

**Quadrant:** E  
**Section:** 5  
**Sublot:** 1

**Laboratory Diary**General Description of Mix and Materials

Design Method:	Super
Compactive Effort:	60 gyrations
Binder Performance Grade:	67-22
Modifier Type:	NA
Aggregate Type:	RAP45/PG67
Design Gradation Type:	Dense

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":	86	80
No. 4:	64	53
No. 8:	51	42
No. 16:	40	34
No. 30:	29	25
No. 50:	17	15
No. 100:	11	10
No. 200:	7.4	6.2
Asphalt Content:	5.8	4.4
Pill Bulk Gravity:	2.379	2.422
TMD (Rice):	2.478	2.502
Avg Air Voids:	4.0	3.2
Avg VMA:	16.6	12.9

**Construction Diary**Relevant Conditions for Construction

Completion Date:	September 26, 2006
24 Hour High Temperature (F):	79
24 Hour Low Temperature (F):	55
24 Hour Rainfall (in):	0.00
Planned Mill / Lift Thickness (in):	2.00
Paving Machine:	Roadtec

Plant Configuration and Placement Details

<u>Component</u>	<u>% Setting</u>
Asphalt Content (Plant Setting)	5.0
78 LaGrange Granite	26.4
Shorter Coarse Sand	16.5
8910 Opelika Limestone Screenings	12.1
Local RAP	45.0
Approximate Length (ft):	201
Survey Mill / Lift Thickness (in):	1.5
Type of Tack Coat Utilized:	67-22
Target Tack Application Rate (gal/sy):	0.05
Avg Temperature at Plant (F):	305
Avg Section Compaction:	94.3%

**General Notes:**

- 1) Mixes are referenced by quadrant (E=East, N=North, W=West, and S=South), section number (sequential) and subplot (top=1);
- 2) The total research thickness of all mix performance sections ranges from 3/4 to 4 inches by design;
- 3) The total HMA thickness of all structural study sections (N1 through N10) ranges from 7 to 14 inches by design;
- 4) ARZ, TRZ and BRZ refer to gradations intended to pass above, through and below the restricted zone, respectively;
- 5) SMA and OGFC refer to stone matrix asphalt and open-graded friction course, respectively; and
- 6) VMA values computed from QC volumetrics are based on design values of Gsb (stockpile gravity testing is ongoing).