

## Section N1

### Laboratory Diary

#### General Description of Mix and Materials

Design Method:	Superpave
Compactive Effort:	100 gyrations
Binder Performance Grade:	76-22
Modifier Type:	SBS
Aggregate Type:	Lms/Slag
Gradation Type:	ARZ

#### Avg. Lab Properties of Plant Produced Mix

<u>Sieve Size:</u>	<u>% Passing:</u>
1"	100
3/4"	100
1/2"	100
3/8"	92
No. 4	69
No. 8	52
No. 16	33
No. 30	22
No. 50	15
No. 100	10
No. 200	6.7

Asphalt Binder Content:	7.4%
Compacted Pill Bulk Gravity:	2.306
Theoretical Maximum Gravity:	2.365
Computed Air Voids:	2.5%

### Construction Diary

#### Relevant Conditions for Construction

Completion Date:	Tuesday, April 25, 2000
24 Hour High Temperature (F):	75
24 Hour Low Temperature (F):	55
24 Hour Rainfall (in):	0.00
Lift Type:	dual
Design Thickness of Test Mix (in):	4.0

#### Plant Configuration and Placement Details

<u>Component:</u>	<u>% Setting:</u>
Liquid Binder Setting	7.2%
Slag 78	32.0%
Slag 8910	28.0%
Limestone Manufactured Sand	40.0%

Approximate Length (ft):	201
Surveyed Thickness of Section (in):	3.9
Std Dev of Section Thickness (in):	0.3
Type of Tack Coat Utilized:	CQS-1h
Target Tack Application Rate:	0.03 gal / sy
Avg Mat Temperature Behind Paver (F):	306
Average Section Compaction:	95.1%

### **General Notes:**

- 1) Mixes are listed chronologically in order of completion date (i.e., construction began with E2 and ended with E1).
- 2) Sections are referenced by quadrant and sequence number, where "E2" refers to section 2 of the east quadrant.
- 3) "dual " lift type indicates that the lower and upper lifts were constructed with the same experimental mix.
- 4) The total thickness of all experimental sections is 4 inches by design, with the exception of S8, S9, S10, S11.
- 5) ARZ, TRZ, and BRZ refer to gradations intended to pass above, through, and below the restricted zone.
- 6) SMA and OGFC refer to stone matrix asphalt and open-graded friction course, respectively.