Agency: _____ Project Number: _____

Date: _____ Project Name: _____

MGPEC Form # 9 (11-24-2008)

• Mixture Design Requirements for Hot Mix Asphalt Pavements (HMA)

• Project Special Provision Sheet for Hot Mix Asphalt Pavements (HMA)

This MGPEC Form #9 is a **mandatory part of the bid documents**, and → shall be filled out by the AGENCY for each mix specified. The Contractor shall include a copy of this form with each Mix Design submittal after the contract is awarded.

Street Classification: _____
(examples: Residential, Collector, Arterial, Industrial, Parking Lot or actual name for Project)

→ Construction Application: ❑ Top Lift ❑ Intermediate Lift(s) ❑ Bottom Lift
❑ Patching ❑ Other_____

→ Aggregate Gradation:
❑ Grading SX (2.5" or less lifts)
❑ Grading S (2.5+" to 3.5" lifts)
❑ Grading SG (3.5" or thicker lifts) - for lower lift(s) only, may need approval of surface texture by Agency
❑ SMA (Top lift only)
The SMA gradation for this project shall be _____

→ RAP Quantity, Maximum: ❑ 0% ❑ 15% ❑ 20% ❑ 25%

Notes:
- A quality control plan for RAP will be required when RAP is used
- Top lift Maximum RAP content allowed is 20%

→ Superpave Gyratory Mix Design Compaction Level, Recommended usage and Recommend binder(s):

Design Level	Recommended Traffic Levels	Recommended PG Binder(s)
❑ N_{design}=50	Low volume	❑ PG 58-28 or ❑ PG 64-22
❑ N_{design}=75	0 to <3 million ESALs	❑ PG 64-22 or ❑ PG 58-28
❑ N_{design}=100	3 million to <30 million ESALs	❑ PG 64-22 or ❑ PG 76-28

Notes:
- The binders are shown in order they should be considered.
- PG76-28 polymer modified PG Binders are typically used in the top lift only
- PG 58-28 Binder recommended for residential developments with less than 100,000 ESAL's

- Target Job Mix Optimum Binder Content for HMA gradings as close to 4.0% air voids as possible (3.5% to 4.5% air voids per MGPEC Item 9 October 2008)
- Target Job Mix Optimum Binder content for SMA gradings at 3.0% to 4.0% air voids

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A completed MGPEC Form #9 shall supplement the MGPEC Construction Specifications defining the contract specific requirements of Item 9: Hot Mix Asphalt Pavement (HMA) & Stone Matrix Asphalt (SMA). Refer to the Item #9 Specifications for details.