Quadrant: N Section: 4 Sublot: 1

Laboratory Diary

General Description of Mix and Materials

Design Method: Compactive Effort: Binder Performance Grade: Modifier Type: Aggregate Type: Design Gradation Type: SMA SMA SMA SMA SMA

Avg. Lab Properties of Plant Produced Mix

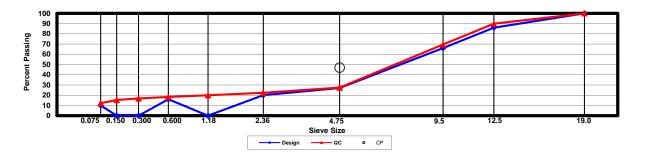
Sieve Size	<u>Target</u>	QC
25 mm (1"):	100	100
19 mm (3/4"):	100	100
12.5 mm (1/2"):	86	90
9.5 mm (3/8"):	66	70
4.75 mm (#4):	27	27
2.36 mm (#8):	20	22
1.18 mm (#16):	NA	20
0.60 mm (#30):	16	18
0.30 mm (#50):	NA	17
0.15 mm (#100):	NA	15
0.075 mm (#200):	10.0	12.1
Binder Content (Pb):	6.4	6.0
Eff. Binder Content (Pbe):	6.4	6.0
Dust-to-Binder Ratio:	1.6	2.0
Rice Gravity (Gmm):	2.631	2.646
Avg. Bulk Gravity (Gmb):	2.549	2.582
Avg Air Voids (Va):	3.1	2.4
Agg. Bulk Gravity (Gsb):	2.944	2.942
Avg VMA:	18.9	17.5
Avg. VFA:	84	86

Construction Diary

Relevant Conditions for Construction

Plant Configuration and Placement Details

Component	% Setting
Binder Content (Plant Setting)	6.2
Virginia 8 Virginia 78 Virginia Rock Dust Bealeton 30	26.0 25.0 22.0 16.0
Virginia RAP	11.0
Liquid Antistrip	0.5
Cellulose	0.3
As-Built Sublot Lift Thickness (in): Total Thickness of All 2012 Sublots (in): Approx. Underlying HMA Thickness (in): Type of Tack Coat Utilized: Undilluted Target Tack Rate (gal/sy): Approx. Avg. Temperature at Plant (F): Avg. Measured Mat Compaction:	2.0 8.2 0.0 NTSS-1HM 0.05 325 95.3%



General Notes:

- 1) Mixes are referenced by quadrant (E=East, N=North, W=West, S=South, L=Lee Rd 159), section number, and sublot (top=1);
- 2) SMA and OGFC refer to stone matrix asphalt and open-graded friction course, respectively; and
- 3) Mixes not containing hydrated lime were run with either Gripper X antistrip or Evotherm Q1 warm mix additive at a 0.5% rate

Quadrant: N Section: 4 Sublot: 2

Laboratory Diary

General Description of Mix and Materials

Design Method: Super Compactive Effort: 65 gyrations Binder Performance Grade: 67-22 Modifier Type: NA

Aggregate Type: Im-19.0D w/Rap 30 Design Gradation Type: DGA

Avg. Lab Properties of Plant Produced Mix

Sieve Size	<u>Target</u>	<u>QC</u>
25 mm (1"):	100	100
19 mm (3/4"):	97	99
12.5 mm (1/2"):	87	91
9.5 mm (3/8"):	NA	81
4.75 mm (#4):	NA	51
2.36 mm (#8):	35	37
1.18 mm (#16):	NA	28
0.60 mm (#30):	NA	20
0.30 mm (#50):	NA	13
0.15 mm (#100):	NA	9
0.075 mm (#200):	6.0	6.3
Binder Content (Pb):	4.7	4.6
Eff. Binder Content (Pbe):	4.5	4.4
Dust-to-Binder Ratio:	1.3	1.4
Rice Gravity (Gmm):	2.517	2.584
Avg. Bulk Gravity (Gmb):	2.416	2.480
Avg Air Voids (Va):	4.0	4.0
Agg. Bulk Gravity (Gsb):	2.697	2.773
Avg VMA:	14.6	14.7
Avg. VFA:	73	73

Construction Diary

Relevant Conditions for Construction

Completion Date:	August 15, 2012
24 Hour High Temperature (F):	92
24 Hour Low Temperature (F):	69
24 Hour Rainfall (in):	0.00
Planned Subot Lift Thickness (in):	2.0
Paving Machine:	Roadtec

Plant Configuration and Placement Details

% Setting
4.3
44.0 16.0 10.0
30.0
0.5
1.9 8.2 0.0 NTSS-1HM 0.05 330 92.6%



General Notes:

- 1) Mixes are referenced by quadrant (E=East, N=North, W=West, S=South, L=Lee Rd 159), section number, and sublot (top=1);
- 2) SMA and OGFC refer to stone matrix asphalt and open-graded friction course, respectively; and
- 3) Mixes not containing hydrated lime were run with either Gripper X antistrip or Evotherm Q1 warm mix additive at a 0.5% rate