PAVEMENT
MANAGEMENT
SYSTEMS

NJ SPS-9A

April 23, 1996
50451110-13.11.9

Mr. Frank Palise
Regional Materials Engineer
New Jersey Department of Transportation
100 Daniels Way
Freehold, New Jersey 07728-2668

RE: Revised Sampling and Testing Plans - SPS-9A, Allentown, NJ

Dear Mr. Palise:

Enclosed are the revised sampling and testing plans for the SPS-9A Project 340900, I-195 EB, Allentown, NJ.

The revisions are to comply with updated SPS-9A Materials Sampling and Testing Guidelines, February 1996.

The major change is due to gyratory compaction densification of test specimen to 3% and 7% air voids for purposes of performance testing and mix characterization.

As well, the QC/QA specimen compacted at N_{max} are used in the volumetrics calculations by estimating the N_{design} Bulk Specific Gravity from the average of the Density vs. Gyrations curves.

Further it is recognized that the project has a binder course which will contribute to the performance of the test sections and therefore its' properties also could and should be captured to the extent needed. (Sample numbers for the binder course material are assigned from 50-99).

There are no changes to Figures 1 through 7.

Copies of the latest versions of the Experiment and Nomination and Construction Guidelines, the revised version of the Materials and Testing Guidelines, and the Data Collection Guidelines were forwarded to you under separate cover.

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Please distributed copies of this revised Sampling and Testing Plan to attendees of our planning meeting, May 8, 1996.

Yours Sincerely,

William A. Phang

William A. Phang
Principal Investigator
Pavement Management Systems Limited

WAP/tf

enclosure

C.C. I.J. Pecnik, P.E., RE NARO, w/enclosure
E. Lesswing, NARO, w/enclosure
B. Abukhater, NARO, w/enclosure
M. Symons, FHWA-LTPP, w/enclosure
G. Rada, PCS/Law, w/enclosure

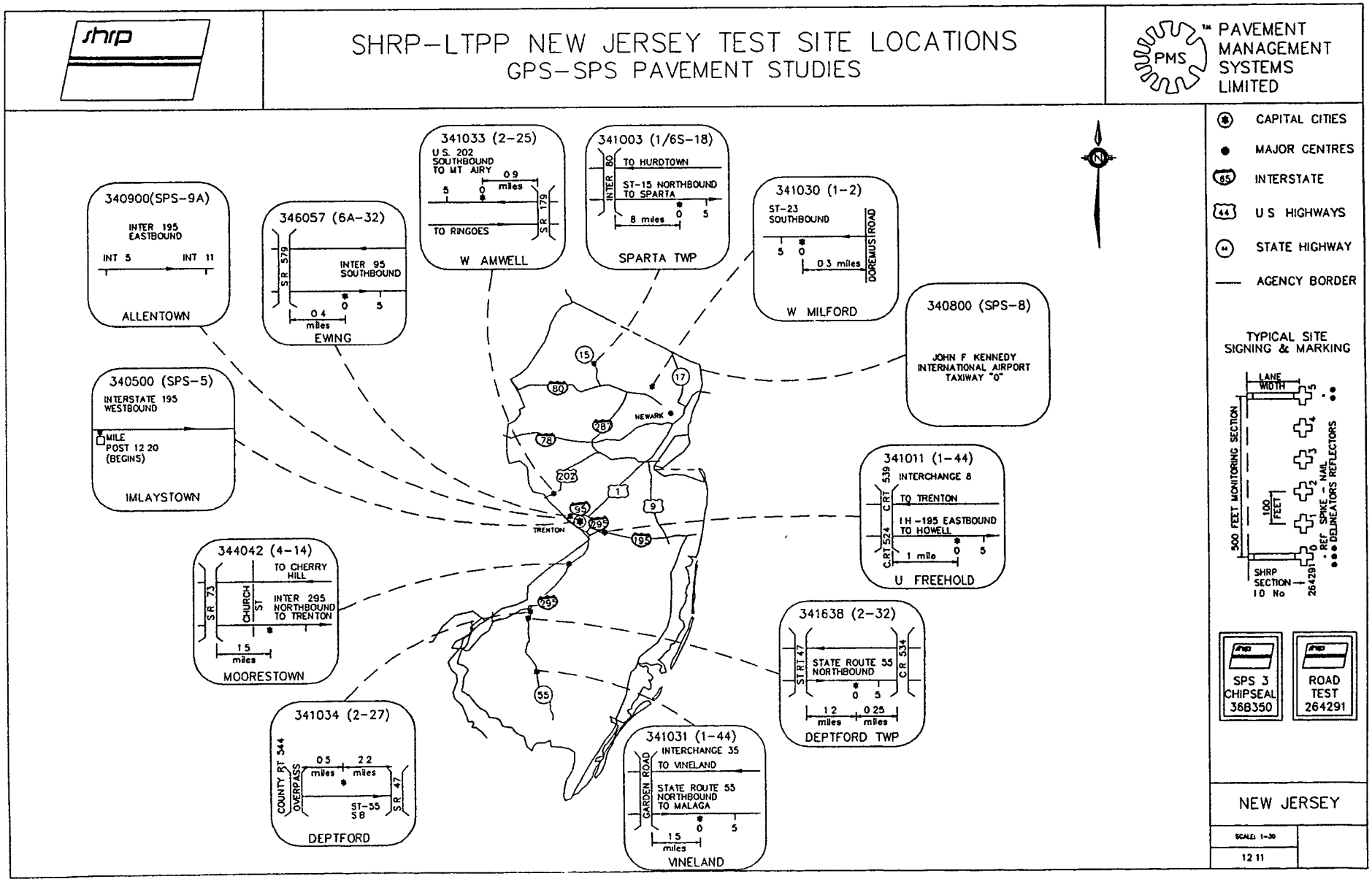
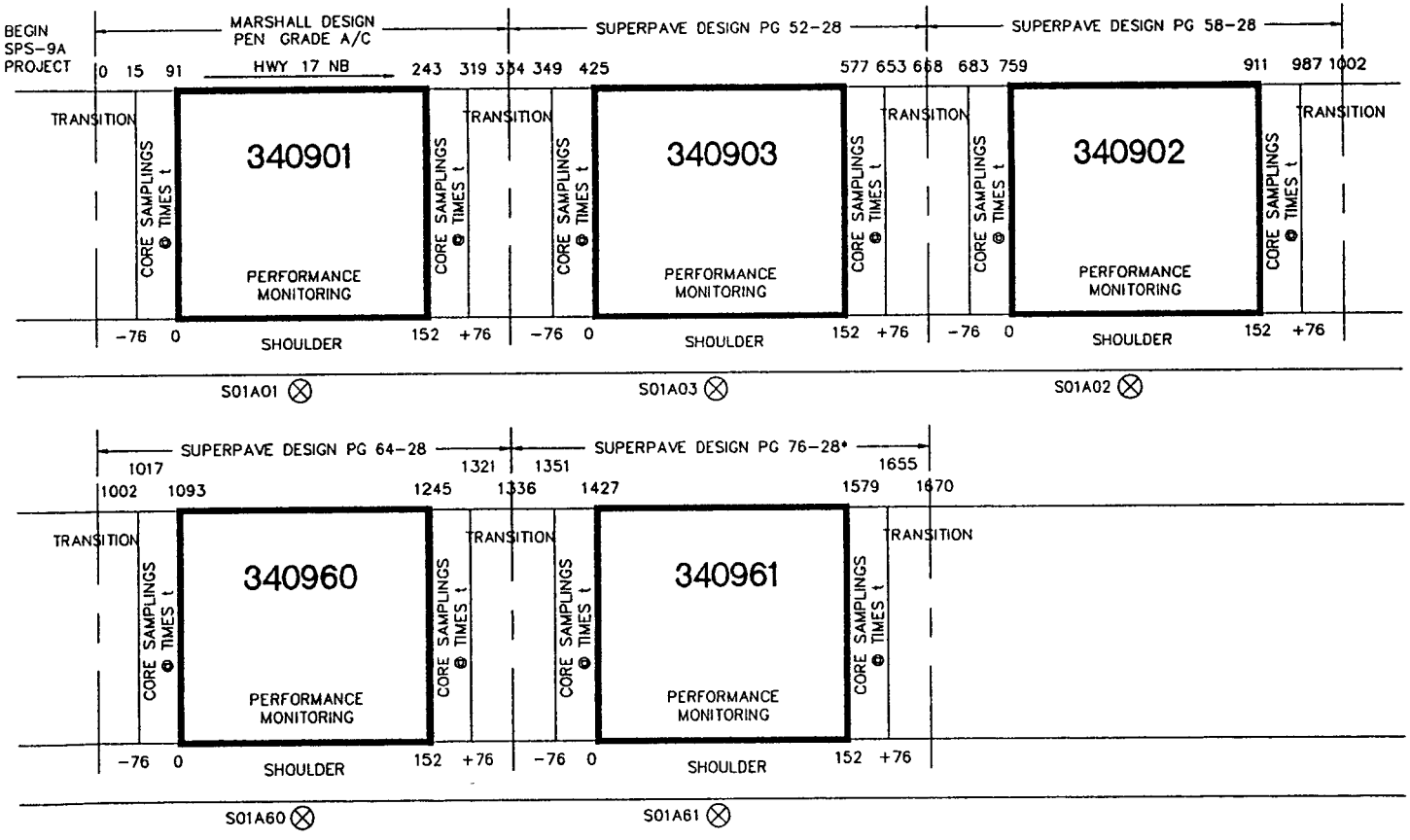


