August 2009
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Subdivision Street

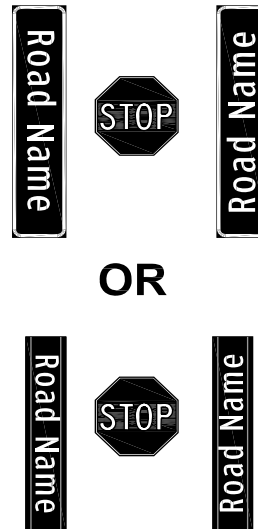
NOTE:

When Aluminum Street Blade is used, it must be placed on top of stop sign post.

When Plywood Fingerboard Sign is used, it should be placed above the stop sign but may be placed below the stop sign if necessary.

Regulatory signing is shown for illustration purposes only . Installation of Regulatory signing must conform to the Regulatory and Warning Signage Plan as issued by the District Traffic Supervisor.

Provincial Subdivision Street



Plywood Fingerboard Sign

Aluminum Street Blade



Manual 23 - Policy and Procedures
 Division: Highway Programs
 Section: Engineering and Construction
 Function: Traffic Management (HP 2.23.2)
 Procedure Number: PR5052
 Appendix: A

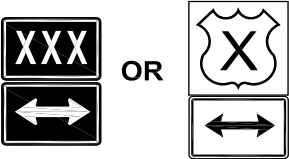
Figure A2
Typical Guide Sign Placement
 Inside Subdivision - 50km/h

Scale : NTS

Date : August 2009

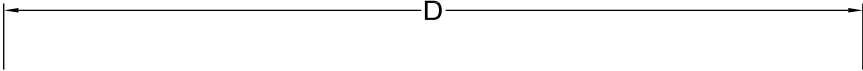
Produced by : Traffic Engineering Services

POSTED SPEED ON THOROUGHFARE	SIGN LOCATION (D) TWO LANE TWO WAY with GRADES -4% TO +4%	SIGN LOCATION (D) MULTI-LANE or TWO LANE TWO WAY with GRADES GREATER THAN -4%
50km/h	60m	70m
60km/h	85m	90m
70km/h	110m	120m
80km/h	140m	150m
90km/h	170m	190m

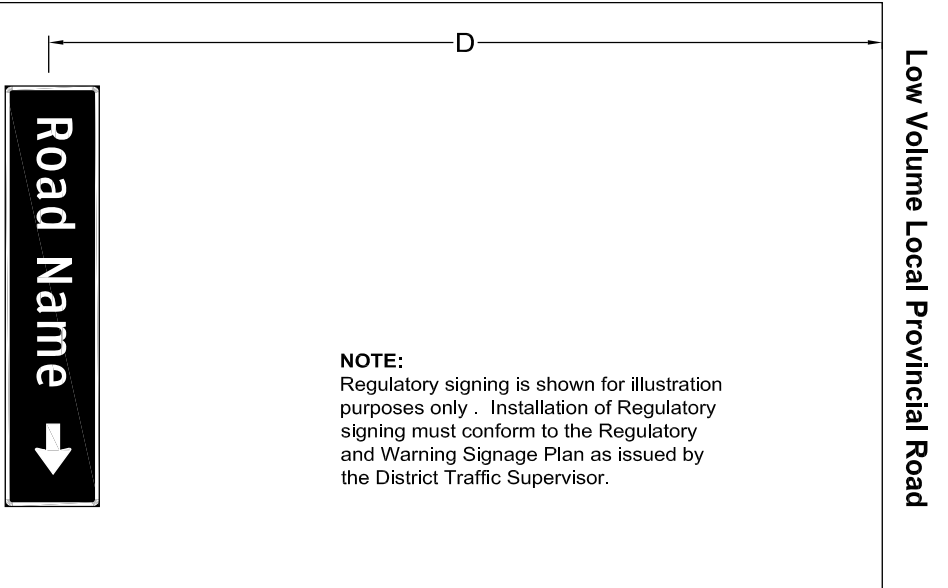


OR

OR



Trunk, Route or Provincial Local Road (other than Subdivision Street)



Optional:
Street blade or fingerboard may be added to draw additional attention to the intersection, if desired. See Figure 2 for installation details.

