

Quadrant: N
Section: 8
Sublot: 1

Laboratory DiaryGeneral Description of Mix and Materials

Design Method:	SMA
Compactive Effort:	50 gyrations
Binder Performance Grade:	76-28
Modifier Type:	SBS
Aggregate Type:	Granite
Design Gradation Type:	SMA

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	93
3/8":	78	71
No. 4:	29	31
No. 8:	23	22
No. 16:	19	17
No. 30:	16	15
No. 50:	15	13
No. 100:	14	12
No. 200:	12.3	10.5
Asphalt Content:	6.8	6.9
Pill Bulk Gravity:	2.319	2.276
TMD (Rice):	2.414	2.397
Avg Air Voids:	3.9	5.0
Avg VMA:	17.9	15.6

Construction DiaryRelevant Conditions for Construction

Completion Date:	October 18, 2006
24 Hour High Temperature (F):	84
24 Hour Low Temperature (F):	70
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)	6.1
Hanson 5/8 Chips	71.0
Hanson Screenings	14.0
GMI Sand	10.0
Flyash	5.0
Cellulose	0.3
Approximate Length (ft):	200
Survey Mill / Lift Thickness (in):	2.3
Type of Tack Coat Utilized:	67-22
Target Tack Application Rate (gal/sy):	0.05
Avg Temperature at Plant (F):	350
Avg Section Compaction:	91.8%

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: 8
Sublot: 2

Laboratory DiaryGeneral Description of Mix and Materials

Design Method: S3
 Compactive Effort: 100 gyrations
 Binder Performance Grade: 76-28
 Modifier Type: SBS
 Aggregate Type: Granite
 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":	95	95
1/2":	81	83
3/8":	72	79
No. 4:	64	64
No. 8:	44	43
No. 16:	30	31
No. 30:	22	24
No. 50:	15	17
No. 100:	8	10
No. 200:	5.4	6.7
Asphalt Content:	4.3	5.2
Pill Bulk Gravity:	2.415	2.426
TMD (Rice):	2.498	2.496
Avg Air Voids:	3.3	2.8
Avg VMA:	13.5	10.4

Construction DiaryRelevant Conditions for Construction

Completion Date: October 18, 2006
 24 Hour High Temperature (F): 84
 24 Hour Low Temperature (F): 70
 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)	4.1
Hanson 1 Chips	30.0
Hanson Screenings	25.0
Dolese Screenings	8.0
Martin Marietta Stone Sand	27.0
GMI Sand	10.0
Approximate Length (ft):	200
Survey Mill / Lift Thickness (in):	3.0
Type of Tack Coat Utilized:	67-22
Target Tack Application Rate (gal/sy):	0.05
Avg Temperature at Plant (F):	340
Avg Section Compaction:	93.6%

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: 8
Sublot: 3

Laboratory DiaryGeneral Description of Mix and Materials

Design Method: S3
 Compactive Effort: 100 gyrations
 Binder Performance Grade: 64-22
 Modifier Type: NA
 Aggregate Type: Granite
 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":	95	95
1/2":	81	85
3/8":	72	80
No. 4:	64	64
No. 8:	44	43
No. 16:	30	31
No. 30:	22	24
No. 50:	15	17
No. 100:	8	10
No. 200:	5.4	7.0
Asphalt Content:	4.3	4.9
Pill Bulk Gravity:	2.415	2.393
TMD (Rice):	2.498	2.503
Avg Air Voids:	3.3	4.4
Avg VMA:	13.5	11.3

Construction DiaryRelevant Conditions for Construction

Completion Date: October 16, 2006
 24 Hour High Temperature (F): 64
 24 Hour Low Temperature (F): 55
 24 Hour Rainfall (in): 0.01
 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)	4.3
Hanson 1 Chips	30.0
Hanson Screenings	25.0
Dolese Screenings	10.0
Martin Marietta Stone Sand	25.0
GMI Sand	10.0
Approximate Length (ft):	200
Survey Mill / Lift Thickness (in):	2.9
Type of Tack Coat Utilized:	67-22
Target Tack Application Rate (gal/sy):	0.05
Avg Temperature at Plant (F):	345
Avg Section Compaction:	92.9%

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).

Quadrant: N
Section: 8
Sublot: 4

Laboratory DiaryGeneral Description of Mix and Materials

Design Method:	RBL
Compactive Effort:	50 gyrations
Binder Performance Grade:	64-22
Modifier Type:	NA
Aggregate Type:	Granite
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":	99	97
3/8":	88	87
No. 4:	58	61
No. 8:	39	39
No. 16:	25	26
No. 30:	18	19
No. 50:	13	15
No. 100:	10	12
No. 200:	8.1	10.5
Asphalt Content:	6.0	7.1
Pill Bulk Gravity:	2.400	2.374
TMD (Rice):	2.452	2.424
Avg Air Voids:	2.0	2.1
Avg VMA:	14.6	12.6

Construction DiaryRelevant Conditions for Construction

Completion Date:	October 13, 2006
24 Hour High Temperature (F):	66
24 Hour Low Temperature (F):	48
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)	6.2
Hanson 5/8 Chips	35.0
Hanson Screenings	20.0
Dolese Screenings	45.0
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):	345
Avg Section Compaction:	97.2%

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;
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- 6) VMA values computed from QC volumetrics are based on design values of Gsb (stockpile gravity testing is ongoing).