12/2/2013

Quadrant: E
Section: 10
Sublot: 1

Laboratory Diary

General Desccription of Mix and Materials

Design Method:	OGFC
Compactive Effort:	50 gyrations
Binder Performance Grade:	ARB12(-30)
Modifier Type:	GTR
Aggregate Type:	Granite
Design Gradation Type:	PFC

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"):	96	94
9.5 mm (3/8"):	56	59
4.75 mm (#4):	16	15
2.36 mm (#8):	9	12
1.18 mm (#16):	7	10
0.60 mm (#30):	6	9
0.30 mm (#50):	5	7
0.15 mm (#100):	3	6
0.075 mm (#200):	2.6	3.7
Binder Content (Pb):	6.0	5.5
Eff. Binder Content (Pbe):	5.2	4.8
Dust-to-Binder Ratio:	0.5	0.8
Rice Gravity (Gmm):	2.474	2.506
Avg. Bulk Gravity (Gmb):	2.133	2.166
Avg Air Voids (Va):	13.8	13.6
Agg. Bulk Gravity (Gsb):	2.660	2.679
Avg VMA:	24.6	23.6
Avg. VFA:	44	43

Construction Diary

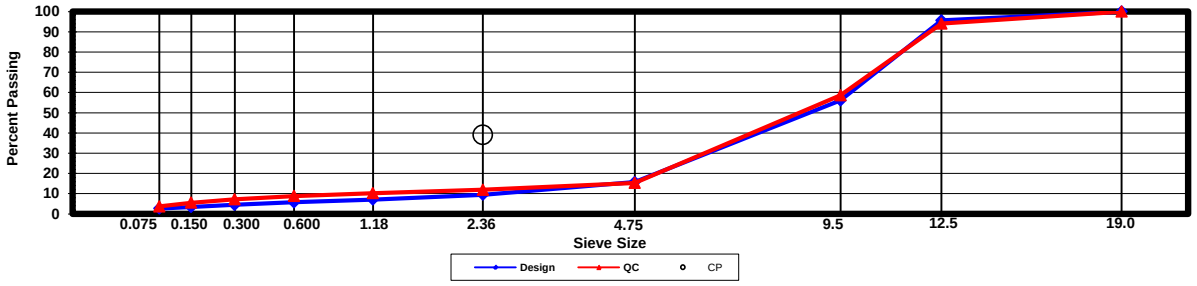
Relevant Conditions for Construction

Completion Date:	July 23, 2012
24 Hour High Temperature (F):	0
24 Hour Low Temperature (F):	0
24 Hour Rainfall (in):	0.00
Planned Subot Lift Thickness (in):	1.3
Paving Machine:	Roadtec

Plant Configuration and Placement Details

Component	% Setting
Binder Content (Plant Setting)	6.3
7 Columbus Granite	94.0
M10 Columbus Granite	6.0

As-Built Sublot Lift Thickness (in):	0.8
Total Thickness of All 2012 Sublots (in):	2.3
Approx. Underlying HMA Thickness (in):	21.8
Type of Tack Coat Utilized:	NTSS-1HM
Undilluted Target Tack Rate (gal/sy):	0.05
Approx. Avg. Temperature at Plant (F):	335
Avg. Measured Mat Compaction:	79.2%



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