



THE CITY OF WINNIPEG

APPENDIX 'D'

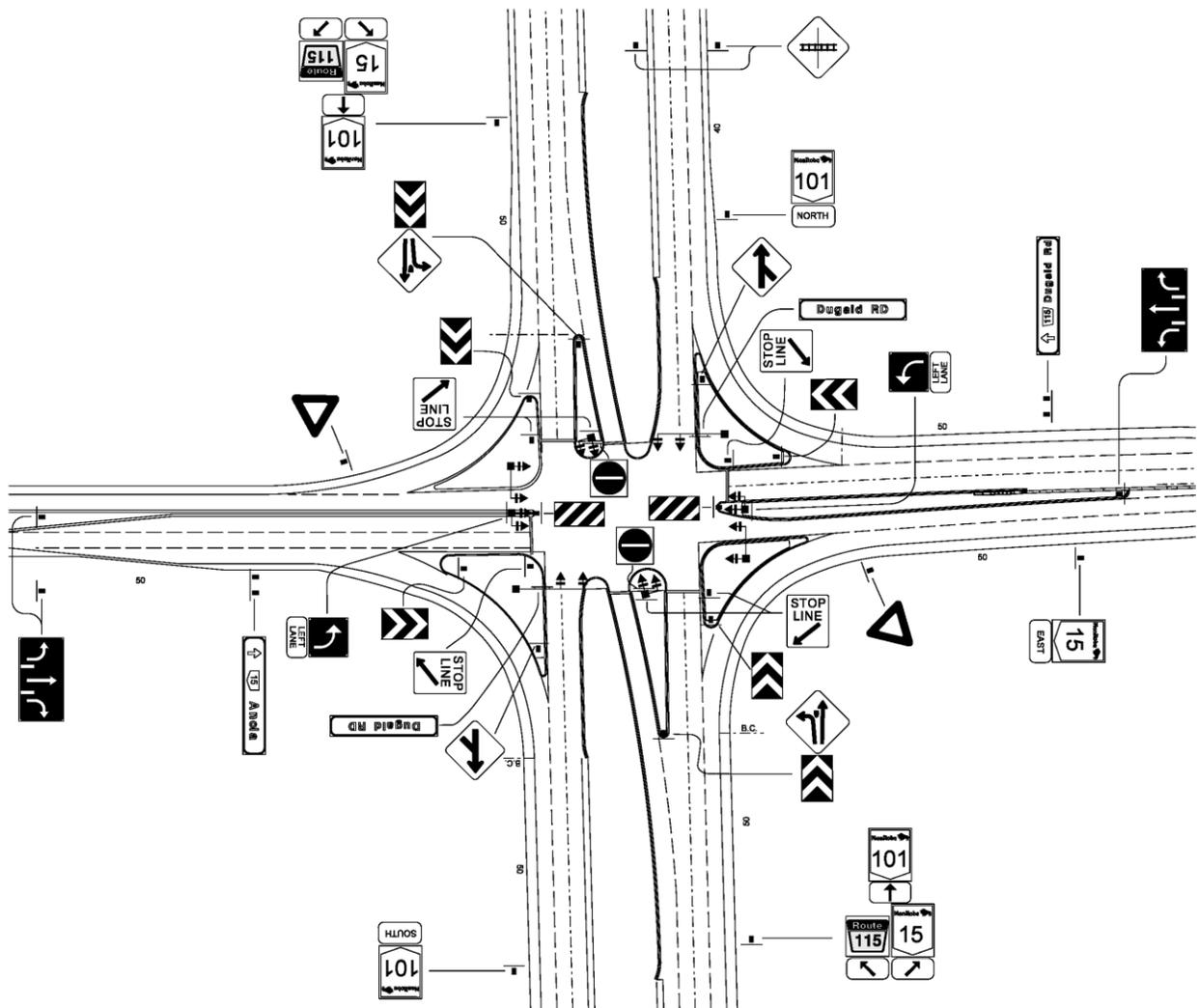
MI THE TRAFFIC SIGNING MANUAL

BID OPPORTUNITY NO. 9-2018

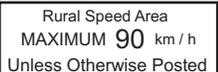
SHOAL LAKE AQUEDUCT CROSSING AND ASSOCIATED ROADWORKS

The
Traffic Signing Manual
for
Permanent Traffic Signs

The Blue Manual
2012



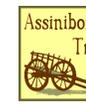
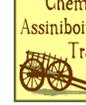
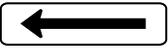
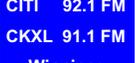
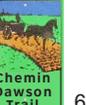
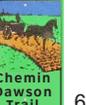
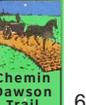
REGULATORY

 RA-1 750 X 750 1200 X 1200 13.7 7.9	 RA-2 13.7 7.9	 RB-23 600 X 600 900 X 900 13.7 13.7	 WRONG WAY RB-22 13.7 13.7	 RB-69 600 X 600 900 X 900 5.1 5.1	 RB-70 5.1 5.1	 RB-66 600 X 600 5.1		
 4-WAY RA-1 T 600 X 300 13.7		 WRONG WAY RB-223 900 X 1350 7.9		 DANGEROUS GOODS ROUTE RB-69 T 600 X 300 900 X 450 5.1 5.1	 DANGEROUS GOODS CARRIERS PROHIBITED RB-70 T 5.1 5.1	 WALK ON LEFT FACING TRAFFIC RC-1 450 X 600 5.1	 NO FISHING FROM BRIDGE RC-2 5.1	
 RB-21 900 X 300 7.4		 RB-24 600 X 750 900 X 1200 1200 X 1500 5.1 7.4 7.4	 RB-25 5.1 7.4 7.4	 DO NOT TRAVEL ON PAVED SHOULDER MR-4 600 X 750 5.1 *5.3	 LOADS OVER tonnes MR-81 * 5.1 *5.3	 STOP LINE RC-4 L 600 X 750 5.1	 STOP LINE RC-4 R 5.1	 LEFT TURN SIGNAL MR-100 5.1
 MAXIMUM 0 RB-1 600 X 750 900 X 1200 5.3 7.6	 MAXIMUM 0 RB-5 5.3 7.6	 RB-61 600 X 600 5.1	 RB-62 5.1	 CROSSING OF HIGHWAY DITCH BY VEHICLES PROHIBITED MR-82 300 X 450 5.1	 DUMPING OF INDUSTRIAL AND HOUSEHOLD GARBAGE PROHIBITED MR-83 5.1	 RA-3 L 5.1	 RA-3 R 5.1	
 RB-11 L 5.1	 RB-11 R 5.1	 RB-31 900 X 900 5.1	 RB-32 5.1	 POSSESSION OF RADAR DETECTING DEVICES IS ILLEGAL IN MANITOBA MR-98 900 X 1200 1200 X 1500 7.4		 RA-4 L 600 X 750 900 X 1200 5.1 7.4	 RA-4 R 5.1 7.4	
 RB-14 L 5.1	 RB-14 R 5.1	 KEEP RIGHT EXCEPT TO PASS RB-34 600 X 750 900 X 1200 1200 X 1500 5.1 7.4 7.4	 SLOWER TRAFFIC KEEP RIGHT RB-35 5.1 7.4 7.4	 RB-41 L 600 X 600 5.1	 RB-41 R 5.1	 UNAUTHORIZED USE OF HIGHWAYS RIGHT-OF-WAY PROHIBITED MR-102 750 X 750 5.1		
 RB-15 600 X 600 900 X 900 5.1 5.1	 RB-16 5.1 5.1	 RB-17 R 600 X 900 5.1	 MAXIMUM t RB-63 600 X 600 900 X 900 5.3 5.3	 RIGHT LANE RB-41 RT 600 X 300 5.1		 RC-6 600 X 600 900 X 900 1200 X 1200 5.1 5.1 7.4		
 ON RED RB-17 T 600 X 300 5.1		 Urban Speed Area MAXIMUM 50 km / h Unless Otherwise Posted MR-10 (U) 2700 X 1070	 MORE THAN ONE TRUCK AT ONE TIME PROHIBITED MR-23 600 X 750 5.1	 RB-51 L 300 X 300 600 X 600 5.1 5.1	 RB-51 5.1 5.1	 RB-51 R 5.1 5.1		
 Rural Speed Area MAXIMUM 90 km / h Unless Otherwise Posted MR-10 (R) 2700 X 1070 1.2	 ON BRIDGE MR-23 T 600 X 300 5.1			 RB-55 L 300 X 300 600 X 600 5.1 5.1	 RB-55 5.1 5.1	 RB-55 R 5.1 5.1		
						 STOP FOR SCHOOL BUS MR-120 U E4 1200 X 1200 E2 1200 X 450 E3 1200 X 600 7.4		

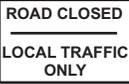
WARNING

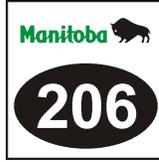
 WA-1L  WA-1R	 WA-11  WA-12 R  WA-13 L	 WB-1 900 X 900  WB-4 1200 X 1200 13.3 7.8	 MW-82  MW-86  MW-87
 WA-2L  WA-2R	 WA-14  WA-16 R	 WB-3  WC-5  WC-6	 MW-88  MW-90  MW-94
 WA-3L  WA-3R	 WA-18 L*  WA-18*  WA-18 R*	 WC-7  WC-10  WC-12 R	 MW-99 900 X 900  MW-107 5.1
 WA-4L  WA-4R	 WA-21 750 X 750  WA-22 900 X 900 5.1  WA-23 5.1 *13.3 *13.3	 WC-13 750 X 750  WC-15 900 X 900 5.1  WC-23 5.1	 WA-36 400 X 900 600 X 1350 13.3 7.8
 WA-5L  WA-5R	 WA-24  WA-25  WA-26*	 WC-1 750 X 750 13.3  WC-16 R 750 X 750 13.3  WC-2 R 750 X 750 900 X 900 13.3  WC-3 750 X 750 900 X 900 5.1  MW-95 5.1	 WA-36 L  WA-36 R  H-315 T 300 X 900 13.3
 WA-6L 600 X 600 750 X 750 900 X 900 5.1 5.1 5.1	 WA-31  WA-32  WA-33 L 750 X 750 900 X 900 5.1  WA-33 R 5.1 *5.3 5.1 *5.3  WA-34	 WC-9 900 X 900 5.1  WC-9 T 900 X 450  MW-89  MW-132 5.1	 H-320 100 X 200 5.1  H-319 S 300 X 200 10.6  H-319 100 X 200 13.3
 WA-7 S 600 X 600 750 X 750 5.3 5.3	 WA-27 900 X 600 5.3	 WA-30 S 600 X 300 900 X 450 5.3  WA-28 S 5.3	 H-323 DS 450 X 450 13.5  H-323 SS 600 X 600 13.6
 WA-8 1200 X 1200  WA-8 L/R  WA-8 B 7.4			
 WA-9 600 X 750 13.3			

INFORMATION

 D-321 90 X 900	 D-322 90 X 450	13.7	 IB-1*	 M-2A*	 M-2B	 IS-5 L	 IS-6 R	 IS-7	 IS-8	 IS-9 R			
 ID-21 R 130 X 200	5.1	 M-2G 600 X 750 900 X 1200	 M-2J 5.1 7.4	 M-2Q *5.3 *7.6	 MM-4 L	 MM-5	 MM-18	 IS-10	 IS-11	 IS-12	 IS-13	 IS-14	 IS-15
Anthony ST IDM-1 ? X 150	12.2	 M-2C*	 M-2H	 M-2K	 MM-17	 MM-19	 MM-20	 MM-23	 MM-24	 MM-25			
Darren RD IDM-2 ? X 230	12.3	 M-2N	 M-2P*	 M-2S#	 MM-26 600 X 600	 CITY ROUTE MM-19	 2 km MM-20	 LEFT LANE MM-23	 EXIT 2 km MM-24	 NEXT LEFT MM-25			
Cantilever BLVD IDM-3 ? X 305	2.5	 M-2R 600 X 600 900 X 900#	 M-2F 1200 X 1200	 M-2M 600 X 600	 M-2MB 600 X 750	 JUNCTION IB-4	 LEFT AT 304 MM-26 600 X 600	 MM-8	1240 X 300 1840 X 450	5.1 5.1 7.4 7.4			
  MI-53 1800 X 1200	7.5	 M-2V 600 X 900	 M-2L 600 X 900	 M-2K T	 M-2K TB	 M-2H T	 IC-1	 IC-2	 IC-3	 IC-4	 IC-5	 IC-6	
 MI-54 1200 X 1200	7.5	 M-2Z 600 X 300 900 X 450	 M-2J T	 M-2Q T	 M-2R T	 IC-7	 IC-8	 IC-9	 IC-15	 IC-20	 IC-21		
 MI-87 1500 X 750	7.4	 M-2V 600 X 900	 M-2L 600 X 900	 M-2K T	 M-2K TB	 M-2H T	 IC-10	 IC-11	 IC-12	 IC-13	 IC-14	 IC-16	
 MI-87 T	 MI-87 TB	 M-2V 600 X 900	 M-2L 600 X 900	 M-2K T	 M-2K TB	 M-2H T	 MI-22	 MI-50	 MI-49	 MI-21	 MI-26	 MI-27	
 M-2K T	 M-2K TB	 M-2H T	 MI-29	 MI-30	 MI-31	 MI-33	 MI-34	 MI-37					
 M-2J T	 M-2Q T	 M-2R T	 MI-38	 MI-39	 MI-41	 MI-42	 MI-46	 MI-47					
 MI-116 600 X 600 900 X 900	16.2 16.2	 MI-64	 MI-90	600 X 600 900 X 900	5.1 5.1								
OTHER SERVICE SYMBOLS ARE AVAILABLE; CONTACT THE TRAFFIC SIGNING TECHNICIAN.													

CONSTRUCTION

 MC-1 1200 X 1200 7.4	 MC-9 1200 X 750 7.4	 MI-180 1800 X 2440 1.2 COST TAB \$44 COST TAB \$4.2 MI-180 T (ONLY 2 DIGITS ALLOWED) 675 X 300
 TC-2  TC-3  TC-4	 MC-41 900 X 600 5.1	 MC-44 
 TC-5 R  TC-10  TC-13 R	 MC-42 1200 X 600 15.1	 MC-44 B 
 TC-21  TC-47  TC-48	 MR-96 TC-17 MR-136 750 X 1200 7.4	TRAFFIC CONTROL PADDLES 450 X 450 13.9
 TC-49  TC-51  TC-54 R	 MR-96  TC-17  MR-136 750 X 1200 7.4	
 MC-4  MC-6	 H-316 R 1800 X 200  H-316 L 1800 X 200	
 MC-31  MC-32  MC-33	 H-317 1800 X 400 4.1	
 MC-36  MC-37  MC-51	 H-318 R / L 1800 X 200 11.1 GATEWAY ASSEMBLY BOARDS	
 MC-53  MC-55 900 X 900 5.1		
 WD-A44 600 X 300 5.1 900 X 450 5.1		



This **Traffic Signing Manual**, (the Blue Manual), is intended as a **field guide** to permanent **sign installation**.

This is an active, growing manual, and will change to reflect ongoing improvements in hardware, new signs, or new sign installation formats.

This is a companion manual to the following publications:

Traffic Engineering Policy / Standards Manual (the Grey Manual)

Traffic Engineering Work Zone Traffic Control Manual (the Orange Manual)

Manual of Uniform Traffic Control Devices for Canada (the White Manual)

You should refer to either of these companion manuals for more information on signs and other devices, and their applications.

- Traffic Engineering Branch, April 2004

Traffic Engineering
TRAFFIC SIGNING MANUAL
TABLE OF CONTENTS
(GENERAL)

Table of Contents (detailed)

Alphabetical Index of Topics

SECTION SA Notes	General traffic signing information
SECTION SA	Standard Traffic Sign Locations at Typical Intersections
SECTION SB	Sign Installation Details
SECTION SC	Sign Hardware Information

TRAFFIC SIGNING MANUAL

TABLE OF CONTENTS

(DETAILED)

SECTION SA	STANDARD TRAFFIC SIGN LOCATIONS AT TYPICAL INTERSECTIONS
SA-1	Typical T-Intersection: Provincial Road and Municipal Road
SA-2	Typical Intersection: Provincial Road and Municipal Road
SA-3	Typical T-Intersection: P.T.H. and Provincial Road
SA-4	Typical T-Intersection: Double-numbered Route
SA-5	Typical Intersection: P.T.H. and Provincial Road
SA-6	Typical Intersection: With a Change of Route Number
SA-7 (1 of 2)	Typical Intersection: Divided and Two-Lane Highway
SA-7 (2 of 2)	Typical Intersection: With Right Turn Cut-Offs
SA-8 (1 of 2)	"One-Way" Signing Standard: Divided Highway Intersections
SA-8 (2 of 2)	"One-Way" Signing Standard: Divided Highway Intersections With Traffic Signals
SA-9	Service Road Intersections
SA-10	Gore Marker, Exit Sign, and Exit Advisory Speed Sign Placements
SA-11	Campground/Wayside Park Signing Standard
SA-12	Four-lane divided highway to two-lane highway transitions
SA-13	Pedestrian Crosswalk / Corridor signing
SECTION SB	SIGN INSTALLATION DETAILS
SB-1	Placement and Installation of Panel Signs
SB-2	Typical Sheet Sign Installations
SB-3	Stop Sign/Yield Sign/Do Not Enter Sign Placements
SB-4	Hazard Sign Placement
SB-5	Obstruction Delineator Placement
SB-6	Driveway Marker
SB-7	Bump marker (H-323) placement
SB-8	[not issued]
SB-9	Standard "Polypost" Delineator
SB-10	'KEEP RIGHT' sign (RB-25) location and position
SB-11	Street name blade installations
SB-12	Rumble strip installation
SECTION SC	SIGN HARDWARE INFORMATION
SC-1	Breakaway Details for I-Beam Sign Posts (with screw anchor foundations)
SC-2	Breakaway Details for Round Aluminum Sign Post (with screw anchor foundation)
SC-3	Panel Clip/Post Clip Details
SC-4	Panel Sign Installation on Wood Posts
SC-5	Sign installation using Z-Beam
SC-6	Installation of two 900 x 1200 signs on Wood Posts
SC-7	Installation of two 900 x 1200 signs on a Single Aluminum Post
SC-8	Panel Sign Installation on a Single Aluminum Post

**INDEX OF TOPICS
ALPHABETICAL LISTING**

A

Angle Chart for panel sign placement SB-1

B

Break-Away Base Detail SC-2
Bump marker (H-323) SB-7
Bump sign (WA-22) SB-7

C

Campground/Wayside Park Signing SA-11
Corridor signing SA-13
Crosswalk signing SA-13
Curb Delineator SB-5

D

Delineator Post SB-9
"Do Not Enter" Sign (RB-23) Placement SB-3
Driveway Marker SB-6

E

Exit Advisory Speed Sign (MW-1) SA-10
Exit Sign Location SA-10

F

Four-lane to two-lane transitions SA-12

G

Gore Markers (WA-36) SA-10
Guide Signing
 P.R. / Municipal Road 'T' SA-1
 P.R. / Municipal Road SA-2
 P.R. / P.T.H. 'T' SA-3
 P.R. / P.R. (Double Numbered Route) SA-4
 P.T.H. / P.R. SA-5
 P.T.H. / P.T.H. SA-6
 Divided Highway / 2-Lane Highway SA-7 (1 of 2)
 Right Turn Cut-Offs SA-7 (2 of 2)

H

Hazard Sign (WA-36 L and R) Placement SB-4

K	
Keep Right (RB-25) Sign Location	SB-10
Keep Right (RB-25) urban median location	SB-4
O	
Obstruction Delineator	SB-5
One-Way Divided Highway Intersection Signing	SA-8 (1 of 2)
One-Way Divided Highway Signalised Intersection Signing	SA-8 (2 of 2)
P	
Panel Clip Detail	SC-3
Panel Sign Angle Placement	SB-1
Panel Sign Installation (Wood Posts)	SC-4
Panel Sign Details (Aluminum Posts)	SC-3
Panel Sign Installation (on one Aluminum Post)	SC-8
Panel Sign location	SB-1
Polypost Delineator	SB-9
Post Clip Detail	SC-3
R	
Rumble strips	SB-12
S	
Screw Anchor Data (I-Beam)	SC-1
Screw Anchor Data (Round Aluminum Post)	SC-2
Service Road Intersections	SA-9
Sheet Sign Cluster (on Wood Posts)	SC-6
Sheet Sign Cluster (on one Aluminum Post)	SC-7
Sheet Sign location	SB-2
"Stop" (RA-1) Sign Placement	SB-3
Street name blades	SB-11
T	
Transitions: 4-lane to 2 lane	SA-12
Y	
"Yield" (RA-2) Sign Placement	SB-3

TRAFFIC SIGNING MANUAL

SECTION SA NOTES

GENERAL SIGN INFORMATION

Permanent traffic signs generally fall into three groups, prioritised as follows:

- A. Regulatory Signs
- B. Warning Signs
- C. Information Signs

Some factors which may affect sign placement are:

- a) roadway geometry (curves, hills, intersections, right-turn cut-offs (SA-7 page 2), etc.)
- b) other signing of higher priority or importance, e.g. regulatory or warning signs which take priority over guide signs.

Except as otherwise shown in this manual, all signs should be spaced at least 150 metres apart. If a specific sign is not to be installed for a certain reason, all other signs shall remain in their respective positions. For example, if the 'Stop Ahead' sign (WB-1) is not to be installed, or if it is removed, the advance junction marker shall remain in its normal position.

Sign locations shown are typical. For consistency throughout the highway system, stay as close as possible to measurements shown in the drawings. (Route numbers shown are not meant to portray actual highways; they are only representative of route number formats.)

TYPICAL SIGN SIZE APPLICATIONS				
Road Type	Regulatory	Warning	Information	Construction
PR Gravel	600 x 600 600 x 750 750 x 750	750 x 750	600 x 600 600 x 750	900 x 900
PR Paved or PTH	600 x 600 600 x 750 750 x 750	750 x 750	600 x 600 600 x 750	900 x 900
PTH Divided	900 x 900 900 x 1200	900 x 900 1200 x 1200	900 x 900 900 x 1200	900 x 900

A. REGULATORY SIGNS

COLOURS:

Regulatory signs and their supplementary tabs:

Black and White, or Red and White.

INSTALLATION NOTES:

Regulatory signs must be placed at the point of their specific commands (e.g. stop signs, speed limit signs, pedestrian crosswalk signs).

ADVANCE SPEED LIMIT SIGN (RB-5) PLACEMENT		
Higher Speed Limit	Lower Speed Limit	Spacing (m) Between RB-5 & RB-1
100	90	100
100	80	120
100	70	160
100	60	200
100	50	240
90	80	100
90	70	120
90	60	160
90	50	200
80	70	100
80	60	120
80	50	160
70	60	100
70	50	120
60	50	100

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2009-09-11

B. WARNING SIGNS

COLOURS:

Warning Signs and their supplementary tabs:

Black on Yellow.

INSTALLATION NOTES:

Warning signs are usually placed 50 m to 150 m in advance of the hazard that they are describing.

CURVE SIGNING PROCEDURES

1. All curves with a radius of 3500 metres or less will be marked with the appropriate version of the curve sign WA-1 through WA-6.
2. Curve signs and their supplementary tabs for permanent installations shall be Black on Yellow.
3. No other sign should normally be placed between the curve sign and the beginning of curve. Any exceptions should be approved by the Technical Services Engineer.
4. WA-1, WA-2 and WA-3 turn and curve signs shall be used for single turns or curves.

WA-4 and WA-5 turn and curve signs shall be used where two turns or curves in the opposite direction are separated by a tangent (straight stretch) of less than 120 metres.

WA-6 signs shall be used where there is a series of five or more turns or curves separated by tangents of less than 120 metres. (See MUTCD, Manual for Uniform Traffic Control Devices for more detail.)

5. Curve signs may need to be supplemented by advisory speed signs (WA-7 S). The appropriate advisory speed, (safe speed) for the specific curve, shall always be determined with a Ball Bank Indicator. DO NOT GUESS what the advisory speed should be. (Refer to the Policy/Standard 100-B-1, article 3 of Traffic Engineering Manual (Grey Manual) for more information on correct determination of advisory speeds.)

6. Curve sign placement distance in advance of beginning of curve shall be determined by the following chart.

CURVE SIGN PLACEMENT CHART			
Posted Speed Limit (km/h)	*Advance Distance (m) of Curve Signs		
	Minimum	Ideal	Maximum
50	50	70	150
60 - 70	70	100	150
80 - 110	100	150	150

* in advance of beginning of curve.

7. Once the appropriate advisory speed has been determined, the appropriate curve sign for the specific curve will be determined using Table A.3.10 of MUTCD .

Table A3.10 (Modified)
Turn and Curve Warning Signs To Be Used Under Various Conditions

Legal Limit (km/h)	Safe Speed (km/h) on Turn or Curve which is shown on the WA-7 S which shall accompany each curve sign.							
	90	80	70	60	50	40	30	20
100	WA-3*	WA-3	WA-3	WA-2	WA-2	WA-2	WA-2	WA-2
90		WA-3*	WA-3	WA-3	WA-2	WA-2	WA-2	WA-2
80			WA-3*	WA-3	WA-2	WA-2	WA-2	WA-2
70				WA-3*	WA-2	WA-2	WA-2	WA-2
60					WA-2	WA-2	WA-2	WA-2
50					WA-2	WA-2	WA-2	WA-2

* The WA-7 S sign is NOT needed in these cases.

The WA-4 may be used in place of WA-2.

The WA-1 may be used where safe speeds are less than shown (Include WA-7 S).

The WA-5 or WA-6 may be used in place of WA-3 in all cases.

8. The appropriate size of curve signs should be determined by the following table.

TYPE OF ROAD	SIGN SIZES ² (millimetres)	
	CURVE SIGN (WA-?)	ADVISORY SPEED TAB (WA-7 S)
Provincial Roads and Two-Lane Trunk Highways	750 x 750	600 x 600
Multi Lane Roads	900 x 900	750 x 750

² larger signs may be required for curves with a history of run-off-road accidents; consult the Technical Services Engineer.

9. Curve signs should be installed in accordance with specifications shown on Page SB-2 (Typical Sheet Sign Installation) of the Traffic Signing Manual ("Blue Manual").
10. Additional visual definition of sharp curves may be provided by delineation markers or chevron alignment signs. (Refer to Policy/Standard 700-A-1 of Traffic Engineering Manual for criteria for installing delineator posts.) The Technical Services Engineer should be consulted in these cases. Refer to Section SB-9 of the "Blue Manual" for installation details.

