



ARIZONA DEPARTMENT OF TRANSPORTATION * MATERIALS SECTION

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CHANGE LETTER

MATERIALS TESTING MANUAL	CHANGE LETTER NO. 12
SUBJECT: Distribution Memo; Table of Contents; Introduction; Changes in the Materials Testing Manual; All Cover Sheets; AASHTO T 22, T 33, M 31, T 50, T 53, T 55, T 96, T 102, T 126, T187, T 244, T 246, and T 247; ASTM D 1850, D 1851 and D 3583; ARIZ 236, 237, 239, 241, 314, 415, 416, 417, 806, and Section 900.	DATE OF ISSUE: December 1987 EFFECTIVE DATE: December 1987

SUMMARY:

1. Attached is a "Distribution Memo" to manual holders regarding distribution and revision to the testing manual. This supersedes all previous distribution memos for this manual.
2. The "Table of Contents" has been revised to reflect the changes contained herein.
3. The revised "Introduction" to the testing manual is attached.
4. Attached is revised information which outlines the procedure and an example for "Changes in the Materials Testing Manual".
5. All "Section Cover Sheets" have been revised by only showing either the applicable AASHTO or ASTM Test Method. The following changes were also made on individual cover sheets:

a) Section 100 - "Sampling".

Added note following AASHTO T 2, referencing AASHTO T 2 as being supplemental to ARIZ 105.

b) Section 200 - "Soils and Aggregates".

Added AASHTO T 96 "Resistance to Abrasion of Small Size Coarse Aggregate by Use of the Los Angeles Machine", which was inadvertently left off the July 1985 Revision. Reference to AASHTO T 125 corrected to AASHTO T 135.

c) Section 300 - "Concrete".

Removed AASHTO T 22 due to the issuance of ARIZ 314, which is a modification of AASHTO T 22.
Added AASHTO T 126, "Making and Curing Concrete Test Specimens in the Laboratory".

d) Section 400 - "Bituminous Mixtures".

Added note following AASHTO T 110 referencing the use of ARIZ 406 for determining Moisture in Bituminous Mixtures.

e) Section 500 - "Bituminous Materials".

Removed AASHTO T 50, T 53, T 55, and T 102.

f) Section 700 - "Chemical and Speciality".

Removed AASHTO T 33. Removed AASHTO M 31, and added AASHTO T 244, "Mechanical Testing of Steel Products". Changed ASTM D 1850 to ASTM D 1851. Removed AASHTO T 187, and added ASTM D 3583, "Testing of Hot Applied Joint Sealants".

g) Section 800 - "Design".

The Cover Sheet for this section, which includes AASHTO T 246 and T 247, is to be deleted from the Testing Manual.

6. ARIZ 236a - "Determining pH and Minimum Resistivity of Soils and Aggregates".

Changed Title, all Sections, and Figure 1.

7. ARIZ 237a - "Determining pH and Soluble Salts of Soils".

Changed all Sections, except Section 1.

8. ARIZ 239 - "Determination of Coating Index for Coarse Aggregates".

This new test method supersedes all previous tentative methods that have been distributed under this number.

9. ARIZ 241a - "Compressive Strength of Molded Cement Treated Base or Soil-Cement Specimens".

Changed all Sections.

10. ARIZ 314 - "Compressive Strength of Cylindrical Concrete Specimens".

New test method which replaces AASHTO T 22. This method is the same as AASHTO T 22 except also allows the use of neoprene caps for 4" diameter x 8" specimens.

11. ARIZ 415b - "Bulk Specific Gravity of Compacted Bituminous Mixtures.

Changed all Sections, except Section 1.

12. ARIZ 416b - "Testing Field Samples of Asphaltic Concrete".

Changed Sections 3, 5, and 9. Changed Figure 5.

13. ARIZ 417b - "Maximum Theoretical Specific Gravity of Field Produced Bituminous Mixtures (Rice Test)".


Changed all Sections, except Section 3. Changed Figure 1, added Figure 2.

14. ARIZ 806e - "Maximum Theoretical Specific Gravity of Laboratory Prepared Bituminous Mixtures (Rice Test)".

Changed all Sections, except Sections 1 and 3. Changed Figure 1. This test method contains revisions to the calculations for the determination of the maximum specific gravity of the bituminous mixture and for the effective specific gravity of aggregate which differ from those shown in ARIZ 815. In the future ARIZ 815 will be changed to reflect these changes, but in the interim period the calculations shall be performed as shown in ARIZ 806e.

15. Section 900 - "Sampling Guide Schedule".

The Sampling Guide Schedule has been revised in its entirety, including the "Report of Independent Assurance Sampling and Testing" form.



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Attachments