

IOWA DEPARTMENT OF TRANSPORTATION

To Office Bridges and Structures

Date May 15, 2007

Attention All Employees

Ref No. 521.1

From Gary Novey

Office Bridges and Structures

Subject Method's Memo No. 147 (Embedded deck hanger forms in PPCB)

Some contractors have requested that deck hangers be embedded in beams of prestressed beam bridges. This request has started because we now use epoxy-coated stirrups and the cantilever hangers for formwork support cannot be welded to the epoxy-coating. Generally the request for embedded hangers is just for the exterior girder and not for any interior beams.

There is concern if uncoated hangers are used for the girders at gutter line, then there is a greater chance of deicing salts corroding the top of the beam and reducing the structural capacity of the beam. Because of this concern, we will require that all embedded hangers be galvanized.

Therefore, the following note should be added to prestressed beam bridge plans:

E/M 202

**IF DECK HANGERS ARE EMBEDDED IN PRESTRESSED BEAMS, THEY
SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123.**

GAN/dgb/bj