

**AASHTO Update
NCC
San Diego, CA
April 2026**

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Mark E. Felag, PE, LLC**

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Agenda

HM-45 - 2025 Updates

HM-46 - 2025/2026 Ballots

NCHRP Research Projects

NCHRP Synthesis Projects



2025 Overview

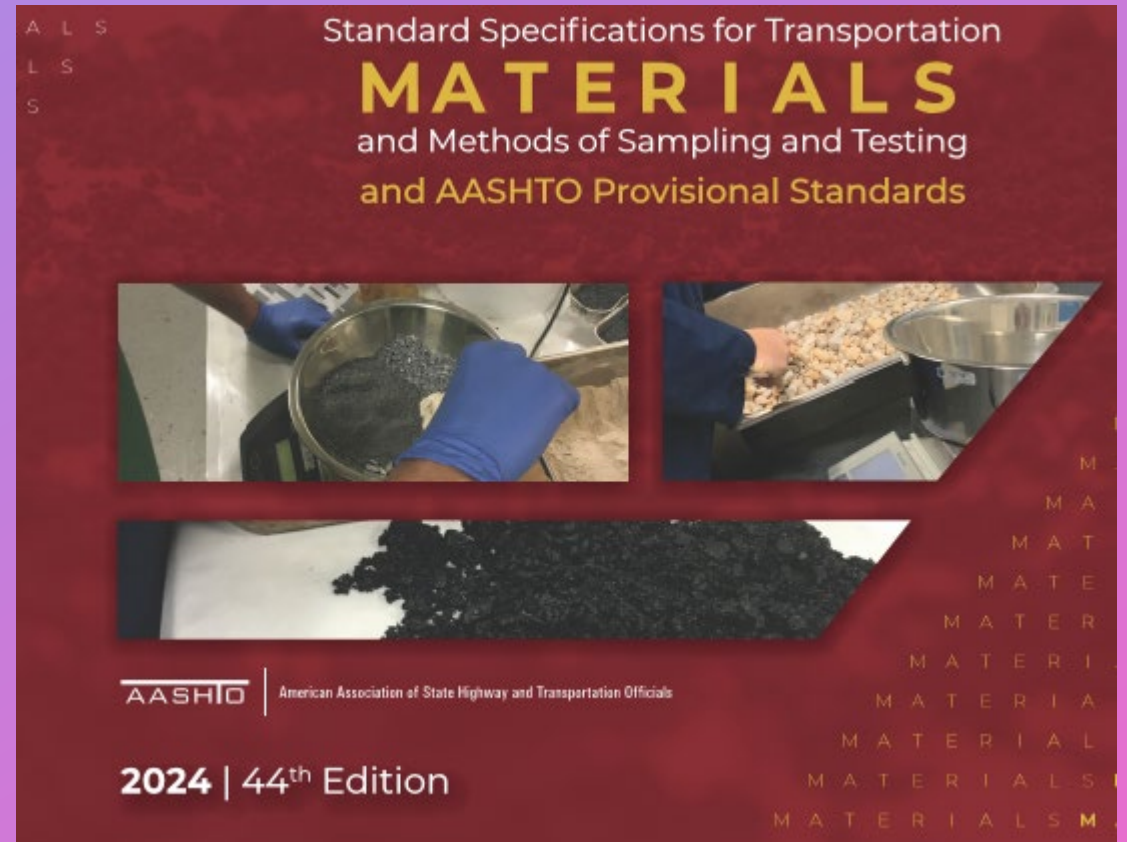
HM-45

Released July 31, 2025

583 Standards

Revised 103 Standards

20 New Standards



COMP

5 Divisions

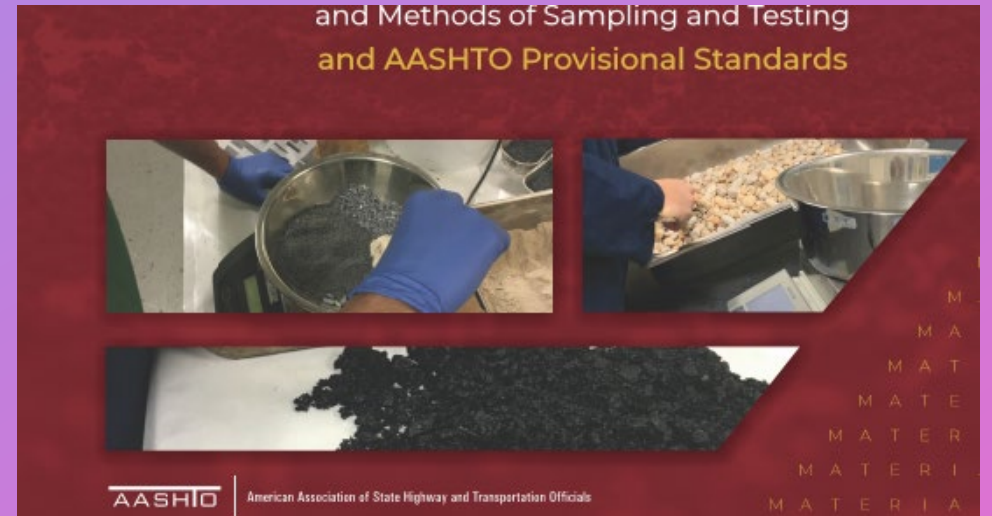
1 - Soils and Aggregates

2 - Asphalt

3 - Cement and Concrete

4 - Miscellaneous - Pipe, Markers, Bearings, Geo

5 - Pavement, Environmental and Quality



TS 1c – Aggregates

T 416 - Determination of Alkali Threshold for Alkali-Silica Reactivity Used in Concrete (ATT) - 2025 Revisions for Clarity

TP 144 - Determining the Potential Alkali-Silica Reactivity for Aggregates (TFHRC - TFAST) - 2025 Revisions for Clarity

2025 3a Cement Task Forces

TF 09-01 – Task Force on Harmonization of Cement Standards

M 85 - Portland Cement

M 240 - Blended Cement - Alkali reporting

**M 327 - Processing Additions - Removes requirement
to use sulfur capping**

2025 3a Cement Task Force

Task Force on Harmonization of Fly Ash, Etc. Standards

**M 295 - Coal Ash and Raw or Calcined Natural
Pozzolan - Limits on LOI for coal ash**

M 302 - Slag Cement

M 307 - Silica Fume

M 321 - High-Reactive Pozzolans

2025 TS 3c - Guide for Reduction of Embodied Carbon Content of Portland Cement Concrete