C. INFORMATION SIGNS

COLOURS: **Information Signs** and their supplementary tabs:

White on Green, White on Blue, White on Brown.

INSTALLATION NOTES:

Information signs should not be placed in locations that conflict with Regulatory or Warning signs. Except as otherwise shown in this manual, all information signs should be spaced at least 150 metres apart.

All sign clusters shall display compatible colours, i.e., Trans-Canada route markers shall have a White on Green directional tab.

Proper orientation of symbolic signs should be maintained. For example, the "Airport" symbol (IC-11, IC-12) should always point straight up.

SECTION SA

STANDARD TRAFFIC SIGN LOCATIONS AT TYPICAL INTERSECTIONS

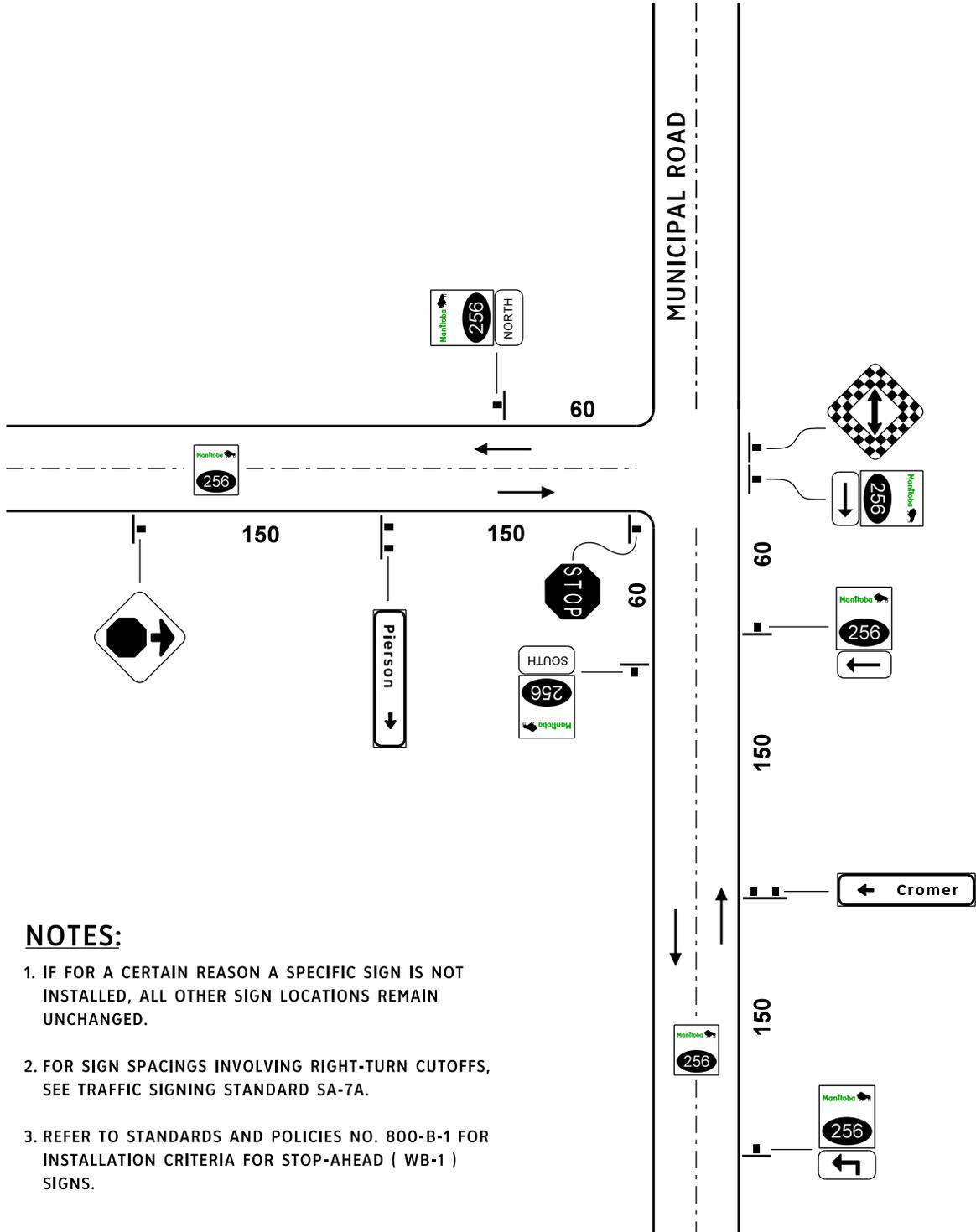
SA-1	Typical T-Intersection:	Provincial Road and Municipal Road
SA-2	Typical Intersection:	Provincial Road and Municipal Road
SA-3	Typical T-Intersection:	P.T.H. and Provincial Road
SA-4	Typical T-Intersection:	Double-numbered Route
SA-5	Typical Intersection:	P.T.H. and Provincial Road
SA-6	Typical Intersection:	With a Change of Route Number
SA-7 (Page 1 of 2)	Typical Intersection:	Divided and Two-Lane Highway
SA-7 (Page 2 of 2)	Typical Intersection:	With Right Turn Cut-Offs
SA-8 (Page 1 of 2)	'One-Way' Signing Standard:	Divided Highway Intersections
SA-8 (Page 2 of 2)	'One-Way' Signing Standard:	Divided Highway Intersections With Traffic Signals
SA-9	Service Road Intersections	
SA-10	Gore Marker, Exit Sign, and Exit Advisory Speed Sign Placements	
SA-11	Motorist Service Signing Standard	
SA-12 (2 pages)	Four-lane divided highway to two-lane highway transitions	
SA-13 (4 pages)	Pedestrian Crosswalk / Corridor signing	

**TYPICAL T-INTERSECTION
PROVINCIAL ROAD AND
MUNICIPAL ROAD**

Traffic Engineering

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SA-1



NOTES:

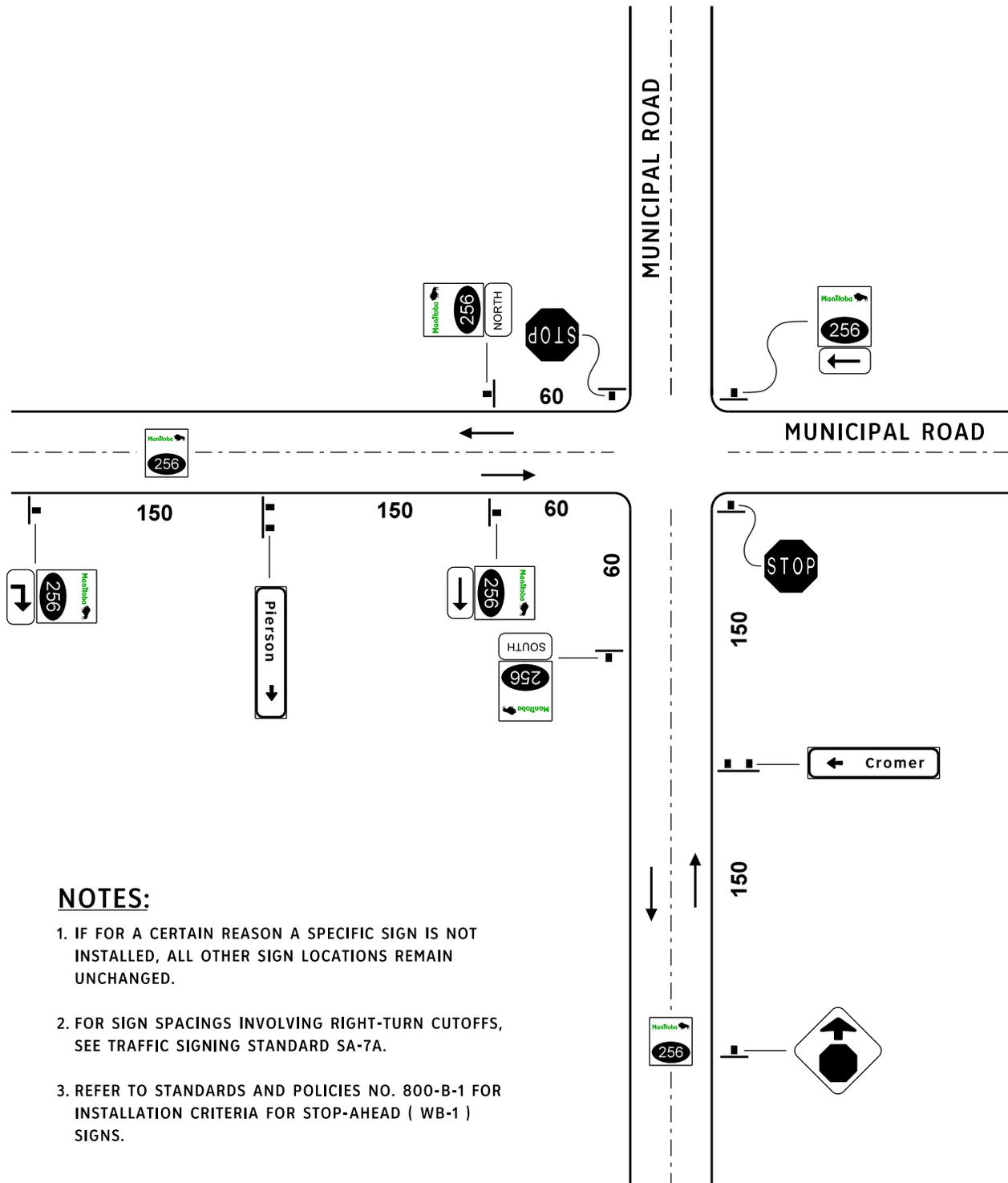
1. IF FOR A CERTAIN REASON A SPECIFIC SIGN IS NOT INSTALLED, ALL OTHER SIGN LOCATIONS REMAIN UNCHANGED.
2. FOR SIGN SPACINGS INVOLVING RIGHT-TURN CUTOFFS, SEE TRAFFIC SIGNING STANDARD SA-7A.
3. REFER TO STANDARDS AND POLICIES NO. 800-B-1 FOR INSTALLATION CRITERIA FOR STOP-AHEAD (WB-1) SIGNS.

TYPICAL INTERSECTION PROVINCIAL ROAD AND MUNICIPAL ROAD

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SA-2



NOTES:

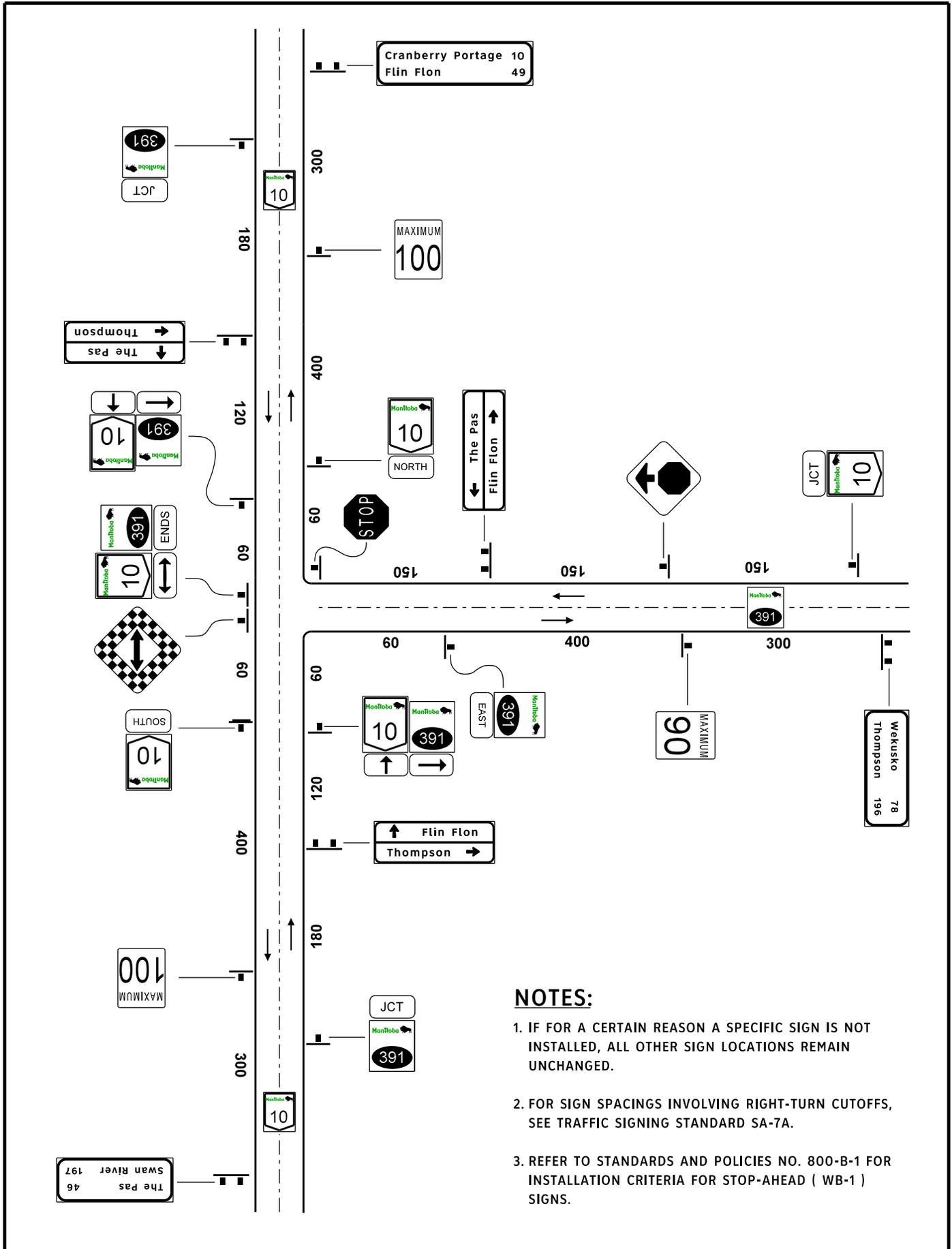
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3. REFER TO STANDARDS AND POLICIES NO. 800-B-1 FOR INSTALLATION CRITERIA FOR STOP-AHEAD (WB-1) SIGNS.

TYPICAL T-INTERSECTION
 PROVINCIAL TRUNK HIGHWAY
 PROVINCIAL ROAD

Traffic Engineering

ISSUE DATE: APRIL 1993

SA-3



NOTES:

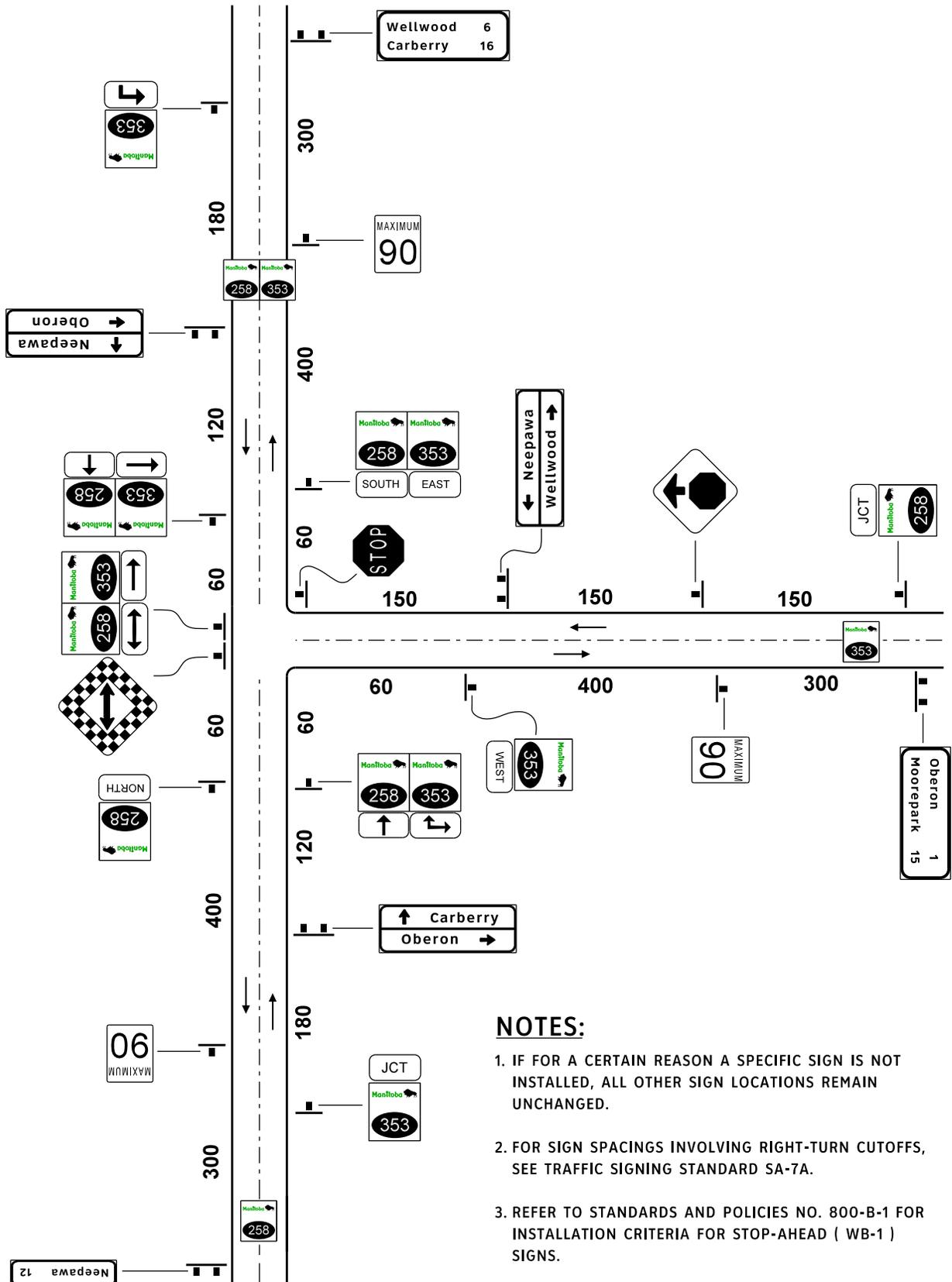
1. IF FOR A CERTAIN REASON A SPECIFIC SIGN IS NOT INSTALLED, ALL OTHER SIGN LOCATIONS REMAIN UNCHANGED.
2. FOR SIGN SPACINGS INVOLVING RIGHT-TURN CUTOFFS, SEE TRAFFIC SIGNING STANDARD SA-7A.
3. REFER TO STANDARDS AND POLICIES NO. 800-B-1 FOR INSTALLATION CRITERIA FOR STOP-AHEAD (WB-1) SIGNS.

TYPICAL T-INTERSECTION DOUBLE NUMBERED ROUTE

Traffic Engineering

ISSUE DATE: APRIL 1993

SA-4



NOTES:

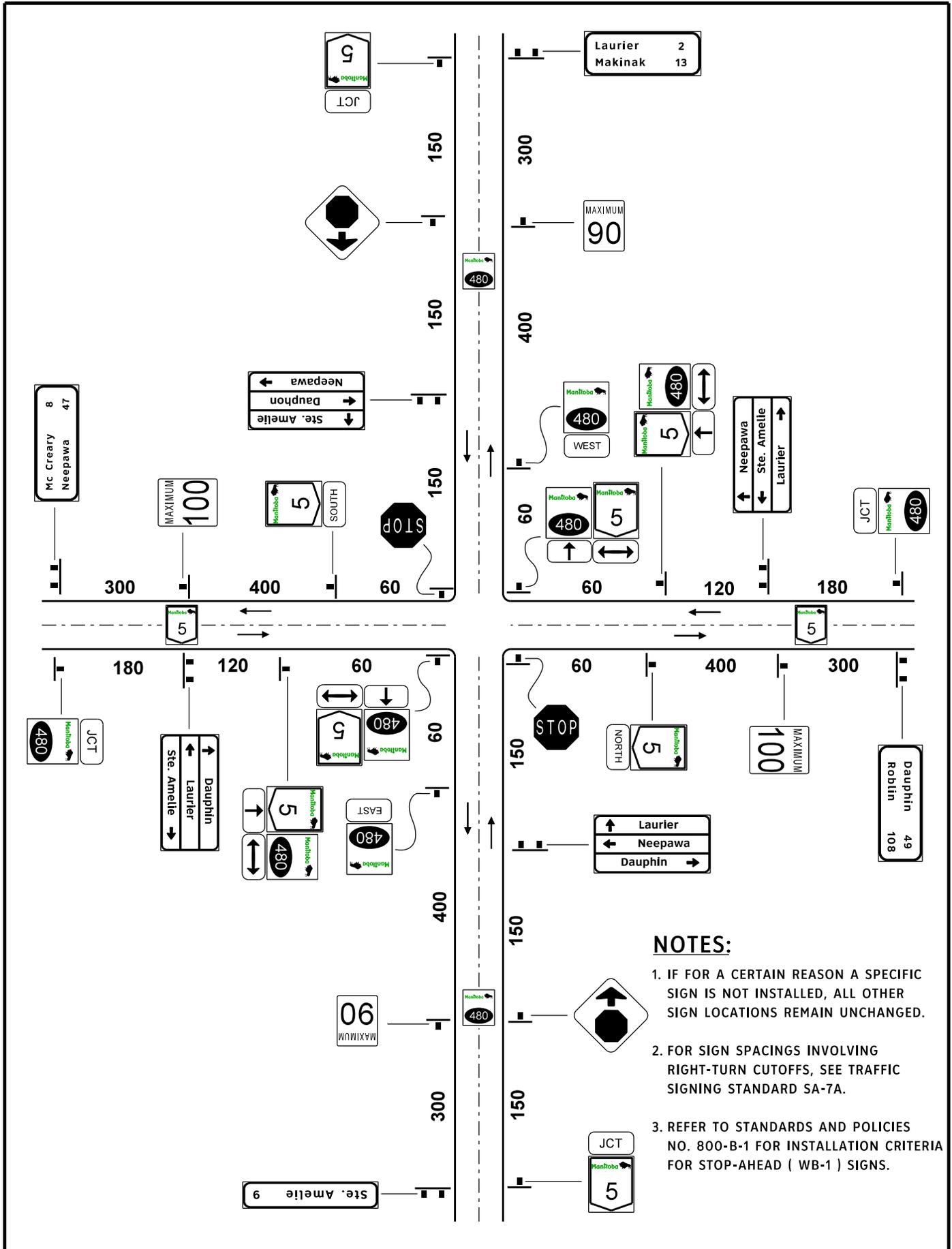
1. IF FOR A CERTAIN REASON A SPECIFIC SIGN IS NOT INSTALLED, ALL OTHER SIGN LOCATIONS REMAIN UNCHANGED.
2. FOR SIGN SPACINGS INVOLVING RIGHT-TURN CUTOFFS, SEE TRAFFIC SIGNING STANDARD SA-7A.
3. REFER TO STANDARDS AND POLICIES NO. 800-B-1 FOR INSTALLATION CRITERIA FOR STOP-AHEAD (WB-1) SIGNS.

TYPICAL INTERSECTION PROVINCIAL TRUNK HIGHWAY AND PROVINCIAL ROAD

Traffic Engineering

ISSUE DATE: APRIL 1993

SA-5



NOTES:

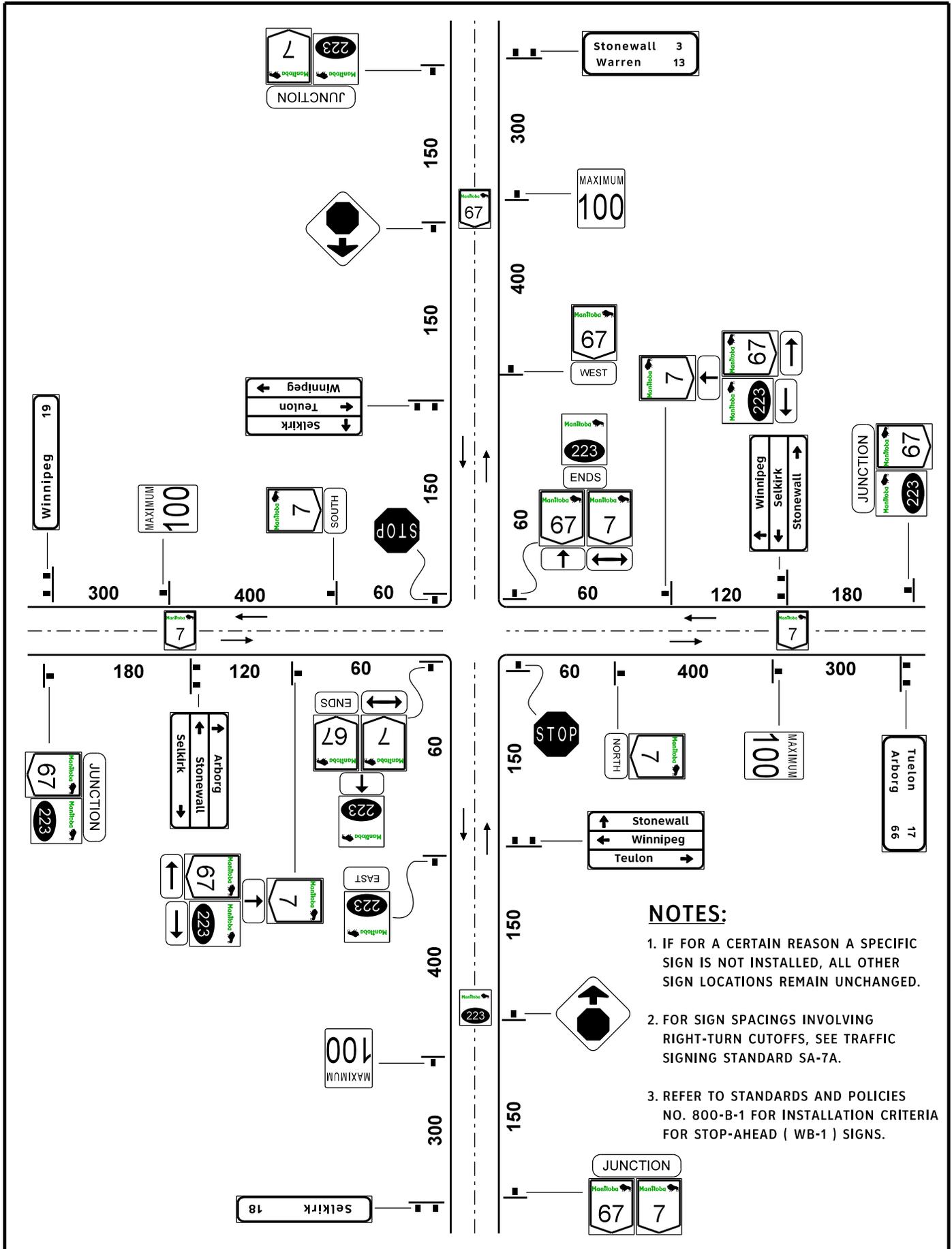
1. IF FOR A CERTAIN REASON A SPECIFIC SIGN IS NOT INSTALLED, ALL OTHER SIGN LOCATIONS REMAIN UNCHANGED.
2. FOR SIGN SPACINGS INVOLVING RIGHT-TURN CUTOFFS, SEE TRAFFIC SIGNING STANDARD SA-7A.
3. REFER TO STANDARDS AND POLICIES NO. 800-B-1 FOR INSTALLATION CRITERIA FOR STOP-AHEAD (WB-1) SIGNS.