NOTE:
Regulatory signing is shown for illustration purposes only. Installation of Regulatory signing must conform to the Regulatory and Warning Signage Plan as issued by the District Traffic Supervisor.


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Figure A3
Typical Guide Sign Placement
 Low Volume Local Provincial Road

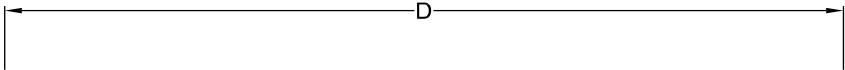
Scale : NTS Date : August 2009

Produced by : Traffic Engineering Services

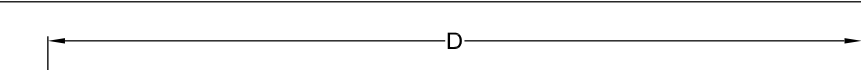
POSTED SPEED ON THOROUGHFARE	SIGN LOCATION (D) TWO LANE TWO WAY with GRADES -4% TO +4%	SIGN LOCATION (D) MULTI-LANE or TWO LANE TWO WAY with GRADES GREATER THAN -4%
50km/h	60m	70m
60km/h	85m	90m
70km/h	110m	120m
80km/h	140m	150m
90km/h	170m	190m



Where space restrictions for this sign exist, road name sign may be located in advance of the stop sign.



Local Provincial Road (Not Low Volume)



Local Provincial Road (Not Low Volume)



Optional: Street blade or fingerboard may be added to draw additional attention to the intersection, if desired. See Figure 2 for installation details.



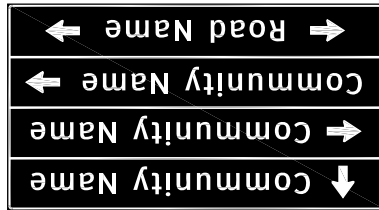
NOTE:
Regulatory signing is shown for illustration purposes only. Installation of Regulatory signing must conform to the Regulatory and Warning Signage Plan as issued by the District Traffic Supervisor.

	<p><i>Manual 23 - Policy and Procedures</i> Division: Highway Programs Section: Engineering and Construction Function: Traffic Management (HP 2.23.2) Procedure Number: PR5052 Appendix: A</p>
	<p>Figure A4 Typical Guide Sign Placement 3-way Provincial Road (Not Low Volume)</p>
<p>Scale : NTS</p>	<p>Date : August 2009</p>
<p>Produced by : Traffic Engineering Services</p>	

POSTED SPEED ON THOROUGHFARE	SIGN LOCATION (D) TWO LANE TWO WAY with GRADES -4% TO +4%	SIGN LOCATION (D) MULTI-LANE or TWO LANE TWO WAY with GRADES GREATER THAN -4%
50km/h	60m	70m
60km/h	85m	90m
70km/h	110m	120m
80km/h	140m	150m
90km/h	170m	190m



Local Provincial Road (Not Low Volume)



Where space restrictions for this sign exist, road name sign may be located in advance of the stop sign.

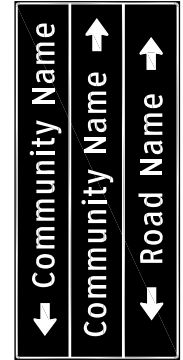


NOTE:
Regulatory signing is shown for illustration purposes only. Installation of Regulatory signing must conform to the Regulatory and Warning Signage Plan as issued by the District Traffic Supervisor.

Local Provincial Road (Not Low Volume)



Where space restrictions for this sign exist, road name sign may be located in advance of the stop sign.



Local Provincial Road (Not Low Volume)



Optional:
Street blade or fingerboard may be added to draw additional attention to the intersection, if desired. See Figure 2 for installation details.



