

Quadrant: W
Section: 4
Sublot: 1

Laboratory DiaryGeneral Description of Mix and Materials

Design Method: Super
 Compactive Effort: 60 gyrations
 Binder Performance Grade: 67-22
 Modifier Type: NA
 Aggregate Type: RAP20/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	97
3/8":	86	88
No. 4:	64	66
No. 8:	51	54
No. 16:	40	43
No. 30:	29	31
No. 50:	17	18
No. 100:	11	12
No. 200:	7.4	7.6
Asphalt Content:	5.8	5.8
Pill Bulk Gravity:	2.379	2.418
TMD (Rice):	2.478	2.470
Avg Air Voids:	4.0	2.1
Avg VMA:	16.6	14.2

Construction DiaryRelevant Conditions for Construction

Completion Date: September 25, 2006
 24 Hour High Temperature (F): 79
 24 Hour Low Temperature (F): 61
 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)	5.6
78 LaGrange Granite	37.0
M10 Columbus Granite	16.0
Shorter Coarse Sand	16.0
8910 Opelika Limestone Screenings	11.0
Local RAP	20.0
Approximate Length (ft):	199
Survey Mill / Lift Thickness (in):	2.0
Type of Tack Coat Utilized:	67-22
Target Tack Application Rate (gal/sy):	0.05
Avg Temperature at Plant (F):	310
Avg Section Compaction:	93.9%

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).