TYPICAL INTERSECTION WITH A CHANGE OF ROUTE NUMBER

Traffic Engineering

ISSUE DATE: APRIL 1993

SA-6



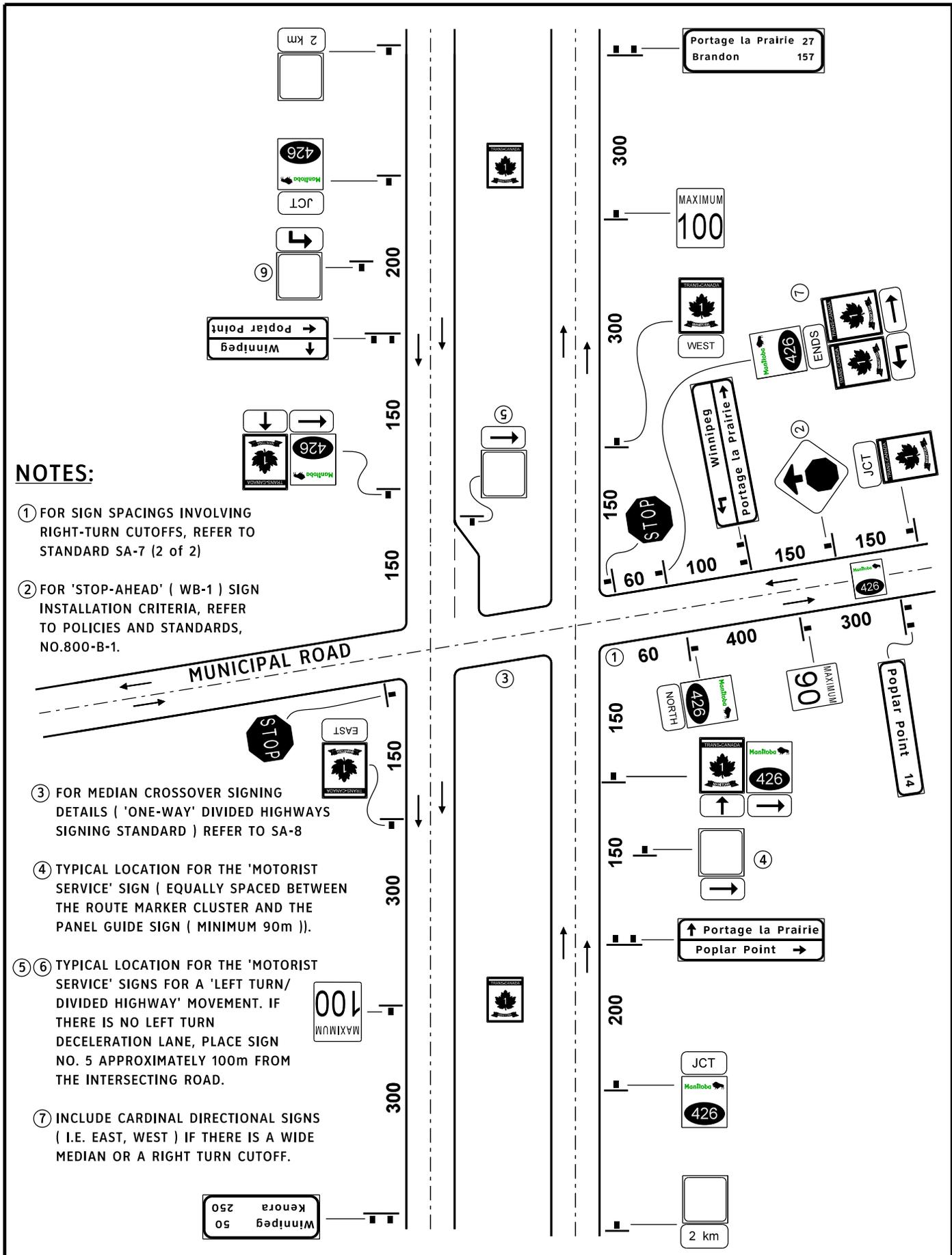
TYPICAL INTERSECTION DIVIDED AND TWO-LANE HIGHWAY

Page 1 of 2

Traffic Engineering

ISSUE DATE: REV. FEB 1999

SA-7



NOTES:

① FOR SIGN SPACINGS INVOLVING RIGHT-TURN CUTOFFS, REFER TO STANDARD SA-7 (2 of 2)

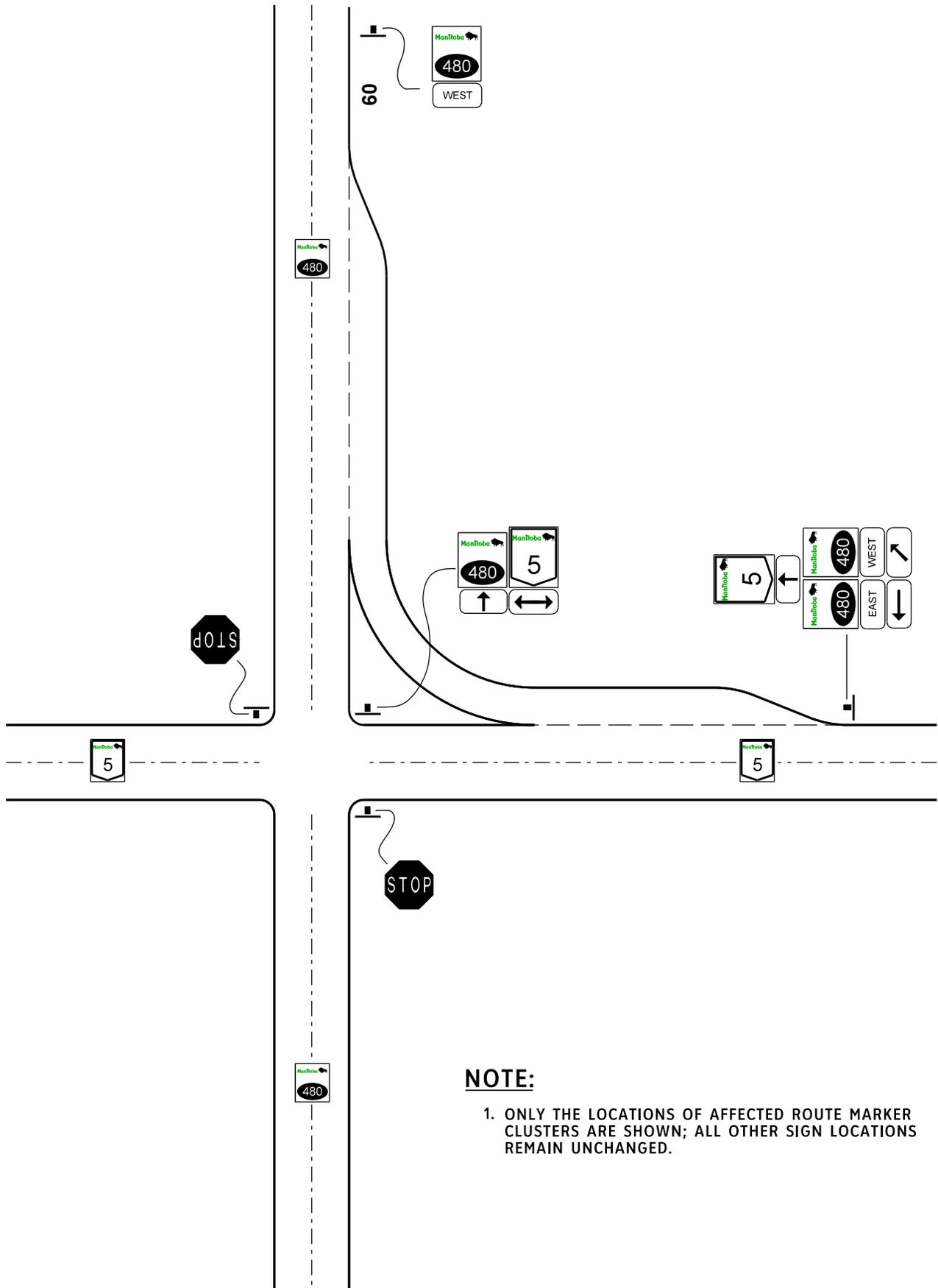
② FOR 'STOP-AHEAD' (WB-1) SIGN INSTALLATION CRITERIA, REFER TO POLICIES AND STANDARDS, NO.800-B-1.

③ FOR MEDIAN CROSSOVER SIGNING DETAILS ('ONE-WAY' DIVIDED HIGHWAYS SIGNING STANDARD) REFER TO SA-8

④ TYPICAL LOCATION FOR THE 'MOTORIST SERVICE' SIGN (EQUALLY SPACED BETWEEN THE ROUTE MARKER CLUSTER AND THE PANEL GUIDE SIGN (MINIMUM 90m)).

⑤ ⑥ TYPICAL LOCATION FOR THE 'MOTORIST SERVICE' SIGNS FOR A 'LEFT TURN/ DIVIDED HIGHWAY' MOVEMENT. IF THERE IS NO LEFT TURN DECELERATION LANE, PLACE SIGN NO. 5 APPROXIMATELY 100m FROM THE INTERSECTING ROAD.

⑦ INCLUDE CARDINAL DIRECTIONAL SIGNS (I.E. EAST, WEST) IF THERE IS A WIDE MEDIAN OR A RIGHT TURN CUTOFF.



NOTE:

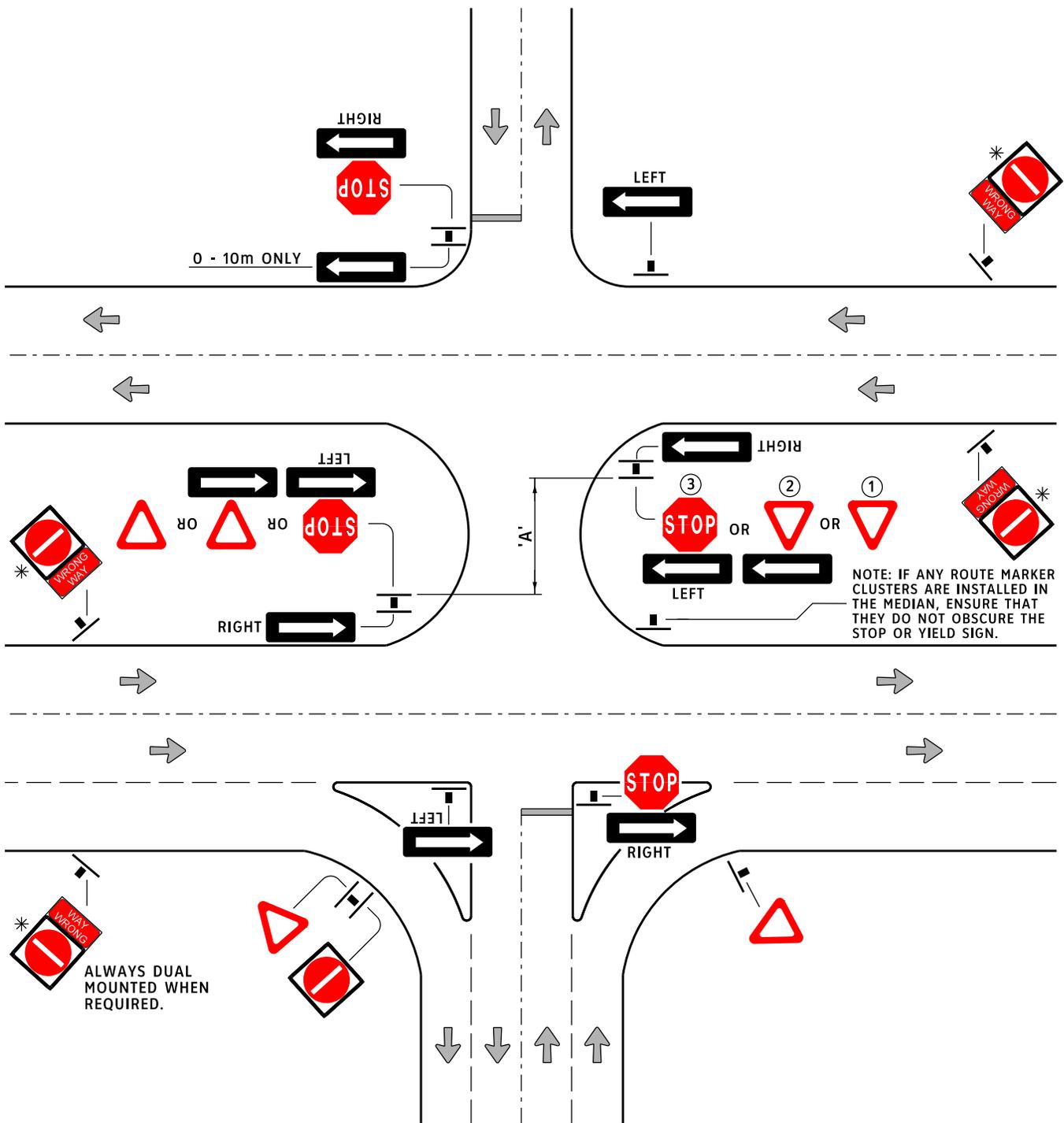
1. ONLY THE LOCATIONS OF AFFECTED ROUTE MARKER CLUSTERS ARE SHOWN; ALL OTHER SIGN LOCATIONS REMAIN UNCHANGED.

**"ONE-WAY" SIGNING STANDARD
DIVIDED HIGHWAY INTERSECTIONS**
Page 1 of 2

Traffic Engineering

ISSUE DATE: REV. JAN 2006

SA-8



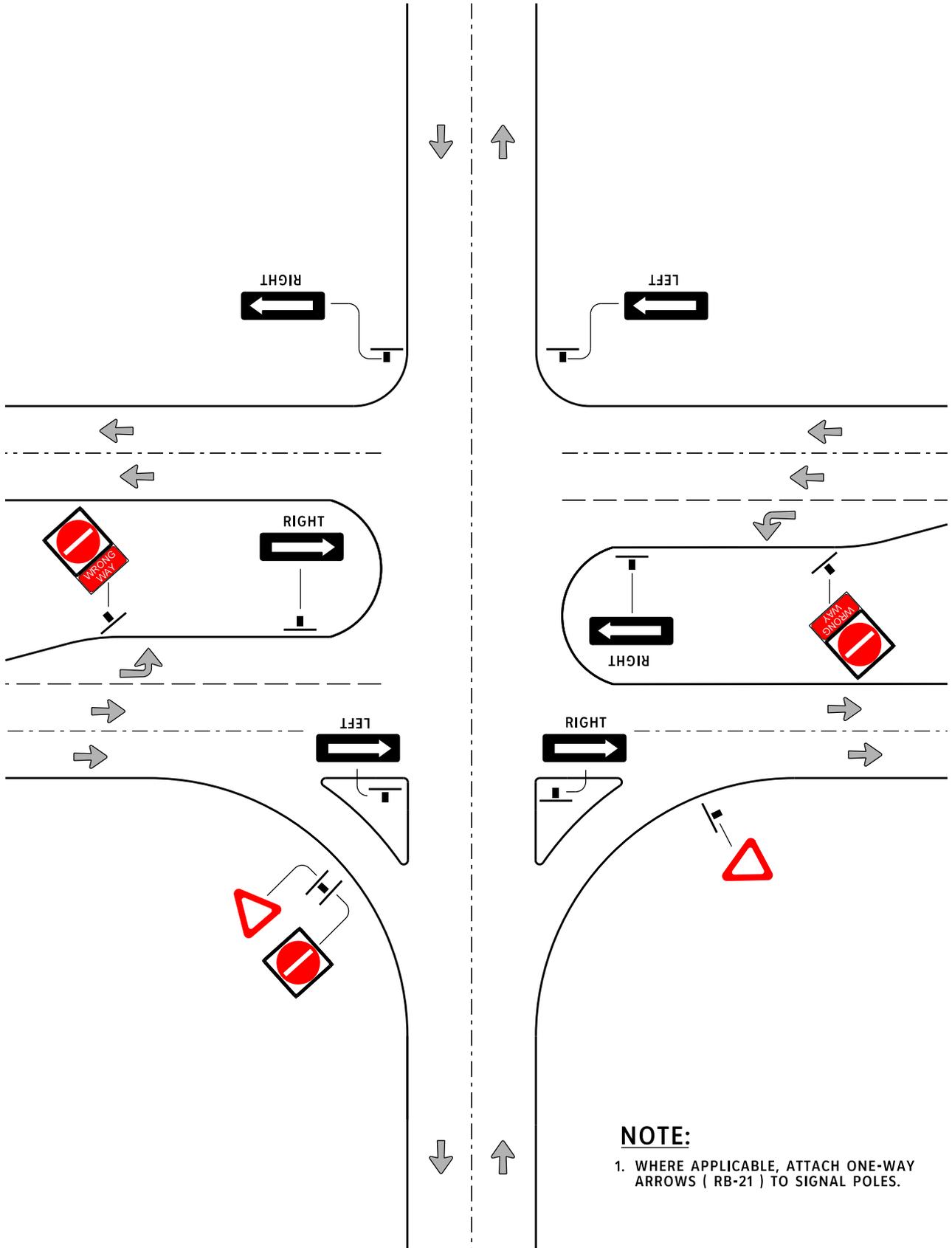
*** ALWAYS DUAL MOUNTED WHEN REQUIRED.**

*** NOTE:**

1. INSTALL DUAL MOUNTED 'DO NOT ENTER / WRONG WAY' SIGNS IN THE MEDIAN AT INTERSECTIONS WITH A PROVINCIAL TRUNK HIGHWAY OR A PROVINCIAL ROAD OR A MAJOR LOCAL ROAD. (SEE POLICY/STANDARD 100-C-12)

DISTANCE 'A' (m)	MEDIAN CONTROL
0 - 10	'YIELD SIGN' ONLY ①
11 - 31	'YIELD SIGN' WITH 'ONE WAY ARROW' ②
32 - 36	'YIELD SIGN' WITH 'ONE WAY ARROW' OR 'STOP SIGN' WITH 'ONE WAY ARROW' ②③ NOTE: PREFERRED OPTION IS THE STOP SIGN BUT A YIELD CAN BE USED FOR CONSISTENCY.
36 +	'STOP SIGN' WITH 'ONE WAY ARROW' ③

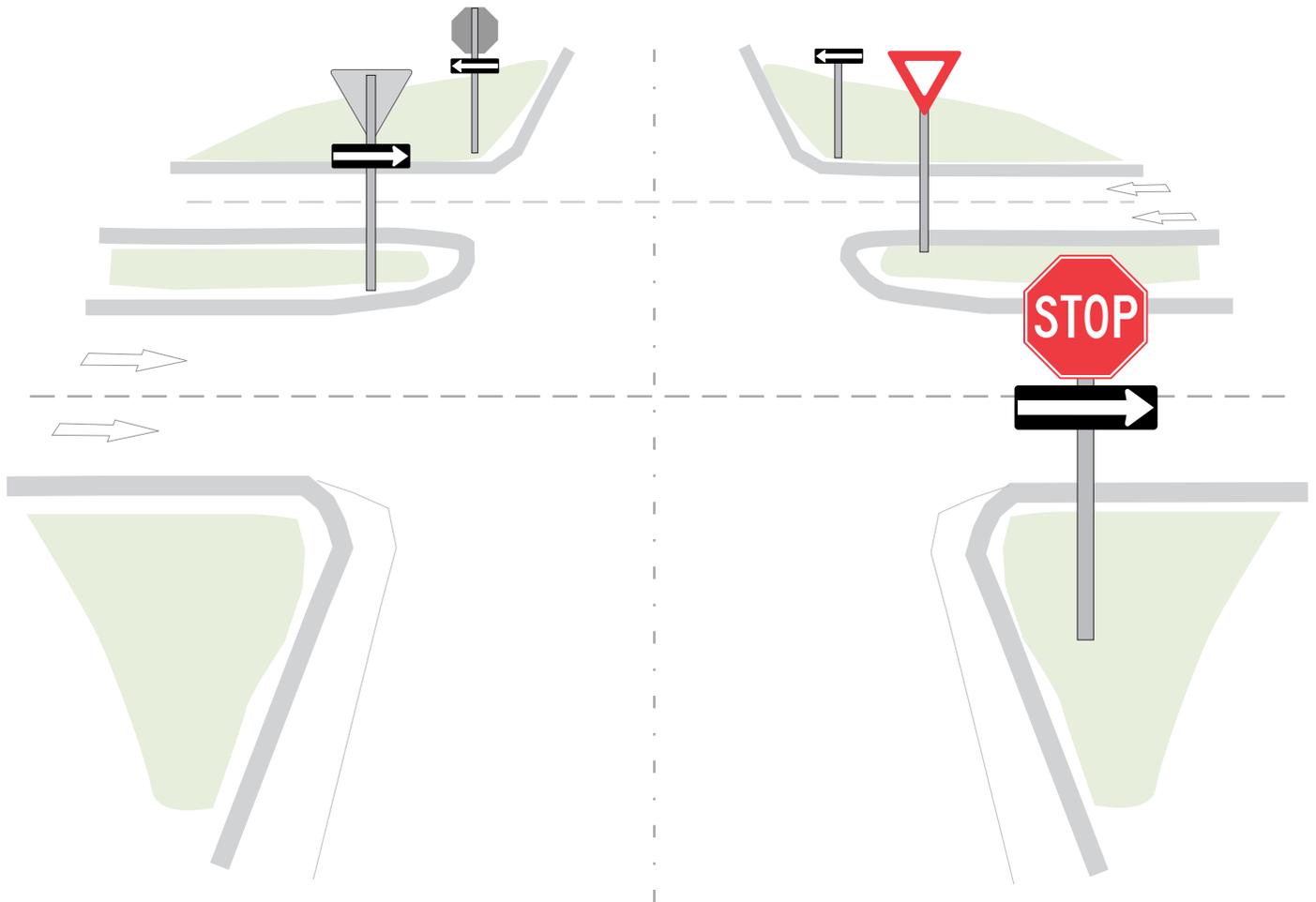
SEE POLICY/STANDARD NO. 800-B-1 FOR ADDITIONAL INFORMATION



“ONE-WAY” SIGNING STANDARDS :
DIVIDED HIGHWAY INTERSECTIONS
SHOWING CONFIGURATION OF “ONE-WAY” ARROWS
FOR ONE DIRECTION ONLY

Traffic Engineering
ISSUE DATE: November 2005

SA-8.0



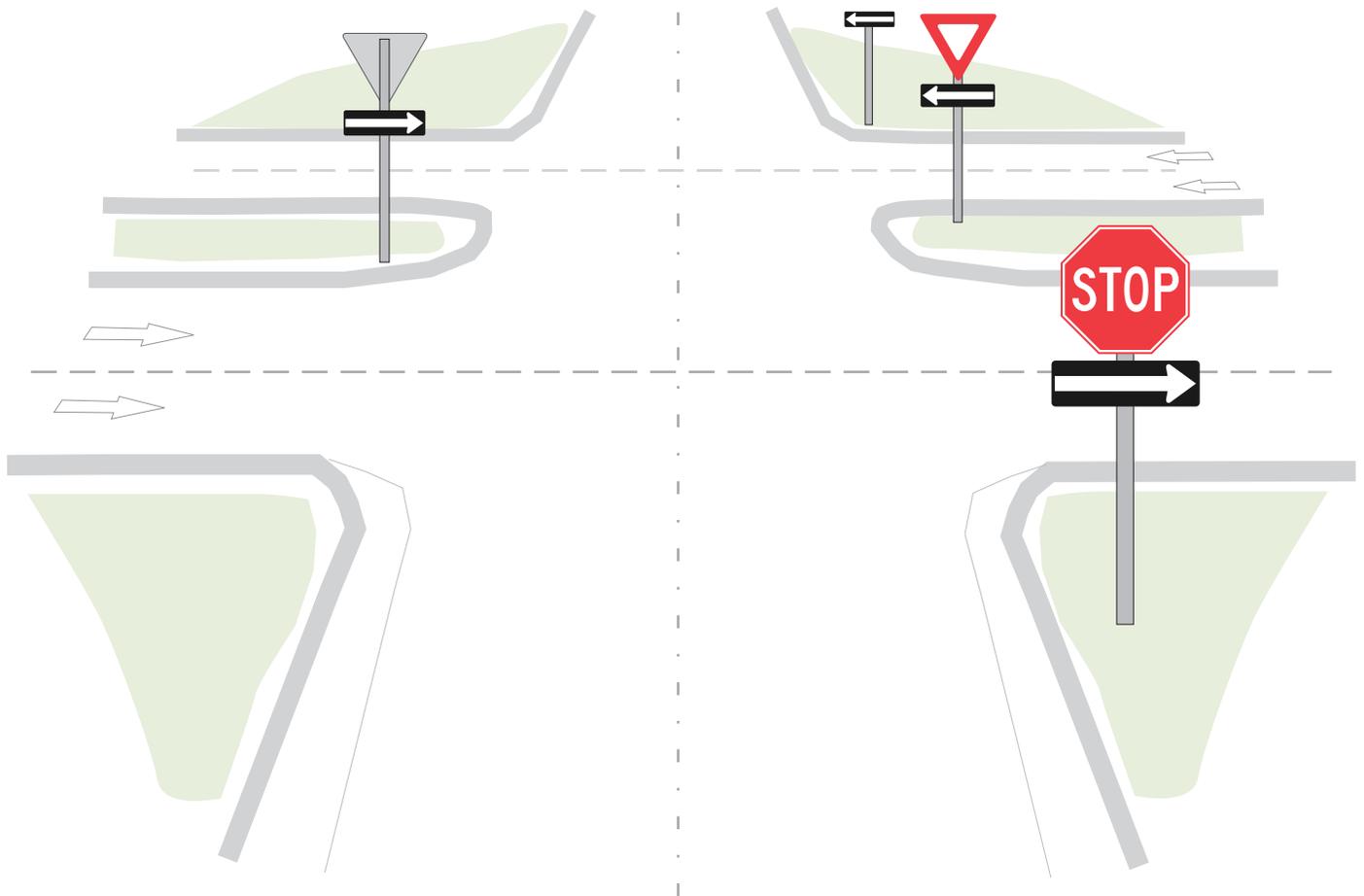
“ONE-WAY” SIGNING STANDARD FOR DIVIDED HIGHWAY INTERSECTIONS
SHOWING CONFIGURATION OF “ONE-WAY” ARROWS FOR ONE DIRECTION ONLY

