

Structure Type	Highway Alignment Across Bridge	Maximum Skew	Maximum Bridge Length	Maximum Distance to Zero Point
Reinforced Concrete Slab	No Restrictions	No Restrictions	60 m*	30 m
Structural Steel	Tangent Only**	30°***	75 m*	37.5 m
Prestressed Concrete	No Restrictions	30°***	90 m*	45.0 m

* *The maximum length indicated may be increased, subject to approval by the Design Division Chief, if a rational analysis of induced pile loads indicates that the piles are not overloaded. Two rational analysis methods are presented in the report, Pile Design and Tests for Integral Abutment Bridges, available from the Iowa Department of Transportation.*

See Section 67-1.03(03) for an alternative analysis in lieu of the above criteria.

** *The horizontal alignment may be curved if curved beams or girders are not used.*

*** *A greater skew than 30° and equal to or less than 45° will be permitted if the maximum bridge length does not exceed 45 m and the bridge is on a tangent alignment.*

USE OF INTEGRAL END BENTS

Figure 59-2B