

Quadrant: W
Section: 3A
Sublot: 1

Laboratory Diary

General Description of Mix and Materials

Design Method: SMA
 Compactive Effort: 50 blows
 Binder Performance Grade: 76-22
 Modifier Type: SBS
 Aggregate Type: Grn/f-Sand/F-RAP/RAS
 Design Gradation Type: SMA

Avg. Lab Properties of Plant Produced Mix

Sieve Size	Target	QC
25 mm (1"):	100	100
19 mm (3/4"):	100	100
12.5 mm (1/2"):	100	100
9.5 mm (3/8"):	100	100
4.75 mm (#4):	61	61
2.36 mm (#8):	31	31
1.18 mm (#16):	23	24
0.60 mm (#30):	19	20
0.30 mm (#50):	16	16
0.15 mm (#100):	13	13
0.075 mm (#200):	10.5	10.3
Binder Content (Pb):	6.7	6.6
Eff. Binder Content (Pbe):	NA	NA
Dust-to-Eff. Binder Ratio:	NA	NA
RAP Binder Replacement (%):	8.5	9.5
RAS Binder Replacement (%):	10.2	7.9
Total Binder Replacement (%):	18.7	17.3
Rice Gravity (Gmm):	2.450	2.441
Bulk Gravity (Gmb):	2.352	2.322
Air Voids (Va):	4.0	4.9
Agg. Bulk Gravity (Gsb):	NA	NA
VMA:	NA	NA
VFA:	NA	NA

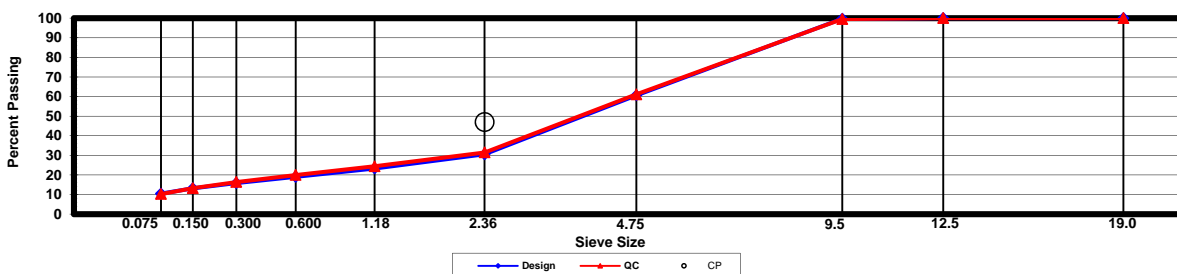
Construction Diary

Relevant Conditions for Construction

Completion Date: August 31, 2015
 24 Hour High Temperature (F): 88
 24 Hour Low Temperature (F): 71
 24 Hour Rainfall (in): 0.00
 Planned Subot Lift Thickness (in): 0.8
 Paving Machine: Roadtec

Plant Configuration and Placement Details

Component	% Setting
Binder Content (Plant Setting)	6.2
89 Granite	66.0
KY Washed Friction Sand	15.0
EAP Fine RAP	10.0
EAP Post Consumer RAS	3.0
Evotherm P15	0.5
Flyash	6.0
As-Built Sublot Lift Thickness (in):	0.8
Total Thickness of All New Sublots (in):	0.8
Approx. Underlying HMA Thickness (in):	Pending
Type of Tack Coat Utilized:	NTSS-1HM
Undiluted Target Tack Rate (gal/sy):	0.05
Approx. Avg. Temperature at Plant (F):	340
Avg. Measured Mat Compaction:	93.0%



General Notes:

- References are by quadrant (E=East, N=North, W=West, S=South, L=Lee Rd 159, U=US-280), section #, and sublot (top=1).
- DGA, SMA, & OGFC refer to dense graded asphalt, stone matrix asphalt, & open-graded friction course, respectively.
- Production Gsb estimated using the actual production Gse and the difference between Gse and Gsb in the mix design.

Section and/or Sublot Specific Notes:

NA

Quadrant: W
Section: 3B
Sublot: 1

Laboratory Diary

General Description of Mix and Materials

Design Method: SMA
 Compactive Effort: 50 blows
 Binder Performance Grade: 76-22
 Modifier Type: SBS
 Aggregate Type: Grn/F-RAP/RAS
 Design Gradation Type: SMA

Avg. Lab Properties of Plant Produced Mix

Sieve Size	Target	QC
25 mm (1"):	100	100
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12.5 mm (1/2"):	100	100
9.5 mm (3/8"):	100	100
4.75 mm (#4):	61	60
2.36 mm (#8):	31	30
1.18 mm (#16):	23	22
0.60 mm (#30):	19	18
0.30 mm (#50):	16	15
0.15 mm (#100):	13	13
0.075 mm (#200):	10.5	10.7
Binder Content (Pb):	6.7	6.7
Eff. Binder Content (Pbe):	NA	NA
Dust-to-Eff. Binder Ratio:	NA	NA
RAP Binder Replacement (%):	8.5	9.4
RAS Binder Replacement (%):	10.2	7.8
Total Binder Replacement (%):	18.7	17.2
Rice Gravity (Gmm):	2.450	2.458
Bulk Gravity (Gmb):	2.352	2.362
Air Voids (Va):	4.0	3.9
Agg. Bulk Gravity (Gsb):	NA	NA
VMA:	NA	NA
VFA:	NA	NA

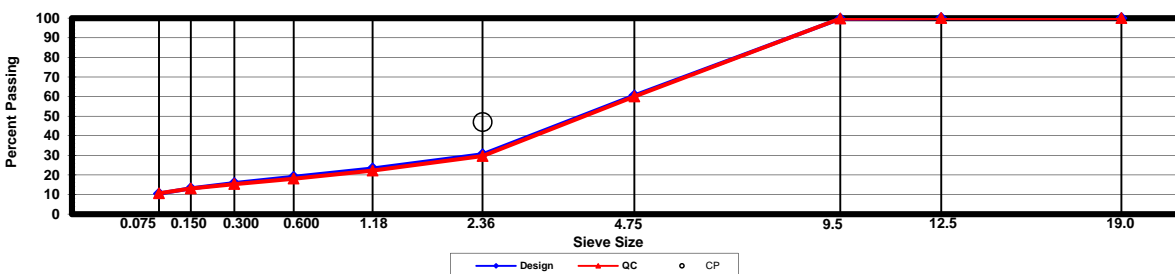
Construction Diary

Relevant Conditions for Construction

Completion Date: August 31, 2015
 24 Hour High Temperature (F): 88
 24 Hour Low Temperature (F): 71
 24 Hour Rainfall (in): 0.00
 Planned Sublot Lift Thickness (in): 0.8
 Paving Machine: Roadtec

Plant Configuration and Placement Details

Component	% Setting
Binder Content (Plant Setting)	6.1
89 Granite	72.0
M10 Granite	10.0
EAP Fine RAP	10.0
EAP Post Consumer RAS	3.0
Evotherm P15	0.5
Flyash	5.0
As-Built Sublot Lift Thickness (in):	0.8
Total Thickness of All New Sublots (in):	0.8
Approx. Underlying HMA Thickness (in):	Pending
Type of Tack Coat Utilized:	NTSS-1HM
Undiluted Target Tack Rate (gal/sy):	0.05
Approx. Avg. Temperature at Plant (F):	340
Avg. Measured Mat Compaction:	92.4%



General Notes:

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Section and/or Sublot Specific Notes:

NA