FIGURE 1 - SITE LOCATION MAP

FHWA–LTPP SPS 9A ALLENTOWN DESIGN SCHEMATIC

VALIDATION OF SHRP ASPHALT SPECIFICATIONS AND MIX DESIGN AND INNOVATIONS IN ASPHALT PAVEMENTS

PAVEMENT MANAGEMENT SYSTEMS LIMITED

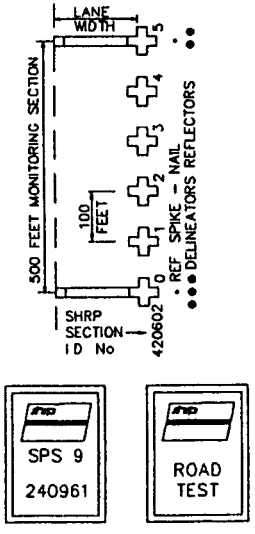


NOTES

- * POLYMER MODIFICATION OF THE A/C
- t 152mm DIAMETER CORES SAMPLED @ TIMES
  - A = 0, IMMEDIATELY AFTER CONSTRUCTION
  - B = 6 MONTHS AFTER CONSTRUCTION
  - C = 12 MONTHS AFTER CONSTRUCTION
  - D = 18 MONTHS AFTER CONSTRUCTION
  - E = 24 MONTHS AFTER CONSTRUCTION
  - F = 48 MONTHS AFTER CONSTRUCTION
- ⊗ SHOULDER PROBES TO 6m (S01A01–S01A03, S01A60–S01A61)

FIGURE 2. EB I-195 E. OF EXIT 5 TO E. OF EXIT 11 TEST SECTION LAYOUT

TYPICAL SITE SIGNING & MARKING



NJ DOT SPS–9A, EB I–195 E OF EXIT 5 TO E OF EXIT 11

PLOTDATE FEB 14/00

SPS–9A–01

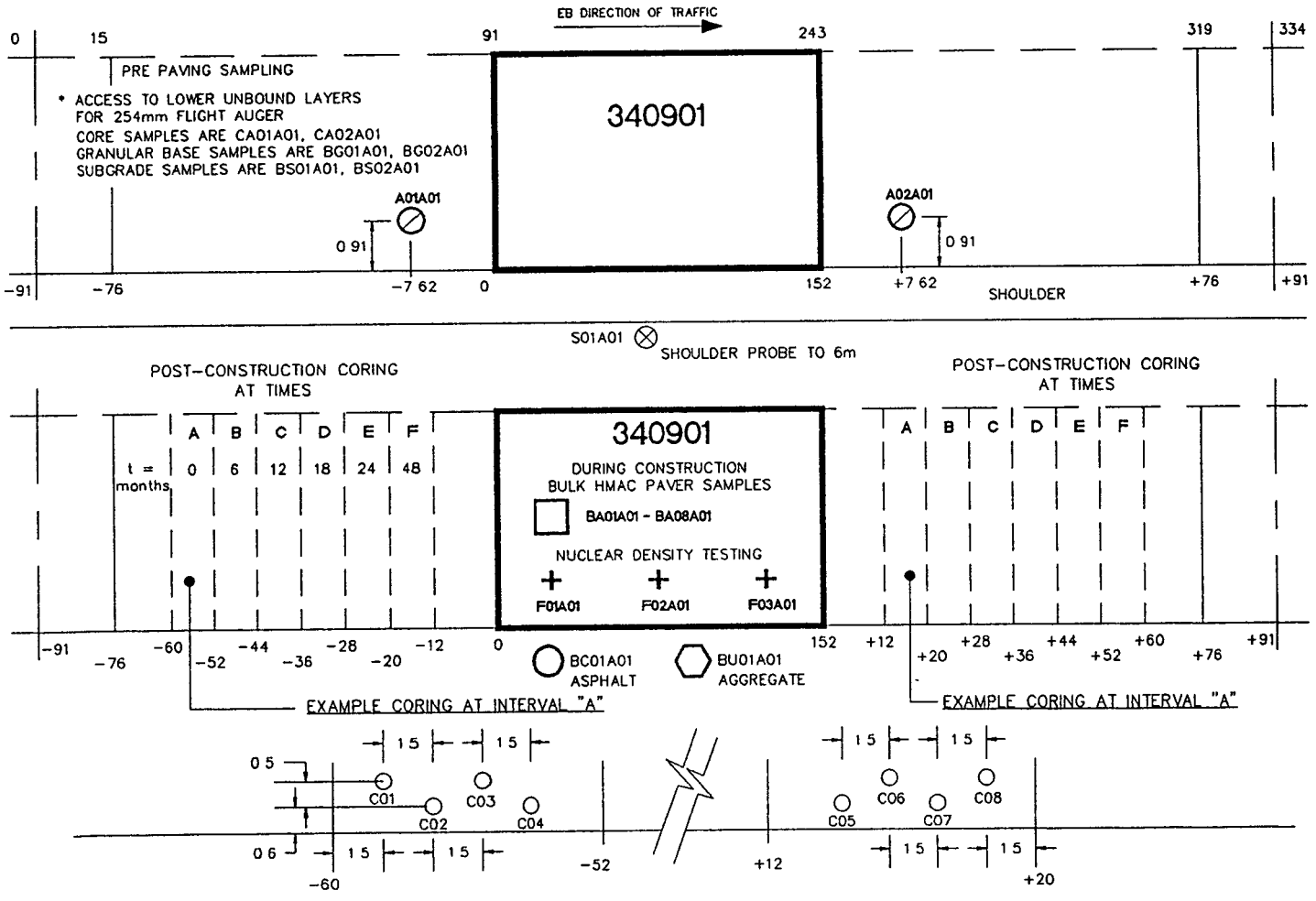
FHWA SPS–9A TEST SECTIONS ONLY DIMENSIONAL DETAILS ONLY DRAWING NOT TO SCALE

SPS9A–1

NJ DOT SPS-9A ALLENTOWN DESIGN SCHEMATIC

VALIDATION OF SHRP ASPHALT SPECIFICATIONS AND MIX DESIGN AND INNOVATIONS IN ASPHALT PAVEMENTS

PAVEMENT MANAGEMENT SYSTEMS LIMITED



PRE CONSTRUCTION

- A TYPE 305mm CORE*
  LOCATIONS A01A01, A02A01
  SUBGRADE – BS01A01,BS02A01
  SUBBASE – BG01A01
  BASE – BG02A01
- SHOULDER AUGER PROBE TO 6m
  S01A01

DURING & POST CONSTRUCTION

- AC BINDER COURSE SAMPLE
  LOCATIONS BA01A01–BA03A01
- AC SURFACE COURSE SAMPLE
  LOCATION BA04A01–BA08A01
- NUCLEAR DENSITY TESTS
  F01A01–F03A01
- ASPHALT CEMENT SAMPLE
  BC01A01
- COMBINED AGGREGATE PLANT SAMPLE
  BU01A01

POST CONSTRUCTION

- 152mm CORE SPECIMEN
  CA01A01–CA08A01
  CA01B01–CA08B01
  CA01C01–CA08C01
  CA01D01–CA08D01
  CA01E01–CD08E01
  CA01F01–CA08F01

