

Quadrant: N
Section: 1
Sublot: 1

Laboratory DiaryGeneral Description of Mix and Materials

Design Method: Super
 Compactive Effort: 100 gyrations
 Binder Performance Grade: 67-22
 Modifier Type: NA
 Aggregate Type: Grn/Lms
 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	98
3/8":	82	86
No. 4:	60	66
No. 8:	50	48
No. 16:	38	37
No. 30:	28	29
No. 50:	19	22
No. 100:	12	15
No. 200:	7.0	9.1
Asphalt Content:	4.8	5.0
Pill Bulk Gravity:	2.413	2.466
TMD (Rice):	2.514	2.521
Avg Air Voids:	4.0	2.2
Avg VMA:	14.4	11.9

Construction DiaryRelevant Conditions for Construction

Completion Date: February 1, 2008
 24 Hour High Temperature (F): 48
 24 Hour Low Temperature (F): 34
 24 Hour Rainfall (in): 0.72
 Planned Mill / Lift Thickness (in): 2.00
 Paving Machine: Blaw Knox

Plant Configuration and Placement Details

<u>Component</u>	<u>% Setting</u>
Asphalt Content (Plant Setting)	4.8
78 LaGrange Granite	46.0
M10 Columbus Granite	44.0
8910 Opelika Limestone Screenings	10.0
Approximate Length (ft):	200
Survey Mill / Lift Thickness (in):	2.2
Type of Tack Coat Utilized:	67-22
Target Tack Application Rate (gal/sy):	0.05
Avg Temperature at Plant (F):	330
Avg Section Compaction:	93.0%

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).

Quadrant: N
Section: 1
Sublot: 2

Laboratory Diary

General Description of Mix and Materials

Design Method:	Super
Compactive Effort:	100 gyrations
Binder Performance Grade:	67-22
Modifier Type:	NA
Aggregate Type:	Grn/Lms
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":	82	85
No. 4:	60	61
No. 8:	50	51
No. 16:	38	39
No. 30:	28	31
No. 50:	19	22
No. 100:	12	14
No. 200:	7.0	8.7
Asphalt Content:	4.8	4.9
Pill Bulk Gravity:	2.413	2.384
TMD (Rice):	2.514	2.488
Avg Air Voids:	4.0	4.2
Avg VMA:	14.4	15.0

Construction Diary

Relevant Conditions for Construction

Completion Date:	September 28, 2006
24 Hour High Temperature (F):	84
24 Hour Low Temperature (F):	63
24 Hour Rainfall (in):	0.02
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)	4.8
78 LaGrange Granite	43.0
M10 Columbus Granite	47.0
8910 Opelika Limestone Screenings	10.0
Approximate Length (ft):	200
Survey Mill / Lift Thickness (in):	1.9
Type of Tack Coat Utilized:	67-22
Target Tack Application Rate (gal/sy):	0.05
Avg Temperature at Plant (F):	300
Avg Section Compaction:	92.2%

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).

Quadrant: N
Section: 1
Sublot: 3

Laboratory DiaryGeneral Description of Mix and Materials

Design Method: Super
 Compactive Effort: 60 gyrations
 Binder Performance Grade: 67-22
 Modifier Type: NA
 Aggregate Type: Lms/Grn/Snd
 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":	94	96
1/2":	84	85
3/8":	72	74
No. 4:	53	53
No. 8:	45	43
No. 16:	36	36
No. 30:	28	26
No. 50:	15	14
No. 100:	8	8
No. 200:	5.0	5.4
Asphalt Content:	4.5	4.6
Pill Bulk Gravity:	2.468	2.415
TMD (Rice):	2.571	2.567
Avg Air Voids:	4.0	5.9
Avg VMA:	14.2	15.8

Construction DiaryRelevant Conditions for Construction

Completion Date: September 27, 2006
 24 Hour High Temperature (F): 81
 24 Hour Low Temperature (F): 52
 24 Hour Rainfall (in): 0.00
 Planned Mill / Lift Thickness (in): 3.00
 Paving Machine: Roadtec

Plant Configuration and Placement Details

<u>Component</u>	<u>% Setting</u>
Asphalt Content (Plant Setting)	4.6
78 Opelika Limestone	33.0
57 Opelika Limestone	20.0
M10 Columbus Granite	25.0
Shorter Coarse Sand	22.0
Approximate Length (ft):	200
Survey Mill / Lift Thickness (in):	NA
Type of Tack Coat Utilized:	67-22
Target Tack Application Rate (gal/sy):	0.05
Avg Temperature at Plant (F):	315
Avg Section Compaction:	92.1%

General Notes:

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- 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).