WHERE DISTANCE BETWEEN YIELD SIGNS IN THE MEDIAN IS LESS THAN 10 m
(DISTANCE ‘A’ IN STANDARD SA-8)

“ONE-WAY” SIGNING STANDARDS :
DIVIDED HIGHWAY INTERSECTIONS
SHOWING CONFIGURATION OF “ONE-WAY” ARROWS
FOR ONE DIRECTION ONLY

Traffic Engineering
ISSUE DATE: November 2005

SA-8.1



“ONE-WAY” SIGNING STANDARD FOR DIVIDED HIGHWAY INTERSECTIONS
SHOWING CONFIGURATION OF “ONE-WAY” ARROWS FOR ONE DIRECTION ONLY

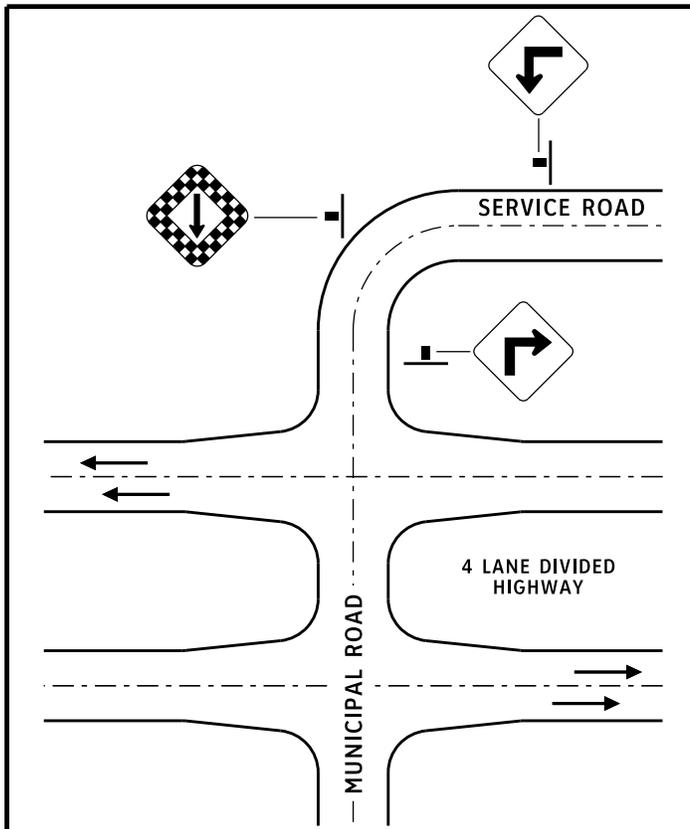
WHERE DISTANCE BETWEEN YIELD SIGNS IN THE MEDIAN IS GREATER THAN 10 m
(DISTANCE ‘A’ IN STANDARD SA-8)

SERVICE ROAD INTERSECTION

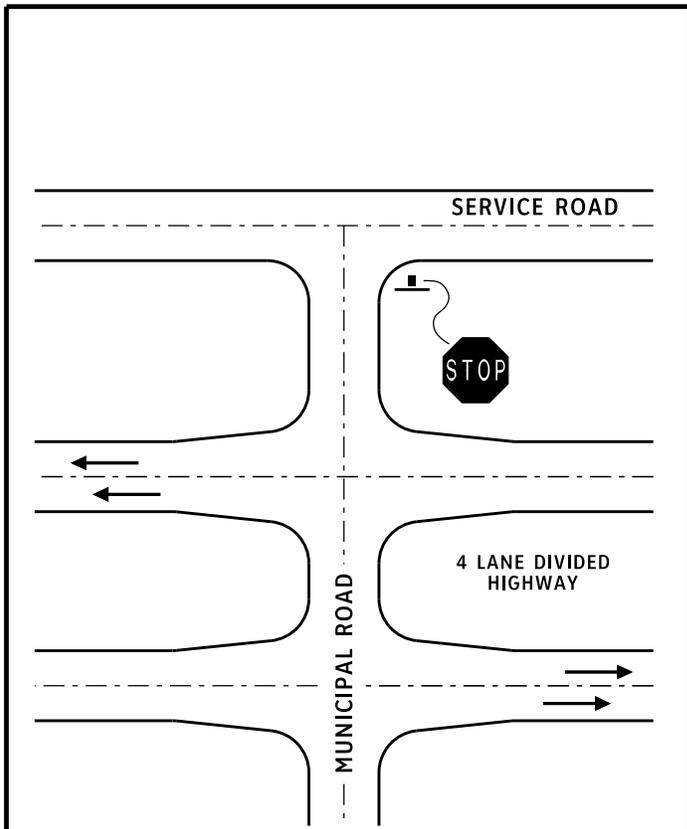
Traffic Engineering

ISSUE DATE: APRIL 1993

SA-9

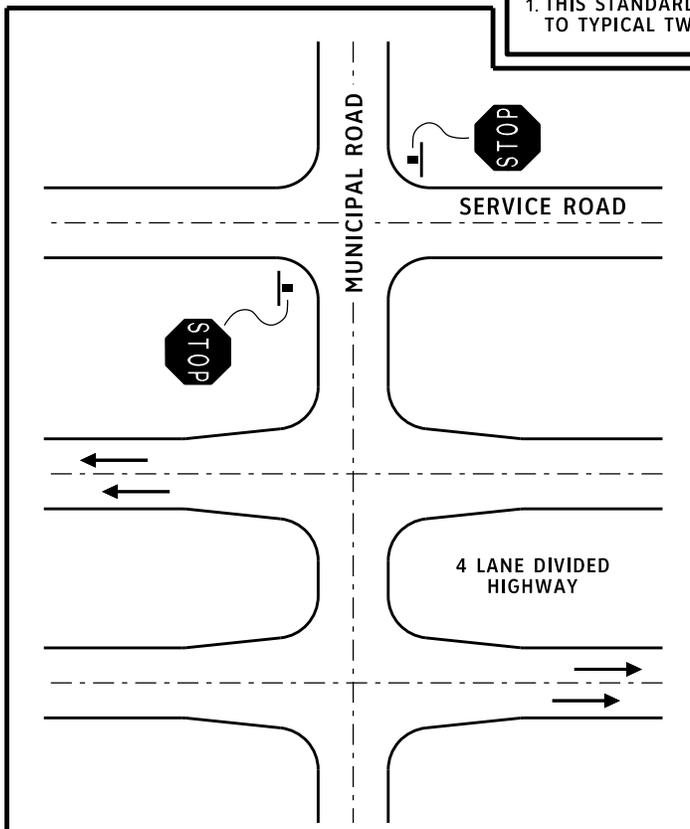


TYPE A

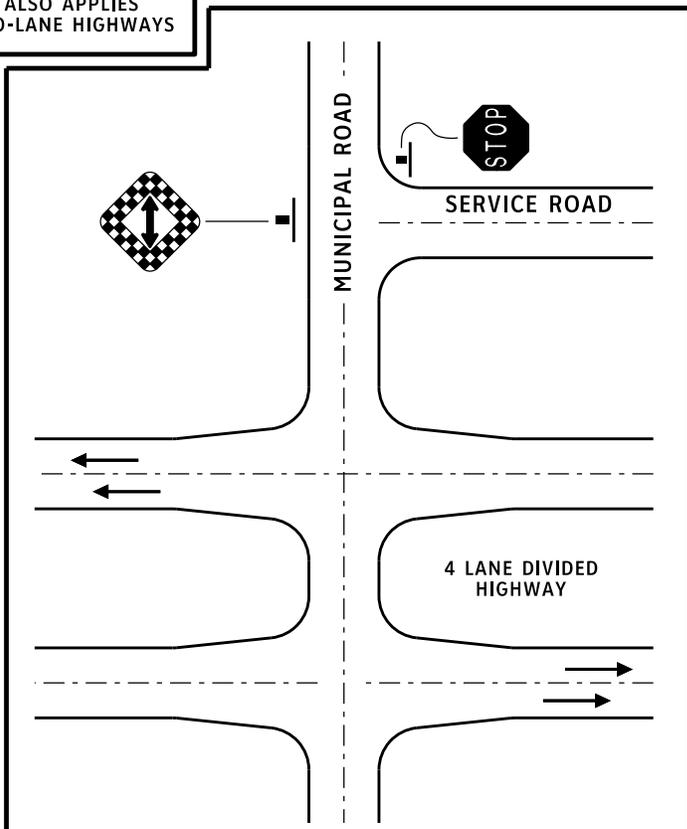


TYPE B

NOTE:
1. THIS STANDARD ALSO APPLIES TO TYPICAL TWO-LANE HIGHWAYS

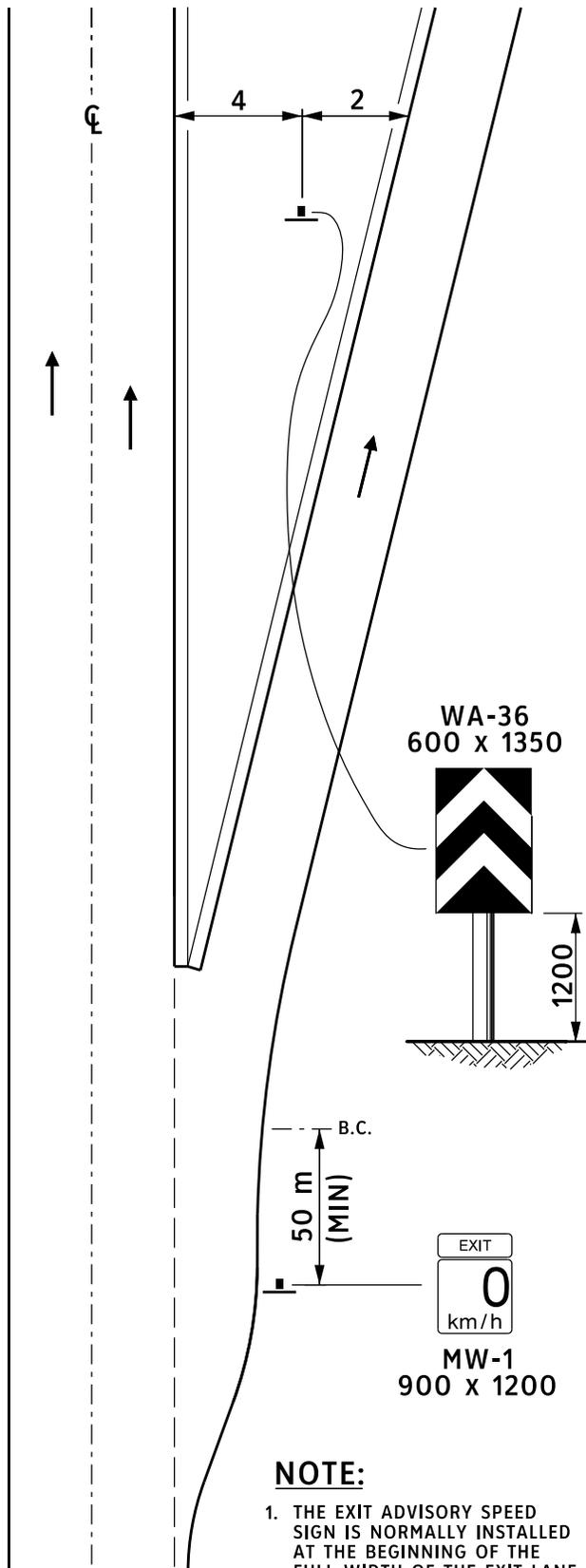


TYPE C



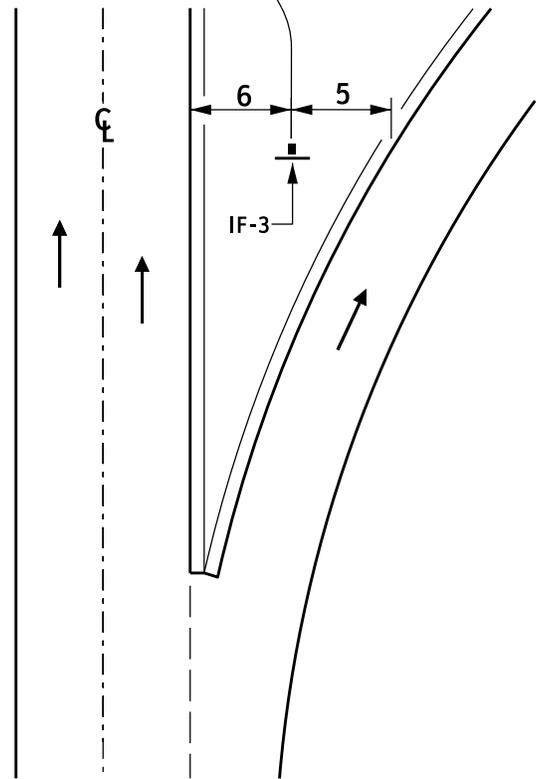
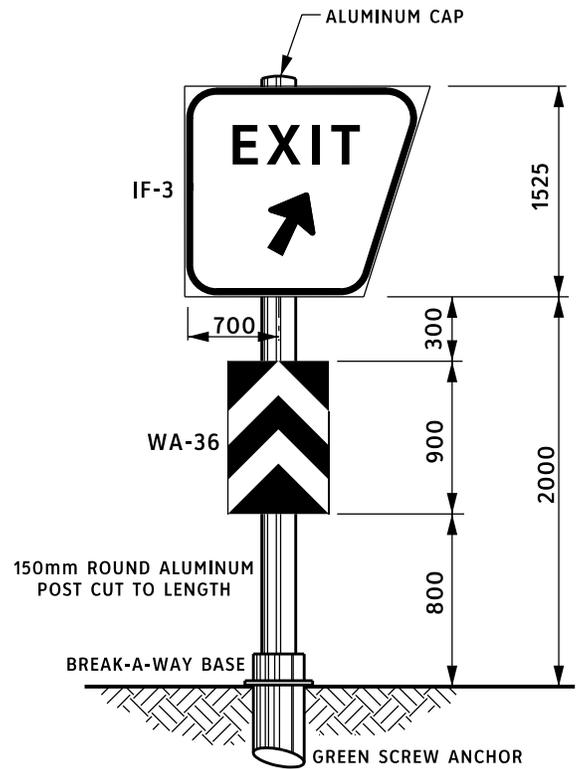
TYPE D

GORE MARKER



NOTE:

1. THE EXIT ADVISORY SPEED SIGN IS NORMALLY INSTALLED AT THE BEGINNING OF THE FULL WIDTH OF THE EXIT LANE.



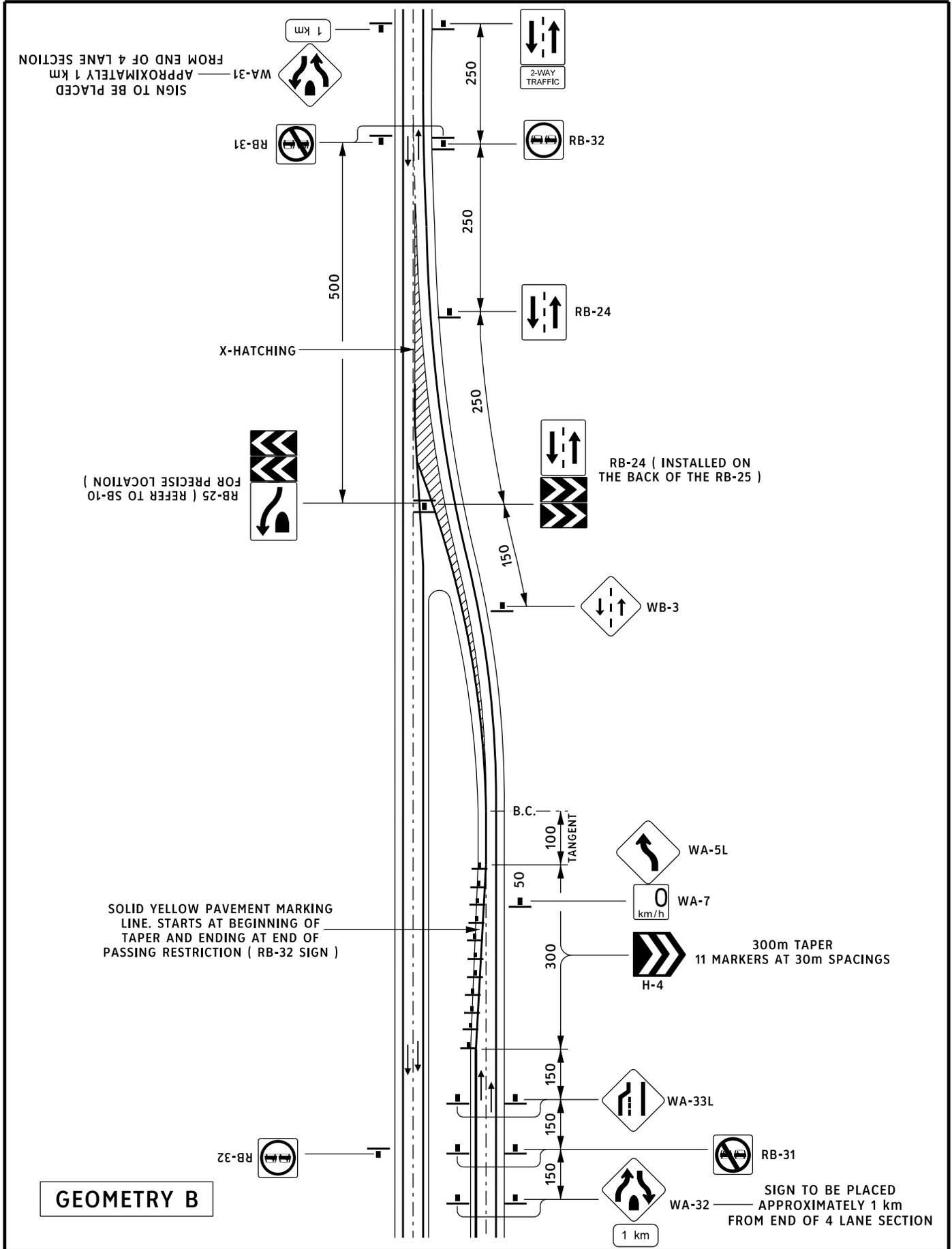
PLAN

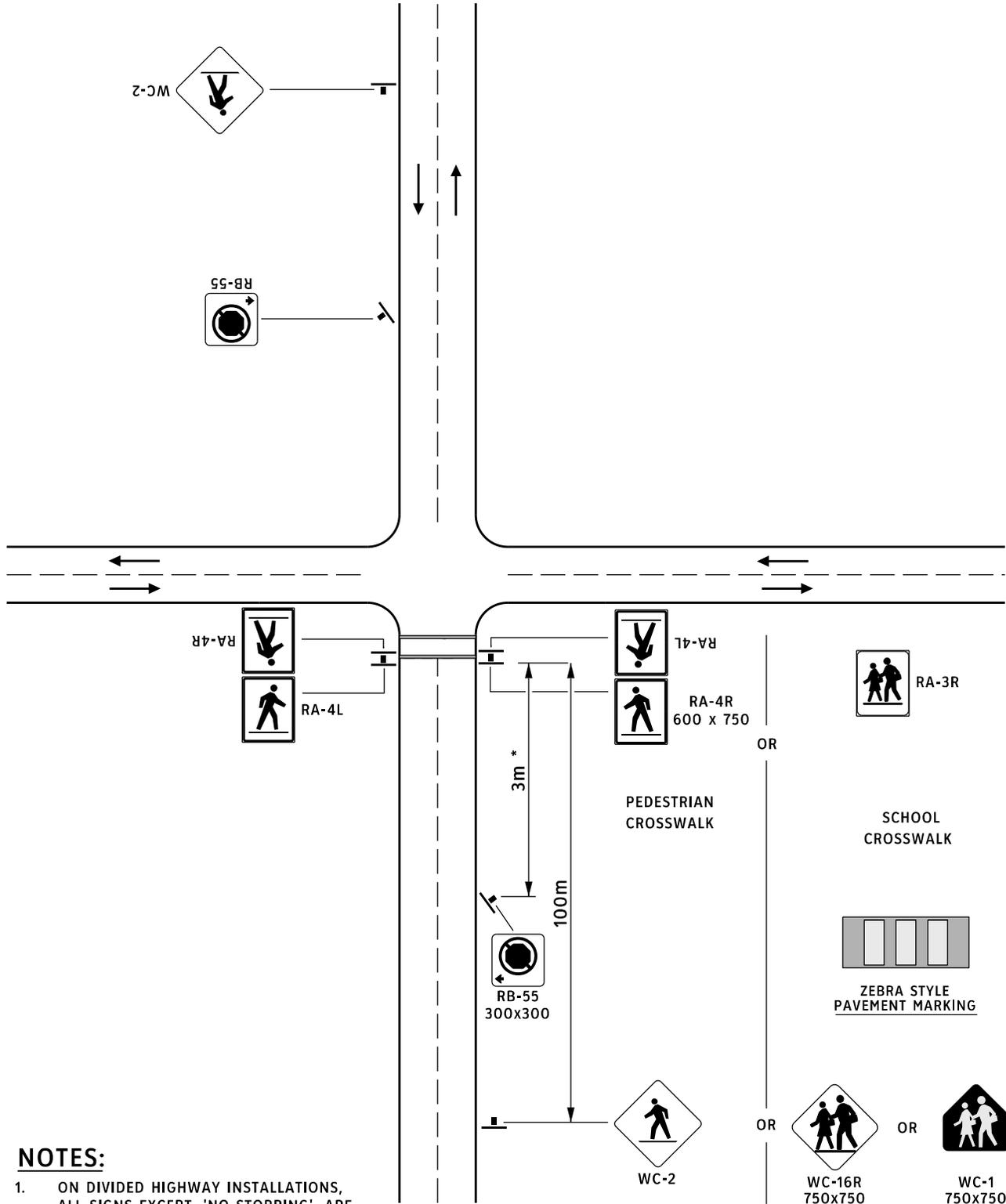
**FOUR-LANE DIVIDED HIGHWAY
TO TWO-LANE HIGHWAY TRANSITION**
Page 2 of 2

Traffic Engineering

ISSUE DATE: REV. JAN 2004

SA-12





NOTES:

- ON DIVIDED HIGHWAY INSTALLATIONS, ALL SIGNS EXCEPT, 'NO STOPPING', ARE TO BE DUAL MOUNTED (RIGHT SIDE AND MEDIAN) USING 'LEFT SIDE' ORIENTATION SIGNS IN THE MEDIAN.