MARSHALL DESIGN
PEN GRADE
AC

NJ DOT SPS-9A
EB I-195 E. OF EXIT 5 TO E OF EXIT 11

PLOTDATE: FEB 14/96	FHWA SPS-9A TEST SECTIONS ONLY DIMENSIONAL DETAILS ONLY
SPS-9A-340901	DRAWING NOT TO SCALE

FIGURE 3-MATERIALS SAMPLING AND TESTING PLAN SPS-9A SECTION 340901

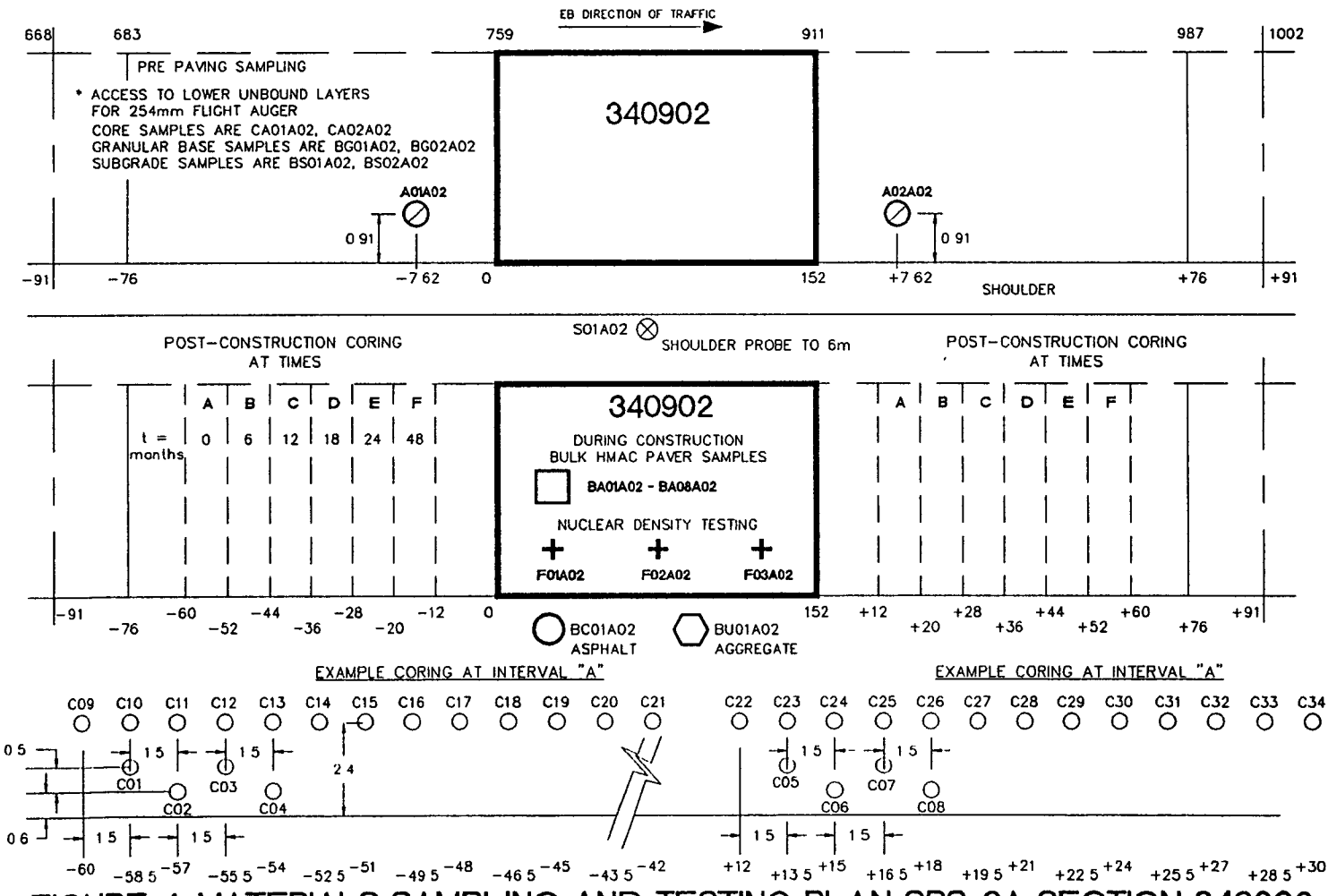
340901

NJ DOT SPS-9A ALLENTOWN DESIGN SCHEMATIC

VALIDATION OF SHRP ASPHALT SPECIFICATIONS AND MIX DESIGN AND INNOVATIONS IN ASPHALT PAVEMENTS

shrp

PMS — PAVEMENT MANAGEMENT SYSTEMS LIMITED



PRE CONSTRUCTION

- ⊘ A TYPE 305mm CORE*
  LOCATIONS A01A02, A02A02
  SUBGRADE – BS01A02,BS02A02
  SUBBASE – BG01A02
  BASE – BG02A02
- ⊗ SHOULDER AUGER PROBE TO 6m
  S01A02

DURING & POST CONSTRUCTION

- □ AC BINDER COURSE SAMPLE
  LOCATIONS BA01A02–BA03A02
  AC SURFACE COURSE SAMPLE
  LOCATION BA04A02–BA08A02
- + NUCLEAR DENSITY TESTS
  F01A02–F03A02
- ○ ASPHALT CEMENT SAMPLE
  BC01A02
- ⬡ COMBINED AGGREGATE PLANT SAMPLE BU01A02

POST CONSTRUCTION

- ○ 152mm CORE SPECIMEN
  CA01A02–CA08A02
  CA01B02–CA08B02
  CA01C02–CA08C02
  CA01D02–CA08D02
  CA01E02–CD08E02
  CA01F02–CA08F02

SUPERPAVE DESIGN PG 58-28

NJ DOT SPS-9A
EB I-195 E OF EXIT 5 TO E OF EXIT 11

PLOTDATE FEB 14/96	FHWA SPS-9A TEST SECTIONS ONLY DIMENSIONAL DETAILS ONLY
SPS-9A-340902	DRAWING NOT TO SCALE

FIGURE 4-MATERIALS SAMPLING AND TESTING PLAN SPS-9A SECTION 340902

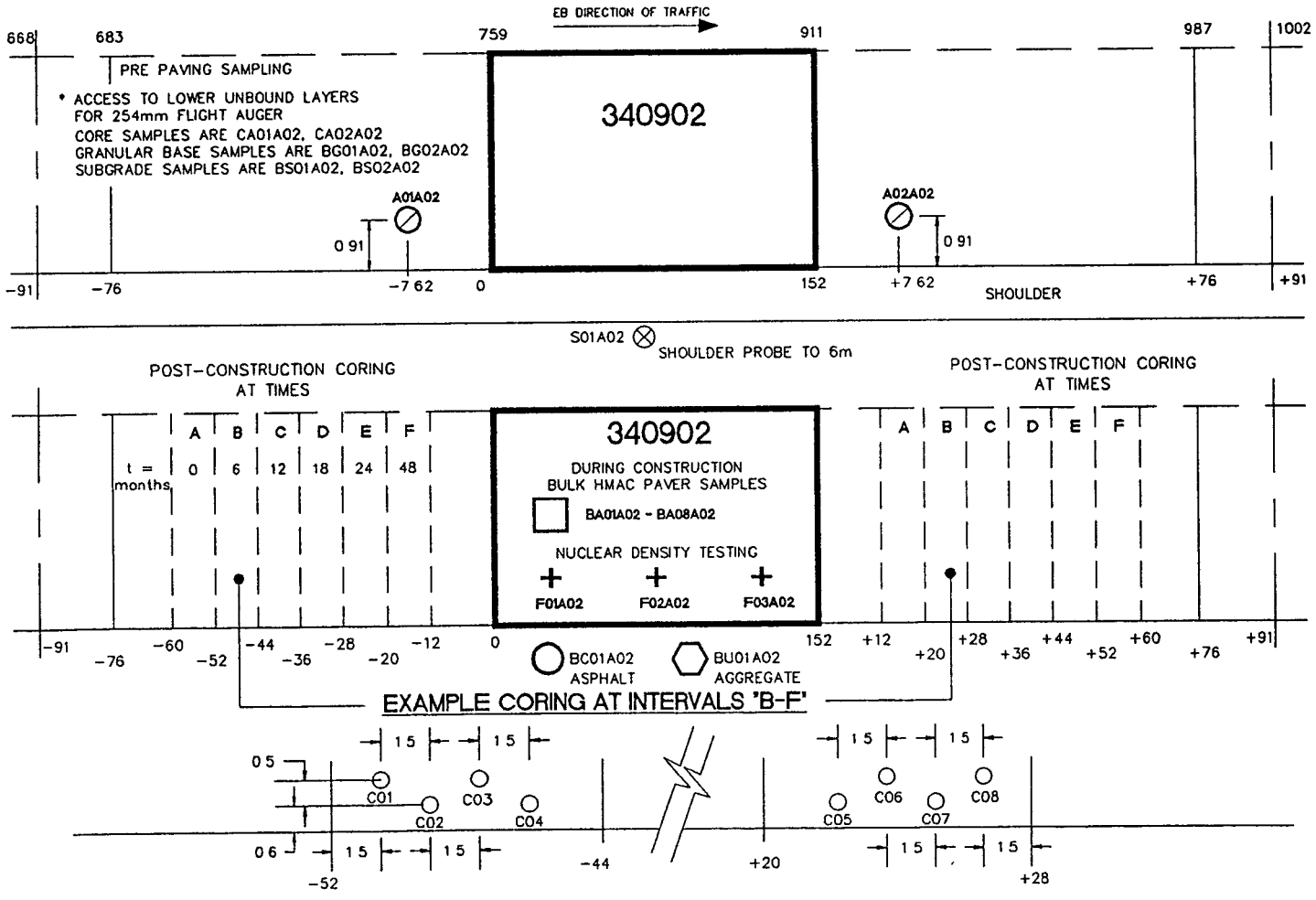
340902

NJ DOT SPS-9A ALLENTOWN DESIGN SCHEMATIC

VALIDATION OF SHRP ASPHALT SPECIFICATIONS AND MIX DESIGN AND INNOVATIONS IN ASPHALT PAVEMENTS

shrp

PMS — PAVEMENT MANAGEMENT SYSTEMS LIMITED



PRE CONSTRUCTION

- ⊘ A TYPE 305mm CORE*
  LOCATIONS A01A02, A02A02
  SUBGRADE – BS01A02,BS02A02
  SUBBASE – BG01A02
  BASE – BG02A02
- ⊗ SHOULDER AUGER PROBE TO 6m
  S01A02

DURING & POST CONSTRUCTION

- □ AC BINDER COURSE SAMPLE
  LOCATIONS BA01A02–BA03A02
  AC SURFACE COURSE SAMPLE
  LOCATION BA04A02–BA08A02
- + NUCLEAR DENSITY TESTS
  F01A02–F03A02
- ○ ASPHALT CEMENT SAMPLE
  BC01A02
- ⬡ COMBINED AGGREGATE PLANT SAMPLE
  BU01A02

