

Memorandum

*Serious Drought.
Help Save Water!*

To: DEPUTY DIVISION CHIEFS
Division of Engineering Services

Date: March 12, 2014

From: BARTON J. NEWTON
Deputy Division Chief
Structure Policy and Innovation
Division of Engineering Services



Subject: **UPDATE MEMO TO DESIGNERS 11-8 "DESIGN GUIDELINES OF PRECAST
PRESTRESSED GIRDERS"**

Memo to Designers (MTD) 11-8 "Design Guidelines of Precast Prestressed Girders", updated February 2014, is effective immediately. This memo replaces the previous version of MTD 11-8 "*Design of Precast Prestressed Girders*", dated November 1996, and MTD 11-9 "*Economical Precast Girders*", dated March 1994.

With newly published Caltrans standard precast, prestressed concrete girder sections in Chapter 6 of the *Bridge Design Aids* and standard precast, prestressed girder XS sheets, this memo incorporates the most recent design guidance and precast industry new technologies, including High Strength Concrete, Welded Wire Reinforcement, Debonding, and Post-Tensioned Spliced Girders. With the pending precast girder design example to be a part of the Caltrans' *DES Bridge Design Practices Manual*, designers will soon have a complete set of design tools for precast girder projects.

This new MTD 11-8 is implemented on all projects in the Advance Planning Study, Plans and Quantities, and Plans, Specifications, and Estimates. Contract Change Orders are not required solely due to the content of this MTD.

For questions or concerns on applications to a specific project, consultants/local agencies should contact the Oversight Engineer or Structure Local Assistance. Caltrans staff may contact the Concrete Technical Specialist, Jim Ma, at (916) 227-8175.

Attachment: MTD 11-8, "*Design Guidelines of Precast Prestressed Girders*"

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