



## APPLICATION/AGREEMENT FOR HORIZONTAL CURVE SIGN PROGRAM

Applicant: County of \_\_\_\_\_

Contact Person: \_\_\_\_\_

Mailing Address: \_\_\_\_\_  
(Street Address and/or Box Number)

\_\_\_\_\_  
(City) (Zip)

Daytime Phone: \_\_\_\_\_ Email: \_\_\_\_\_  
(Area Code)

### PROGRAM GUIDELINES:

The signs that are eligible with this program include: W1-1 (Turn), W1-2 (Curve), W1-3, (Reverse Turn), W1-4 (Reverse Curve), W1-5 (Winding Road), W13-1P (Advisory Speed), W1-6 (Arrow), and W1-8 (Chevron). Counties are responsible for purchasing the signs and the Iowa DOT will reimburse the county for sign costs upon installation. Reimbursable costs include the signs only.

Participation in the program will be on a first come, first served basis. Counties are limited to a maximum of \$10,000 per year with this program. Reimbursement will not be given for signs ordered prior to DOT authorization.

### INSTALLATION GUIDELINES:

Signs will need to be installed before reimbursement will be issued. Signs shall be installed within 12 months of authorization. Signs are to be installed in compliance with the current *Manual on Uniform Traffic Control Devices*, Federal Highway Administration, U.S. Department of Transportation. Tables 2C-5 and 2C-6 from the MUTCD have been included below.

Once the signs are installed, notify the program coordinator within 30 days. Notification should include the completed spreadsheet and, if possible, a photo of the installed signs. The preferred method of notification is by email to [Steven.Schroder@dot.iowa.gov](mailto:Steven.Schroder@dot.iowa.gov).

### SHEETING MATERIAL AND SIGN SIZE:

Sheeting material for the signs is to be ASTM Type IV (High Intensity Prismatic) or greater and either yellow or fluorescent yellow in color. Signs that are on riskier curves should be a larger size and fluorescent yellow in color. See Table 1 below for the minimum sizes and larger sizes of signs that are to be installed.

Table 1: Sizes of horizontal curve signs

Sign Number	Sign Description	Minimum Size	Larger Size
W1-1	Turn	30 x 30	36 x 36
W1-2	Curve	30 x 30	36 x 36
W1-3	Reverse Turn	30 x 30	36 x 36
W1-4	Reverse Curve	30 x 30	36 x 36
W1-5	Winding Road	30 x 30	36 x 36
W13-1P	Advisory Speed	18 x 18	24 x 24
W1-6	Arrow	48 x 24	48 x 24
W1-8	Chevron	18 x 24	30 x 36

Table 2C-5. Horizontal Alignment Sign Selection

Type of Horizontal Alignment Sign	Difference Between Speed Limit and Advisory Speed				
	5 mph	10 mph	15 mph	20 mph	25 mph or more
Turn (W1-1), Curve (W1-2), Reverse Turn (W1-3), Reverse Curve (W1-4), Winding Road (W1-5), and Combination Horizontal Alignment/Intersection (W10-1) (see Section 2C.07 to determine which sign to use)	Recommended	Required	Required	Required	Required
Advisory Speed Plaque (W13-1P)	Recommended	Required	Required	Required	Required
Chevrons (W1-8) and/or One Direction Large Arrow (W1-6)	Optional	Recommended	Required	Required	Required
Exit Speed (W13-2) and Ramp Speed (W13-3) on exit ramp	Optional	Optional	Recommended	Required	Required

Note: Required means that the sign and/or plaque shall be used, recommended means that the sign and/or plaque should be used, and optional means that the sign and/or plaque may be used.

See Section 2C.06 for roadways with less than 1,000 ADT.

Table 2C-6. Typical Spacing of Chevron Alignment Signs on Horizontal Curves

Advisory Speed	Curve Radius	Sign Spacing
15 mph or less	Less than 200 feet	40 feet
20 to 30 mph	200 to 400 feet	80 feet
35 to 45 mph	401 to 700 feet	120 feet
50 to 60 mph	701 to 1,250 feet	160 feet
More than 60 mph	More than 1,250 feet	200 feet

Note: The relationship between the curve radius and the advisory speed shown in this table should not be used to determine the advisory speed.

Signatures:

County Engineer:

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Printed)

County Board of  
Supervisors Chair:

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Printed)

DOT Approval:

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Printed)

Application is not approved until DOT Approval is given.