POST CONSTRUCTION

- ○ 152mm CORE SPECIMEN
  CA01A02–CA08A02
  CA01B02–CA08B02
  CA01C02–CA08C02
  CA01D02–CA08D02
  CA01E02–CD08E02
  CA01F02–CA08F02

SUPERPAVE DESIGN PG 58-28

NJ DOT SPS-9A
EB I-195 E OF EXIT 5 TO E OF EXIT 11

PLOTDATE: FEB 14/98	FHWA SPS-9A TEST SECTIONS ONLY DIMENSIONAL DETAILS ONLY
SPS-9A-340902a	DRAWING NOT TO SCALE

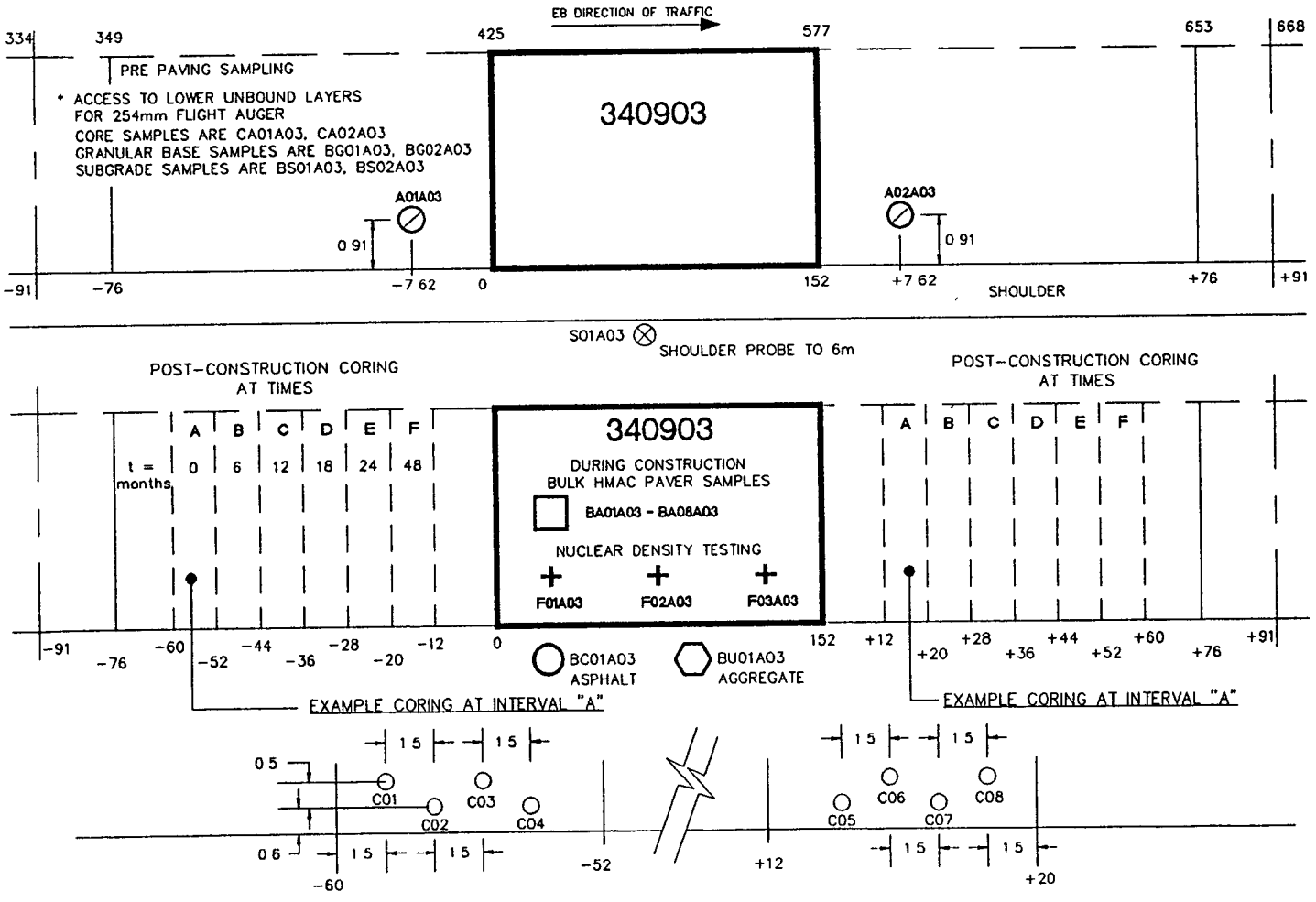
FIGURE 4A-MATERIALS SAMPLING AND TESTING PLAN SPS-9A SECTION 340902

340902A

NJ DOT SPS-9A ALLENTOWN DESIGN SCHEMATIC

VALIDATION OF SHRP ASPHALT SPECIFICATIONS AND MIX DESIGN AND INNOVATIONS IN ASPHALT PAVEMENTS

PAVEMENT MANAGEMENT SYSTEMS LIMITED



PRE CONSTRUCTION

- ⊘ A TYPE 305mm CORE*
  LOCATIONS A01A03, A02A03
  SUBGRADE – BS01A03,BS02A03
  SUBBASE – BG01A03
  BASE – BG02A03
- ⊗ SHOULDER AUGER PROBE TO 6m
  S01A03

DURING & POST CONSTRUCTION

- □ AC BINDER COURSE SAMPLE
  LOCATIONS BA01A03–BA03A03
  AC SURFACE COURSE SAMPLE
  LOCATION BA04A03–BA08A03
- + NUCLEAR DENSITY TESTS
  F01A03–F03A03
- ○ ASPHALT CEMENT SAMPLE
  BC01A03
- ⬡ COMBINED AGGREGATE PLANT SAMPLE BU01A03

POST CONSTRUCTION

- ○ 152mm CORE SPECIMEN
  CA01A03–CA08A03
  CA01B03–CA08B03
  CA01C03–CA08C03
  CA01D03–CA08D03
  CA01E03–CD08E03
  CA01F03–CA08F03

