

Section E3

Laboratory Diary

General Description of Mix and Materials

Design Method:	Superpave
Compactive Effort:	100 gyrations
Binder Performance Grade:	76-22
Modifier Type:	SBR
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"	94
3/8"	73
No. 4	41
No. 8	29
No. 16	23
No. 30	18
No. 50	12
No. 100	7
No. 200	4.2

Asphalt Binder Content:	4.8%
Compacted Pill Bulk Gravity:	2.419
Theoretical Maximum Gravity:	2.519
Computed Air Voids:	4.0%

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.

Construction Diary

Relevant Conditions for Construction

Completion Date:	Tuesday, April 11, 2000
24 Hour High Temperature (F):	76
24 Hour Low Temperature (F):	50
24 Hour Rainfall (in):	0.00
Lift Type:	dual
Design Thickness of Test Mix (in):	4.0

Plant Configuration and Placement Details

<u>Component:</u>		<u>% Setting:</u>
Liquid Binder Setting		4.7%
Granite	7	48.0%
Granite	89	19.0%
Granite	M10	18.0%
Granite	W10	15.0%

Approximate Length (ft):	189
Surveyed Thickness of Section (in):	4.1
Std Dev of Section Thickness (in):	0.3
Type of Tack Coat Utilized:	CQS-1h
Target Tack Application Rate:	0.03 gal / sy
Avg Mat Temperature Behind Paver (F):	325
Average Section Compaction:	93.5%