STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT (HMA) PLACEMENT REPORT

CEM-3502 (NEW 07/2008)

PROJECT INFORMATION

CONTRACT NUMBER	DATE	INSPECTOR

CO/RTE/PM	CONTRACTOR	PAVING SUBCONTRACTOR	HMA PRODUCER
BEGIN TIME	END TIME	PAVING FOREMAN	JMF NUMBER

Note: Use 24 hr. clock throughout form

WEATHER

☐ Clear ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Breezy ☐ Windy

CONSTRUCTION PROCESS

☐ Method ☐ Standard ☐ QC/QA

LOCATION	LOT NO.
STATIONS	SUBLOTS

LIFT _____ Lift Thickness: ☐ < 0.15* ☐ 0.15 - 0.25 ☐ > 0.25 ☐ Production Start Up Evaluation

* For Standard, QC/QA construction process, when the thickness is less than 0.15 ft, use compaction requirement for Method construction process.

HOT MIX ASPHALT

HMA Type: ☐ A ☐ B ☐ OGFC ☐ RHMA | Binder Type: ☐ Modified ☐ Unmodified

TACK COAT

TYPE OF TACK COAT*	TACK COAT TEMPERATURE	TACK COAT APPLICATION RATE	☐ Tack Coat Broken ☐ Certificate of Compliance
TACK COAT SUPPLIER	TACK COAT DILLUTION	TACK COAT SAMPLE IDENTIFICATION CARD NUMBER	

* See Section 39-1.09C, "Tack Coat," of the *Standard Specifications*

GEOSYNTHETIC, PAVEMENT INTERLAYER

TYPE OF GEOSYNTHETIC	☐ Certificate of Compliance
GEOSYNTHETIC MANUFACTURER	GEOSYNTHETIC SAMPLE IDENTIFICATION CARD NUMBER

REMARKS

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SPREADING

SPECIFICATION REQUIREMENTS	Minimum Atmospheric Temp. _____ °F	Minimum Surface Temp. _____ °F	Theoretical* Spread Rate _____ (lbs./yd.²)	Spread Rate > +/- 5%
TIME	Atmospheric Temp. _____ °F	Surface Temp. _____ °F	Actual** Spread Rate* _____ (lbs./yd.²)	% Difference Actual vs. Theoretical Spread Rate*** _____ %
TIME	Atmospheric Temp. _____ °F	Surface Temp. _____ °F	Actual** Spread Rate* _____ (lbs./yd.²)	% Difference Actual vs. Theoretical Spread Rate*** _____ %
TIME	Atmospheric Temp. _____ °F	Surface Temp. _____ °F	Actual** Spread Rate* _____ (lbs./yd.²)	% Difference Actual vs. Theoretical Spread Rate*** _____ %
TIME	Atmospheric Temp. _____ °F	Surface Temp. _____ °F	Actual** Spread Rate* _____ (lbs./yd.²)	% Difference Actual vs. Theoretical Spread Rate*** _____ %
TIME	Atmospheric Temp. _____ °F	Surface Temp. _____ °F	Actual** Spread Rate* _____ (lbs./yd.²)	% Difference Actual vs. Theoretical Spread Rate*** _____ %
TIME	Atmospheric Temp. _____ °F	Surface Temp. _____ °F	Actual** Spread Rate* _____ (lbs./yd.²)	% Difference Actual vs. Theoretical Spread Rate*** _____ %

* Spread rate (lb/square yd) = Designed thickness*Maximum Specific Gravity from mix*43.3
** Actual Spread Rate (lb/square yard) = HMA Weight (ton)/(length*width*2000).
*** % Difference Actual vs. Theoretical = (Actual Spread Rate - Theoretical Spread Rate)*100/(Theoretical)
Compare actual vs. theoretic HMA spread rate. If % Difference > +/- 5%, notify Engineer

SAMPLING*

Time	Sublot Number	Random Simple Milestone** (Tons)	Sample Total Tons HMA Placed (Tons)	Location / Station	Sample Identification Card (TL-0101) Card Number

* *Construction Manual,* Table 6-1.6, "Hot Mix Asphalt Materials Acceptance," requires Hot Mix Asphalt random samples for every 750 tons.
** Follow random sampling instructions for determining sampling milestones. Instructions for SAMPLING are on the last page of this form.

REMARKS

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METHOD COMPACTION

☐ Appropriate Number of Rollers Per Section 39-3.03, "Spreading and Compacting Equipment," of *Standard Specifications*

SPECIFICATION REQUIREMENTS	Minimum 1st Breakdown Compaction Temp. _____ °F	Minimum Breakdown and Intermediate Compaction Temp. _____ °F	Minimum Finish Compaction Temp. _____ °F
TIME	1st Breakdown Compaction Temp. _____ °F	Breakdown and Intermediate Compaction Temp. _____ °F	Finish Compaction Temp. _____ °F
TIME	1st Breakdown Compaction Temp. _____ °F	Breakdown and Intermediate Compaction Temp. _____ °F	Finish Compaction Temp. _____ °F
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TIME	1st Breakdown Compaction Temp. _____ °F	Breakdown and Intermediate Compaction Temp. _____ °F	Finish Compaction Temp. _____ °F

See section 39-3.04, "Transporting, Spreading, and Compacting," of the *Standard Specifications*
For Standard and QC/QA process projects use this section for documenting temperatures for information only. Contractor must comply with finish compaction temperature.

FINAL COMPACTION

For Standard & QC/QA Construction Process Projects:

Total Tons HMA Placed / 250 Tons = No. of Cores Needed: _____

Cores Taken? ☐ Yes ☐ No No. of Cores Taken? _____

SMOOTHNESS

Surface Checked with Straightedge?	☐ Yes	☐ No	☐ Meets Straightedge Requirement
Profilograph Must-Grind?	☐ Yes	☐ No	☐ Meets Must-Grind
Profilograph PI_o ?	☐ Yes	☐ No	☐ Meets PI_o

* See Section 39-1.12, "Smoothness," of the *Standard Specifications*

COMPLIANCE

Non-Compliance	Corrective Action	Remediation

REMARKS

PAVING INSPECTOR'S SIGNATURE	TITLE	DATE

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HOT MIX ASPHALT PLACEMENT REPORT - INSTRUCTIONS

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Random Sampling Instructions

For Method and Standard process projects, the specified lot size is the total quantity of HMA to be placed for the project. A lot is defined by a single accepted JMF. For QC/QA, the lot must be terminated if the JMF is changed, 20 sublots are completed, or if the production quality factors do not meet standards specified in the contract.

Specified lot size = 5,250 ton (per Engineers estimate)
Hot mix asphalt samples are required at a frequency of 1 for every 750 tons

1. Using the Random Number Table, randomly select a block of numbers *(Note: ASTM D 3665 provides random number tables).*

2. Multiply the random number by the sublot quantity.

3. Add this value to the sublot factor to determine the first sampling milestone *(Tons of production at which a sample will be taken).*

4. Continue this process for additional samples as required. Return to step 1 if lot is terminated and a new lot is begun.

The following is an example:

Lot Number	Sublot Number	Random Number (a)	Sublot Quantity (b)	Sublot Factor (c)	MILESTONE (Tons) (a) X (b) + (c)
1	1	.31	750	0	233
1	2	.12	750	750	840
1	3	.29	750	1500	1718
1	4	.86	750	2250	2895
1	5	.14	750	3000	3105
1	6	.74	750	3750	4205
1	7	.53	750	4500	4898