

IMPLEMENTATION PLAN FOR DIME STATEWIDE ROLLOUT



STATEMENT OF EFFORT: Caltrans METS developed the Data Interchange for Materials Engineering (DIME) which is a centralized, web-based database that allows Caltrans staff and contractors to submit material sample and test data for Caltrans projects and programs. DIME's material testing database can be leveraged to drive enhanced engineering material acceptance decisions. DIME improves the efficiency of time and resources in project delivery, accelerating project completion by eliminating delays in delivering essential project information. METS has developed a statewide implementation plan to require Caltrans staff to adopt DIME into their workflow beginning January 1, 2023 for all on-going and existing construction contracts.

GOAL: Require all state staff to input material sample and test data into DIME.

IMPLEMENTATION: Caltrans staff will be required to input material samples and test data into DIME for the following materials and quality characteristics:

Quality Characteristic	Test Method	Material Type
Gradation	AASHTO T 27	Type A HMA and RHMA-G
Asphalt Binder Content (%)	AASHTO T 308 Method A	
Air Voids Content at N_{design} (%)	AASHTO T 269	
Density of Core (% of max theoretical density)	AASHTO T 275 Method A AASHTO T 209 Method A	
Slump	ASTM C143/C143M	
Air Content ^a	California Test 504/ASTM C231/C231M	Concrete
Temperature	California Test 557/ASTM C1064/C1064M	
Density	California Test 518/ASTM C138	
Compressive Strength	California Test 521/ASTM C39/C39M	

^a Use ASTM C173/173M for lightweight concrete

PROPOSED IMPLEMENTATION SCHEDULE:

- DIME Implementation Plan (08/2022)
- Construction Procedure Directive for DIME Statewide Rollout (10/2022)
- DIME Training and Outreach (11/2022)
 - DIME Office Hours: Occurs every other Tuesday from 2:00-3:00 PM starting November 1, 2022. The first DIME Office Hours will consist of a DIME Webinar.
- DIME Statewide Rollout (01/2023)
- Quarterly DIME Compliance Reports (03/2023)

RESPONSIBILITIES:

- Resident Engineer (RE) / Structures Representative (SR): Directs Caltrans staff to input material samples and test data from field tests into DIME.
- Organization Manager: Registers for a DIME organization account. Assigns tests and manages users for their organization. Directs staff to input sample and test records into DIME.
- Material Sampler: Creates sample records in DIME.
- Material Tester: Creates, reviews, and publishes¹ test records in DIME.

¹ Depending on role in the DIME Organization

RESOURCES:

- Data Interchange for Materials Engineering (DIME): <https://dime.dot.ca.gov/>
- DIME Administrator: dime@dot.ca.gov
- Contract administration questions: raguparan.thangavelautham@dot.ca.gov
- METS Representative List: <https://mets.dot.ca.gov/metsrepresentatives.php>
- DIME Instructional Videos: <https://dime.dot.ca.gov/index.php?r=site/instructions>
- DIME One-Pager: <https://dime.dot.ca.gov/index.php?r=site/resources>
- DIME User Feedback Form: <https://dime.dot.ca.gov/index.php?r=site/userfeedbackform>
- DIME Office Hours: <https://tinyurl.com/mvt3p584>



"To provide a safe, sustainable, integrated, and efficient transportation network that serves all people and respects the environment."

