

## BRIDGE DESIGN BULLETIN 2018-1

TO: All Bridge Designers

FROM: David L. Eberhart, P.E.  
State Bridge Engineer

CC: Chad Matty (Federal Highway Administration)

DATE: February 28, 2018

RE: ADOT Bridge Group Standard Drawings (SD 1: Railings Series)

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### Purpose

The purpose of this memorandum is to update ADOT's Bridge Group Standard Drawings SD 1.01, SD 1.02, and SD 1.06. Standard Drawing SD 1.03 will no longer be used, and will be relocated under the Historical Standards for archiving purposes.

### Implementation

All permanent roadway concrete barrier and guardrail components on ADOT construction projects advertised after December 31, 2017 must be Manual for Assessing Safety Hardware (MASH) compliant. As a result of changes to ADOT Roadway Group Standard Drawing C-10.30 (Guardrail Transition to Concrete Barrier, Timber Post), and the addition of Standard Drawing C-10.31 (Guardrail Transition to Concrete Barrier, Steel Post), changes needed to be made to Bridge Group Standard Drawings noted above. The changes include:

- 1) - Location of Thrie-Beam terminal connector bolt-thru holes.
- 2) – Removing reference to SD 1.03 and replacing with reference to see Roadway Standards for Thrie-Beam details.

On guardrail retrofit projects, where the bridge concrete barriers have been identified to remain; designers are encouraged to add a note on the design plans to address grouting of the existing bolt holes.

As a result of the changes, the quantity for Thrie Beam Guard Rail Transition System (Item No. 9050430) will no longer be tabulated under Bridges/Structures quantities; instead, it will be part of the Roadway items.