

Quadrant: E
Section: 1
Sublot: Surface

Laboratory Diary

General Description of Mix and Materials

Design Method: SMA
 Compactive Effort: 50 gyrations
 Binder Performance Grade: 76-22
 Modifier Type: SBS
 Aggregate Type: Limestone
 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":	95	91
3/8"	75	69
No. 4	32	35
No. 8	22	23
No. 16	16	17
No. 30	12	14
No. 50	11	12
No. 100	10	11
No. 200	9.0	10.0
Asphalt Content	6.2	6.3
Pill Bulk Gravity:		2.266
TMD (Rice):		2.376
Avg Air Voids		4.6
Avg VMA:		17

Construction Diary

Relevant Conditions for Construction

Completion Date: Wednesday, August 13, 2003
 24 Hour High Temperature (F): 89
 24 Hour Low Temperature (F): 71
 24 Hour Rainfall (in): 0.23
 Lift type: Surface
 Planned Mill / Lift Thickness (in): 2.0

Plant Configuration and Placement Details

<u>Component:</u>	<u>% Setting:</u>
Asphalt Content (Plant Setting)	6.2
7 Rinker Limestone	70.0
10 Rinker Limestone Screenings	15.0
8 Danley Limestone	10.0
Boral Flyash	5.0
Approximate Length (ft):	199
Survey Mill / Lift Thickness (in):	1.8
Type of Tack Coat Utilized:	PG67-22
Target Tack Application Rate (gal/sy):	0.03
Avg Temperature In Truck (F):	340
Avg Section Compaction:	96.4

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.

Quadrant: E
Section: 1
Sublot: Binder

Laboratory Diary

General Description of Mix and Materials

Design Method: SMA
 Compactive Effort: 50 gyrations
 Binder Performance Grade: 76-22
 Modifier Type: SBS
 Aggregate Type: Limestone
 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":	95	94
3/8"	75	75
No. 4	32	36
No. 8	22	22
No. 16	16	16
No. 30	12	13
No. 50	11	12
No. 100	10	11
No. 200	9.0	9.6
Asphalt Content	6.2	6.5
Pill Bulk Gravity:		2.229
TMD (Rice):		2.375
Avg Air Voids		6.1
Avg VMA:		18

Construction Diary

Relevant Conditions for Construction

Completion Date: Wednesday, August 13, 2003
 24 Hour High Temperature (F): 89
 24 Hour Low Temperature (F): 71
 24 Hour Rainfall (in): 0.23
 Lift type: Binder
 Planned Mill / Lift Thickness (in): 2.0

Plant Configuration and Placement Details

<u>Component:</u>	<u>% Setting:</u>
Asphalt Content (Plant Setting)	6.2
7 Rinker Limestone	70.0
10 Rinker Limestone Screenings	15.0
8 Danley Limestone	10.0
Boral Flyash	5.0
Approximate Length (ft):	199
Survey Mill / Lift Thickness (in):	1.8
Type of Tack Coat Utilized:	PG67-22
Target Tack Application Rate (gal/sy):	0.03
Avg Temperature In Truck (F):	310
Avg Section Compaction:	97.0

General Notes:

- 1) Mixes are referenced by quadrant (E=East, N=North, W=West, and S=South), section number (sequential) and sublot;
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- 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.