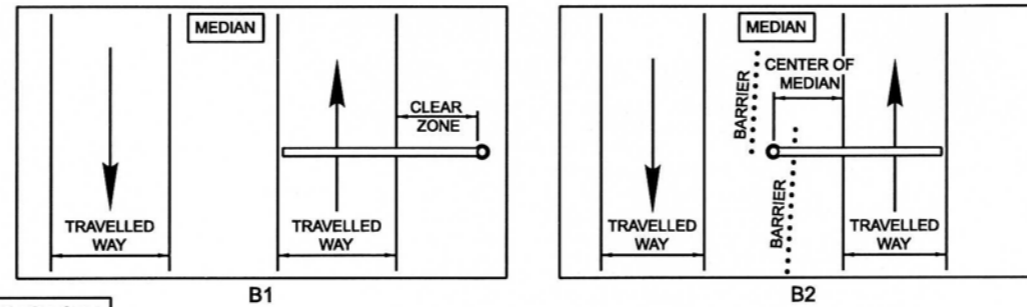


SIGN BRIDGE SCENARIOS



CANTILEVER SIGN SCENARIOS

NOTES:

1. SETBACK DISTANCE "A" INCLUDES WIDTH OF BARRIER PLUS A DYNAMIC DEFLECTION ALLOWANCE.
2. FOR RIDGED BARRIERS, REFER TO SECTION H.5.5 OF THE ROADSIDE DESIGN GUIDE FOR ZONE OF INTRUSION CONSIDERATIONS.
3. "P" INDICATES THE OVERHEAD SIGN SUPPORT DIAMETER.
4. "C" INDICATES SITE SPECIFIC CLEARANCE DISTANCE, REFER TO SECTION H.3.2.1 OF THE ROADSIDE DESIGN GUIDE.
5. FOR OBSTACLE OFFSET FROM TRAVELLED WAY, REFER TO SHEET 1 OF 2. THE OBSTACLE COULD BE AN OVERHEAD SIGN SUPPORT OR BARRIER, WHICHEVER IS CLOSER TO THE TRAVELLED WAY. IF THE OBSTACLE IS AN OVERHEAD SIGN SUPPORT, THEN $x \geq C$. IF THE OBSTACLE IS A BARRIER THEN $x \leq C$ (GENERALLY) IN ALL CASES "x" SHALL BE GREATER THAN THE SHYLINE OFFSET UNLESS OTHERWISE DICTATED BY UNIQUE SITE SPECIFIC CIRCUMSTANCES

TABLE 1 - MINIMUM BARRIER SETBACK AND EXTENSION

BARRIER TYPE	SETBACK FROM HAZARD, A (mm) - (SEE NOTE 1) (SEE SHEET 1 OF 2)	EXTENSION, B (mm)
HIGH TENSION CABLE	APPROX. 2500 (REFER TO PROPRIETOR SPECS.)	10000
PRECAST CONCRETE	VARIES (UP TO 2400 mm FOR UNANCHORED)	9000
STRONG POST W-BEAM	2100	4000 *
MODIFIED THRIE BEAM	1200	4000 *
THRIE BEAM BULLNOSE	1200	4000
CIP CONCRETE	750	3000

* WHEN ANCHORED WITH A CABLE ANCHOR TERMINAL (REFER TO RDG-B1.1 AND RDG-B5.1)

TABLE 2 - BARRIER GEOMETRIC PARAMETERS FOR " RURAL " CROSS SECTIONS

AIT DESIGN DESIGNATION	ROADWAY FACILITY (No. OF LANES)	DESIGN SPEED (Km/hr)	OBSTACLE OFFSET ** X1 (m)	OBSTACLE OFFSET ** X2 (m)	OBSTACLE OFFSET ** X3 (m)	LENGTH OF NEED Y1 (m)	LENGTH OF NEED Y2 (m)	LENGTH OF NEED Y3 (m)	OVERHEAD SIGN BRIDGE		CANTILEVER SIGN	
									CLEAR SPAN Z1 (m)	SCENARIO REFERENCE	CLEAR SPAN Z2 (m)	SCENARIO REFERENCE
RAD-410.4-80	4	80	C	C	-	-	-	-	7.4 + 2C	A3	MAX: 7.4 + C (ROADSIDE)	B1
RAD-410.4-100	4	100	C	2.4	-	-	150	-	9.8 + C + A	A1	MAX: 7.4 + C (ROADSIDE)	B1
RAD-410.4-110	4	110	C	2.8	2.8 + 2A + P	-	150	150	10.2 + C + A	A2	MAX: 7.4 + C (ROADSIDE)	B1
RAD-411.4-80	4	80	C	C	-	-	-	-	7.4 + 2C	A3	MAX: 7.4 + C (ROADSIDE)	B1
RAD-411.4-100	4	100	C	2.4	-	-	150	-	9.8 + C + A	A1	MAX: 7.4 + C (ROADSIDE)	B1
RAD-411.4-110	4	110	C	2.8	2.8 + 2A + P	-	150	150	10.2 + C + A	A2	MAX: 7.4 + C (ROADSIDE)	B1
RAD-412.4-120	4	120	C	C	-	-	-	-	7.4 + 2C	A3	MAX: 7.4 + C (ROADSIDE)	B1
RFD-412.4-130	4	130	C	C	-	-	-	-	7.4 + 2C	A3	MAX: 7.4 + C (ROADSIDE)	B1
RFD/RAD-616.6-130	6	130	C	C	-	-	-	-	11.1 + 2C	A3	MAX: 11.1 + C (ROADSIDE)	B1