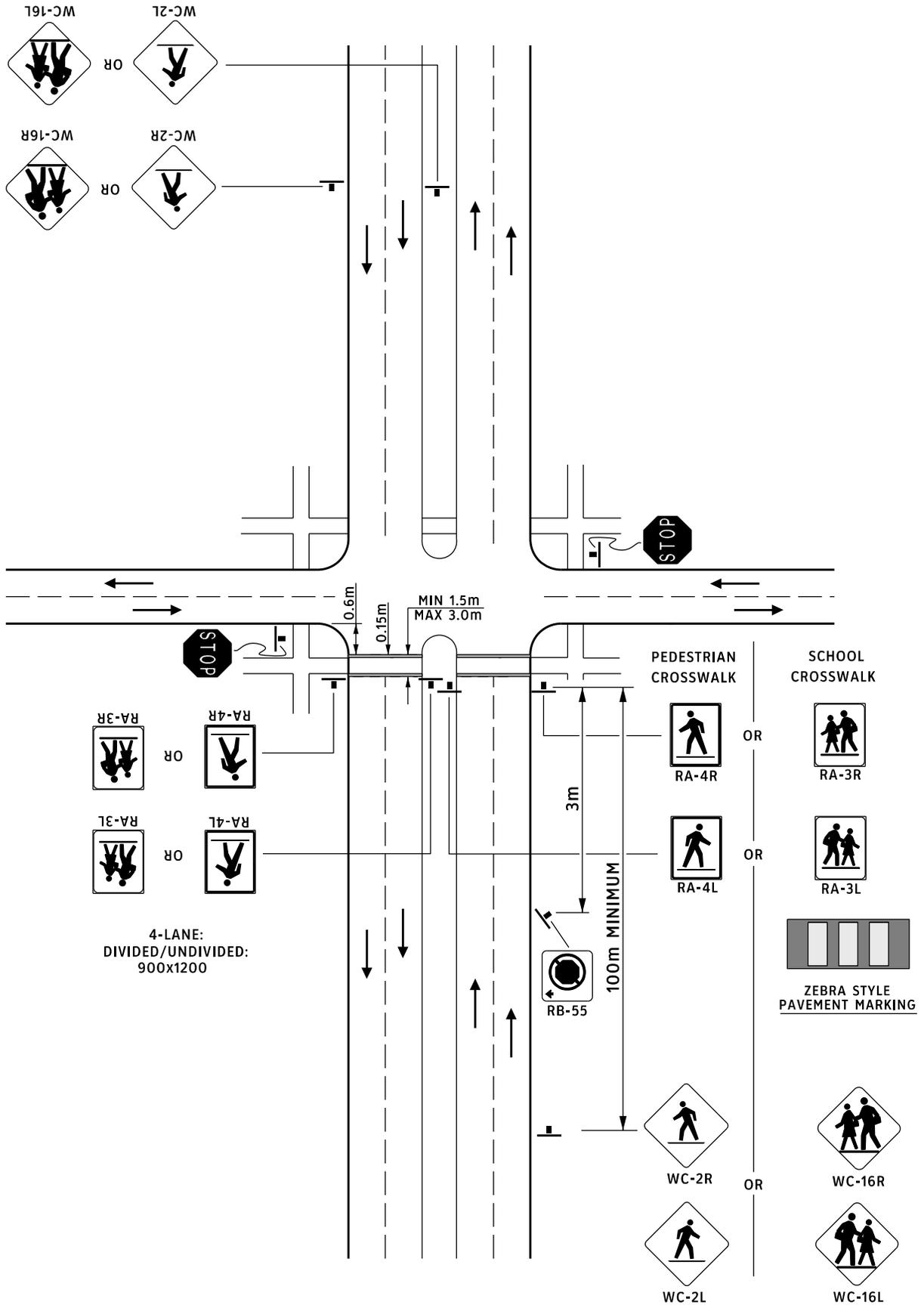
* UNLESS EXTENDED BY THE TRAFFIC AUTHORITY

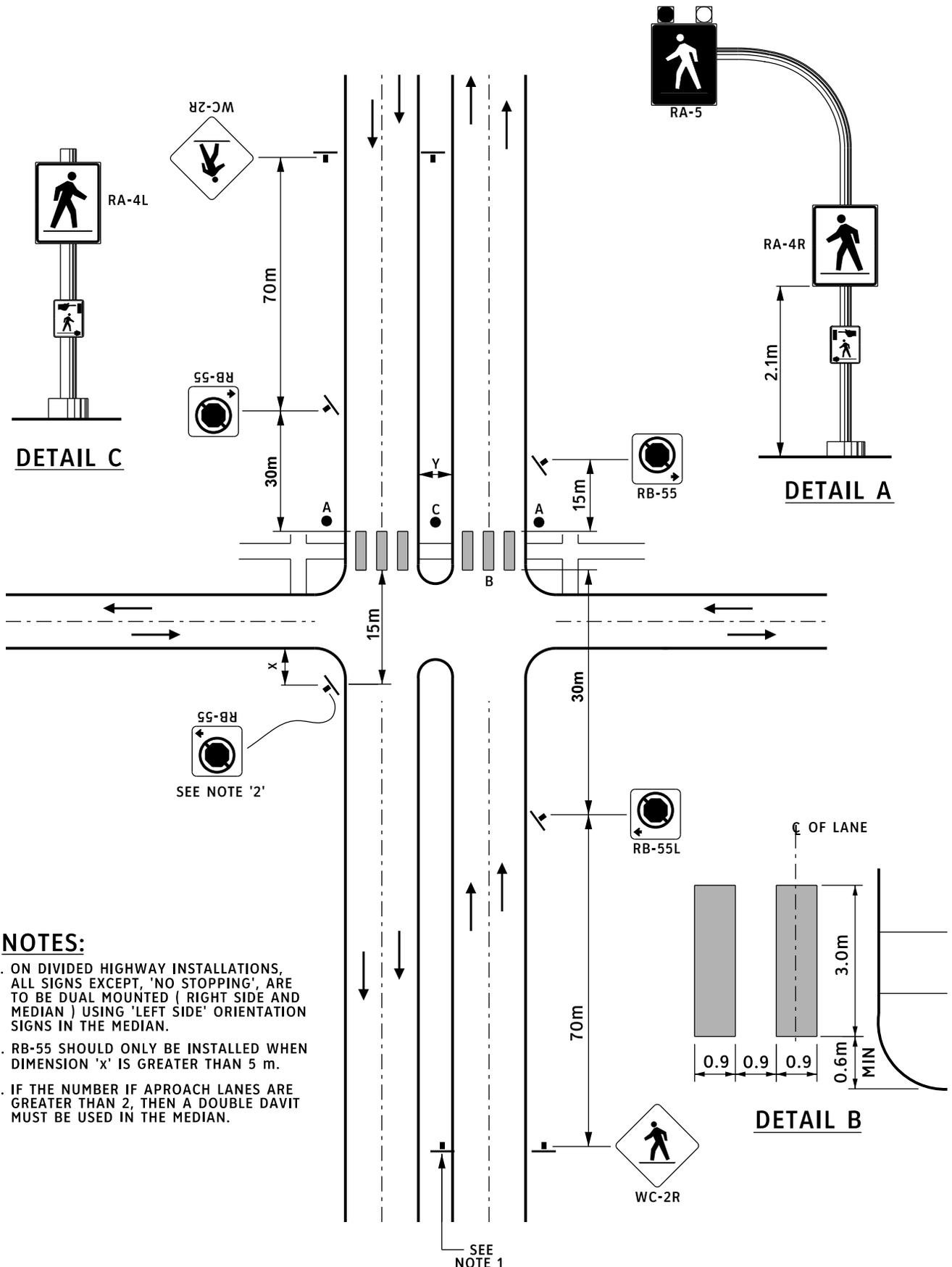
CROSSWALK
FOUR-LANE DIVIDED HIGHWAY
 Page 2 of 4

Traffic Engineering

ISSUE DATE: FEB 1999
 REV. JULY 2011

SA-13

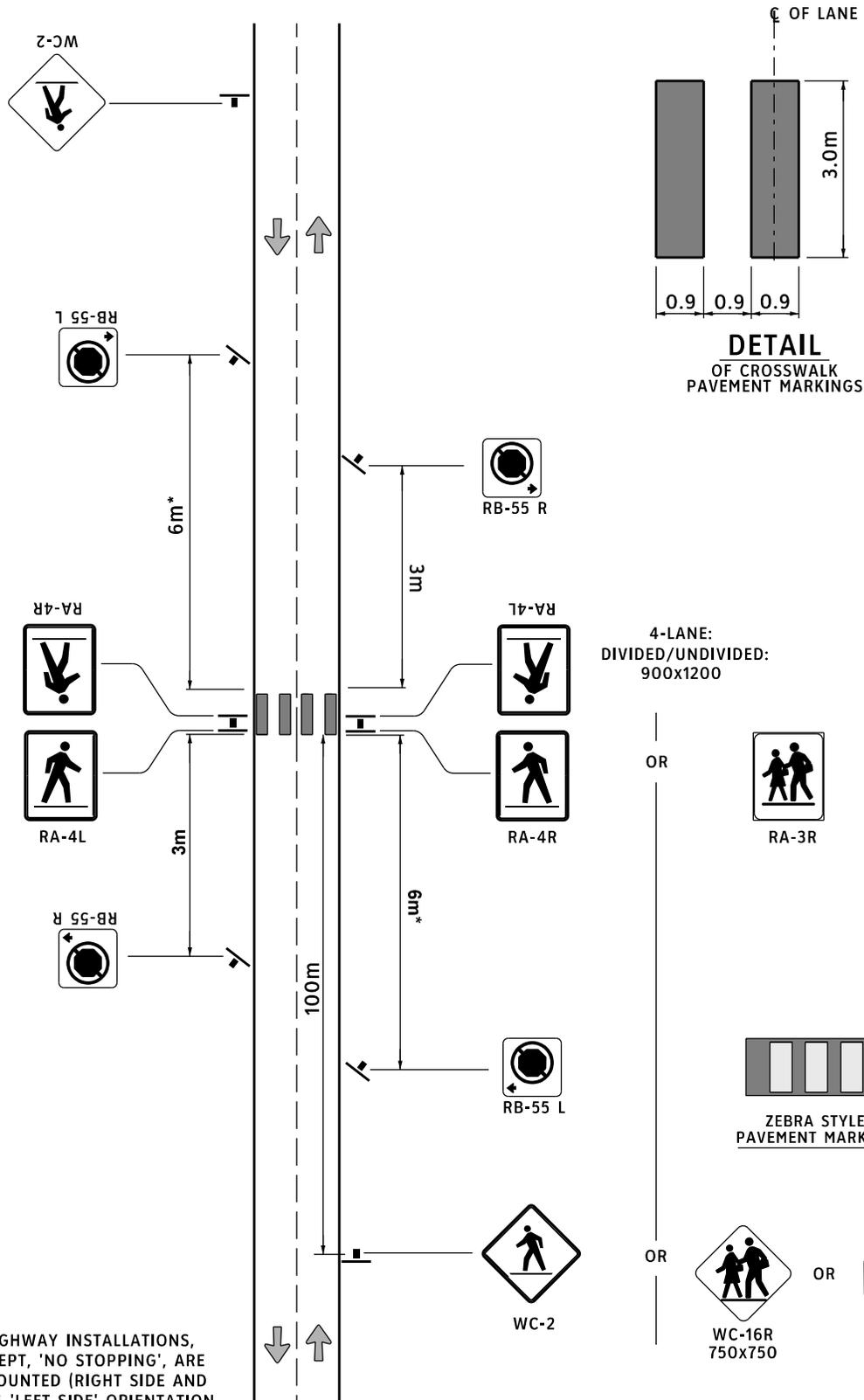




NOTES:

- ON DIVIDED HIGHWAY INSTALLATIONS, ALL SIGNS EXCEPT, 'NO STOPPING', ARE TO BE DUAL MOUNTED (RIGHT SIDE AND MEDIAN) USING 'LEFT SIDE' ORIENTATION SIGNS IN THE MEDIAN.
- RB-55 SHOULD ONLY BE INSTALLED WHEN DIMENSION 'x' IS GREATER THAN 5 m.
- IF THE NUMBER IF APROACH LANES ARE GREATER THAN 2, THEN A DOUBLE DAVIT MUST BE USED IN THE MEDIAN.

SEE NOTE 1



NOTES:

- ON DIVIDED HIGHWAY INSTALLATIONS, ALL SIGNS EXCEPT, 'NO STOPPING', ARE TO BE DUAL MOUNTED (RIGHT SIDE AND MEDIAN) USING 'LEFT SIDE' ORIENTATION SIGNS IN THE MEDIAN.

* UNLESS EXTENDED BY THE TRAFFIC AUTHORITY

Traffic Engineering
TRAFFIC SIGNING MANUAL
SECTION SB

SIGN INSTALLATION DETAILS

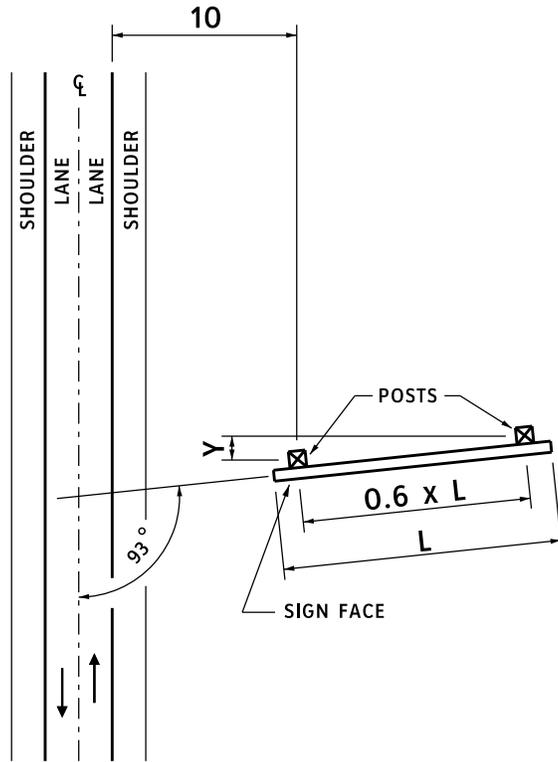
SB-1	Placement and Installation of Panel Signs
SB-2	Typical Sheet Sign Installations
SB-3 (2 pages)	Stop Sign / Yield Sign / Do Not Enter Sign : Locations
SB-4	Hazard Sign Placement
SB-5	Obstruction Delineator Placement
SB-6	Driveway Marker
SB-7	Bump marker (H-323) placement
SB-8	[not issued]
SB-9	Standard "Polypost" Delineator
SB-10	'KEEP RIGHT' sign (RB-25) location and position
SB-11 (2 pages)	Street name blade installation
SB-12 (2 pages)	Rumble-strip installation

PLACEMENT AND INSTALLATION OF PANEL SIGNS

Traffic Engineering

ISSUE DATE: APRIL 1993

SB-1

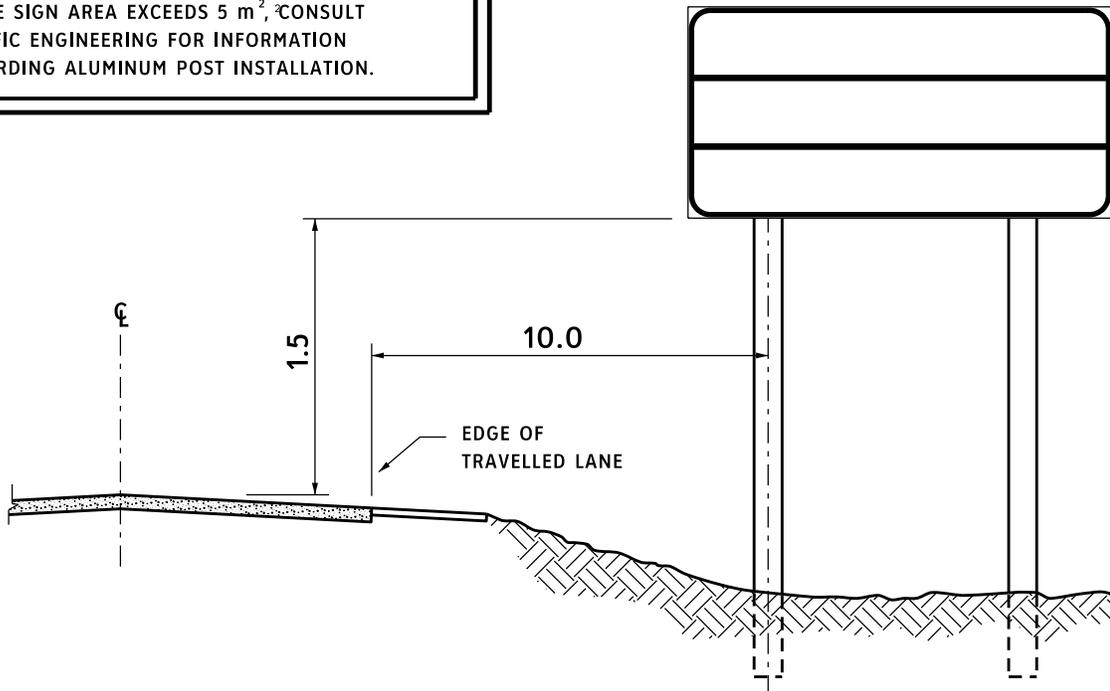


POST SPACING 0.6 x L (m)	POST OFFSET Y (cm)
1.0	5
1.2	6
1.4	7
1.6	8
1.8	9
2.0	10
2.2	12
2.4	13
2.6	14
2.8	15
3.0	16
3.2	17
3.4	18
3.6	19
3.8	20
4.0	21

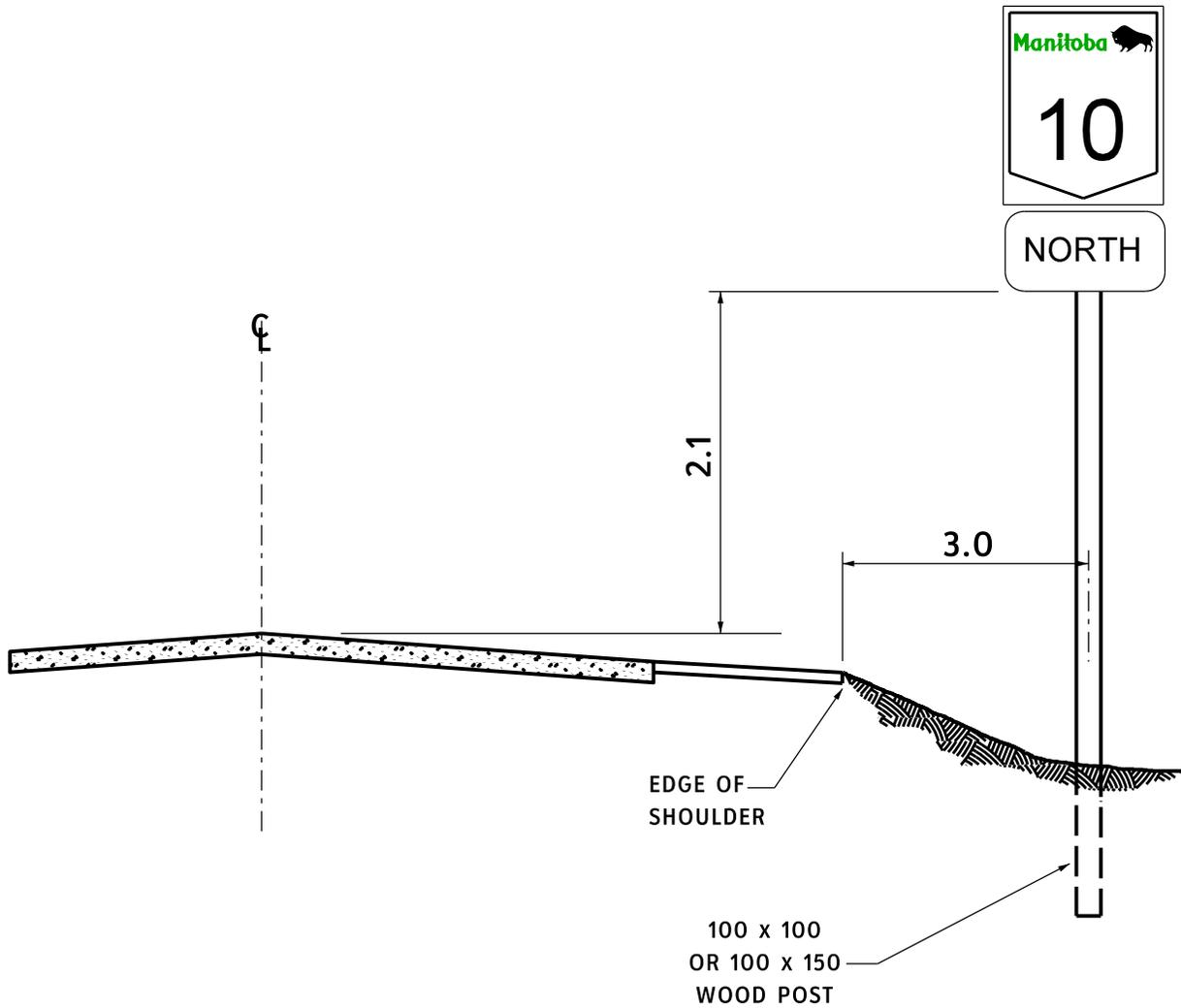
PANEL SIGN PLACEMENT

NOTES:

1. STANDARD SIGN SUPPORTS ARE 100 x 100 mm OR 100 x 150 mm WOOD POSTS.
2. IF THE SIGN AREA EXCEEDS 5 m², CONSULT TRAFFIC ENGINEERING FOR INFORMATION REGARDING ALUMINUM POST INSTALLATION.

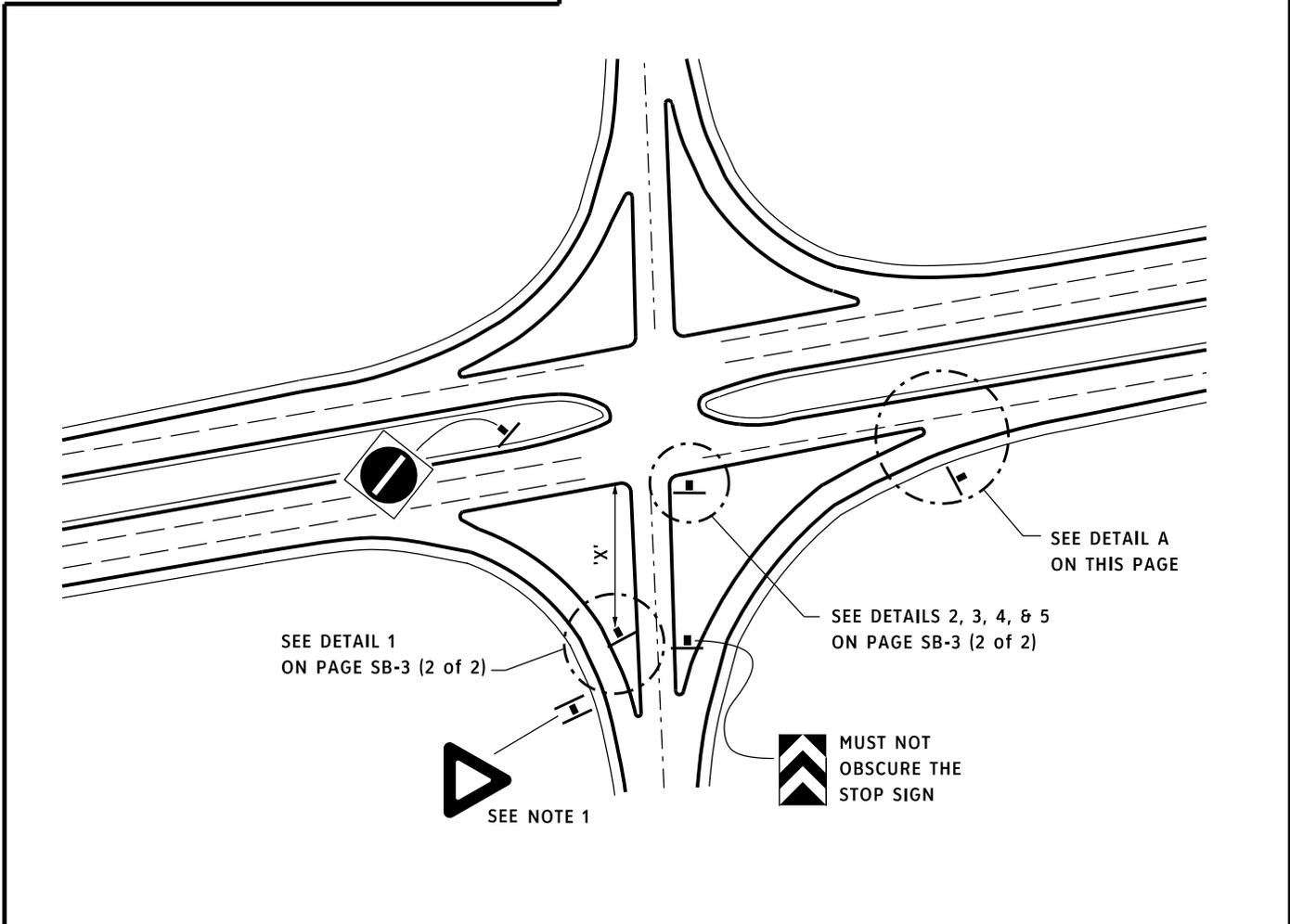
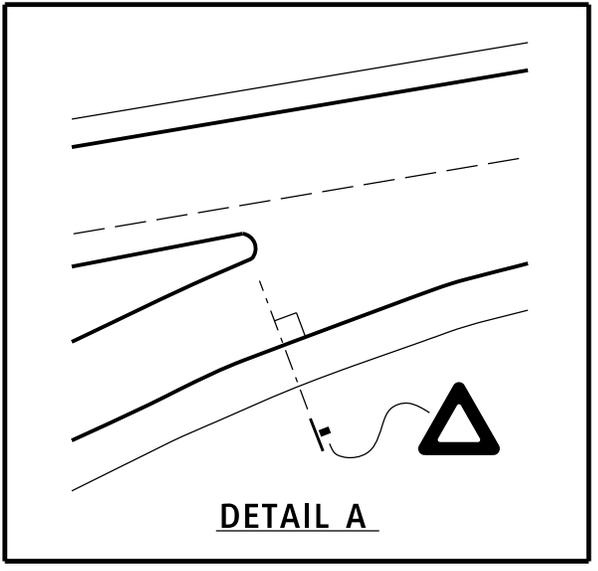


PANEL SIGN INSTALLATION



NOTES:

