

Section N11 (Lower Layer)

Laboratory Diary

General Description of Mix and Materials

Design Method:	Superpave
Compactive Effort:	100 gyrations
Binder Performance Grade:	67-22
Modifier Type:	NA
Aggregate Type:	Granite
Gradation Type:	BRZ

Avg. Lab Properties of Plant Produced Mix

<u>Sieve Size:</u>	<u>% Passing:</u>
1"	100
3/4"	100
1/2"	81
3/8"	70
No. 4	46
No. 8	34
No. 16	27
No. 30	21
No. 50	15
No. 100	10
No. 200	6.3

Asphalt Binder Content:	4.1%
Compacted Pill Bulk Gravity:	2.448
Theoretical Maximum Gravity:	2.529
Computed Air Voids:	3.2%

Construction Diary

Relevant Conditions for Construction

Completion Date:	Tuesday, June 06, 2000
24 Hour High Temperature (F):	85
24 Hour Low Temperature (F):	68
24 Hour Rainfall (in):	0.00
Lift Type:	lower
Design Thickness of Test Mix (in):	2.5

Plant Configuration and Placement Details

<u>Component:</u>	<u>% Setting:</u>
Liquid Binder Setting	4.3%
Granite 6	27.0%
Granite 7	17.0%
Granite 89	20.0%
Granite M10	24.0%
Granite W10	11.0%
Antistrip Hydrated Lime	1.0%

Approximate Length (ft):	195
Surveyed Thickness of Section (in):	NA
Std Dev of Section Thickness (in):	NA
Type of Tack Coat Utilized:	PG 67-22
Target Tack Application Rate:	0.03 gal / sy
Avg Mat Temperature Behind Paver (F):	296
Average Section Compaction:	92.7%

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 N11 (Upper Layer)

Laboratory Diary

General Description of Mix and Materials

Design Method:	Superpave
Compactive Effort:	100 gyrations
Binder Performance Grade:	76-22
Modifier Type:	SBS
Aggregate Type:	Granite
Gradation Type:	TRZ

Avg. Lab Properties of Plant Produced Mix

<u>Sieve Size:</u>	<u>% Passing:</u>
1"	100
3/4"	100
1/2"	97
3/8"	80
No. 4	52
No. 8	37
No. 16	30
No. 30	24
No. 50	18
No. 100	11
No. 200	7.2

Asphalt Binder Content:	4.3%
Compacted Pill Bulk Gravity:	2.434
Theoretical Maximum Gravity:	2.519
Computed Air Voids:	3.4%

Construction Diary

Relevant Conditions for Construction

Completion Date:	Monday, June 12, 2000
24 Hour High Temperature (F):	83
24 Hour Low Temperature (F):	54
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	4.5%
Granite 7	38.0%
Granite 89	18.0%
Granite M10	32.0%
Granite W10	11.0%
Antistrip Hydrated Lime	1.0%

Approximate Length (ft):	195
Surveyed Thickness of Section (in):	4.1
Std Dev of Section Thickness (in):	0.1
Type of Tack Coat Utilized:	PG 67-22
Target Tack Application Rate:	0.03 gal / sy
Avg Mat Temperature Behind Paver (F):	327
Average Section Compaction:	93.1%

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.