SUPERPAVE DESIGN PG 52-28

NJ DOT SPS-9A
EB I-195 E. OF EXIT 5 TO E OF EXIT 11

PLOTDATE: FEB 14/96	FHWA SPS-9A TEST SECTIONS ONLY DIMENSIONAL DETAILS ONLY
SPS-9A-340903	DRAWING NOT TO SCALE

FIGURE 5-MATERIALS SAMPLING AND TESTING PLAN SPS-9A SECTION 340903

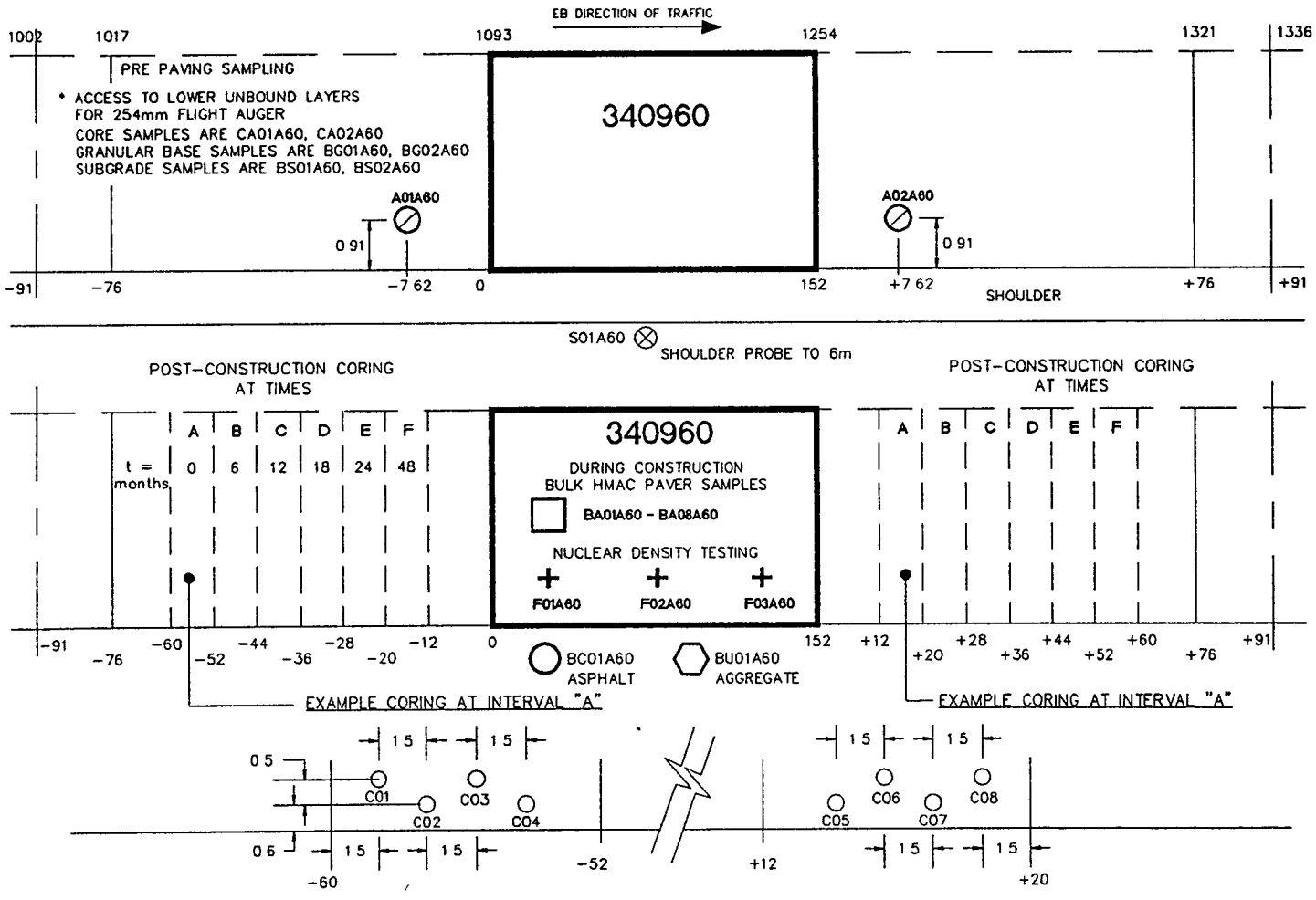
340903

shrp

NJ DOT SPS-9A ALLENTOWN DESIGN SCHEMATIC

VALIDATION OF SHRP ASPHALT SPECIFICATIONS AND MIX DESIGN AND INNOVATIONS IN ASPHALT PAVEMENTS

PMS PAVEMENT MANAGEMENT SYSTEMS LIMITED



PRE CONSTRUCTION

- A TYPE 305mm CORE*
  LOCATIONS A01A60, A02A60
  SUBGRADE – BS01A60,BS02A60
  SUBBASE – BG01A60
  BASE – BG02A60
- SHOULDER AUGER PROBE TO 6m
  S01A60

DURING & POST CONSTRUCTION

- AC BINDER COURSE SAMPLE
  LOCATIONS BA01A60–BA03A60
- AC SURFACE COURSE SAMPLE
  LOCATION BA04A60–BA08A60
- NUCLEAR DENSITY TESTS
  F01A60–F03A60
- ASPHALT CEMENT SAMPLE
  BC01A60
- COMBINED AGGREGATE PLANT SAMPLE BU01A60

POST CONSTRUCTION

- 152mm CORE SPECIMEN
  CA01A60–CA08A60
  CA01B60–CA08B60
  CA01C60–CA08C60
  CA01D60–CA08D60
  CA01E60–CD08E60
  CA01F60–CA08F60

SUPERPAVE DESIGN PG 64-28

NJ DOT SPS-9A
EB I-195 E OF EXIT 5 TO E OF EXIT 11

PLOTDATE: FEB 14/96 | FHWA SPS-9A TEST SECTIONS ONLY DIMENSIONAL DETAILS ONLY
SPS-9A-340960 | DRAWING NOT TO SCALE

FIGURE 6-MATERIALS SAMPLING AND TESTING PLAN SPS-9A SECTION 340960

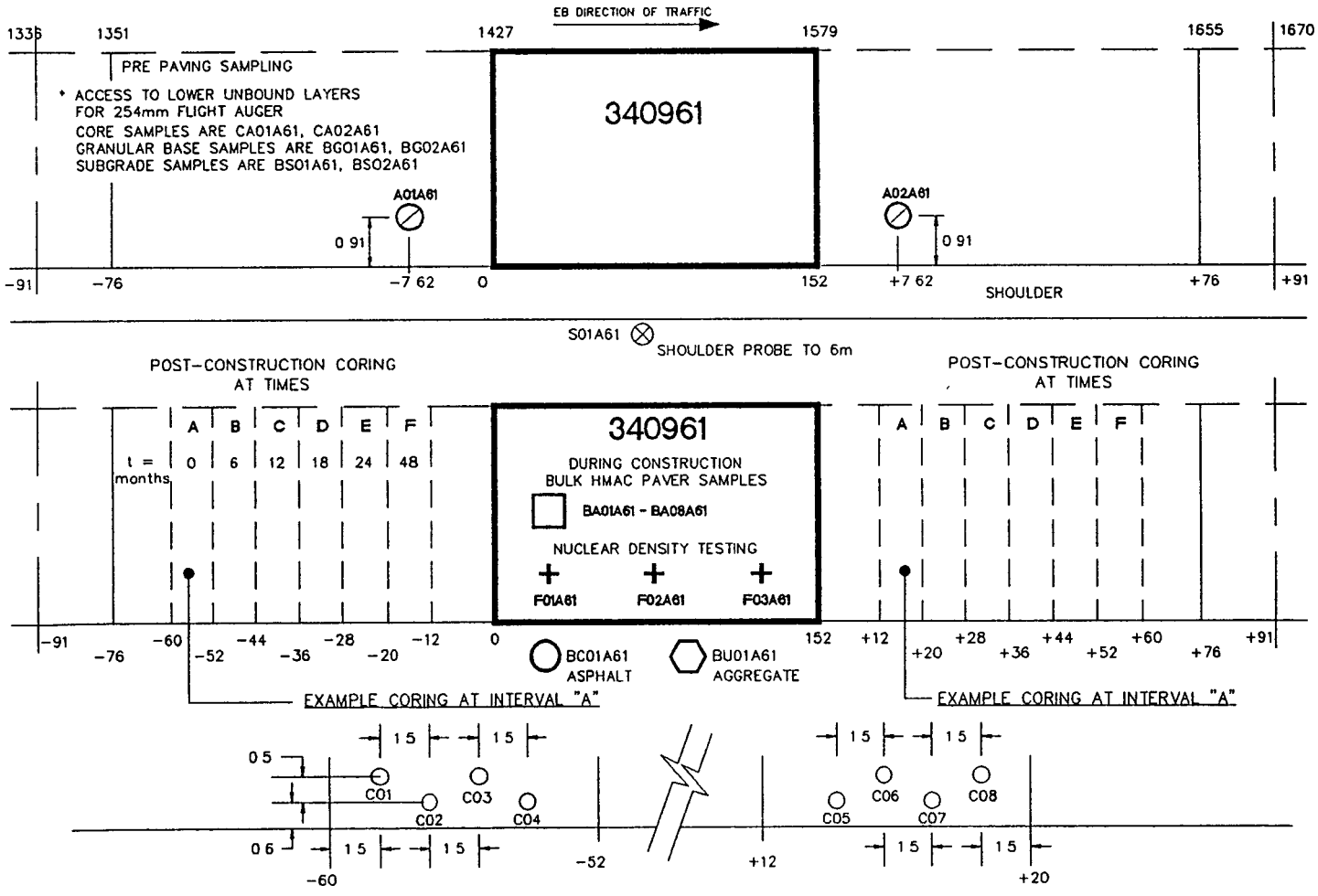
340960

NJ DOT SPS-9A ALLENTOWN DESIGN SCHEMATIC

VALIDATION OF SHRP ASPHALT SPECIFICATIONS AND MIX DESIGN AND INNOVATIONS IN ASPHALT PAVEMENTS

shrp

PMS — PAVEMENT MANAGEMENT SYSTEMS LIMITED



PRE CONSTRUCTION

- A TYPE 305mm CORE*
  LOCATIONS A01A61, A02A61
  SUBGRADE – BS01A61,BS02A61
  SUBBASE – BG01A61
  BASE – BG02A61
- SHOULDER AUGER PROBE TO 6m
  S01A61

DURING & POST CONSTRUCTION

- AC BINDER COURSE SAMPLE
  LOCATIONS BA01A61–BA03A61
  AC SURFACE COURSE SAMPLE
  LOCATION BA04A61–BA08A61
- NUCLEAR DENSITY TESTS
  F01A61–F03A61
- ASPHALT CEMENT SAMPLE
  BC01A61
- COMBINED AGGREGATE PLANT SAMPLE BU01A61

POST CONSTRUCTION

- 152mm CORE SPECIMEN
  CA01A61–CA08A61
  CA01B61–CA08B61
  CA01C61–CA08C61
  CA01D61–CA08D61
  CA01E61–CD08E61
  CA01F61–CA08F61

SUPERPAVE DESIGN PG 76-28*

NJ DOT SPS-9A
EB I-195 E OF EXIT 5 TO E OF EXIT 11

PLOTDATE: FEB 14/90	FHWA SPS-9A TEST SECTIONS ONLY DIMENSIONAL DETAILS ONLY
SPS-9A-340961	DRAWING NOT TO SCALE

FIGURE 7-MATERIALS SAMPLING AND TESTING PLAN SPS-9A SECTION 340961

340961

TABLE 1
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
Pavement Structure

Layer No.	Project Layer Code	Layer Thickness mm	Material Code	Material Description/Comments	Depth to Rock m
1	A	---	204	Sand to Silty Sand Subgrade	
2	B	127	308	**Subbase** Coarse Grained Soil-Aggregate Mixture	
3	C	127	308	**Base** Coarse Grained Soil-Aggregate Mixture	
4	D	152	28	**Existing Pavement** HMAC Binder	
5	E	76*	01	HMAC Surface	
6	F	76	28	**New Overlay** HMAC Binder Course	
7	G	65	01	HMAC Surface Course	

* 51mm to be removed by milling

TABLE 2
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
Agency Field Testing