1. THE 3.0 m SHEET SIGN OFFSET OCCASIONALLY EXCEEDS THE REQUIREMENTS OF SECTION A.2 OF THE UTC D MANUAL.

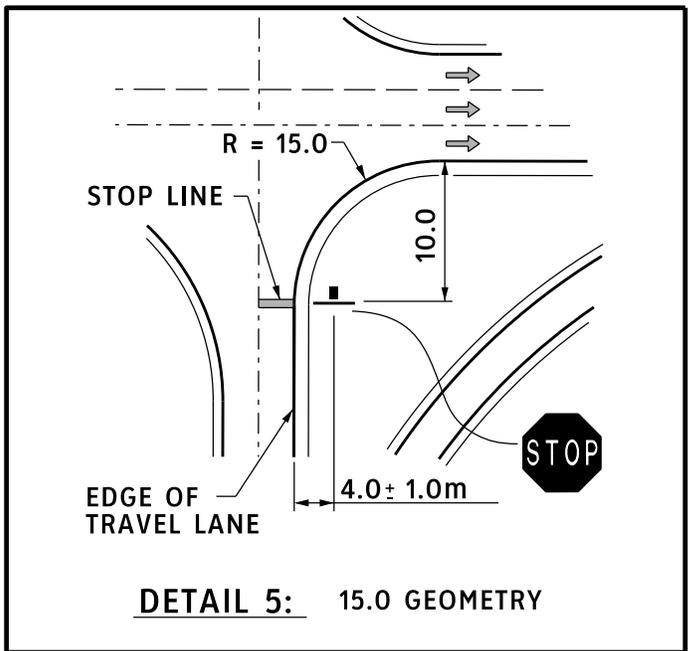
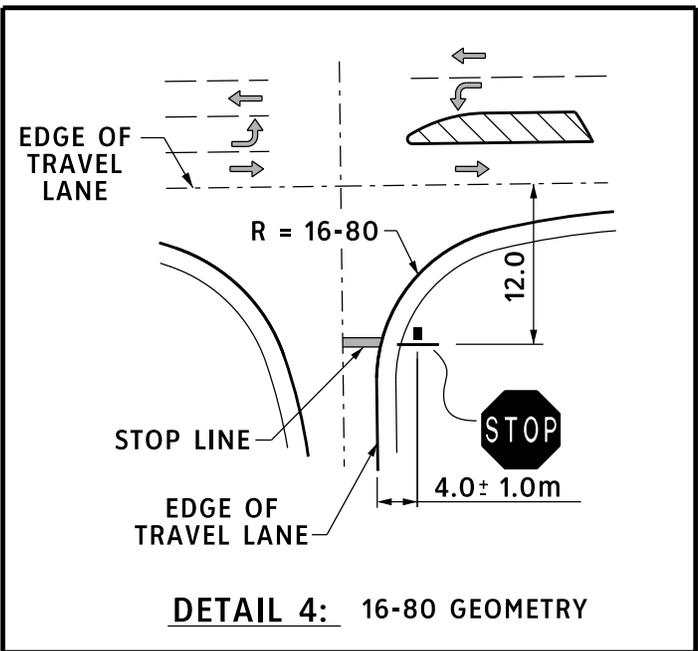
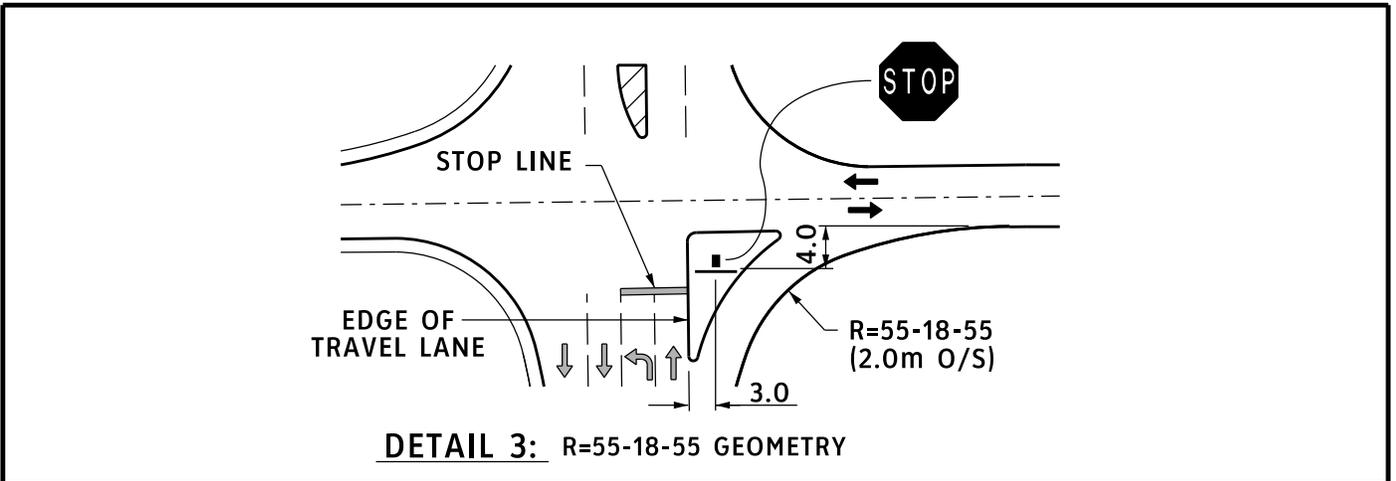
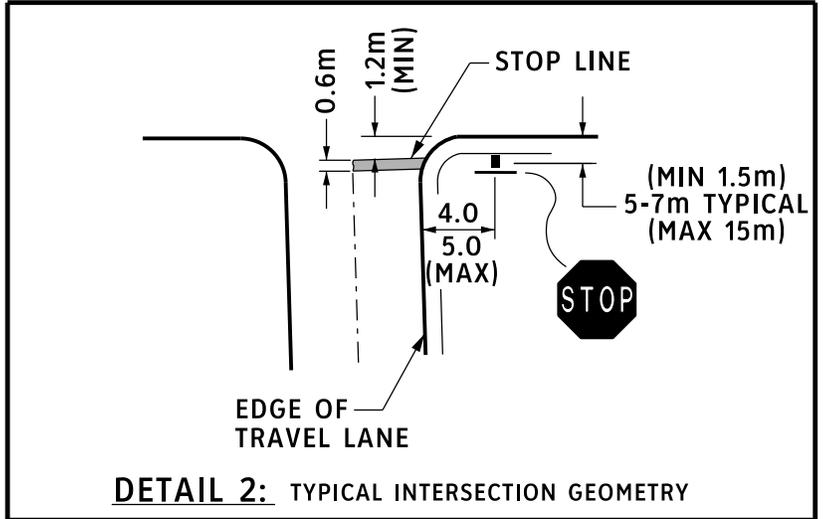
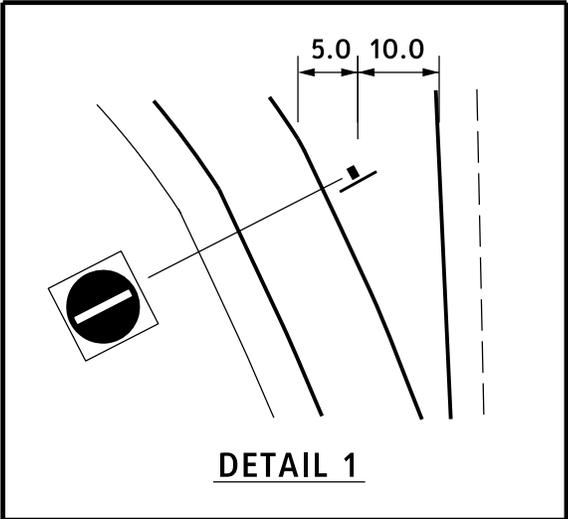


NOTES:

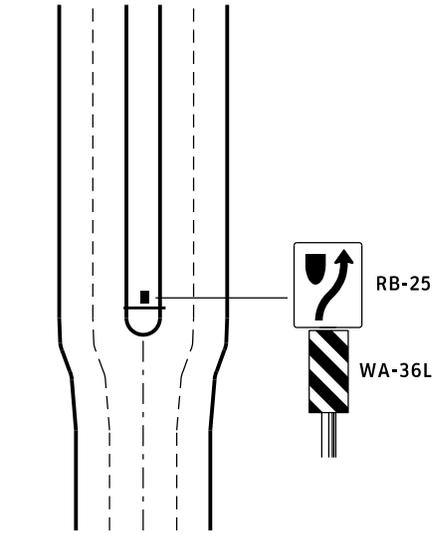
1. IF DIMENSION 'X' IS LESS THAN 10 m, THE 'DO NOT ENTER' SIGN SHOULD BE INSTALLED BEHIND THE 'YIELD' SIGN, NOT IN THE ISLAND.

2. TRAFFIC CONTROL DEVICES ARE SHOWN FOR ONE DIRECTION ONLY

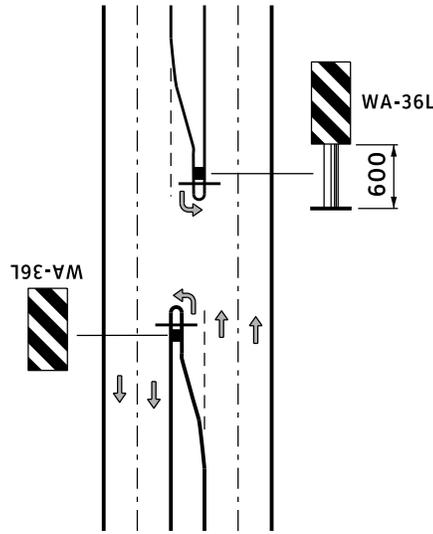
ANY VISIBILITY CONFLICTS CONCERNING STOP SIGN PLACEMENT SHOULD BE BROUGHT TO THE ATTENTION OF TRAFFIC ENGINEERING



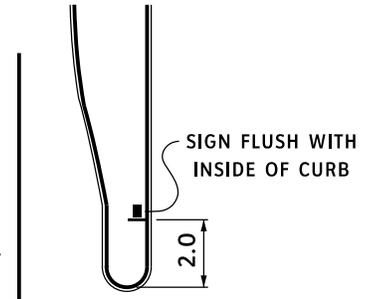
ANY VISIBILITY CONFLICTS CONCERNING
 STOP SIGN PLACEMENT SHOULD BE
 BROUGHT TO THE ATTENTION OF
 TRAFFIC ENGINEERING



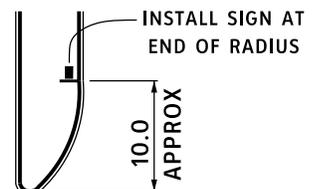
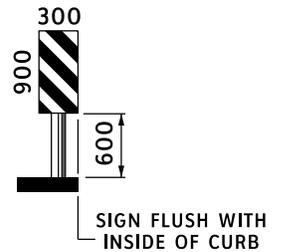
BEGINNING OF RAISED MEDIAN (URBAN LOCATION SPEED LIMIT \leq 50 km/h)



RAISED CENTRE MEDIAN WITH LEFT TURN LANE

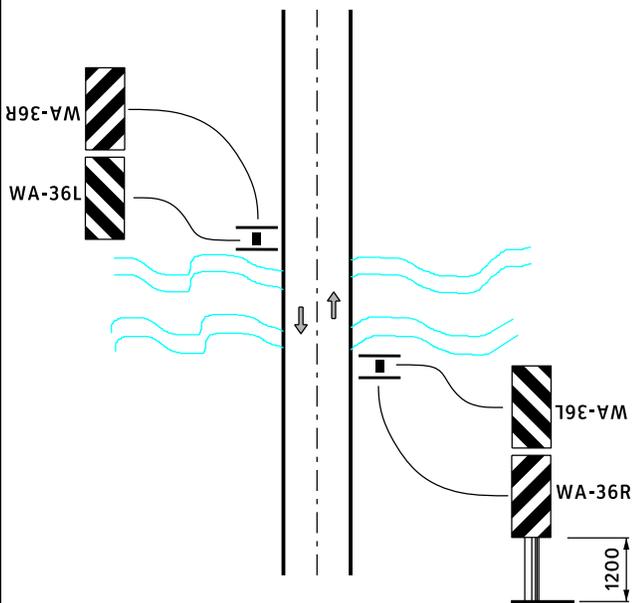


GEOMETRY 'A'

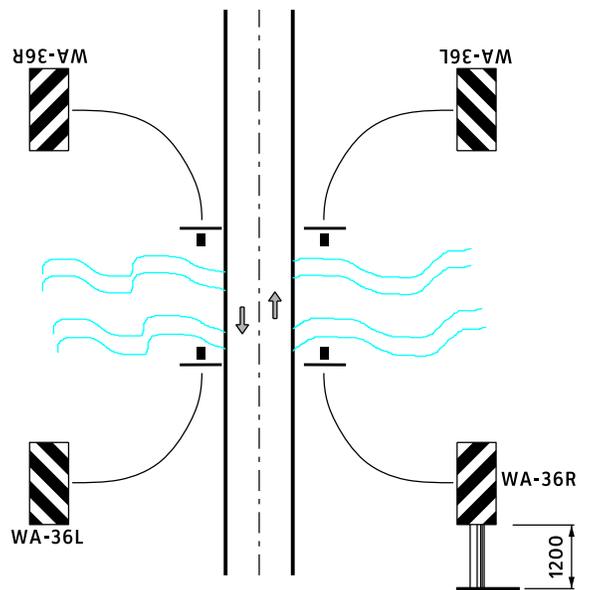


GEOMETRY 'B'

MEDIAN TREATMENTS



BRIDGES LESS THAN 5 m LONG



BRIDGES GREATER THAN 5 m LONG

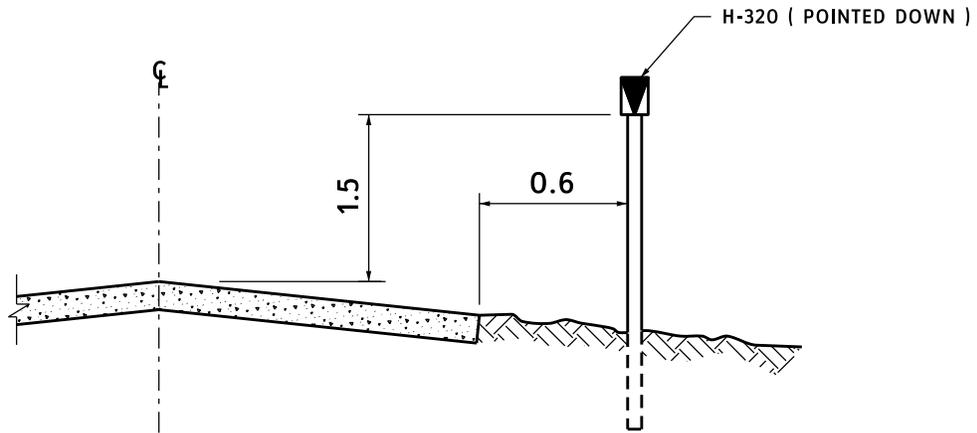
BRIDGE-END TREATMENTS

**OBSTRUCTION DELINEATOR
PLACEMENT**

Traffic Engineering

ISSUE DATE: APRIL 1993

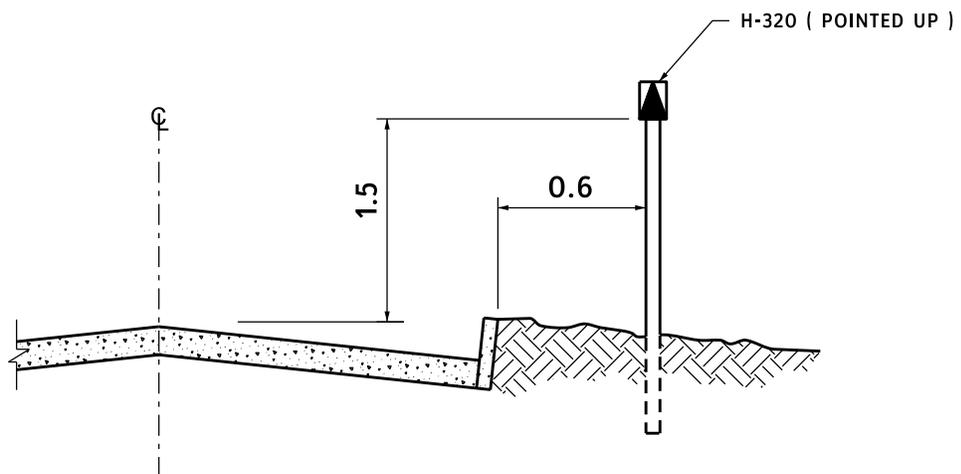
SB-5



DOWN BLADE
END OF CURB

NOTES:

1. SIGN H-320 IS USED TO DESIGNATE AN OBSTRUCTION AS A CURB, GUARDRAIL, ETC.



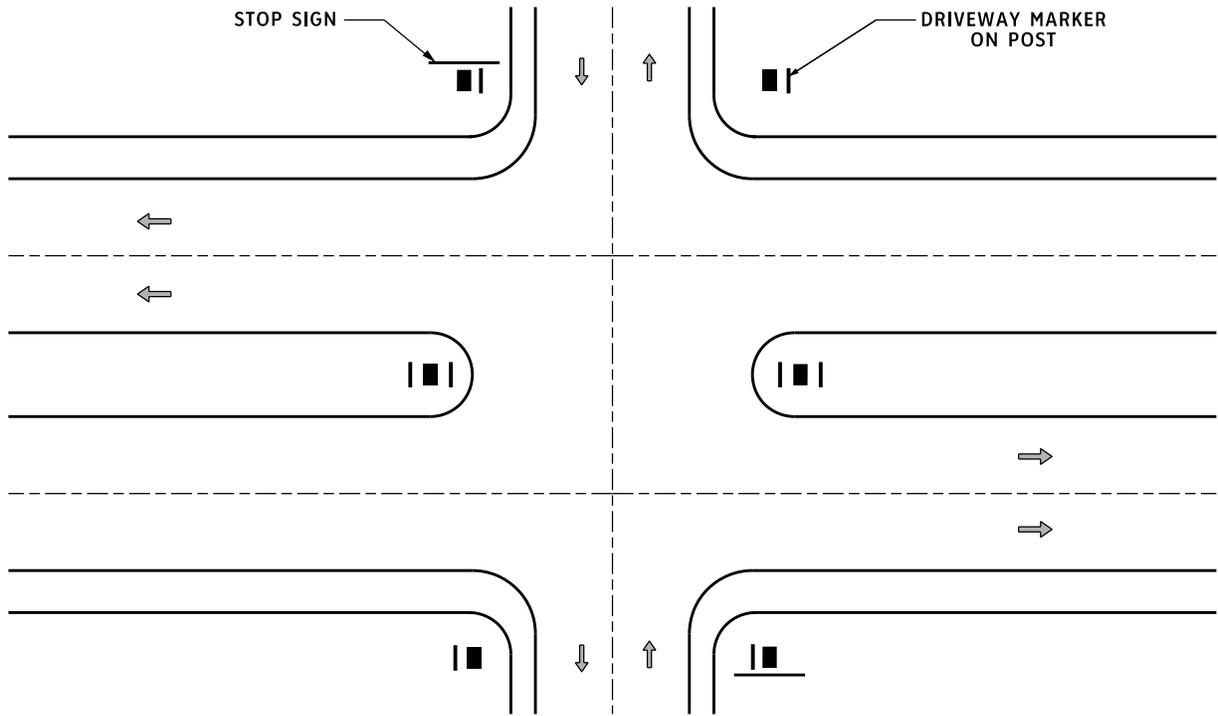
UP BLADE
BEGINNING OF CURB

DRIVEWAY MARKER

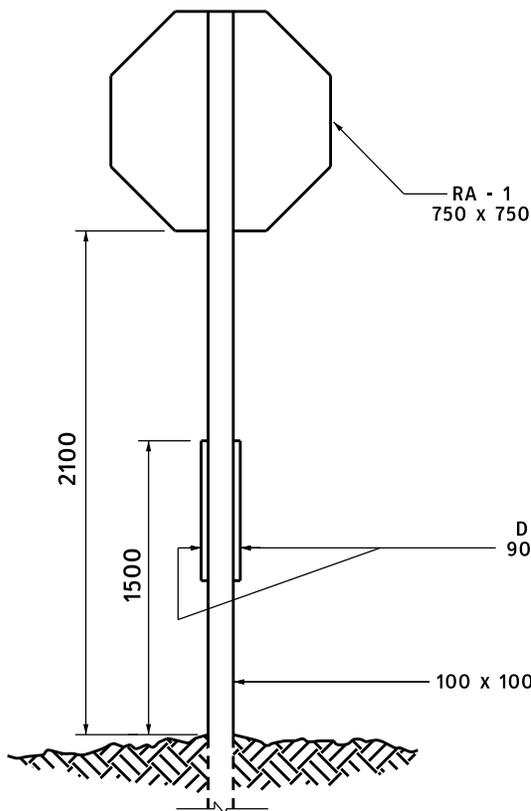
Traffic Engineering

ISSUE DATE: REV. JAN 2004

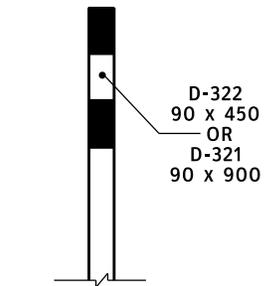
SB-6



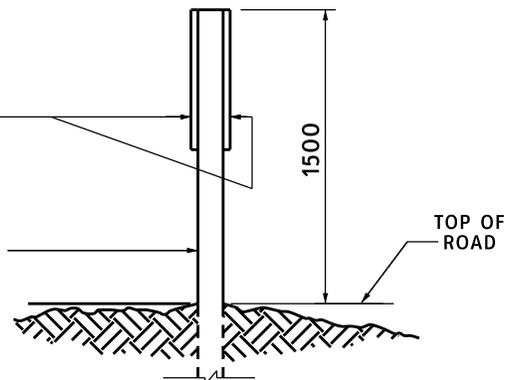
PLAN VIEW



STOP SIGN DETAIL



SIDE VIEW



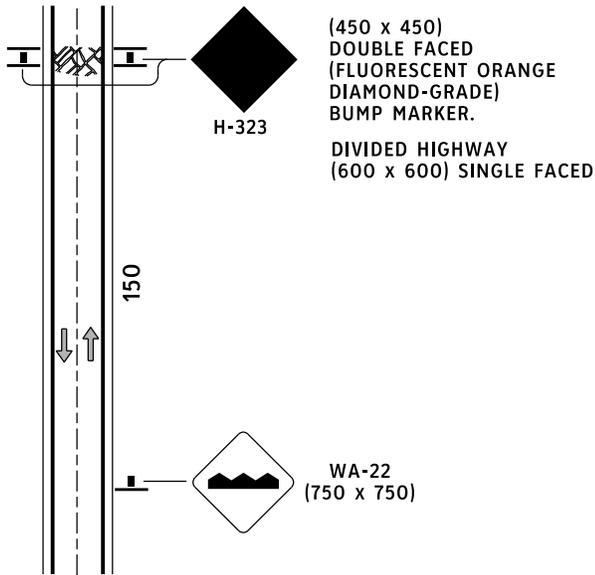
POST DETAIL

**TRAFFIC SIGNING STANDARDS FOR:
SURFACE BREAKS, UNEVEN SURFACE,
AND BUMPS**

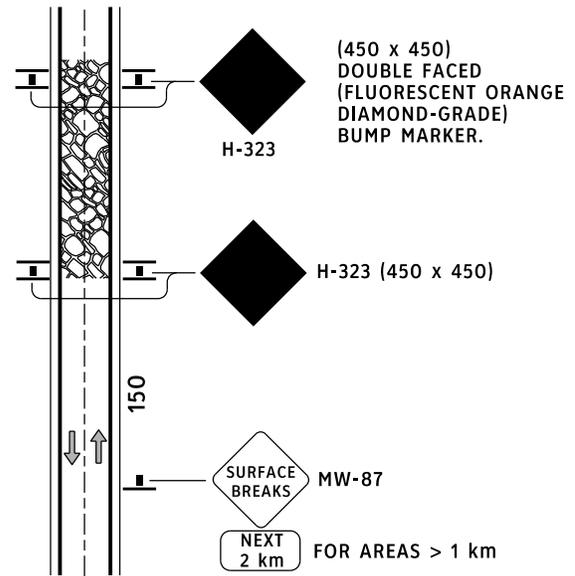
Traffic Engineering

ISSUE DATE: REV. MAY 1997

SB-7



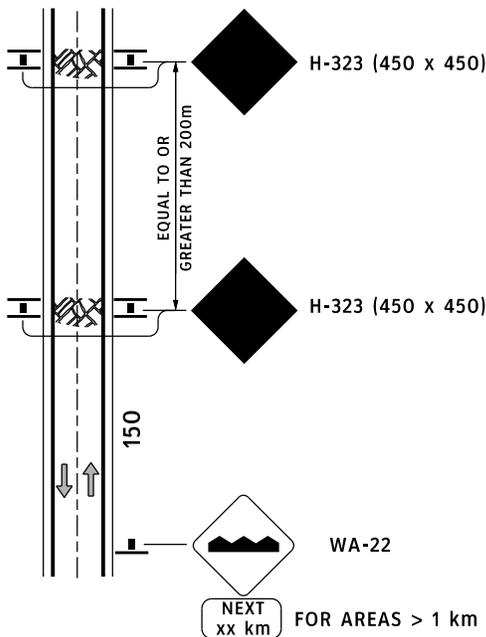
A. ISOLATED BUMPS



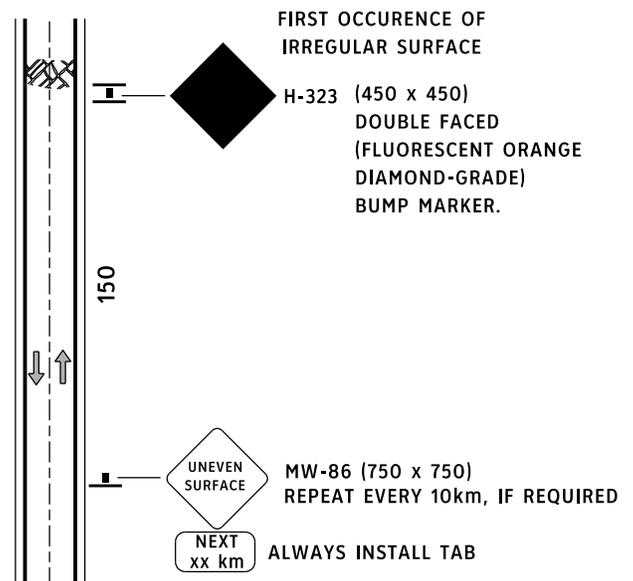
B. SURFACE BREAKS

NOTES:

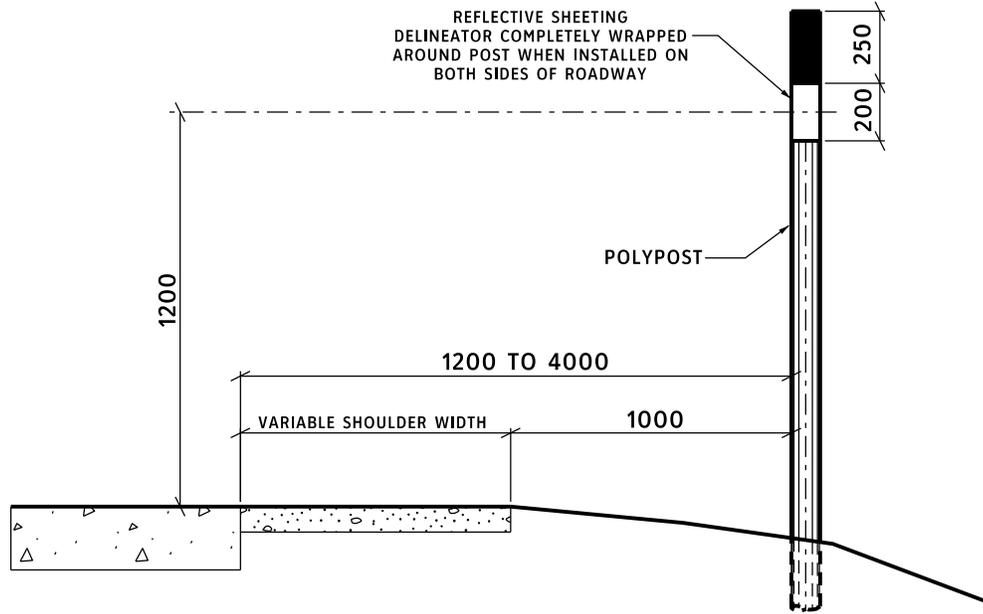
1. REFER TO THE FOLLOWING POLICIES FROM THE "TRAFFIC ENGINEERING POLICIES AND STANDARDS" MANUAL FOR SPECIFIC BUMP SIGN APPLICATIONS:
100-B-2 : A ('BUMP' SIGNS), B (SURFACE BREAKS), AND C (UNEVEN SURFACES)



A. SERIES OF BUMPS



C. UNEVEN SURFACE



TYPICAL INSTALLATION DETAIL

TABLE C3.31

SPACING OF DELINEATORS ON HORIZONTAL CURVES

DEGREE OF CURVE	RADIUS	SPACING (a) ON A CURVE	SPACING IN ADVANCE OF AND BEYOND CURVE		
			1st SPACE (b)	2nd SPACE (c)	3rd SPACE (d)
(DEGREES)	(m)	(m)	(m)	(m)	(m)
1	1747	46	60	60	60
3	582	26	47	60	60
5	349	20	36	60	60
7	249	16	30	50	60
9	194	14	26	44	60
12	145	12	22	37	60
15	116	10	19	33	60
18	97	10	17	30	60
25	70	8	15	26	51
30	58	7	13	22	44
40	43	5	10	17	35

NOTE:(a) SPACING ON CURVE= $2x\sqrt{0.3R}$ WHERE R= RADIUS IN METRES.