Published by the CP Tech Center in March 2024

Published by AASHTO in 2025

TS 3c – R 101 – Developing Performance Engineered Concrete Pavement Mixtures

Mostly in Tables and corresponding references to them.

Editorials such as updating standards from provisional to full, or renumbering, etc., have been done.

TS 4f – Metals

Two New Provisionals

MP 49 – Specification for Dowel Bars

TP 146 – Test Method for Dowel Bars

TS 5c – R 122 – Quality Assurance of Portland Cement Concrete

Functions and Responsibilities

CMD

QC

Agency Acceptance

IA – R 44

Dispute Resolution

Evaluation of Rejected Concrete

Measurement and Payment

TS 5d - Pavements

Late 2026 - Updates to the MEPDG - MOP and AASHTOWare Pavement ME Design, Version 4.0 along with training

TS 5d - Pavements

**Early 2026 - Pavement Design, Construction, and
Management - 2nd Edition**

2026 Upcoming Good Stuff

All have passed TS and COMP ballot

Handoffs by TS Chairs and now in Certification Stage

2026 – Division 3 TS 3a - Cement

**T 98M/98 Fineness of Portland Cement
by the Turbidimeter - Withdrawal**



2026 3b Fresh Concrete



**M 157 - Ready Mixed Concrete - Flex. in Sampling
Locations**

**R 100M/R 100 Casting and Curing Concrete Strength Test
Specimens in the Field - Minor Edits**

2026 3b Fresh Concrete



T 345 Passing Ability of Self-Consolidating Concrete (SCC) by J-Ring

T 347 - Slump Flow of Self-Consolidating Concrete (SCC)

