

IOWA DEPARTMENT OF TRANSPORTATION

To Office Bridges and Structures

Date May 2, 2007

Attention All Employees

Ref No. 521.1

From Gary Novey

Office Bridges and Structures

Subject Method's Memo No. 168 (Layout of Anchor Bolt Locations)

After discussions with the Office of Construction, the following policy change has been made for anchor bolt layouts on bridge plans. Effective on projects that have not yet been detailed anchor bolts locations shall be based on right angle dimensions with the centerline of the substructure unit. See attachment "A" for example layout.

The reason for this change is to reduce the chances of errors in locating the anchor bolts. Generally for bridge projects the survey controls that are established consist of the centerline of the approach roadway and the centerline of substructure units. The centerline of the substructure is the primary controls that the contractor uses. The office of Construction felt that contractors generally do not survey in the centerline of beams/girders due to the difficulty and potential inaccuracy. They locate the centerline of beam/girder intersection with the centerline of the substructure by measurements along the centerline of the substructure off the centerline of approach roadway.

Therefore, the layout (See Attachment A) is more common to the survey controls and more direct for the contractor during layout and construction.

If you have any questions please check with me.

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