(b) SPACING TO 1st DELINEATOR= 1.85S

(c) SPACING TO 2nd DELINEATOR= 3S

(d) SPACING TO 3rd DELINEATOR= 6S

(e) MAXIMUM SPACING NOT TO EXCEED 60m

(f) MINIMUM SPACING NOT LESS THAN 5m

NOTE: THIS TABLE IS FOUND IN THE
MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA

REFER TO POLICY No. 100-E-4 FOR CURRENT STREET NAME BLADE STANDARDS

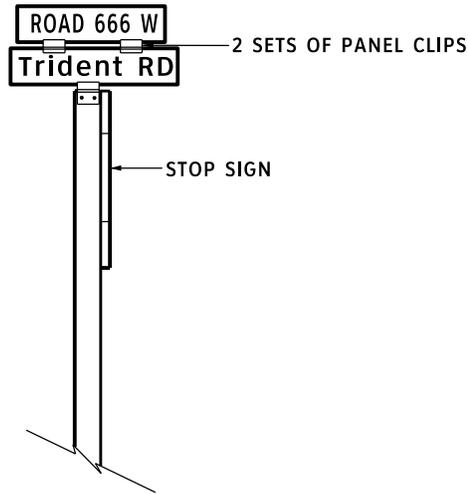


FIGURE 1

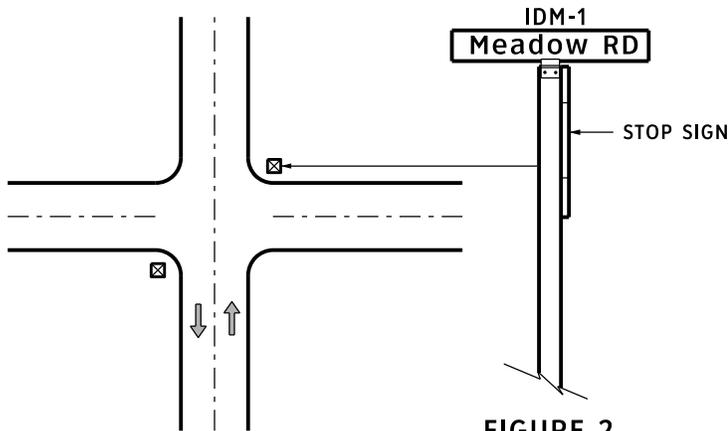


FIGURE 2



TYPICAL INSTALLATION
AT A NAMED PTH / PR
(MAXIMUM 2 BLADES PER POST)

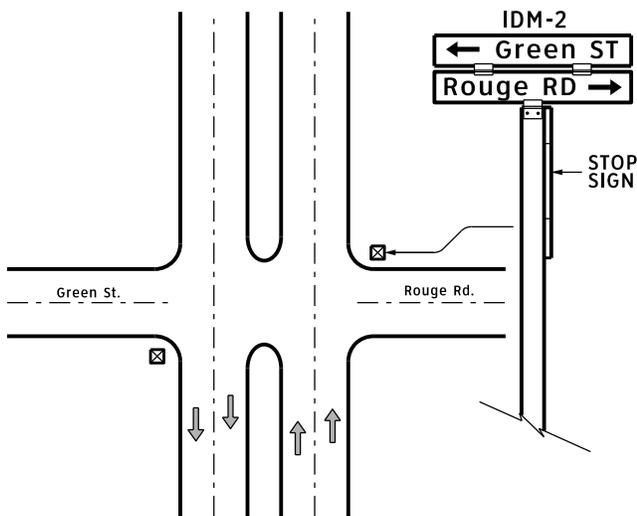


FIGURE 3

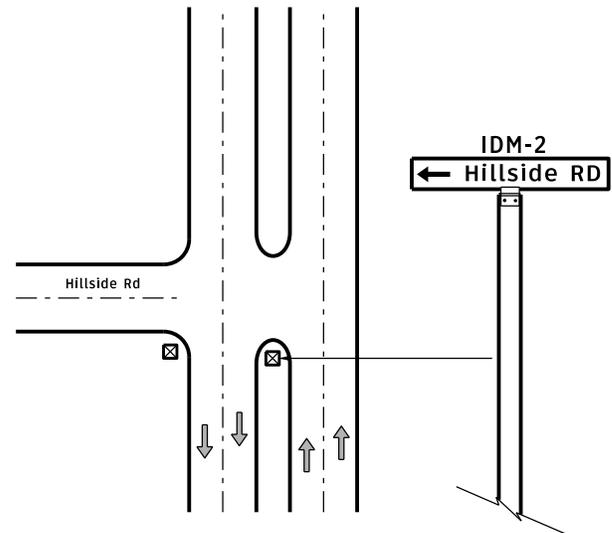


FIGURE 4

Street name blade specifications

	Typical 2-lane highway	Divided Highway
<p>REFER TO: - The 'Traffic Engineering Policies and Standards' manual Standard 100-E-4.</p>	<p>IDM-1 1000 mm (minimum) x 150 mm Colours: White on Green Font: ClearviewHwy-5-W</p>	<p>IDM-2 1000 mm (minimum) x 230 mm Colours: White on Green Font: ClearviewHwy-5-W</p>
<p>6th Road E EXAMPLE 1</p>	<p>100 mm number 100 mm upper case 75 mm lower case 100 mm upper case</p>	<p>150 mm number 150 mm upper case 100 mm lower case 150 mm upper case</p>
<p>Regular RD EXAMPLE 2</p>	<p>100 mm upper case 75 mm lower case 75 mm upper case</p>	<p>150 mm upper case 100 mm lower case 100 mm upper case</p>
<p>Road 444 W EXAMPLE 3</p>	<p>100 mm upper case 75 mm lower case 100 mm numbers 100 mm upper case</p>	<p>150 mm upper case 100 mm lower case 150 mm numbers 150 mm upper case</p>

EXAMPLES OF BILINGUAL BLADES

Regular RD

EXAMPLE 2

ch. Regular RD

EXAMPLE 2, BILINGUAL

Road 444 W

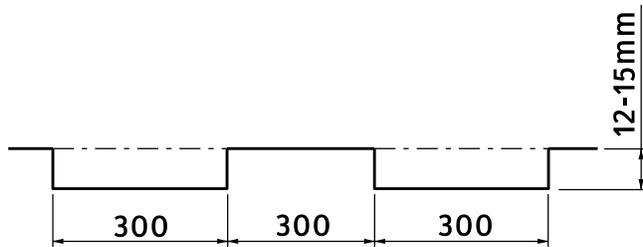
EXAMPLE 3

ROAD 444 WEST
CHEMIN OUEST

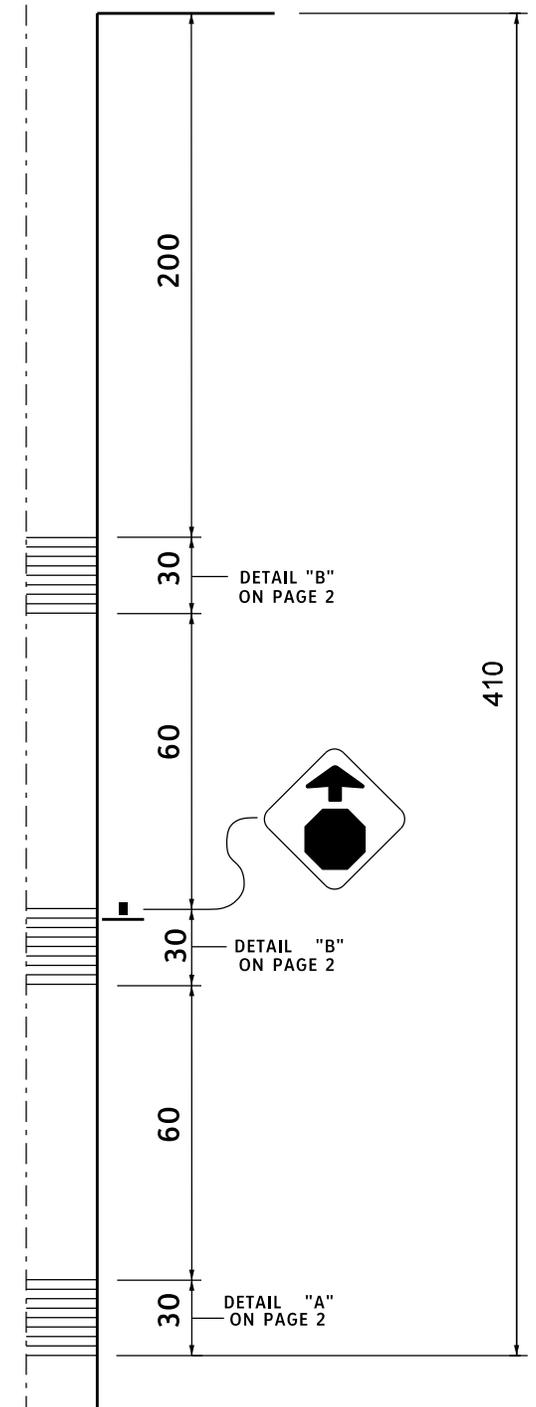
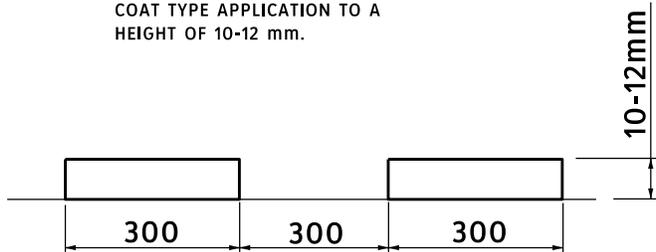
EXAMPLE 3, BILINGUAL

**RUMBLE STRIP
CROSS SECTIONS**

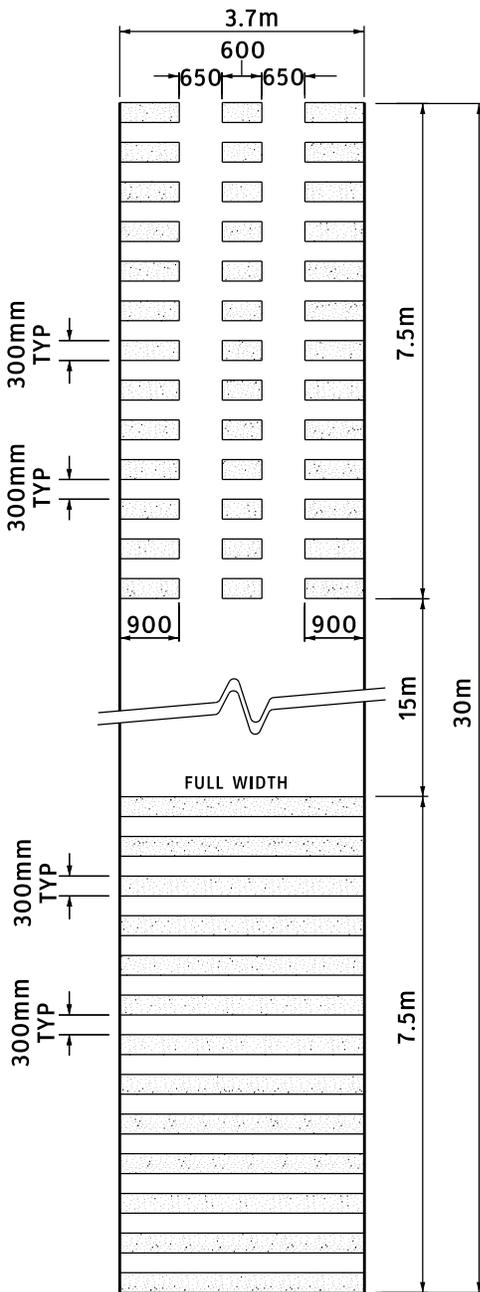
1.) WHEN THE ROAD IS CONSTRUCTED OF BITUMINOUS OR CONCRETE PAVEMENT AND IS IN GOOD REPAIR, THE SURFACE MAY BE GROOVED TO A DEPTH OF 12-15 mm USING A SUITABLE GRINDING/CUTTING SAW.



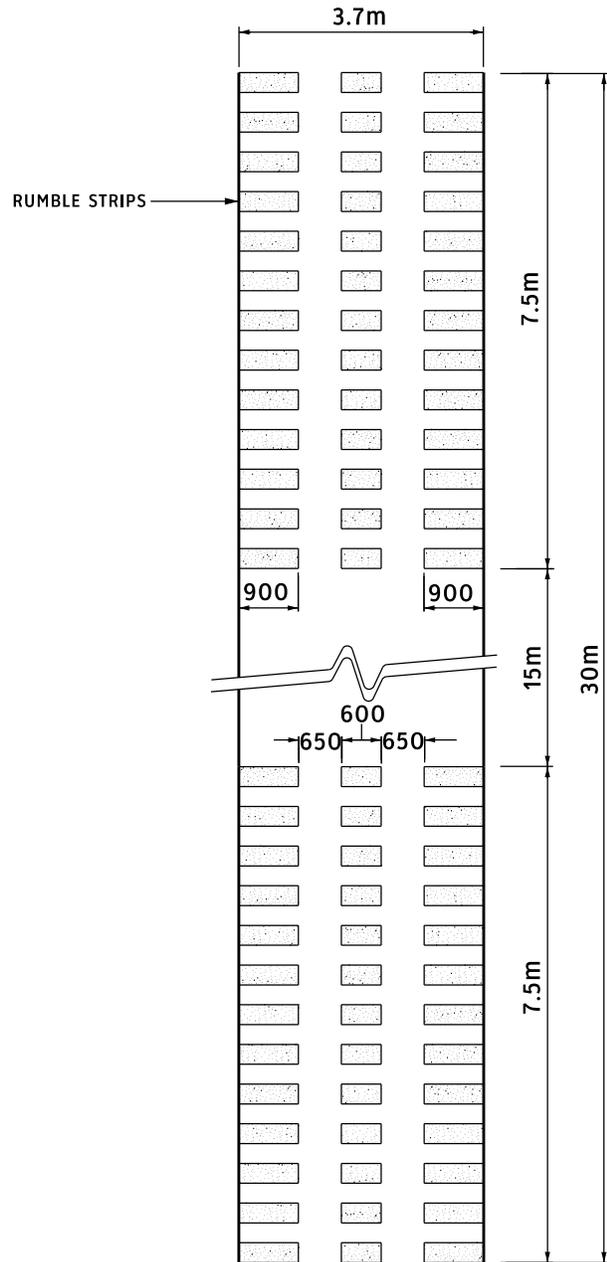
2.) WHEN THE ROAD SURFACE IS ASPHALT OR HAS MULTIPLE PATCHES, IT IS NECESSARY TO APPLY A SEAL COAT TYPE APPLICATION TO A HEIGHT OF 10-12 mm.



GEOMETRIC LAYOUT



DETAIL "A"



DETAIL "B"

Traffic Engineering

TRAFFIC SIGNING MANUAL

SECTION SC

SIGN HARDWARE INFORMATION

- SC-1 Breakaway Details for I-Beam Sign Posts (with screw anchor foundations)
- SC-2 Breakaway Details for Round Aluminum Sign Post (with screw anchor foundation)
- SC-3 Panel Clip / Post Clip Details
- SC-4 Panel Sign Installation on Wood Posts
- SC-5 Z-Beam, typical sign installation
- SC-6 Installation of two 900 x 1200 signs on Wood Posts
- SC-7 Installation of two 900 x 1200 signs on a Single Aluminum Post
- SC-8 Panel Sign Installation on a Single Aluminum Post

**BREAKAWAY DETAILS FOR
I-BEAM SIGN POSTS
(WITH SCREW ANCHOR FOUNDATIONS)**

Traffic Engineering

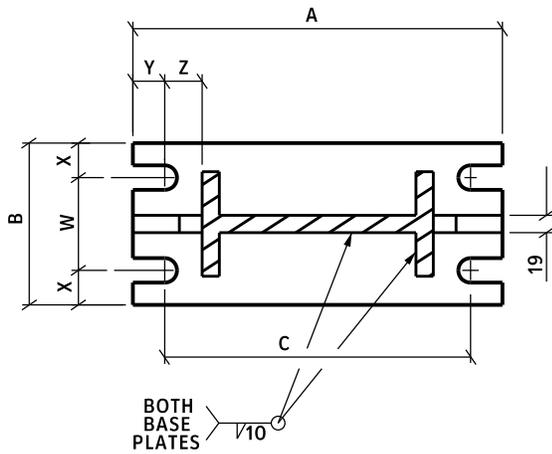
ISSUE DATE: REV. FEB 2009

SC-1

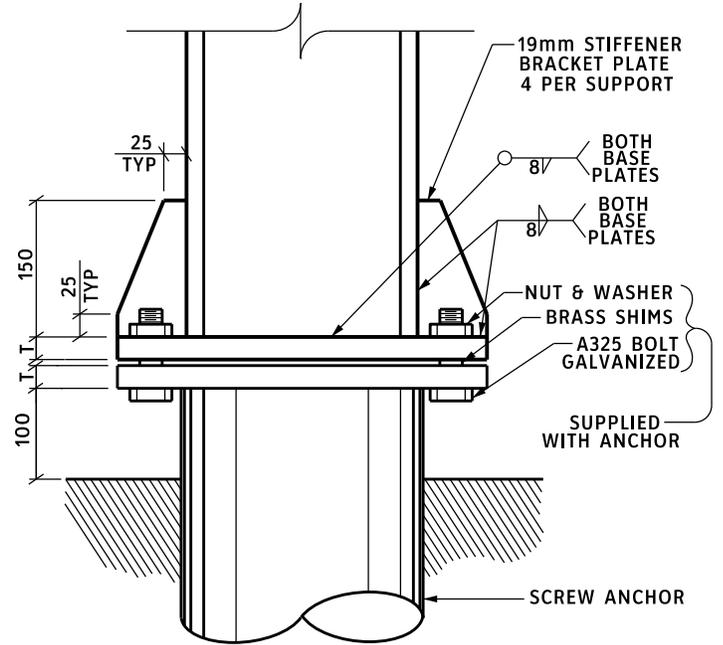
Aluminum Post Foundation Data

Post Size (mm)	Screw Anchor Colour Code	Hole Diameter (mm)	Bolt Diameter (mm)	Bolt Length (mm)	Bolt Torque (Nxm)	Baseplate Data							
						T (mm)	W (mm)	X (mm)	Y (mm)	Z (mm)	A (mm)	B (mm)	C (mm)
178	Yellow	27	25	90	1200	25	102	38	35	79	406	178	336
254	Yellow	27	25	90	1200	25	102	38	35	41	406	178	336
305	Orange	30	29	90	1500	25	115	44	41	48	483	203	401

NOTE: Aluminum shall conform to A.S.T.M. specification 6351-T6. (welded members)



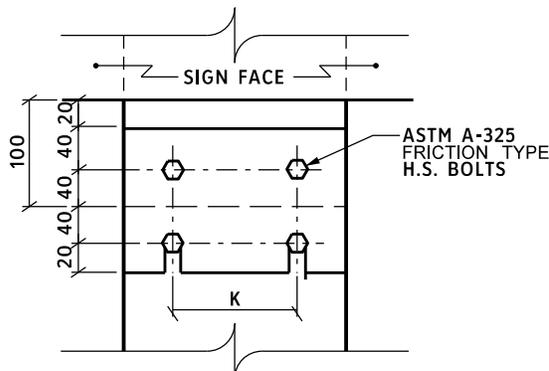
PLAN VIEW



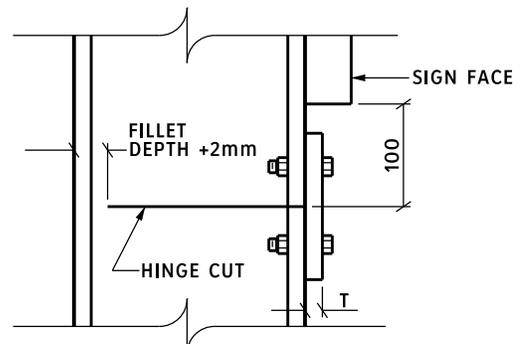
SIDE VIEW

Aluminum Post Hinge Data

Post Size (mm)	Hole Diameter (mm)	Bolt Diameter (mm)	Bolt Torque (Nxm)	Hinge Data	
				T (mm)	K (mm)
178	18	16	285	10	50
254	18	16	285	10	65
305	22	20	500	11	75



FRONT VIEW



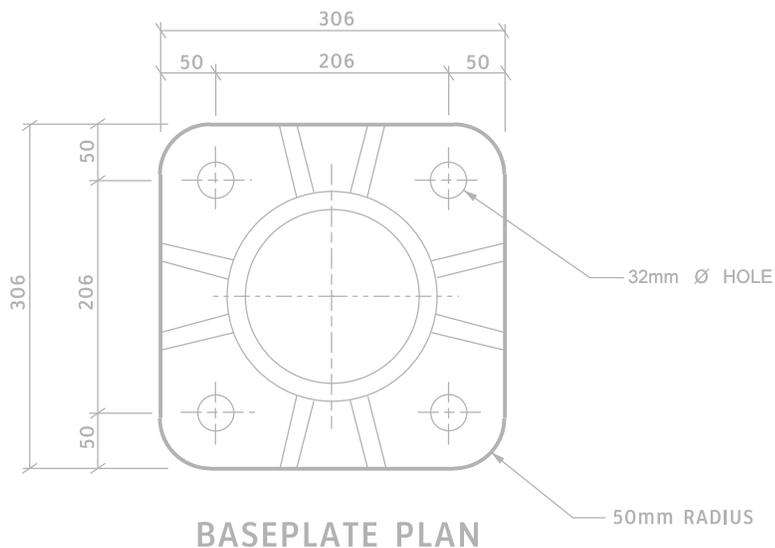
SIDE VIEW

**BREAKAWAY DETAILS FOR
ROUND ALUMINUM SIGN POST
(WITH SCREW ANCHOR FOUNDATIONS)**

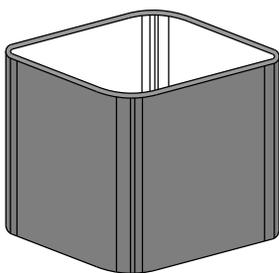
Traffic Engineering

ISSUE DATE: FEB 2009

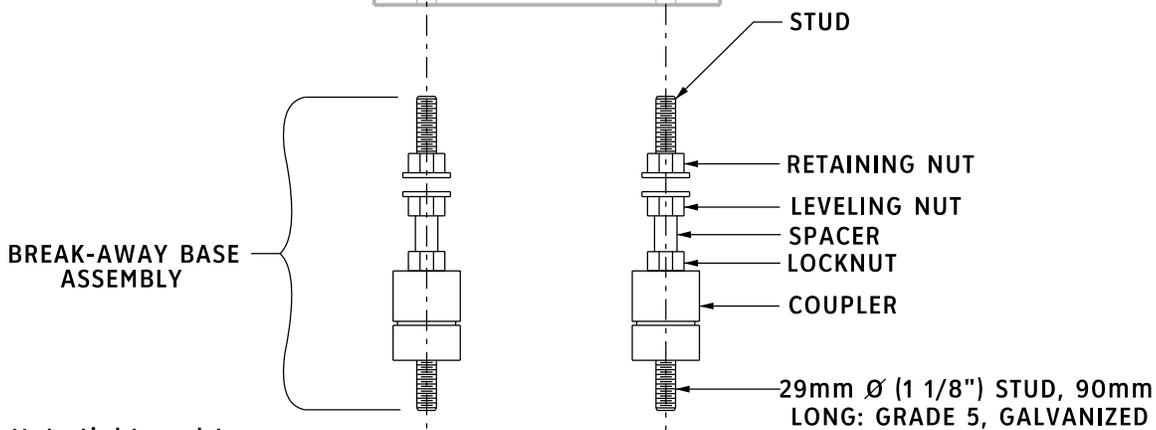
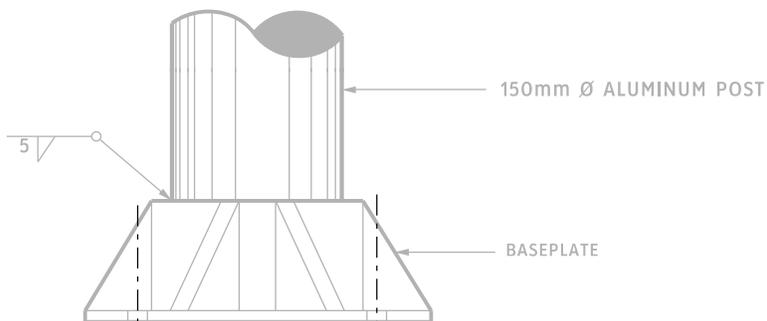
SC-2



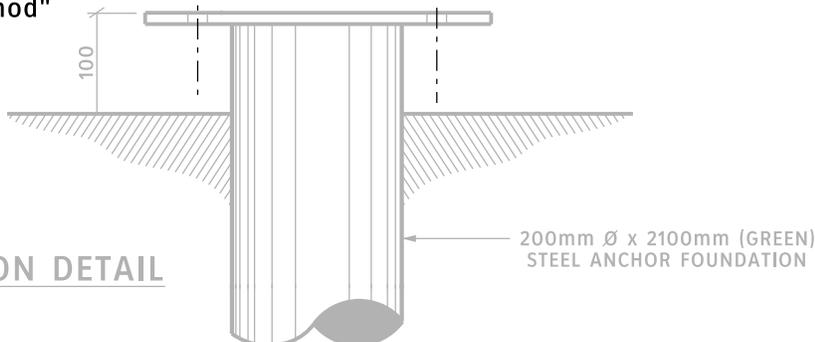
BASEPLATE PLAN



**SHROUD
(BREAK-AWAY COVER)**



NOTE: Nuts tightened to "Turn-of-Nut Method"



