

IOWA DEPARTMENT OF TRANSPORTATION

To Office Bridges and Structures Date December 30, 2004
Attention All Employees Ref No. 521.1
From Gary Novey
Office Bridges and Structures
Subject Method's Memo No. 102 (4000 psi, 27.5 MPa, Deck Concrete for Long Span BTCs, BTCMs, BTDs, and BTDMs)

When using the longer spans of the BTC and BTD standards (BTC110, BTC115, BTC120, BTD125, BTD130 and BTD135, BTC33M, BTC35M, BTC36M, BTD38M, and BTD39M), the designer must specify 4000-psi (27.5 MPa) concrete for the concrete compressive strength of the bridge deck by providing the following note in the bid item reference notes:

FOR THE BRIDGE DECK CONCRETE, THE CONTRACTOR SHALL CAST A TOTAL OF SIX TEST CYLINDERS, THREE FOR 28 DAY COMPRESSIVE STRENGTH TEST AND THREE RETAINED FOR BACKUP. STRENGTH SAMPLES SHALL BE CAST, CURED, AND HANDLED IN ACCORDANCE WITH MATERIALS I.M. 315 BY AN IOWA DOT PCC LEVEL I CONCRETE FIELD TECHNICIAN OR TECHNICIAN GRADE I IN ACCORDANCE WITH ACI CP-2. THE AVERAGE STRENGTH TEST FOR THE BRIDGE DECK SHALL BE A MINIMUM OF 4000 PSI (27.5 MPa).

GAN:dgb:bj