

Quadrant: W
Section: 2
Sublot: Surface

Laboratory Diary

General Description of Mix and Materials

Design Method: SMA
 Compactive Effort: 75 gyrations
 Binder Performance Grade: 70-22
 Modifier Type: SBS
 Aggregate Type: Porph/Lms
 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":	92	88
3/8"	56	54
No. 4	24	22
No. 8	18	17
No. 16	15	14
No. 30	13	13
No. 50	12	12
No. 100	11	11
No. 200	9.0	9.7
Asphalt Content	6.4	6.1
Pill Bulk Gravity:		2.293
TMD (Rice):		2.414
Avg Air Voids		5.0
Avg VMA:		19

Construction Diary

Relevant Conditions for Construction

Completion Date: Monday, August 04, 2003
 24 Hour High Temperature (F): 87
 24 Hour Low Temperature (F): 70
 24 Hour Rainfall (in): 0.27
 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)	7.0
3/4 D1 Oakville Limestone	38.0
3/4 Iron Mountain 284 Porphyry	30.1
3/4 Iron Mountain 426 Porphyry	22.4
Genevieve Mineral Filler	9.5
Approximate Length (ft):	200
Survey Mill / Lift Thickness (in):	2.0
Type of Tack Coat Utilized:	PG67-22
Target Tack Application Rate (gal/sy):	0.03
Avg Temperature In Truck (F):	333
Avg Section Compaction:	96.8

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: W
Section: 2
Sublot: Binder

Laboratory Diary

General Description of Mix and Materials

Design Method: SMA
 Compactive Effort: 75 gyrations
 Binder Performance Grade: 70-22
 Modifier Type: SBS
 Aggregate Type: Porph/Lms
 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":	92	89
3/8"	56	57
No. 4	24	23
No. 8	18	18
No. 16	15	15
No. 30	13	13
No. 50	12	12
No. 100	11	11
No. 200	9.0	10.0
Asphalt Content	6.4	6.6
Pill Bulk Gravity:		2.287
TMD (Rice):		2.407
Avg Air Voids		5.0
Avg VMA:		19

Construction Diary

Relevant Conditions for Construction

Completion Date: Monday, August 04, 2003
 24 Hour High Temperature (F): 87
 24 Hour Low Temperature (F): 70
 24 Hour Rainfall (in): 0.27
 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)	7.0
3/4 D1 Oakville Limestone	38.0
3/4 Iron Mountain 284 Porphyry	30.1
3/4 Iron Mountain 426 Porphyry	22.4
Genevieve Mineral Filler	9.5
Approximate Length (ft):	200
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;
- 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.