** SEE NOTE 5

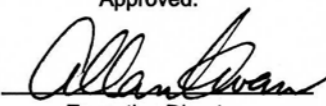
TABLE 3 - BARRIER GEOMETRIC PARAMETERS FOR " URBAN " CROSS SECTIONS

AIT DESIGN DESIGNATION	ROADWAY FACILITY (No. OF LANES)	DESIGN SPEED (km/hr)	OBSTACLE OFFSET ** X1 (m)	OBSTACLE OFFSET ** X2 (m)	OBSTACLE OFFSET ** X3 (m)	LENGTH OF NEED Y1 (m)	LENGTH OF NEED Y2 (m)	LENGTH OF NEED Y3 (m)	OVERHEAD SIGN BRIDGE		CANTILEVER SIGN	
									CLEAR SPAN Z1 (m)	SCENARIO REFERENCE	CLEAR SPAN Z2 (m)	SCENARIO REFERENCE
UCD-408.4-80	4	80	-	-	-	-	-	-	-	-	-	-
UAD/UCD-409.9-70	4	70	-	-	-	-	-	-	-	-	-	-
UAD-410.4-80	4	80	C	C	-	-	-	-	7.4 + 2C	A3	MAX: 7.4 + C (ROADSIDE)	B1
UAD-410.4-100	4	100	C	2.4	-	-	150	-	9.8 + C + A	A1	MAX: 7.4 + C (ROADSIDE)	B1
UAD-410.4-110	4	110	C	2.8	2.8 + 2A + P	-	150	150	10.2 + C + A	A2	MAX: 9.4 (MEDIAN)	B2
UAD-411.4-80	4	80	C	C	-	-	-	-	7.4 + 2C	A3	MAX: 7.4 + C (ROADSIDE)	B1
UFD-411.9-80	4	80	C	FLARED	FLARED	-	CONTINUOUS	CONTINUOUS	9.9 + C	A4	MAX: 9.4 (MEDIAN)	B2
UAD-411.4-100	4	100	C	2.4	-	-	150	-	9.8 + C + A	A1	MAX: 7.4 + C (ROADSIDE)	B1
UFD-411.9-100	4	100	C	FLARED	FLARED	-	CONTINUOUS	CONTINUOUS	9.9 + C	A4	MAX: 9.4 (MEDIAN)	B2
UAD-411.4-110	4	110	C	2.8	2.8 + 2A + P	-	150	150	10.2 + C + A	A2	MAX: 9.4 (MEDIAN)	B2
UAD-613.1-80	6	80	C	FLARED	FLARED	-	100	100	13.6 + C	A4	MAX: 11.1 + C (ROADSIDE)	B1
UAD-613.1-100	6	100	C	FLARED	FLARED	-	100	100	13.6 + C	A4	MAX: 11.1 + C (ROADSIDE)	B1
UAD/UCD-616.6-80	6	80	C	FLARED	FLARED	-	CONTINUOUS	CONTINUOUS	14.6 + C	A4	MAX: 14.6 (MEDIAN)	B2
UAD/UCD-616.6-100	6	100	C	FLARED	FLARED	-	CONTINUOUS	CONTINUOUS	14.6 + C	A4	MAX: 14.6 (MEDIAN)	B2
UAD/UCD-616.6-110	6	110	C	2.8	-	-	150	-	11.1 + C + A	A1	MAX: 11.1 + C (ROADSIDE)	B1
UAD/UCD-616.6-120	6	120	C	FLARED	FLARED	-	CONTINUOUS	CONTINUOUS	14.6 + C	A4	MAX: 14.6 (MEDIAN)	B2
UAD/UCD-616.6-130	6	130	C	3.2	3.2 + 2A + P	-	150	150	11.1 + C + A	A2	MAX: 11.1 + C (ROADSIDE)	B1
UAD/UCD-820.8-100	8	100	C	FLARED	FLARED	-	CONTINUOUS	CONTINUOUS	18.2 + C	A4	MAX: 18.2 (MEDIAN)	B2
UAD/UCD-820.8-110	8	110	C	FLARED	FLARED	-	CONTINUOUS	CONTINUOUS	18.2 + C	A4	MAX: 18.2 (MEDIAN)	B2
UAD/UCD-820.8-130	8	130	C	FLARED	FLARED	-	CONTINUOUS	CONTINUOUS	18.2 + C	A4	MAX: 18.2 (MEDIAN)	B2

** SEE NOTE 5

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED.

No.	REVISIONS	BY	DATE

Approved: 
 Executive Director,
 Technical Standards Branch

Date: NOVEMBER, 2007

Alberta
 INFRASTRUCTURE AND
 TRANSPORTATION

**PLACEMENT AND PROTECTION
 OF OVERHEAD SIGN SUPPORTS
 FOR DIVIDED ROADS
 SHEET 2 OF 2**

Prepared By: MO	Checked By: WS	Scale: N.T.S	Dwg No.: RDG-B7.5
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