

Memorandum

*Serious drought.
Help save water!*

To: MICHAEL D. KEEVER
Deputy Division Chief
Structure Design
Division of Engineering
Services

SHIRA RAJENDRA
Deputy Division Chief
Program/Project & Resource
Management
Division of Engineering
Services

STEVE ALTMAN
Deputy Division Chief
Structure Construction
Division of Engineering
Services

DOLORES M VALLS
Deputy Division Chief
Structure Maintenance and
Investigations

RAY ZHANG
Deputy Division Chief
Local Assistance

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File:

From: THOMAS A OSTROM
Deputy Division Chief
Structure Policy and Innovation
Division of Engineering Services

T.A.O.

Subject: SCOUR DATA TABLE ON FOUNDATION PLAN

Per recommendation from the "Review of the California Department of Transportation Hydraulics Program" by the Federal Highway Administration and Caltrans, effective immediately designers shall include the following "Scour Data Table" on the Foundation Plan for all contract plans that include structures over waterways:

Scour Data Table

Support No.	Long Term (Degradation and Contraction) Scour Elevation (ft)	Short Term (Local) Scour Depth (ft)
Abut 1		
Bent 2		
Bent 3		
Abut 4		

The Scour Data Table is included in the project's Final Hydraulic Report (FHR) or obtained upon request from the Structures Hydraulics and Hydrology Branch. Refer to Memos-to-Designers (MTD) 3-1, Attachment 1, "Design Procedures and Examples" or MTD 4-1, Attachment 1, Table 2 "Scour Data" for additional information.

Structures over waterways are designed for site-specific hydraulic and hydrological conditions. Scour calculations consider the final design at each support. Over time, channel conditions change causing scour or channel degradation at bridge substructure elements. Addition of the Scour Data Table on the Foundation Plan will assist in the future evaluation of changed conditions by providing hydraulic information about the original design.

Each affected function shall develop guidelines to include the Scour Data Table into their business practices. The Scour Data Table should be included in all projects that have not yet achieved Ready-to-List (RTL) and the As-Built for completed projects.

- c: Kevin Keady, Structures Maintenance and Investigations
- Pete Whitfield, Structures Maintenance and Investigations
- Shannon Post, Structure Policy and Innovation
- Susan Hida, Structure Policy and Innovation
- John Erickson, Structure Design, Office of Photogrammetry
- Kelly Holden, Structure Design, Office of Bridge Design West
- Sudhakar Vatti, Office of Special Funded Projects Structures Local Assistance
- Kevin Flora, Structures Maintenance and Investigations
- Tony Nedwick, Structure Hydraulics and Hydrology