Field Tests	Test	No. of Tests	Test Location (Identifier)
Pre-Construction			**Monitoring**
Depth to Rigid Layer	shoulder auger probe to 6m or refusal	1 per section	Sta 0+076 at edge of shoulder (S01AXX)
HMAC Binder Course			
Nuclear Density Tests	AASHTO T238-86 backscatter	3 per section	Sta 0+030, 0+076, and 0+122, 1m from pavement edge (T01AXX-T03AXX)
Establish TBM's and Baseline Levels (Existing Surface and Milled Surface)	rod and level	55 per section	5 transverse locations (pavement edges, mid-lane, wheel tracks) at 15m intervals
Post-Construction			
Nuclear Density Tests Finished Surfaces	AASHTO T238-86 backscatter	3 per section	Sta 0+030, 0+076, and 0+122, 1m from pavement edge (T04AXX-T06AXX)
Finished Surface Levels and on Top of Intermediate Layers where Desired	rod and level	55 per section	Above points located in baseline survey

Note: XX Last two digits of location identifiers is the section number (01, 02, 03, 60 and 61)
Stationing is in metres

TABLE 3
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
Agency Laboratory Testing Summary

Laboratory Test	LTPP Test	LTPP Protocol	No. of Tests	Source of Material
EXISTING PAVEMENT				
Subgrade				**10kg Bulk Samples and Jar Samples**
Sieve Analysis	SS01	P51	10	BS01A01, BS02A01, BS01A02, BS02A02, BS01A03, BS02A03 BS01A60, BS02A60, BS01A61, BS02A61
Atterberg Limits	SS03	P43	10	BS01A01, BS02A01, BS01A02, BS02A02, BS01A03, BS02A03 BS01A60, BS02A60, BS01A61, BS02A61
Classification	SS04	P52	10	BS01A01, BS02A01, BS01A02, BS02A02, BS01A03, BS02A03 BS01A60, BS02A60, BS01A61, BS02A61
Natural Moisture Content	SS09	P49	10	MS01A01, MS02A01, MS01A02, MS02A02, MS01A03, MS02A03 MS01A60, MS02A60, MS01A61, MS02A61
Unbound Subbase and Base				**25kg Bulk Samples**
Particle Size Analysis	UG01	P41	10	BG01A01, BG02A01, BG01A02, BG02A02, BG01A03, BG02A03 BG01A60, BG02A60, BG01A61, BG02A61
Sieve Analysis (washed)	UG02	P41	10	BG01A01, BG02A01, BG01A02, BG02A02, BG01A03, BG02A03 BG01A60, BG02A60, BG01A61, BG02A61
Atterberg Limits	UG04	P43	10	BG01A01, BG02A01, BG01A02, BG02A02, BG01A03, BG02A03 BG01A60, BG02A60, BG01A61, BG02A61
Classification	UG08	P47	10	BG01A01, BG02A01, BG01A02, BG02A02, BG01A03, BG02A03 BG01A60, BG02A60, BG01A61, BG02A61
Natural Moisture Content	UG10	P49	10	MG01A01, MG02A01, MG01A02, MG02A02, MG01A03, MG02A03 MG01A60, MG02A60, MG01A61, MG02A61

BG01AXX and BG02AXX are Unbound Granular Subbase and Base respectively.

TABLE 4
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
Agency Laboratory Tests on Mix Components

Laboratory Test	LTPP Test	LTPP Protocol	No. of Tests	Source of Material **				
Aggregates				**Marshall Aggregates**	**Superpave Aggregates**			
Combined Aggregate Gradation	AG04	P14	2	BU01A01	BU01A02			
Specific Gravity of Co Agg	AG01	P11	2	BU01A01	BU01A02			
Specific Gravity of Fine Agg	AG02	P12	2	BU01A01	BU01A02			
Specific Gravity of Pass 200		AASHTO T100	2	BU01A01	BU01A02			
Coarse Agg Angularity		PA DOT TM621	2	BU01A01	BU01A02			
Fine Agg Angularity		ASTM C1252	2	BU01A01	BU01A02			
Toughness		AASHTO T96	2	BU01A01	BU01A02			
Soundness		AASHTO T104	2	BU01A01	BU01A02			
Deleterious Material		AASHTO T112	2	BU01A01	BU01A02			
Clay Content		AASHTO T176	2	BU01A01	BU01A02			
Thin, Elongated Particles		ASTM D4791	2	BU01A01	BU01A02			
Asphalt Cement*				85-100 Penetration Grade	PG58-28	PG76-28 Modified	PG52-28	PG64-28
Penetration @ 5 deg C		AASHTO T49	5	BC01A01	BC01A02	BC01A61	BC01A03	BC01A60
Penetration @ 25 deg , 46 deg C	AE02	P22	5	BC01A01	BC01A02	BC01A61	BC01A03	BC01A60
Viscosity @ 60 deg., 135 deg C	AE05	P25	10	BC01A01	BC01A02	BC01A61	BC01A03	BC01A60
Specific Gravity @ 16 deg C	AE03	P23	5	BC01A01	BC01A02	BC01A61	BC01A03	BC01A60
Dynamic Shear @ 3 Temps		AASHTO TP5	5	BC01A01	BC01A02	BC01A61	BC01A03	BC01A60
Brookfield Viscosity 135 deg., 165 deg C		ASTM D4402	5	BC01A01	BC01A02	BC01A61	BC01A03	BC01A60
Rolling Thin Film (RTFOT)*		AASHTO T240	10+	BC01A01	BC01A02	BC01A61	BC01A03	BC01A60
Dynamic Shear on RTFOT Residue @ 3 Temps		AASHTO TP5	5	BC01A01	BC01A02	BC01A61	BC01A03	BC01A60
Pressure Aging (PAV) of RTFOT Residue*		AASHTO PP1	10+	BC01A01	BC01A02	BC01A61	BC01A03	BC01A60
Creep Stiffness of PAV Residue - 24h Conditioning		AASHTO TP1	5	BC01A01	BC01A02	BC01A61	BC01A03	BC01A60
Creep Stiffness of PAV Residue (2 Temps)		AASHTO TP1	10	BC01A01	BC01A02	BC01A61	BC01A03	BC01A60
Dynamic Shear on PAV Residue (3 Temps)		AASHTO TP5	5	BC01A01	BC01A02	BC01A61	BC01A03	BC01A60
Direct Tension on PAV Residue (2 Temps)		AASHTO TP3	10	BC01A01	BC01A02	BC01A61	BC01A03	BC01A60

* Consult SPS-9A Sampling & Testing Guidelines, February 1996, for Quantities, Temperatures, Conditioning Times

** If aggregates used in the Marshall Design Mixes are from the same source as Superpave Mixes, there is no need to repeat testing on Marshall Aggregates

TABLE 5
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
Level 1 Mix Design Testing for DOT and Superpave Alternative Mixes
Agency Laboratory

Laboratory Test	LTPP Test	LTPP Protocol	No. of Tests	Source of Material (Specimen)
Gyratory Compacted Test Specimen for Sections 340901, 340903, 340960, 340961				
@ Design % AC and N_{Max}				
% AC Wearing Course (19mm max)		AASHTO M-002	3	NA01AXX-NA03AXX (LA01AXX-LA03AXX)
% AC Binder (25mm max)			3	NA51AXX-NA53AXX (LA51AXX-LA53AXX)
@ Design % AC and 7% Air Voids				
% AC Wearing Course (19mm max)		AASHTO M-002	6	NA04AXX-NA09AXX (LA04AXX-LA09AXX)
% AC Binder (25mm max)			6	NA54AXX-NA59AXX (LA54AXX-LA59AXX)
Moisture Susceptibility (requires 6 specimen)	AC05	AASHTO T-238	2	LA04AXX-LA09AXX, LA54AXX-LA59AXX
Bulk Specific Gravity	AC02	P02	18	LA01AXX-LA09AXX, LA51AXX-LA59AXX
Maximum Specific Gravity	AC03	P03	2	NA01AXX, NA51AXX
Volumetrics (calculations)[3]				
Volume Percent of Air Voids		AASHTO PP19	6	LA01AXX-LA03AXX, LA51AXX-LA53AXX
Percent Voids in Mineral Aggregate		AASHTO PP19	6	LA01AXX-LA03AXX, LA51AXX-LA53AXX
Voids Filled with Asphalt		AASHTO PP19	6	LA01AXX-LA03AXX, LA51AXX-LA53AXX

Note 1: For Project 340900 N_{init} = 9, N_{Design} = 126, N_{MAX} = 204, XX represents sections 01, 03, 60 and 61

Note 2: Section 03, 60, and 61 use same aggregate gradation as in section 02, Superpave Mix Design but with alternative binders PG52-28, PG64-28, and Polymer modified PG76-28 Respectively

Note 3: Estimate corrected bulk specific gravity at N_{Design} from Density vs Gyrations to N_{Max} curves and use this value for the Volumetric Calculations

TABLE 6
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ - Section 340902
Superpave Level 3 Mix Testing, Agency Laboratory

