



## BRIDGE TECHNICAL DIRECTION BTD2010/03

### ***PRETENSIONED BRIDGE MEMBERS – CONCRETE TRANSFER STRENGTH REQUIREMENTS***

#### **Background**

Chief Bridge Engineer Circular, CBE No 94/6 (CBE1994/06), introduced a limit on the transfer strength of pre-tensioned bridge members to 35 MPa. The main purpose of this limit was to restrict the 28 day strength to 50 MPa for ductility reasons and to reduce costs.

It is now considered that the higher strength mixes are better understood by designers and constructors and more often utilised for bridge products in order to reduce overall cost.

#### **Bridge Technical Direction**

The concrete transfer strength used in the design of pre-tensioned bridge members for RTA owned bridges should not be greater than 40 MPa without the written approval of the Principal Bridge Engineer.

CBE1994/06 is withdrawn.

**References:** CBE1994/06

**Effective date:** 8/10/2010

**Approved:** Wije Ariyaratne  
Principal Bridge Engineer

#### DISTRIBUTION:

Publication on RTA's Intranet and the Internet  
The circulation list for the Bridge Technical Direction Manual  
All Bridge Engineering Staff and Skill-Hire Contractors  
Asset Managers, Bridge Maintenance Planners and Support Officers  
Corporate Documentation Registrar  
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