State of California
DEPARTMENT OF TRANSPORTATION

California State Transportation Agency

Memorandum

Serious drought.
Help save water!

To: GUDMUND SETBERG, Deputy Division Chief, Structure Design
STEVE ALTMAN, Deputy Division Chief, Structure Construction
SHIRA RAJENDRA, Deputy Division Chief, Program/Project Management and Office Engineer
ROBERTO LACALLE, Deputy Division Chief, Materials Engineering & Testing Services & Geotechnical Services
DOLORES VALLS, Chief, Structure Maintenance And Investigation
ROBERT PETERSON, Chief, Bridge, Bond & Safety Programs

Date: October 26, 2016

From: THOMAS A OSTROM T.A.O.
State Bridge Engineer
Structure Policy & Innovation
Division of Engineering Services

Subject: **INTERIM MEMO TO DESIGNERS 3-8 (TIP POST-GROUTING OF DRILLED SHAFTS)**

The DES Substructure Committee has developed the interim Memo to Designers (MTD) 3-8 to clarify application of tip post-grouting on Caltrans projects. Post-grouting is a promising technique that may increase end-bearing resistance of drilled shafts and therefore reduce cost of construction. However, considering the uncertainty in repeatability of the technique for production shafts vs. test shafts, as well as lack of state-developed design and construction specifications, its application is limited to foundation systems with high redundancy and will be evaluated on a project-by-project basis. This memo serves as an interim guidance memo until ongoing research results are known and construction specifications to address quality control and quality assurance concerns are developed.

For questions or concerns on application to a specific project, consultants/local agencies should contact the structure liaison engineer. Caltrans staff may contact Amir Malek, Substructure Committee Chair, (916) 227-5981, amir.malek@dot.ca.gov.

Attachment

c: Michael D. Keever, Chief, Division of Engineering Services
Susan Hida, Structure Policy & Innovation
Don Reding Jr., Structure Quality Management
Structure Policy & Innovation Office Chiefs
John Babcock, Structure Construction
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