



9/28/2026

Materials and Tests Division

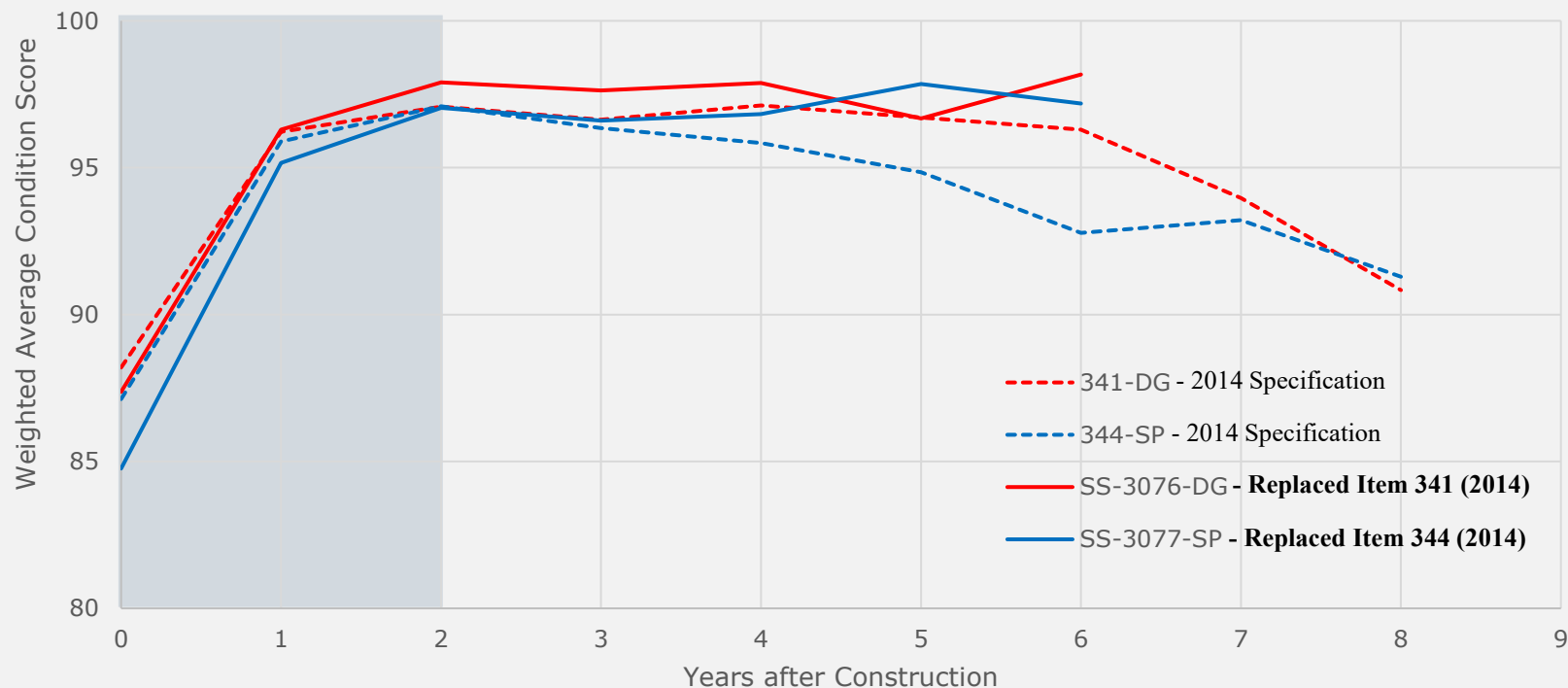
TXAPA Annual Meeting

Ryan Barborak, P.E.