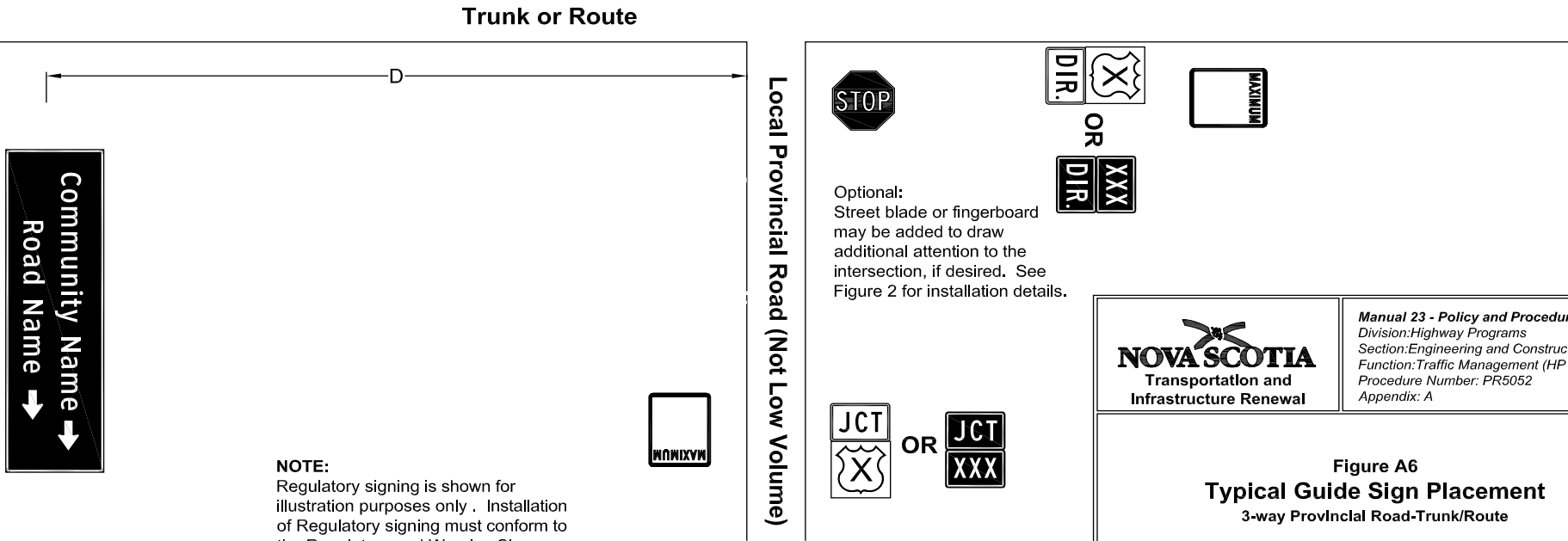
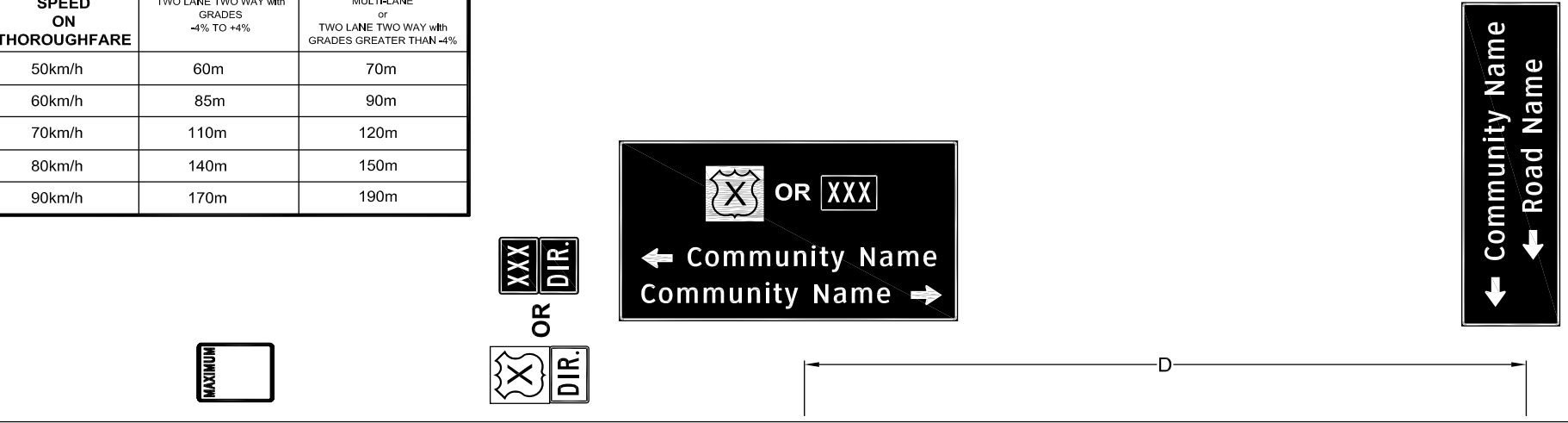
	<p><i>Manual 23 - Policy and Procedures</i> Division: Highway Programs Section: Engineering and Construction Function: Traffic Management (HP 2.23.2) Procedure Number: PR5052 Appendix: A</p>
	<p>Figure A5 Typical Guide Sign Placement 4-way Local Provincial Road (Not Low Volume)</p>

