

**Quadrant: S**  
**Section: 4**  
**Sublot: Surface**

**Laboratory Diary**

General Description of Mix and Materials

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

Avg. Lab Properties of Plant Produced Mix

<u>Sieve Size:</u>	<u>Design</u>	<u>QC:</u>
1":	100	100
3/4":	100	100
1/2":	97	95
3/8"	74	78
No. 4	18	19
No. 8	5	5
No. 16	2	3
No. 30	2	3
No. 50	2	2
No. 100	2	2
No. 200	2.0	1.6
Asphalt Content	6.0	5.8
Pill Bulk Gravity:		
TMD (Rice ):		2.442
Avg Air Voids		
Avg VMA:		

**General Notes:**

- 1) Mixes are referenced by quadrant (E=East, N=North, W=West, and S=South), section number (sequential) and sublot;
- 2) Sections are listed in the order they appear on the Track beginning with E2 and continuing counterclockwise to E1;
- 3) The total research thickness of all rutting study sections ranges from 3/4 to 4 inches by design;
- 4) The total HMA thickness of all structural study sections (N1 through N8) ranges from 5 to 9 inches by design;
- 5) ARZ, TRZ, and BRZ refer to gradations intended to pass above, through and below the restricted zone, respectively;
- 6) SMA and OGFC refer to stone matrix asphalt and open-graded friction course, respectively.

**Construction Diary**

Relevant Conditions for Construction

Completion Date: Friday, August 15, 2003  
 24 Hour High Temperature (F): 90  
 24 Hour Low Temperature (F): 70  
 24 Hour Rainfall (in): 0.02  
 Lift type: Surface  
 Planned Mill / Lift Thickness (in): 1.0

Plant Configuration and Placement Details

<u>Component:</u>	<u>% Setting:</u>
Asphalt Content (Plant Setting)	6.0
7 Dickson Limestone	90.0
8 Danley Limestone	10.0
Approximate Length (ft):	198
Survey Mill / Lift Thickness (in):	1.3
Type of Tack Coat Utilized:	PG67-22
Target Tack Application Rate (gal/sy):	0.03
Avg Temperature In Truck (F):	320
Avg Section Compaction:	

**Quadrant: S**  
**Section: 4**  
**Sublot: Binder**

**Laboratory Diary**

General Description of Mix and Materials

Design Method: Superpave  
 Compactive Effort: 75 gyrations  
 Binder Performance Grade: 76-22  
 Modifier Type: SBS  
 Aggregate Type: Lms/RAP  
 Gradation Type: TRZ

Avg. Lab Properties of Plant Produced Mix

<u>Sieve Size:</u>	<u>Design</u>	<u>QC:</u>
1":	100	100
3/4":	92	90
1/2":	71	68
3/8"	58	56
No. 4	40	33
No. 8	28	25
No. 16	21	22
No. 30	18	19
No. 50	10	11
No. 100	6	6
No. 200	4.0	4.4
Asphalt Content	4.2	4.3
Pill Bulk Gravity:		2.450
TMD (Rice ):		2.532
Avg Air Voids		3.2
Avg VMA:		13

**Construction Diary**

Relevant Conditions for Construction

Completion Date: Thursday, August 14, 2003  
 24 Hour High Temperature (F): 89  
 24 Hour Low Temperature (F): 71  
 24 Hour Rainfall (in): 0.01  
 Lift type: Binder  
 Planned Mill / Lift Thickness (in): 3.0

Plant Configuration and Placement Details

<u>Component:</u>	<u>% Setting:</u>
Asphalt Content (Plant Setting)	3.6
57 Algood Limestone	35.0
7 Algood Limestone	23.0
10 Algood Limestone	20.0
Monterey Natural Sand	12.0
Algood RAP	10.0
Approximate Length (ft):	198
Survey Mill / Lift Thickness (in):	2.5
Type of Tack Coat Utilized:	PG67-22
Target Tack Application Rate (gal/sy):	0.03
Avg Temperature In Truck (F):	338
Avg Section Compaction:	96.3

**General Notes:**

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