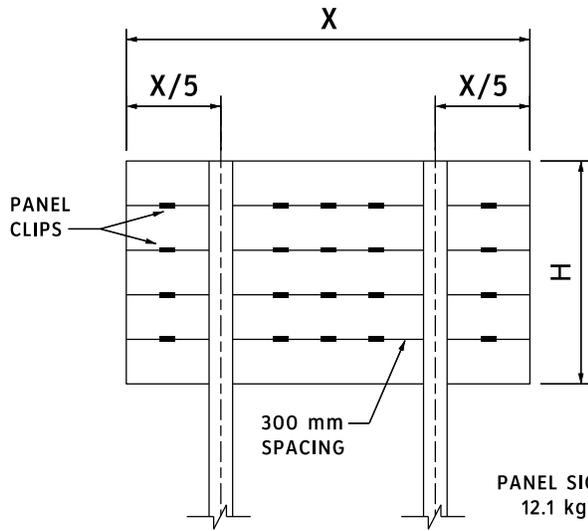
CONNECTION DETAIL

**PANEL CLIP & POST CLIP
ASSEMBLY DETAILS
ON ALUMINUM POST**

Traffic Engineering

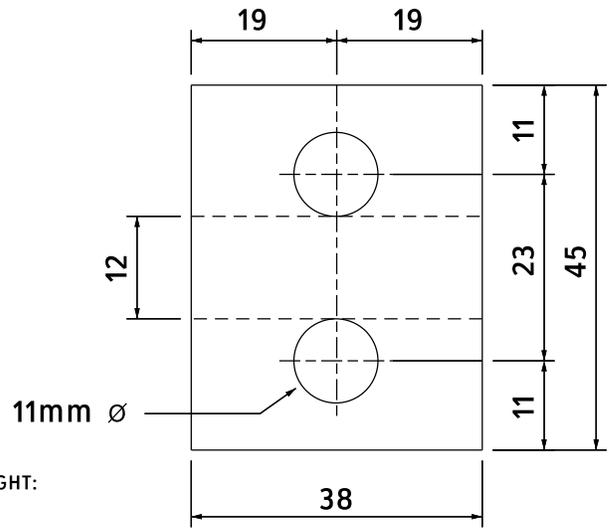
ISSUE DATE: APRIL 1993

SC-3

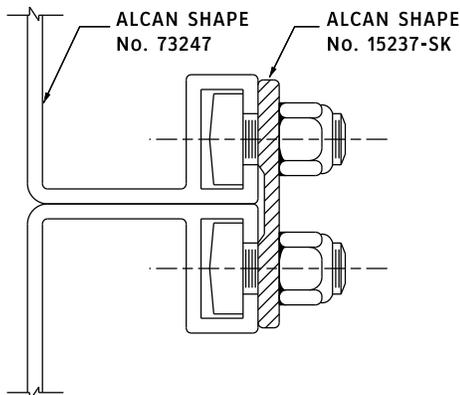


PANEL SIGN

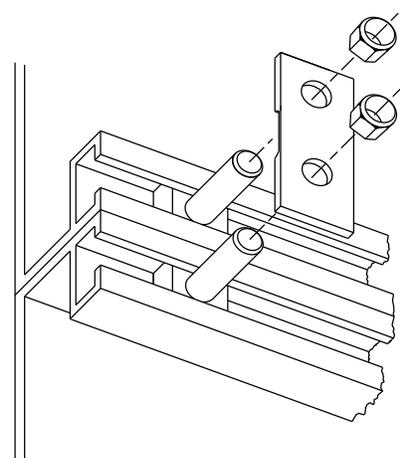
SHOWING PANEL CLIP SPACINGS



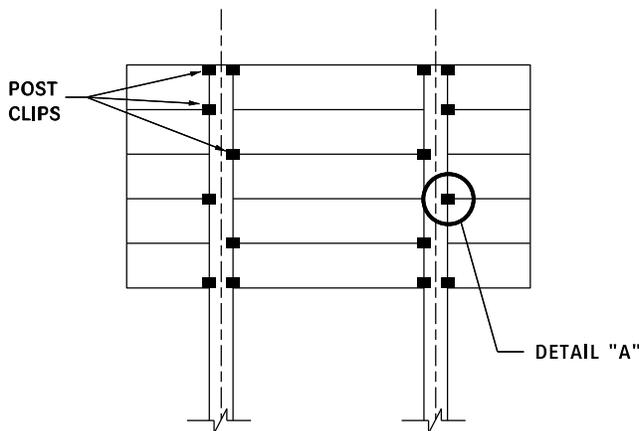
PANEL CLIP



PANEL CLIP SIDE VIEW

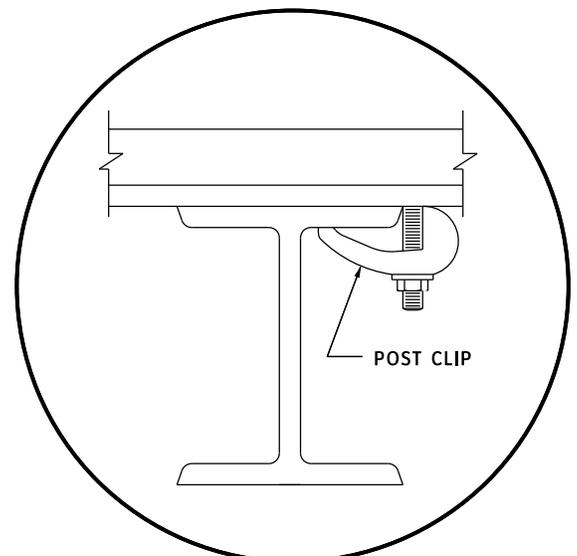


PANEL CLIP DETAIL



PANEL SIGN

SHOWING POST CLIP SPACINGS



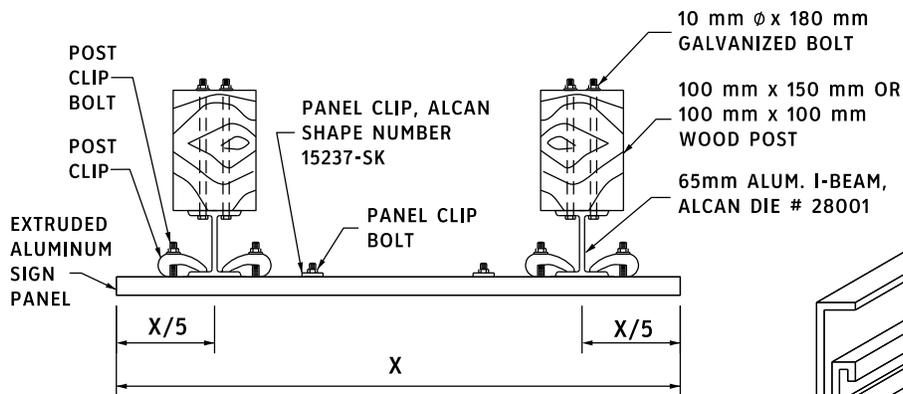
DETAIL "A" TOP VIEW

PANEL SIGN INSTALLATION ON WOOD POST

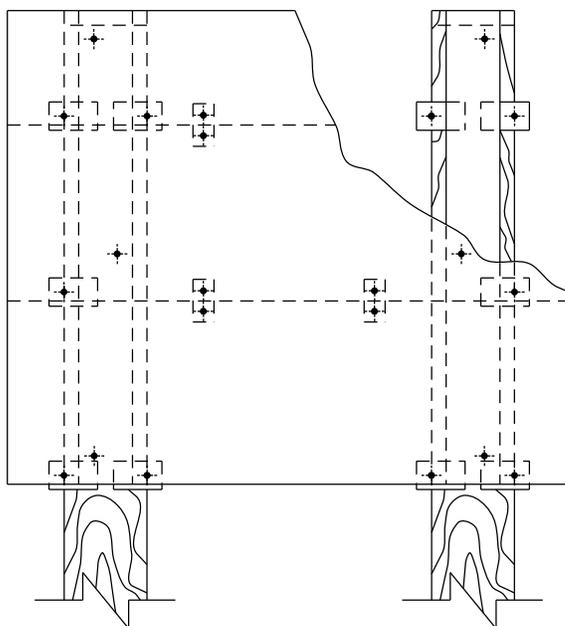
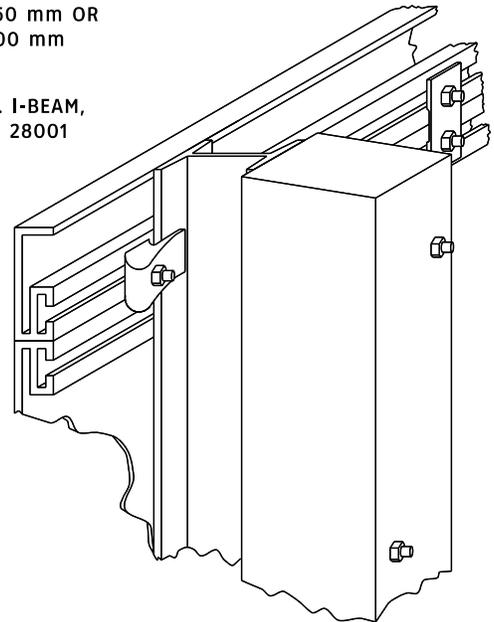
Traffic Engineering

ISSUE DATE: APRIL 1993

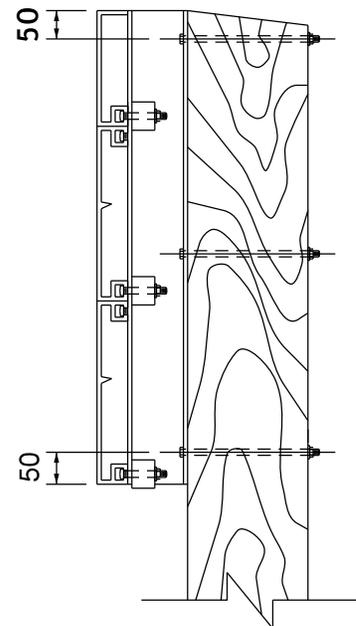
SC-4



TOP VIEW



FRONT VIEW



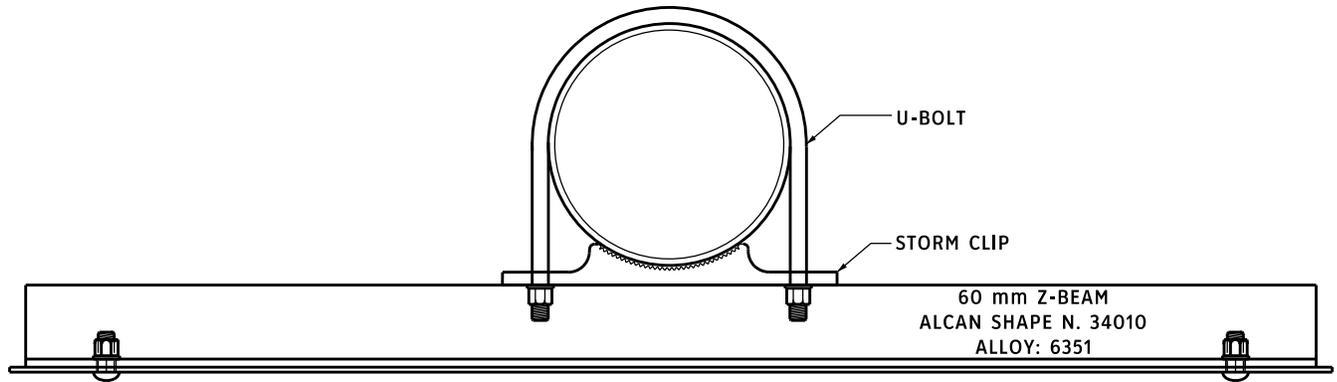
SIDE VIEW

TYPICAL SIGN INSTALLATION
USING Z-BEAM

Traffic Engineering

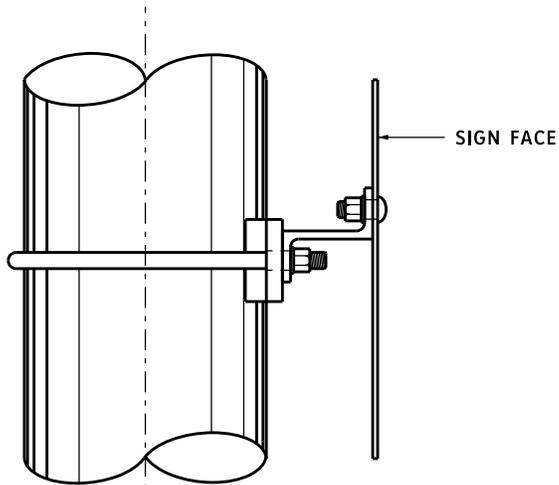
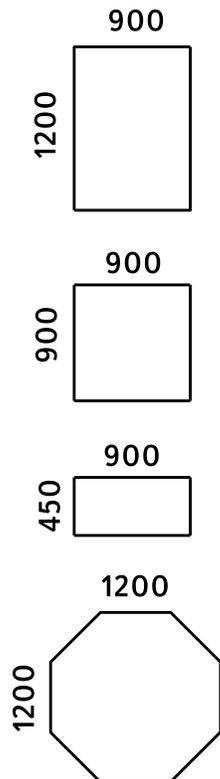
ISSUE DATE: REV. MAY 1996

SC-5



TOP VIEW

SHAPES AND SIZES OF SIGNS
FOR 800 mm Z-BEAM



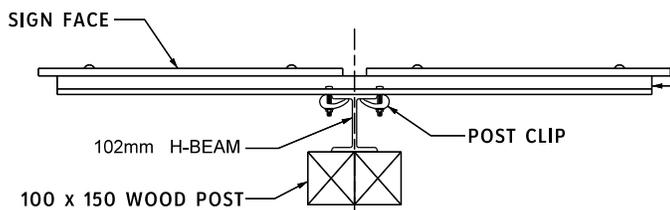
ELEVATION

INSTALLATION OF TWO 900 x 1200 SIGNS ON WOOD POSTS

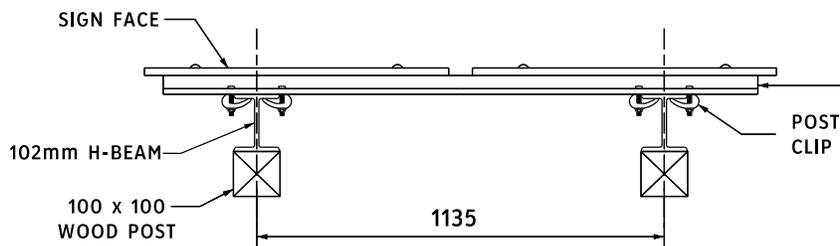
Traffic Engineering

ISSUE DATE: REV. JAN 2004

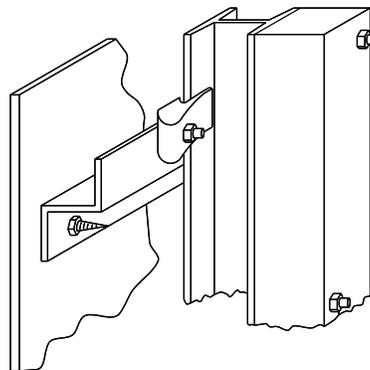
SC-6



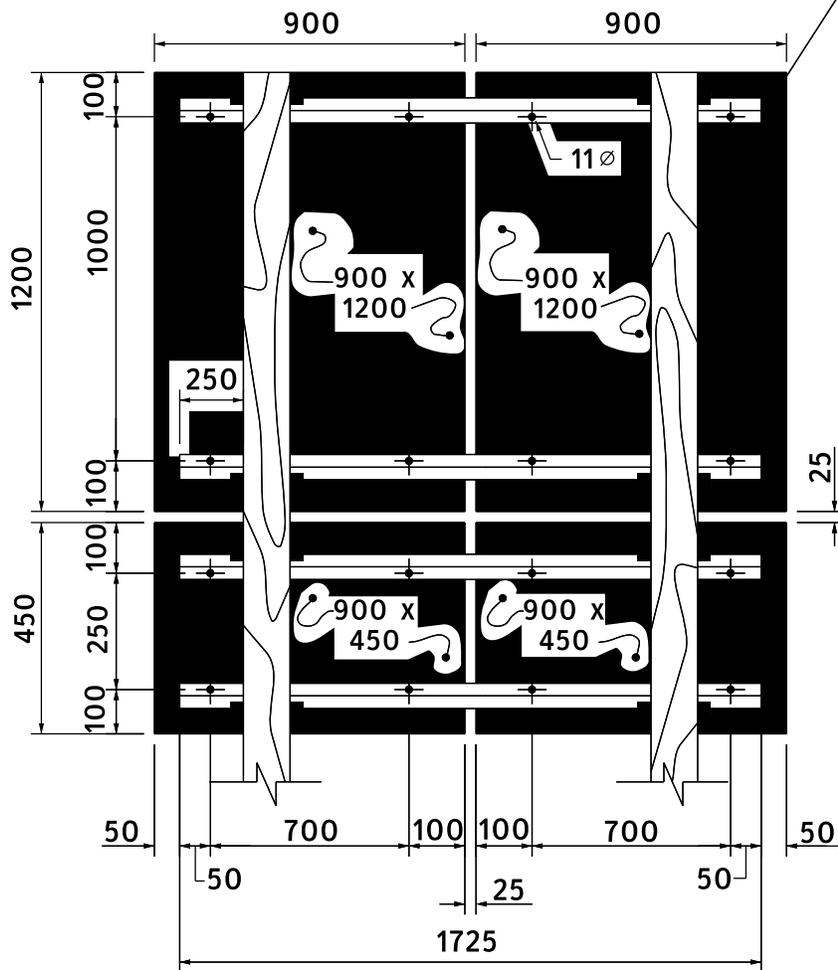
OR



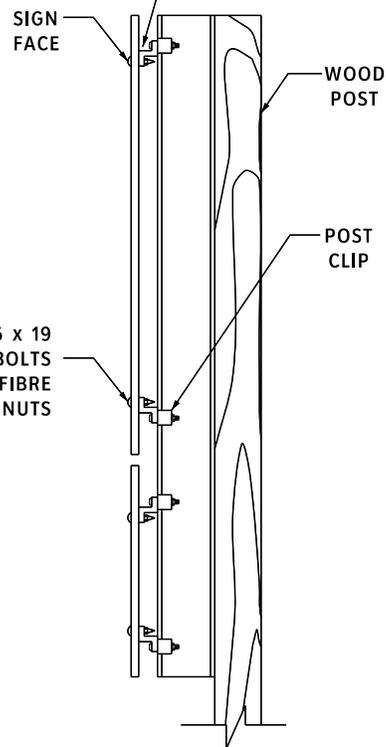
TOP VIEW



60 mm Z-BAR ALCAN
SHAPE NO.34010
B51S-T6 (6351-T6)



REAR VIEW



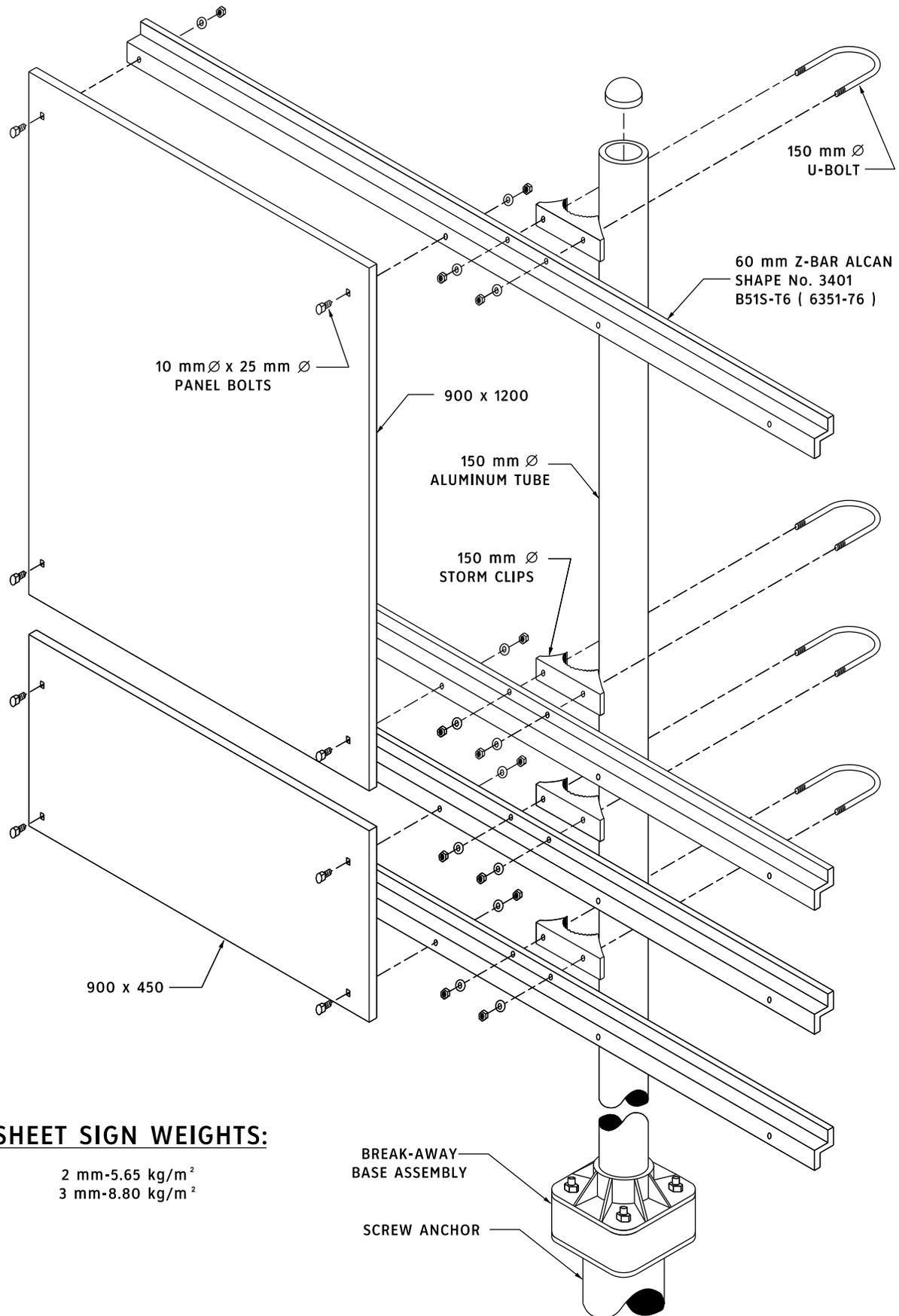
SIDE VIEW

INSTALLATION OF TWO 900 x 1200 SIGNS ON A SINGLE ALUMINUM POST

Traffic Engineering

ISSUE DATE: REV. JAN 2004

SC-7

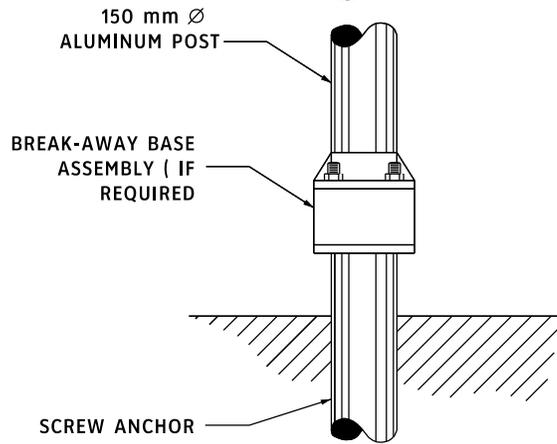
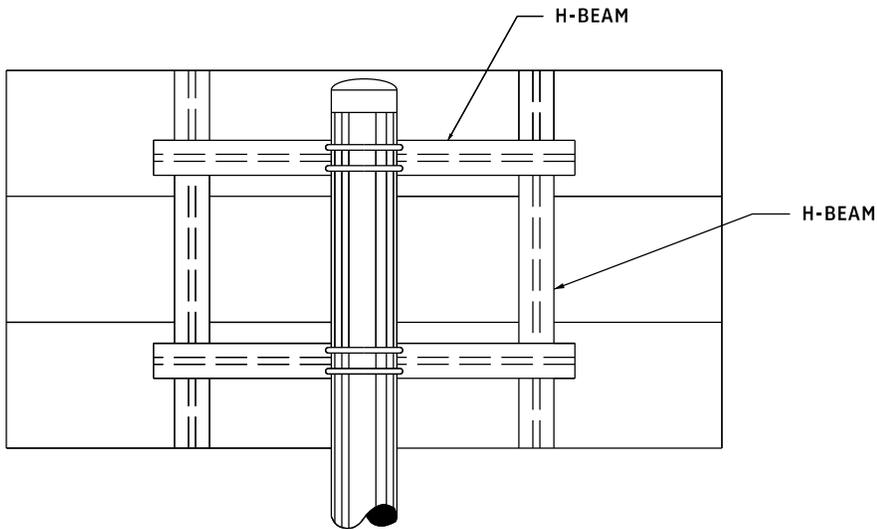


PANEL SIGN INSTALLATION ON A SINGLE ALUMINUM POST

Traffic Engineering

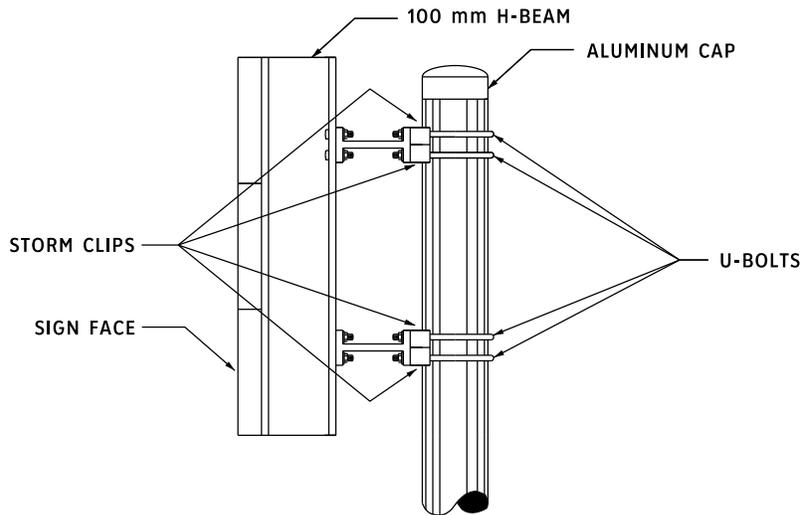
ISSUE DATE: APRIL 1993

SC-8



MATERIAL LIST	
1	150 mm Ø ALUMINUM POST C/W CAST BASEPLATE
1	SCREW ANCHOR (GREEN)
1	BREAK-AWAY BASE ASSEMBLY (IF REQUIRED)
1	SPUN ALUMINUM CAP
4	150 mm U-BOLTS
4	STORM CLIPS
2	100 mm H-BEAM VERTICAL LENGTHS
2	100 mm H-BEAM HORIZONTAL LENGTHS OR Z-BARS

REAR VIEW



SIDE VIEW