Scale : NTS

Date : August 2009

Produced by : Traffic Engineering Services

POSTED SPEED ON THOROUGHFARE	SIGN LOCATION (D) TWO LANE TWO WAY with GRADES -4% TO +4%	SIGN LOCATION (D) MULTI-LANE or TWO LANE TWO WAY with GRADES GREATER THAN -4%
50km/h	60m	70m
60km/h	85m	90m
70km/h	110m	120m
80km/h	140m	150m
90km/h	170m	190m



NOTE:
Regulatory signing is shown for illustration purposes only . Installation of Regulatory signing must conform to the Regulatory and Warning Signage Plan as issued by the District Traffic Supervisor.

Optional:
Street blade or fingerboard may be added to draw additional attention to the intersection, if desired. See Figure 2 for installation details.


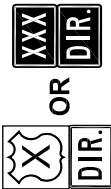
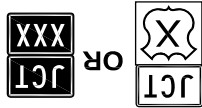
 NOVA SCOTIA Transportation and Infrastructure Renewal	<i>Manual 23 - Policy and Procedures</i> Division: Highway Programs Section: Engineering and Construction Function: Traffic Management (HP 2.23.2) Procedure Number: PR5052 Appendix: A
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Figure A6
Typical Guide Sign Placement
3-way Provincial Road-Trunk/Route

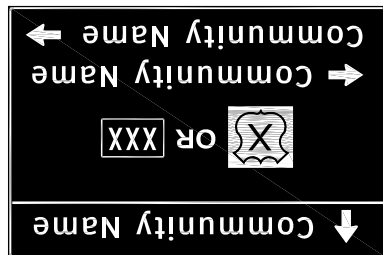
Scale : NTS	Date : August 2009
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Produced by : Traffic Engineering Services

POSTED SPEED ON THOROUGHFARE	SIGN LOCATION (D) TWO LANE TWO WAY with GRADES -4% TO +4%	SIGN LOCATION (D) MULTI-LANE or TWO LANE TWO WAY with GRADES GREATER THAN -4%
50km/h	60m	70m
60km/h	85m	90m
70km/h	110m	120m
80km/h	140m	150m
90km/h	170m	190m

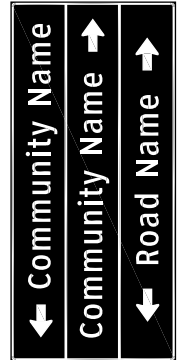


Trunk or Route



NOTE:
Regulatory signing is shown for illustration purposes only. Installation of Regulatory signing must conform to the Regulatory and Warning Signage Plan as issued by the District Traffic Supervisor.

Local Provincial Road (Not Low Volume)



Local Provincial Road (Not Low Volume)

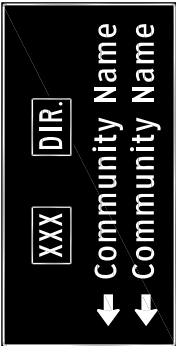
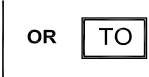


Optional:
Street blade or fingerboard may be added to draw additional attention to the intersection, if desired. See Figure 2 for installation details.

