

Memorandum

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a California Way of Life.*

To: DEPUTY DISTRICT DIRECTORS, Construction
DEPUTY DIVISION CHIEF, Structure Construction
CONSTRUCTION MANAGERS
SENIOR CONSTRUCTION ENGINEERS
RESIDENT ENGINEERS

Date: June 25, 2021

File: Division of Construction
CPD 21-13



From: RAMON HOPKINS, Chief
Division of Construction

Subject: **NEW INERTIAL PROFILE SMOOTHNESS LEAVE-OUT**

This directive provides resident engineers with guidance for administration of an update to the smoothness specifications for hot mix asphalt (HMA) pavements placed using a single opportunity and for issuance of a no cost change order to add the specification to existing contracts when requested by the contractor.

The specification change adds an item to the list of locations where HMA pavement smoothness will be evaluated using a 12-foot straightedge instead of an inertial profiler. The software, ProVAL, used to evaluate inertial profiles, refers to these locations as "leave-outs."

Determining if any locations qualify as additional leave-outs requires an evaluation of the baseline profile after smoothing it using a 30-foot moving average filter. If the artificially smoothed baseline profile has areas of localized roughness exceeding 160 inches per mile, a leave-out is added that extends 20 feet before and after those areas of localized roughness.

This additional leave-out provision addresses the challenges of achieving inertial profile specification thresholds where HMA is placed with one opportunity on a surface that has wavelength, such as bumps or dips, longer than 30 feet. For additional details on this leave-out provision, refer to the attached document "Administering the 30-foot Moving Average Low Pass Filter Leave-out."

Also attached to this directive are a sample change order memorandum and sample change order. This directive serves as delegation of authority from the Division of Construction for change order approval, except when change order language is altered. Consult your oversight agreement to determine whether Federal Highway Administration concurrence is required.

DEPUTY DISTRICT DIRECTORS, Construction et al.

June 25, 2021

Page 2 of 2

If you have questions or comments regarding this construction procedure directive, please contact Pete Spector, Division of Construction, at Pete.Spector@dot.ca.gov or (916) 764-8696.

Attachments:

1. Sample Form CEM-4903, "Change Order Memorandum"
2. Sample Form CEM-4900, "Change Order"
3. "Administering the 30-foot Moving Average Low Pass Filter Leave-out"