4/4/2007

Quadrant: N
Section: 12
Sublot: 1

Laboratory Diary

General Desccription of Mix and Materials

Design Method:	PEM
Compactive Effort:	50 blow
Binder Performance Grade:	76-22
Modifier Type:	SBS
Aggregate Type:	Granite
Design Gradation Type:	PEM

Avg. Lab Properties of Plant Produced Mix

Sieve Size	Design	QC
1":	100	100
3/4":	100	100
1/2":	94	95
3/8":	57	61
No. 4:	12	16
No. 8:	7	10
No. 16:	6	8
No. 30:	5	7
No. 50:	4	5
No. 100:	3	4
No. 200:	2.7	3.1
Asphalt Content:	6.0	5.4
Pill Bulk Gravity:	1.949	1.999
TMD (Rice):	2.466	2.495
Avg Air Voids:	21.0	19.9
Avg VMA:	32.3	29.5

Construction Diary

Relevant Conditions for Construction

Completion Date:	September 29, 2006
24 Hour High Temperature (F):	73
24 Hour Low Temperature (F):	48
24 Hour Rainfall (in):	0.00
Planned Mill / Lift Thickness (in):	1.25
Paving Machine:	Roadtec

Plant Configuration and Placement Details

Component	% Setting
Asphalt Content (Plant Setting)	6.0
7 Columbus Granite	99.0
Hyd Lime	1.0
Cellulose	0.3
Approximate Length (ft):	201
Survey Mill / Lift Thickness (in):	1.2
Type of Tack Coat Utilized:	67-22
Target Tack Application Rate (gal/sy):	0.05
Avg Temperature at Plant (F):	350
Avg Section Compaction:	75.7%

General Notes:

1) Mixes are referenced by quadrant (E=East, N=North, W=West, and S=South), section number (sequential) and sublot (top=1);
2) The total research thickness of all mix performance sections ranges from 3/4 to 4 inches by design;
3) The total HMA thickness of all structural study sections (N1 through N10) ranges from 7 to 14 inches by design;
4) ARZ, TRZ and BRZ refer to gradations intended to pass above, through and below the restricted zone, respectively;
5) SMA and OGFC refer to stone matrix asphalt and open-graded friction course, respectively; and
6) VMA values computed from QC volumetrics are based on design values of Gsb (stockpile gravity testing is ongoing).

4/4/2007

Quadrant: N
Section: 12
Sublot: 2

Laboratory Diary

General Desccription of Mix and Materials

Design Method:	Super
Compactive Effort:	65 gyrations
Binder Performance Grade:	76-22
Modifier Type:	SBS
Aggregate Type:	Granite
Design Gradation Type:	Dense

Avg. Lab Properties of Plant Produced Mix

Sieve Size	Design	QC
1":	100	100
3/4":	100	100
1/2":	99	98
3/8":	88	88
No. 4:	58	58
No. 8:	42	41
No. 16:	31	32
No. 30:	22	24
No. 50:	14	16
No. 100:	8	10
No. 200:	4.9	5.7
Asphalt Content:	5.3	5.1
Pill Bulk Gravity:	2.370	2.393
TMD (Rice):	2.469	2.498
Avg Air Voids:	4.0	4.2
Avg VMA:	16.1	15.0

Construction Diary

Relevant Conditions for Construction

Completion Date:	September 28, 2006
24 Hour High Temperature (F):	84
24 Hour Low Temperature (F):	63
24 Hour Rainfall (in):	0.02
Planned Mill / Lift Thickness (in):	1.50
Paving Machine:	Roadtec

Plant Configuration and Placement Details

Component	% Setting
Asphalt Content (Plant Setting)	5.3
7 Columbus Granite	24.0
89 Columbus Granite	19.0
810 Columbus Granite	29.0
W10 Columbus Granite	27.0
Hyd Lime	1.0
Approximate Length (ft):	201
Survey Mill / Lift Thickness (in):	1.5
Type of Tack Coat Utilized:	67-22
Target Tack Application Rate (gal/sy):	0.05
Avg Temperature at Plant (F):	330
Avg Section Compaction:	95.9%

General Notes:

1) Mixes are referenced by quadrant (E=East, N=North, W=West, and S=South), section number (sequential) and sublot (top=1);
2) The total research thickness of all mix performance sections ranges from 3/4 to 4 inches by design;
3) The total HMA thickness of all structural study sections (N1 through N10) ranges from 7 to 14 inches by design;
4) ARZ, TRZ and BRZ refer to gradations intended to pass above, through and below the restricted zone, respectively;
5) SMA and OGFC refer to stone matrix asphalt and open-graded friction course, respectively; and
6) VMA values computed from QC volumetrics are based on design values of Gsb (stockpile gravity testing is ongoing).