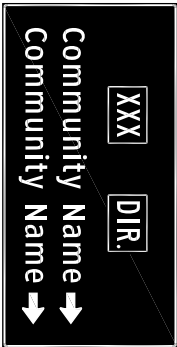


<p>NOVA SCOTIA Transportation and Infrastructure Renewal</p>	<p><i>Manual 23 - Policy and Procedures</i> Division: Highway Programs Section: Engineering and Construction Function: Traffic Management (HP 2.23.2) Procedure Number: PR5052 Appendix: A</p>
	<p>Figure A7 Typical Guide Sign Placement 4-way Local Provincial Road-Trunk/Route</p>
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Where space restrictions on the sign exist, a solid vertical line may replace the TO Marker



Trunk or Route



Trunk or Route



NOTE:
Regulatory and warning signing is shown for illustration purposes only. Installation of regulatory and warning signing must conform to the Regulatory and Warning Signage Plan as issued by the District Traffic Supervisor.



POSTED SPEED ON THOROUGHFARE	SIGN LOCATION (D) TWO LANE TWO WAY with GRADES -4% TO +4%	SIGN LOCATION (D) MULTI-LANE or TWO LANE TWO WAY with GRADES GREATER THAN -4%
50km/h	60m	70m
60km/h	85m	90m
70km/h	110m	120m
80km/h	140m	150m
90km/h	170m	190m

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Manual 23 - Policy and Procedures
Division: Highway Programs
Section: Engineering and Construction
Function: Traffic Management (HP 2.23.2)
Procedure Number: PR5052
Appendix: A

Figure A8
Typical Guide Sign Placement
3-way Trunk-Route Intersection

Scale : NTS

Date : August 2009

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POSTED SPEED ON THOROUGHFARE	SIGN LOCATION (D) TWO LANE TWO WAY with GRADES -4% TO +4%	SIGN LOCATION (D) MULTI-LANE or TWO LANE TWO WAY with GRADES GREATER THAN 4%
50km/h	60m	70m
60km/h	85m	90m
70km/h	110m	120m
80km/h	140m	150m
90km/h	170m	190m

Community Name XX
Community Name XX

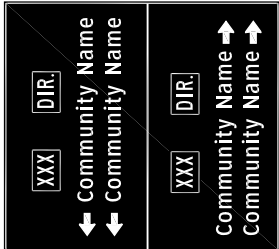


Trunk or Route

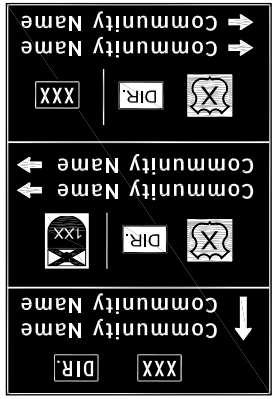
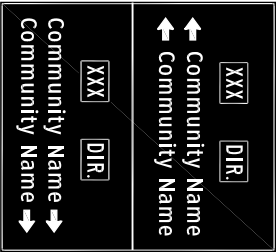


Where space restrictions on the sign exist, a solid vertical line may replace the TO Marker

OR TO



Trunk or Route



Trunk or Route

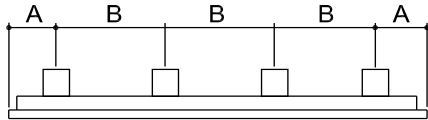
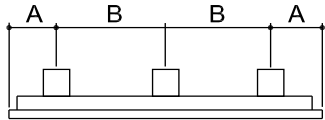
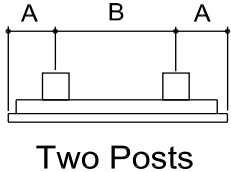
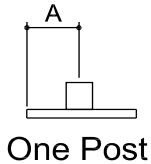


Community Name XX
Community Name XX



NOTE:
Regulatory and warning signing is shown for illustration purposes only. Installation of regulatory and warning signing must conform to the Regulatory and Warning Signage Plan as Issued by the District Traffic Supervisor.

	Manual 23 - Policy and Procedures Division: Highway Programs Section: Engineering and Construction Function: Traffic Management (HP 2.23.2) Procedure Number: PR5052 Appendix: A
	<p align="center">Figure A9 Typical Guide Sign Placement 4-way Trunk-Route Intersection</p>
Scale : NTS	Date : August 2009
Produced by : Traffic Engineering Services	