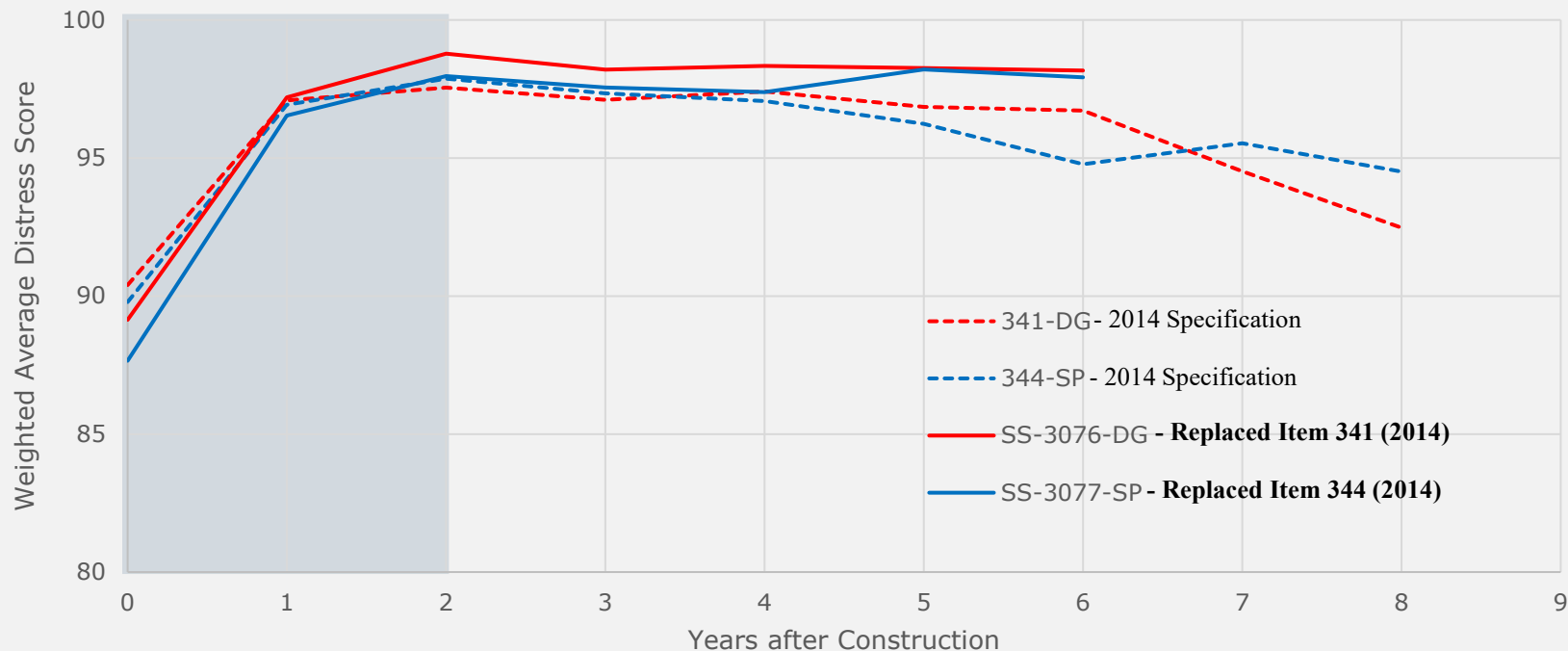
2014 Specifications Vs. Special Specifications

- Partnership with industry, districts, and FHWA
- Replaced Items 341 and 344 with Special Specifications 3076 and 3077
- Implemented beginning with the February 2020 letting
- 73 changes in each specification (materials, construction, measurement, and payment)
- Foundation for the 2024 HMA Specifications

