

Section W5 (Lower Layer)

Laboratory Diary

General Description of Mix and Materials

Design Method:	SMA
Compactive Effort:	50 blows
Binder Performance Grade	76-22
Modifier Type:	SBS
Aggregate Type:	Limestone
Gradation Type:	SMA

Avg. Lab Properties of Plant Produced Mix

<u>Sieve Size:</u>	<u>% Passing:</u>
1"	100
3/4"	100
1/2"	96
3/8"	75
No. 4	25
No. 8	19
No. 16	15
No. 30	14
No. 50	14
No. 100	13
No. 200	12.4

Asphalt Binder Content:	5.7%
Compacted Pill Bulk Gravity:	2.391
Theoretical Maximum Gravity:	2.487
Computed Air Voids:	3.9%

Construction Diary

Relevant Conditions for Construction

Completion Date	Monday, June 19, 2000
24 Hour High Temperature (F):	90
24 Hour Low Temperature (F):	78
24 Hour Rainfall (in):	0.17
Lift Type:	lower
Design Thickness of Test Mix (in):	3.3

Plant Configuration and Placement Details

<u>Component:</u>	<u>% Setting:</u>
Liquid Binder Setting	5.8%
Limestone	7 82.0%
Limestone	Modified 8910 11.0%
Stabilizer	Mineral Fiber 0.4%
Filler	Fly Ash 7.0%

Approximate Length (ft):	203
Surveyed Thickness of Section (in):	NA
Std Dev of Section Thickness (in):	NA
Type of Tack Coat Utilized:	CQS-1h
Target Tack Application Rate:	0.03 gal / sy
Avg Mat Temperature Behind Paver (F):	336
Average Section Compaction:	94.2%

General Notes:

- 1) Mixes are listed chronologically in order of completion date (i.e., construction began with E2 and ended with E1).
- 2) Sections are referenced by quadrant and sequence number, where "E2" refers to section 2 of the east quadrant.
- 3) "dual " lift type indicates that the lower and upper lifts were constructed with the same experimental mix.
- 4) The total thickness of all experimental sections is 4 inches by design, with the exception of S8, S9, S10, S11.
- 5) ARZ, TRZ, and BRZ refer to gradations intended to pass above, through, and below the restricted zone.
- 6) SMA and OGFC refer to stone matrix asphalt and open-graded friction course, respectively.

Section W5 (Upper Layer)

Laboratory Diary

General Description of Mix and Materials

Design Method:	OGFC
Compactive Effort:	NA
Binder Performance Grade	76-22
Modifier Type:	SBS
Aggregate Type:	Granite
Gradation Type:	OGFC

Avg. Lab Properties of Plant Produced Mix

<u>Sieve Size:</u>	<u>% Passing:</u>
1"	100
3/4"	100
1/2"	95
3/8"	67
No. 4	22
No. 8	15
No. 16	12
No. 30	11
No. 50	11
No. 100	10
No. 200	8.5

Asphalt Binder Content:	6.2%
Compacted Pill Bulk Gravity:	NA
Theoretical Maximum Gravity:	NA
Computed Air Voids:	NA

Construction Diary

Relevant Conditions for Construction

Completion Date	Tuesday, June 20, 2000
24 Hour High Temperature (F):	90
24 Hour Low Temperature (F):	74
24 Hour Rainfall (in):	0.00
Lift Type:	upper
Design Thickness of Test Mix (in):	4.0

Plant Configuration and Placement Details

<u>Component:</u>	<u>% Setting:</u>
Liquid Binder Setting	6.2%
Granite	75.0%
Granite	19.0%
Stabilizer	0.5%
Filler	6.0%

Approximate Length (ft):	203
Surveyed Thickness of Section (in):	4.3
Std Dev of Section Thickness (in):	0.1
Type of Tack Coat Utilized:	CQS-1h
Target Tack Application Rate:	0.03 gal / sy
Avg Mat Temperature Behind Paver (F):	330
Average Section Compaction:	NA

General Notes:

- 1) Mixes are listed chronologically in order of completion date (i.e., construction began with E2 and ended with E1).
- 2) Sections are referenced by quadrant and sequence number, where "E2" refers to section 2 of the east quadrant.
- 3) "dual " lift type indicates that the lower and upper lifts were constructed with the same experimental mix.
- 4) The total thickness of all experimental sections is 4 inches by design, with the exception of S8, S9, S10, S11.
- 5) ARZ, TRZ, and BRZ refer to gradations intended to pass above, through, and below the restricted zone.
- 6) SMA and OGFC refer to stone matrix asphalt and open-graded friction course, respectively.