One Post

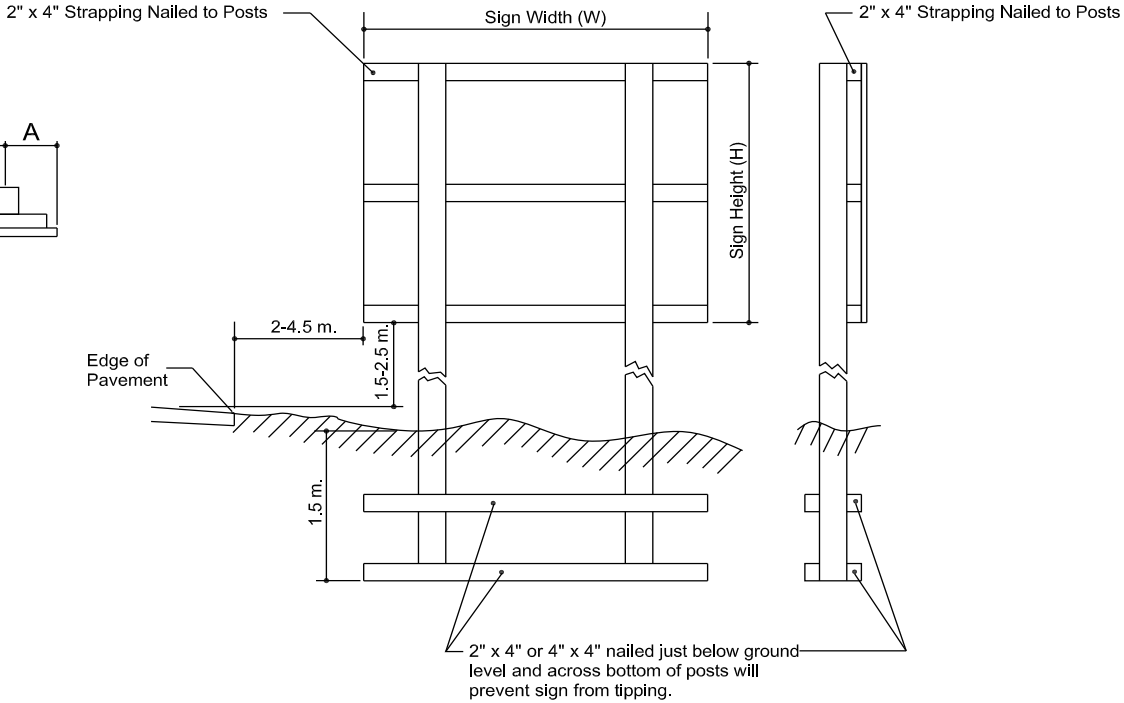
Two Posts

Three Posts

Four Posts

SIGN WIDTH W	SIGN HEIGHT H	NO. of POSTS	POST SIZE	POST SPACING	
				A	B
24"	8" TO 36"	1	4" x 4"	12"	
30"		1	4" x 4"	15"	
36"		1	4" x 4"	18"	
48"	12" TO 84"	2	4" x 4"	6"	36"
60"		2	4" x 4"	12"	36"
72"		2	4" x 4"	12"	48"
84"		2	4" x 4"	18"	48"
96"		3	4" x 4"	12"	36"
108"		3	4" x 4"	18"	36"
120"	OVER 24"	3	6" x 6"	18"	42"
132"		3	6" x 6"	18"	48"
144"		3	6" x 6"	18"	54"
156"		4	6" x 6"	16"	40"
168"		4	6" x 6"	18"	44"
180"		4	6" x 6"	18"	48"
192"		4	6" x 6"	18"	54"

For signs larger than shown, use maximum end space of 18" and maximum post spacing of 48"



NOTES:

1. Strapping behind sign is to be painted the same color as the sign unless they are pressure treated.
2. Sign posts are to be painted white unless they are pressure treated.
3. Sign face is to be fixed to the post structure with 2" galvanized lag screws and washers.
4. Strapping behind signs shall be placed at the top, centre and bottom of the sign.
5. Sign must not be diagonally braced to the ground.

	<p><i>Manual 23 - Policy and Procedures</i> Division: Highway Programs Section: Engineering and Construction Function: Traffic Management (HP 2.23.2) Procedure Number: PR5052 Appendix: B</p>
	<p align="center">Figure B1 Sign Erection Details</p>
<p>Scale : NTS</p>	<p>Date : August 2009</p>
<p>Produced by : Traffic Engineering Services</p>	