



INDIANA DEPARTMENT OF TRANSPORTATION

Design Memo No. 24-13

September 11, 2024

TO: All Design Personnel and Consultants

FROM: /s/ Stephanie Wagner
Stephanie Wagner
Director of Bridge Engineering

SUBJECT: Integral End Bent Details

REVISES: *Indiana Design Manual* Section 409-2.04(03), Figures 409-2C (deleted) and 409-2D

EFFECTIVE: Stage 3 submittals on or after March 1, 2025

Integral end bent detail previously referred to as Method A, which attaches the beams directly to the end bent piling, has been eliminated. This method was only feasible for short span structures where the number of piles required was the same as the number of beam lines, resulting in infrequent use of this method. Pile driving tolerances and the potential for pile misalignment also creates a risk of a misalignment between the beam placement and top of pile location during construction.

Integral end bent detail previously referred to as Method B, which attaches the beams to the concrete bent cap, is now the sole detail to be used for bridges that utilize integral end bents.

The referenced figures and section of IDM [Chapter 409](#) have been revised to reflect these changes.

For questions related to this design memo, please contact the Bridge Engineering Division at Bridgedesignoffice@indot.in.gov