- Clarification to measurement of slump flow diameter

2026 TS 3c – Hardened Concrete

R 80 – ASR Standard – NCHRP Edits

R 80 – ASR Standard – TFHRC Edits – TFAST (TP 144) and ATT (T 416) - Appendix and Examples

T 380 – MCPT – Updates

Alkali–Silica Reactivity Potential and Mitigation - NCHRP RR 1083

Thano Drimalas
Kevin J. Folliard
UNIVERSITY OF TEXAS
Austin, TX

JASON H. IDEKER
Anuj Parashar
OREGON STATE UNIVERSITY
Corvallis, OR

Michael D. A. Thomas
Ardalan Ghanizadeh
Ashlee M. Hossack
UNIVERSITY OF NEW BRUNSWICK
Fredericton, NB

Benoit Fournier
LAVAL UNIVERSITY
Quebec City, QC



TFHRC ASR Work

Appendix (non-mandatory) for

TP 144 - Determining the Potential Alkali–Silica Reactivity of Aggregates (TFHRC-TFAST)

T 416 - Determination of Alkali Threshold for Alkali–Silica Reactivity in Aggregates Used in Concrete (ATT)

RI = reactivity index; Si = silicon.



2026 TS 3c – Hardened Concrete

TF 24-01 - ASR - Still Active

2026 TS 3c – Hardened Concrete

T 357 - Predicting Cl Penetration of PCC by Rapid Migration Procedure

Addition of Method B to follow a European test method to determine a migration coefficient that is widely used and accepted.

2026 TS 3c – Hardened Concrete

Updates to Resistivity Standards

T 358 (Surface) and T 402 (Bulk) - Thermometer and Temp

T 402 - Testing air temp consistent with T 358

T 358 - Edits to Accelerated Curing

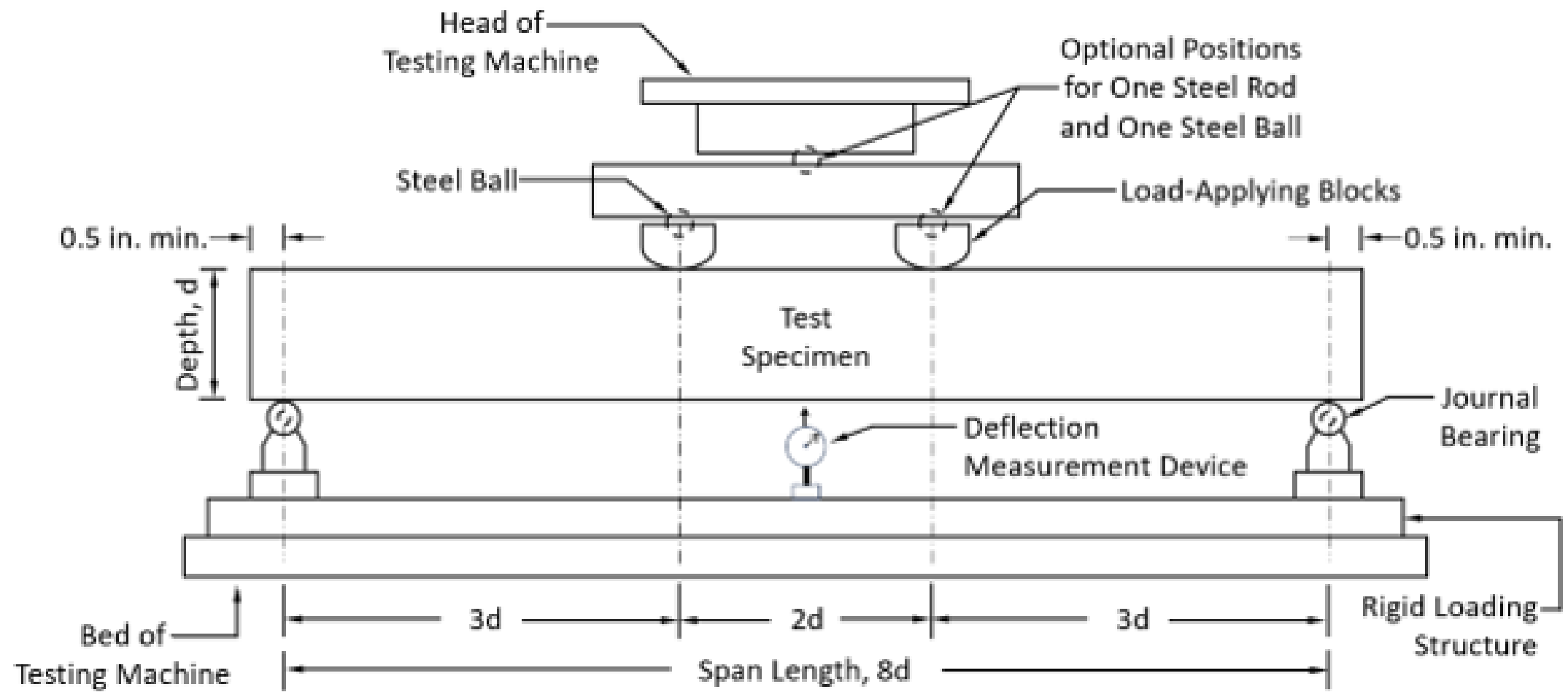
- **Allowance for automated systems**
- **Clarified analysis and reporting**
- **Clarified ranges of classification in 'data interpretation'**