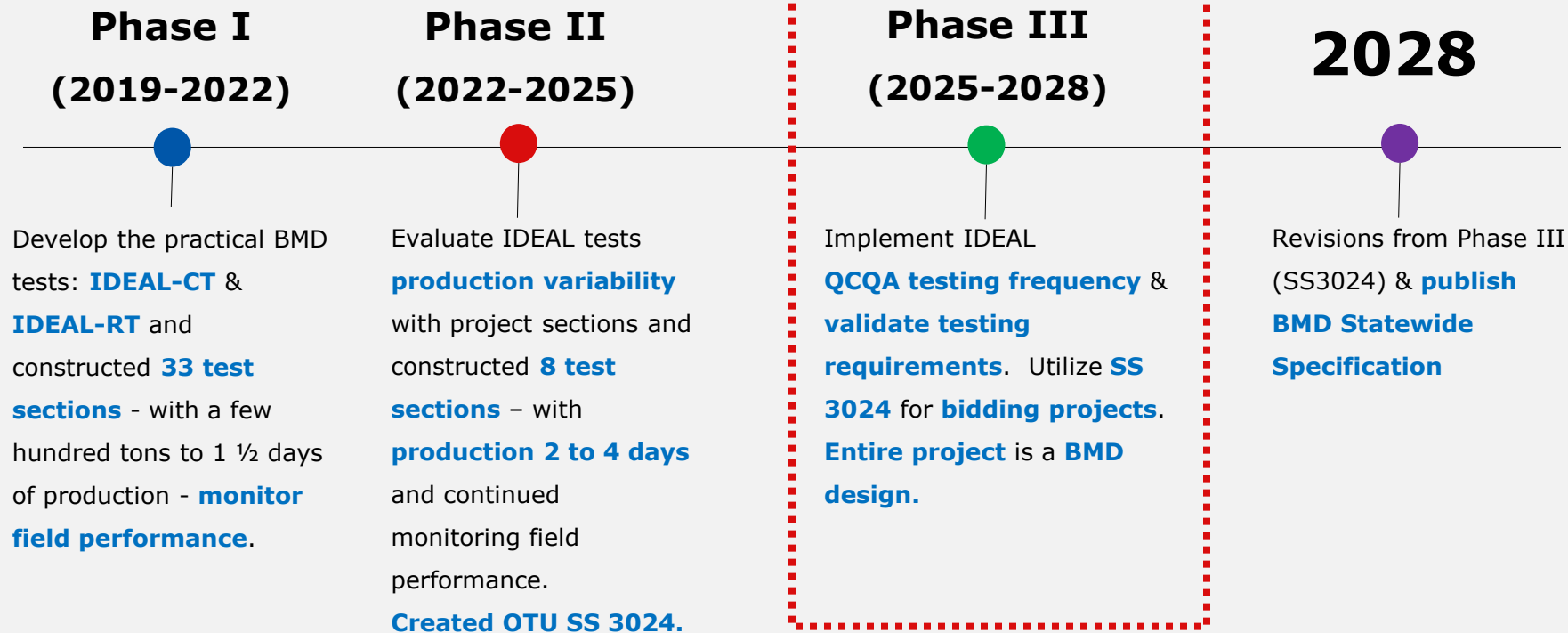
Weighted Average Condition Score



Weighted Average Distress Score



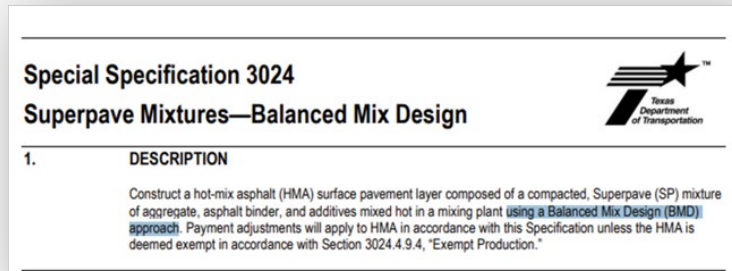
TxDOT's BMD Development Timeline (2019 to Present)