Laboratory Test	LTPP Test	LTPP Protocol	No. of Tests	Source of Material (Specimen)
Gyratory Compactor @ N_{Max} (Lab Samples)		AASHTO M-002	6 6	NA01A02-NA06A02 (LA01A02-LA06A02) NA51A02-NA56A02 (LA51A02-LA56A02)
Gyratory Compactor @ 3% AV (Lab Samples)		AASHTO M-002	2 2	NA07A02-NA08A02 (LA07A02-LA08A02) NA57A02-NA58A02 (LA57A02-LA58A02)
Gyratory Compactor @ 7% AV (Lab Samples)		AASHTO M-002	32 32	NA09A02-NA40A02 (LA09A02-LA40A02) NA59A02-NA90A02 (LA59A02-LA90A02)
Gyratory Compactor @ 3% AV (Field Samples)		AASHTO M-002	2+2	BA04A02, BA01A02 (DA01A02, DA34A02, DA51A02, DA84A02)
Gyratory Compactor @ 7% AV (Field Samples)		AASHTO M-002	26 26	BA04A02-BA08A02 (DA05A02-DA30A02) BA01A02-BA03A02 (DA55A02-DA80A02)
Gyratory Compactor @ N_{Max} (Field Samples)		AASHTO M-002	6 6	BA04A02-BA08A02 (DA02A02-DA04A02, DA31A02-DA33A02) BA01A02-BA03A02 (DA52A02-DA54A02, DA81A02-DA83A02)
Bulk Specific Gravity *	AC02	P02		LA01A02-LA07A02, LA15A02, LA38A02
Asphalt Content (Extraction)	AC04	P04	6	BA01A02-BA03A02, BA04A02-BA06A02
Aggregate Gradation (Extracted Aggregate)	AG04	P14	2	BA01A02 , BA04A02
Maximum Specific Gravity	AC03	P03	6	NA15A02, BA04A02, BA06A02, NA65A02, BA01A02, BA03A02
Moisture Susceptibility	AC05	P05	2	LA09A02-LA14A02, LA59A02-LA64A02
Volumetrics**				Same Specimen for all Volumetrics
Volume Percent of Air Voids		AASHTO PP19	12	LA01A02-LA06A02, LA51A02-LA56A02
Percent Voids in Mineral Aggregate		AASHTO PP19	12	Same
Voids Filled with Asphalt		AASHTO PP19	12	Same

Bulk Paver Samples in 340902 are approximately 70kg (12 or more compacted specimen from each sample)
See Notes on Preparation of Gyratory Compacted Test Specimen attached N_{Max} = 204

* These specimen are then included in the shipment with other gyratory compacted samples to the LTPP Contractor Laboratory, PCS/Law Engineering, Atlanta, GA and the Superpave Regional Test Center

** The corrected bulk density at N_{Design} shall be estimated from the gyratory compaction curves, Density vs Gyrations to N_{Max} for calculation of the volumetric properties

TABLE 7
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ - Section 340902
Superpave Level 3 Mix Testing, LTPP Contractor Laboratory

Laboratory Test	LTPP Test	LTPP Protocol	No. of Tests	Source of Material
Creep Compliance	AC06	P06	12	LA19A02-LA22A02 DA15A02, DA16A02, DA18A02, DA30A02 CA03A02, CA14A02, CA23A02, CA32A02
Indirect Tensile Strength	AC07	P07	12	LA15A02-LA18A02 DA05A02, DA09A02, DA17A02, DA29A02 CA07A02, CA16A02, CA21A02, CA31A02
Resilient Modulus	AC07	P07	3	LA16A02-LA18A02 DA09A02, DA17A02, DA20A02 CA16A02, CA21A02, CA31A02

Note: 100mm dia test specimen will be cored from the 152mm dia specimen and cores

TABLE 8
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ - Section 340902
Superpave Level 3 Mix Testing, Superpave Regional Test Center

Laboratory Test	LTPP Protocol	No. of Tests	Source of Material/Product
Frequency Sweep at Constant Height	AASHTO M-003, P-005 SST-1	10	LA23A02-LA26A02 DA06A02, DA10A02, DA24A02, DA28A02 CA04A02, CA30A02
Simple Shear at Constant Height	AASHTO M-003, P-005 SST-1		
Uniaxial Strain	AASHTO M-003, P-005 SST-2	10	LA27A02-LA30A02 DA07A02, DA11A02, DA23A02, DA27A02 CA12A02, CA22A02
Volumetric Test	AASHTO M-003, P-005 SST-2		
Repeated Shear at Constant Stress Ratio	AASHTO M-003, P-005 SST-3	6	LA07A02, LA08A02 DA01A02, DA34A02 CA09A02, CA26A02
Indirect Tensile Creep Compliance	AASHTO M-005 SP-1T	30	LA31A02-LA40A02 DA08A02, DA12A02-DA22A02 DA25A02-DA26A02 CA01A02, CA08A02, CA10A02, CA13A02 CA17A02-CA18A02, CA20A02 CA27A02, CA29A02, CA34A02
Indirect Tensile Strength	AASHTO M-005 SP-1T		

TABLE 9
Bulk Material Samples to be Shipped to the LTPP Materials Reference Library (MRL) 1625 Crane Way, Sparks, NV, 89431 from Project 340900

Material	Number
Asphalt cement collected from the plant in 20-litre pails	1 for each type of binder
Combined coarse and fine aggregate obtained from the plant and stored in 20-litre pails	10 for each aggregate combination

Notes:

The MRL will provide containers and will pay for shipping costs.

Contact the MRL @ (702) 358-7574 prior to construction to make arrangements for sample containers and to receive specific shipping instructions Contacts are Mr Jim Nichols/Rodney Soule or Mr Cal Berge

Only one sample of each unique asphalt binder used in the SPS-9A mixes is needed. If the same binder is used in more than one mix, then only one sample of that binder should be obtained

A copy of LTPP Field Operations Information Form 1 should be completed and attached to all MRL shipments A copy of the form should be mailed separately to the MRL. Mail other completed copy to Mr. Alfred Lip at the LTPP Regional office, 415 Lawrence Bell Drive, Suite 3, Amherst, NY, 14221 - telephone (716) 632-0804

TABLE 10
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
Agency Laboratory Tests on Cores Taken at Time A=O

Laboratory Test	LTPP Test	LTPP Protocol	No. of Tests/ Per Layer	Source of Material
Core Examination/Thickness	AC01	P01	66	All Cores
Bulk Specific Gravity	AC02	P02	66	All Cores*
Max Specific Gravity	AC03	P03	10	CA11A02, CA24A02, CA01AXX, CA08AXX
Asphalt Content (Extraction)	AC04	P04	40	CA02A02, CA06A02, CA11A02, CA15A02 CA19A02, CA24A02, CA28A02, CA33A02 and All A Cores from Sections 01, 03, 60, 61
Aggregate Gradation (Extracted Agg)	AG04	P14	10	CA11A02, CA24A02 and CA01AXX, CA08AXX
Volumetrics				
Volume Percent of Air Voids		AASHTO PP19	10	CA11A02, CA24A02 and CA01AXX, CA08AXX
Percent Voids in Mineral Aggregate		AASHTO PP19	10	CA11A02, CA24A02 and CA01AXX, CA08AXX
Voids Filled with Asphalt		AASHTO PP19	10	CA11A02, CA24A02 and CA01AXX, CA08AXX
Recovered Asphalt Cement				
Abson Recovery	AE01	P21	40	CA02A02, CA06A02, CA11A02, CA15A02 CA19A02, CA24A02, CA28A02, CA33A02 CA01AXX-CA08AXX
Penetration @ 5 deg C		AASHTO T49	5	Combined Sample from Each Test Section
Penetration @ 25 deg C and 46 deg C	AE02	P22	5	Combined Sample from Each Test Section
Viscosity @ 60 deg. C and 135 deg C	AE05	P25	10	Combined Sample from Each Test Section
Specific Gravity @ 16 deg C	AE03	P23	5	Combined Sample from Each Test Section
Dynamic Shear @ 3 Temperatures		AASHTO TP5	5	Combined Sample from Each Test Section
Creep Stiffness @ 2 Temperatures		AASHTO TP1	10	Combined Sample from Each Test Section
Direct Tension @ 2 Temperatures		AASHTO TP3	10	Combined Sample from Each Test Section

XX are for test sections 01, 03, 60 and 61

* Cores CA01A02, CA04A02, CA08A02-CA10A02, CA12A02, CA13A02, CA17A02, CA18A02, CA20A02, CA22A02, CA26A02, CA27A02, CA29A02, CA30A02, CA34A02 are packaged and sent to the Superpave Regional Test Center

Cores CA03A02, CA07A02, CA14A02, CA16A02, CA21A02, CA23A02, CA31A02, CA32A02 are sent to the LTPP Contractor Laboratory

TABLE 11
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
Post Construction Monitoring Tests on All Sections - Agency Laboratory Cores at Time Intervals B Through F (6, 12, 18, 24, 48 Months)

Laboratory Test	LTPP Test	LTPP Protocol	No. of Tests/Per Layer	Source of Material
Core Examination/Thickness	AC01	P01	40 per time interval	All Cores from All Sections
Bulk Specific Gravity	AC02	P02	40	All Cores from All Sections
Maximum Specific Gravity	AC03	P03	10	(CA01tXX, CA08tXX) All Sections
Asphalt Content (Extraction)	AC04	P04	40	All Cores from All Sections
Aggregate Gradation (Extracted Agg)	AG04	P14	10	(CA01t01, CA08t01), (CA01t02, CA08t02), (CA01t03, CA08t03), (CA01t60, CA08t60) (CA01t61, CA08t61)
Volumetrics*				
Volume Percent of Air Voids		AASHTO PP19	40	All Cores
Percent Voids in Mineral Aggregate		AASHTO PP19	40	All Cores
Voids Filled with Asphalt		AASHTO PP19	40	All Cores
Recovered Asphalt Cement				
Abson Recovery	AE01	P21	40	All Cores
Penetration @ 5 deg C		AASHTO T49	5	Combined Recovered AC from Each Section
Penetration @ 25 deg C and 46 deg C	AE02	P22	10	Combined Recovered AC from Each Section
Viscosity @ 60 deg. C and 135 deg C	AE05	P25	10	Combined Recovered AC from Each Section
Specific Gravity @ 16 deg C	AE03	P23	5	Combined Recovered AC from Each Section
Dynamic Shear @ 3 Temperatures**		AASHTO TP5	5	Combined Recovered AC from Each Section
Creep Stiffness @ 2 Temperatures**		AASHTO TP1	10	Combined Recovered AC from Each Section
Direct Tension @ 2 Temperatures**		AASHTO TP3	10	Combined Recovered AC from Each Section