2026 TS 3c – Hardened Concrete

New Standard - T 425M/T 425

Flexural Response of Ultra-High Performance Concrete (UHPC) Prisms in Four-Point Bending

Tanarat Posituk - OR DOT and Ben Grarybeal - FHWA



2026 TS 3c – Hardened Concrete

New Standard - T 426M/T 426

**Autogenous and Total Shrinkage Strain of Paste, Mortar,
and Concrete with the Plastic-Sleeve Test Method**

Anton Schindler - Auburn and Kevin Folliard - UTexas



TRB Projects and Studies



TRB TRID

(Transport Research International
Documentation)



NCHRP Projects Research Field 18 Concrete Materials



[NCHRP 18-21](#) Utilization of Alternative Supplementary Cementitious Materials in Highway Applications

[NCHRP 18-22](#) Concrete Shrinkage Measurement and Cracking Mitigation

18-21 Active - 6/2/25-9/3/28 - \$750,000 - U of FL

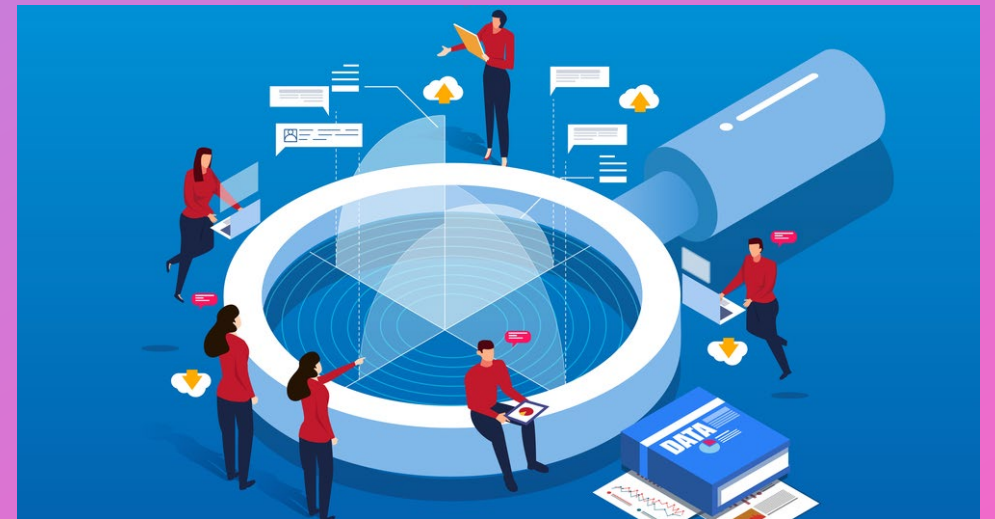
18-22 Pending - 36 months - \$600,000

NCHRP FY 27

COMP sent 4 to NCHRP

None in cement or concrete

April meeting to choose projects



NCHRP Synthesis Projects



Synthesis 638 - Testing Personnel Certifications –

Published – Georgene Geary and Desna Bergold

Thank you so much for your time!

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