Construction of field projects and performance monitoring in all phases

SS3024, Superpave Mixtures- BMD

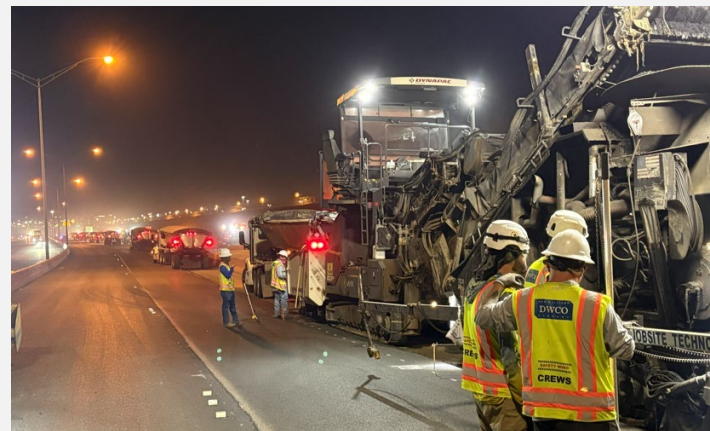
- OTU Special Spec for pilot projects
 - Published December 2025
 - Project letting with BMD specification
 - Verification of testing frequency
 - Production between 10,000 and 20,000 tons with all HMA being placed with the specification
 - Gather data for next spec iteration
 - Statewide BMD Specification in 2028



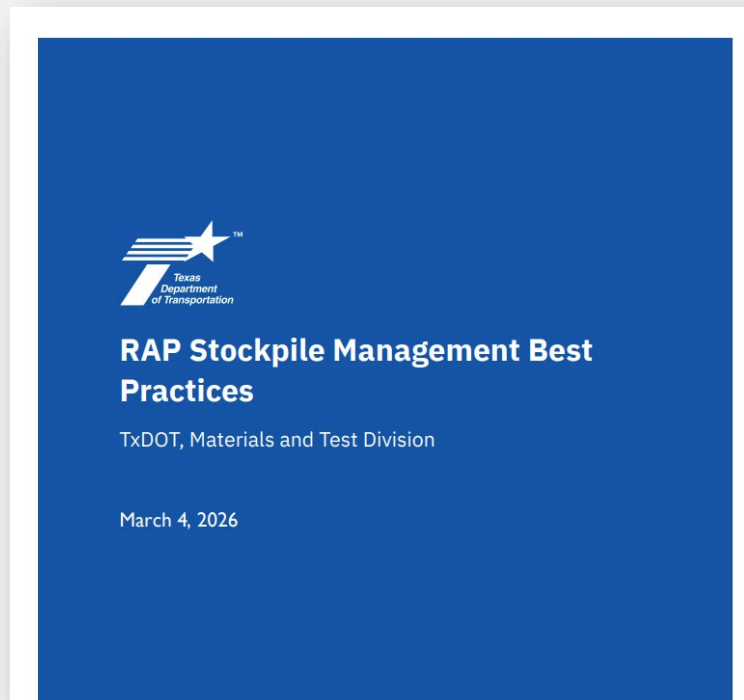
District	Road	Letting	Construction
El Paso	SL 375	2/2026	8/2026
Lufkin	US 259	5/2026	9/2026
Austin	FM 1331	9/2026	TBD
Beaumont	SH 124	1/2028	TBD

El Paso BMD Pilot Project

- CSJ 2552-04-059, SL375, El Paso Co.
- 2" Mill and Inlay BMD SP-C SAC-A PG 70-22
- Approximately 6,000 tons produced
- Target Lab Molded Density = 96.5%
- AC Target = 5.0%
- 35% RAP / 26.6% RBR
- OT: CFE 2.7, CPR 0.3, and 1000 cycles
- HWT: 15000 passes @ 5 mm



Development of Best Practices



- Collaboration of industry and districts in the development of best practices
- RAP Stockpile Management Best Practices
 - Eliminate Contamination
 - Blend Before Processing
 - Process and Fractionate RAP
 - Testing and Quality Control
 - Production Operations

Test Methods

- Tex-222-F, Sampling Bituminous Mixtures (*major update*)
- Tex-255-F, Measuring Temperature of Bituminous Mixtures (*pending final approval*)
- Tex-554-C, Low Temperature DSR Test (*published*)
- Tex-555-C, Vacuum Oven Residue Test (*published*)

SMART Track – Accelerated Test Bed (ATB)



- Length: 0.62 miles
- Segments: 15 - 200-foot each
- 4.5M ESALs per year w/ $\sim$ 0.5 million passes per year
- 90% PS&E is complete; early October bid
- Construction early 2027; operation late 2027
- Steering committee composed of industry, districts, and divisions
- Friction, high-performance, and RAP

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