



**Arizona Department of Transportation**  
**Intermodal Transportation Division**  
**Roadway Engineering Group**

**MEMORANDUM**

**To:** All Users of the Roadway Construction Standard Drawings

**Date:** 21 May 2007

**From:** Mary Viparina  
Assistant State Engineer  
Roadway Engineering Group

**Subject:** C-Standards New Edition

The Roadway Construction Standard Drawings (C-Stds) have been revised and updated, and printed as a new, complete set. Users should obtain the new Construction Standard Drawings (May 2007 cover) from Engineering Records. The new edition has both format and engineering changes. The format change is the most obvious and affects all of the drawings. This change is as follows and is not noted individually in the revision block:

The drawings font size and style, and lines now conform to the ADOT CADD guidelines. Information is contained on the same levels as those prescribed for plan sheets.

Some of the significant engineering changes from the October 2004 edition are the following:

- C-01.10, Sht 1 of 4: changed the order of the various boundary and jurisdictional lines
- C-02.20 and C-02.30: changed the steepest allowable slope for 1-1/2:1 to 2:1
- C-04.10, Sht 2 of 2: new drawing for double inlet in sag condition
- C-04.20, Sht 2 of 2: new drawing for double inlet in sag condition
- C-04.30 and C-04.40: revised tables as a result of slope changes in C-02.20 and C-02.30, and guidance on spillway and downdrain usage from the RDG
- C-05.10: added General Note 7 reading, "Place AB under single curb, valley gutter, and curb & gutter when shown on plans."
- C-05.20, Sht 1 of 2: added General Note 5 reading, "Place AB under driveways when shown on plans."
- C-05.20, Sht 2 of 2: added General Note 5 reading, "Place AB under sidewalks when shown on plans."
- C-05.30, Sht 1 of 7: changed slope rate in Sections A-A and C-C to 15:1; changed maximum ramp length at 15:1 slope to 15 feet
- C-05.30, Shts 2 – 5 of 7: changed maximum ramp length at 15:1 slope to 15 feet
- C-07.02: revised General Note 1 to read, "Load transfer dowel assemblies shall be used with non-skewed, mainline PCCP joints"
- C-10.00: revised graphics to match Bridge Group's Transition, SD 1.03; thrie-beam approach and departure transitions are now the same
- C-10.30, Sht 2 of 2: added anchor hardware drawings formerly shown on concrete barrier transition drawings
- C-10.32: deleted
- C-10.54 and C-10.55, Shts 1 & 2 of 3: added concrete cap to Section A-A; revised General Note 3 to read, "Longitudinal rebar shall extend 12" past the construction joint at the completion of each incremental pour."
- C-10.70, C-10.71, C-10.72, and C-10.73: removed Thrie-Beam Guardrail Transition System hardware details and added references to Std Dwg C-10.30
- C-11.10, Shts 1 – 4 of 4: re-issued drawing with additional sheet detailing the clamp
- C-18.10, Sht 1 of 3: added "NOTE TO DESIGNERS" reading, "Per OSHA requirements, special treatments are required for heights exceeding 30 ft."

Design personnel should incorporate the new edition of the C-Stds into their project plans. For projects at or near completion, where the inclusion of all new standard drawings is not practical, the 1A Sheet must accurately reflect the drawings' correct revision date. Construction personnel should review the drawing revisions for possible implementation on construction projects.

Please arrange for additional copies of the new C-Stds for all users within your Group or District. Additional copies (8-1/2" x 11" or 11" x 17") may be obtained from Engineering Records located at 1655 West Jackson, Room 175, Phoenix, AZ 85007-3217 or by telephoning 602-712-8216.

An updated List of Standards (1A Sheet) is available either from the Roadway Support Desk (602-712-8667 or 602-712-8491) or on-line at the Roadway Design web site at the following address:   
<http://www.azdot.gov/Highways/Rdwyeng/RoadwayDesign/Index.asp>

Updated Summary Sheets are also available on-line at the address shown above.

Please distribute this memorandum to all design personnel, project managers, consultants, and other users in your respective Group, District, or Section.

Please direct questions regarding this memo or the updated standards to Kenneth Cooper, P.E., Roadway Standards Engineer, at 602-712-8674.

MAV/KRC/krc

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