* Estimate max theoretical specific gravity using extracted AC content and aggregate effective S G. determined during construction

** The test temperatures should be the same as those used for the tests on the RTFOT-PAV conditioned samples performed during the initial binder grading

TABLE 12
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
Laboratory Tracking Table for Subgrade
Laboratory: Agency

Sample Location No.	Constr. Sta.	Offset m	Sample No.	Lab Test No.	Description of Sample	Laboratory Handling & Test Sequencing					
						First	Second	Third	Fourth	Fifth	Sixth
Subgrade											
A01A01		1	BS01A01	2	10kg Bulk Sample	SS01/P51	SS03/P43	SS04/P52			
A01A02		1	BS01A02	2	10kg Bulk Sample	SS01/P51	SS03/P43	SS04/P52			
A01A03		1	BS01A03	2	10kg Bulk Sample	SS01/P51	SS03/P43	SS04/P52			
A01A60		1	BS01A60	2	10kg. Bulk Sample	SS01/P51	SS03/P43	SS04/P52			
A01A61		1	BS01A61	2	10kg Bulk Sample	SS01/P51	SS03/P43	SS04/P52			
A01A01		1	MS01A01	2	Moisture Jar Sample	SS09/P49					
A01A02		1	MS01A02	2	Moisture Jar Sample	SS09/P49					
A01A03		1	MS01A03	2	Moisture Jar Sample	SS09/P49					
A01A60		1	MS01A60	2	Moisture Jar Sample	SS09/P49					
A01A61		1	MS01A61	2	Moisture Jar Sample	SS09/P49					

TABLE 13
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
Laboratory Tracking Table for Granular Subbase and Granular Base
Laboratory: Agency

Sample Location No.	Constr. Sta.	Offset m	Sample No.	Lab Test No.	Description of Sample	Laboratory Handling & Test Sequencing					
						First	Second	Third	Fourth	Fifth	Sixth
A01A01		1	BG01A01	2	25kg. Bulk Sample	UG01/P41	UG02P41	UG04/P43	UG08/P47		
A02A01		1	BG02A01	2	25kg Bulk Sample	UG01/P41	UG02P41	UG04/P43	UG08/P47		
A01A02		1	BG01A02	2	25kg Bulk Sample	UG01/P41	UG02P41	UG04/P43	UG08/P47		
A02A02		1	BG02A02	2	25kg. Bulk Sample	UG01/P41	UG02P41	UG04/P43	UG08/P47		
A01A03		1	BG01A03	2	25kg. Bulk Sample	UG01/P41	UG02P41	UG04/P43	UG08/P47		
A02A03		1	BG02A03	2	25kg Bulk Sample	UG01/P41	UG02P41	UG04/P43	UG08/P47		
A01A60		1	BG01A60	2	25kg Bulk Sample	UG01/P41	UG02P41	UG04/P43	UG08/P47		
A02A60		1	BG02A60	2	25kg Bulk Sample	UG01/P41	UG02P41	UG04/P43	UG08/P47		
A01A61		1	BG01A61	2	25kg Bulk Sample	UG01/P41	UG02P41	UG04/P43	UG08/P47		
A02A61		1	BG02A61	2	25kg. Bulk Sample	UG01/P41	UG02P41	UG04/P43	UG08/P47		
A01A01		1	MG01A01	2	Moisture Jar Sample	UG10/P49					
A02A01		1	MG02A01	2	Moisture Jar Sample	UG10/P49					
A01A02		1	MG01A02	2	Moisture Jar Sample	UG10/P49					
A02A02		1	MG02A02	2	Moisture Jar Sample	UG10/P49					
A01A03		1	MG01A03	2	Moisture Jar Sample	UG10/P49					
A02A03		1	MG02A03	2	Moisture Jar Sample	UG10/P49					
A01A60		1	MG01A60	2	Moisture Jar Sample	UG10/P49					
A02A60		1	MG02A60	2	Moisture Jar Sample	UG10/P49					
A01A61		1	MG01A61	2	Moisture Jar Sample	UG10/P49					
A02A61		1	MG02A61	2	Moisture Jar Sample	UG10/P49					

BG01AXX is an Unbound Granular Subbase Sample
BG02AXX is an Unbound Granular Base Sample

TABLE 14
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
Laboratory Tracking Table for Combined Aggregate Samples
Laboratory: Agency

Sample Location No.	Constr. Sta.	Offset m	Sample No.	Lab Test No.	Description of Sample	Laboratory Handling & Test Sequencing					
						First	Second	Third	Fourth	Fifth	Sixth
	Plant		BU01A01	3	400kg Combined Agg Sample DOT Class 1	AG04/P14	AG01/P11 AG02/P12 AASHTO T100	PA DOT T621 ASTM C1252	AASHTO T96 AASHTO T104	AASHTO T112 AASHTO T176 ASTM D4791	
	Plant		BU01A02	3	400kg Combined Agg Sample Superpave	AG04/P14	AG01/P11 AG02/P12 AASHTO T100	PA DOT T621 ASTM C1252	AASHTO T96 AASHTO T104	AASHTO T112 AASHTO T176 ASTM D4791	

TABLE 15
NJ DOT SPS-9A Project, 340900, I-195 EB, Allentown, NJ
Laboratory Tracking Table for Asphalt Binder Samples
Laboratory: Agency

Sample Location No.	Constr. Sta.	Offset m	Sample No.	Lab Test No.	Description of Sample	Laboratory Handling & Test Sequencing					
						First	Second	Third	Fourth	Fifth	Sixth
	Plant		BC01A01	3	20 Litre Sample of 85-100 pen grade a c	AASHTO T49 AE02/P22 AE05/P25 AE03/P23	ASTM D4402 AASHTO TP5	ASTM T240 AASHTO TP5	AASHTO PP1 AASHTO TP5 AASHTO TP1 AASHTO TP1	AASHTO TP3	
	Plant		BC01A02	3	20 Litre Sample of PG 58-28	AASHTO T49 AE02/P22 AE05/P25 AE03/P23	ASTM D4402 AASHTO TP5	ASTM T240 AASHTO TP5	AASHTO PP1 AASHTO TP5 AASHTO TP1 AASHTO TP1	AASHTO TP3	
	Plant		BC01A03	3	20 Litre Sample of PG 58-28	AASHTO T49 AE02/P22 AE05/P25 AE03/P23	ASTM D4402 AASHTO TP5	ASTM T240 AASHTO TP5	AASHTO PP1 AASHTO TP5 AASHTO TP1 AASHTO TP1	AASHTO TP3	
	Plant		BC01A60	3	20 Litre Sample of PG 64-28	AASHTO T49 AE02/P22 AE05/P25 AE03/P23	ASTM D4402 AASHTO TP5	ASTM T240 AASHTO TP5	AASHTO PP1 AASHTO TP5 AASHTO TP1 AASHTO TP1	AASHTO TP3	
	Plant		BC01A61	3	20 Litre Sample of Polymermodified PG 76-22	AASHTO T49 AE02/P22 AE05/P25 AE03/P23	ASTM D4402 AASHTO TP5	ASTM T240 AASHTO TP5	AASHTO PP1 AASHTO TP5 AASHTO TP1 AASHTO TP1	AASHTO TP3	

TABLE 16
NJ DOT SPS-9A Project 340900, I-195 EB, Allentown, NJ
Laboratory Tracking Table for Other Than Superpave Laboratory Prepared Mixes
Laboratory: Agency
Surface Course Mixes at Design % AC

Sample Preparation No.	Gyratory Compaction At	Specimen Height mm.	Approx. Batch g.	Compacted Sample No.	Laboratory Handling & Test Sequencing First	Second	Third	Fourth
NA01A01	N_{Max}	115	4700	LA01A01	AC02/P02	PP-19*		
NA02A01	N_{Max}	115	4700	LA02A01	AC02/P02	PP-19*		
NA03A01	N_{Max}	115	4700	LA03A01	AC02/P02	PP-19*		
NA03A01	---	---	2000	---	AC03/P03			
NA04A01	7 % AV	140	5700	LA04A01	AC02/P02	AC05/P05		
NA05A01	7 % AV	140	5700	LA05A01	AC02/P02	AC05/P05		
NA06A01	7 % AV	140	5700	LA06A01	AC02/P02	AC05/P05		
NA07A01	7 % AV	140	5700	LA07A01	AC02/P02	AC05/P05		
NA08A01	7 % AV	140	5700	LA08A01	AC02/P02	AC05/P05		
NA09A01	7 % AV	140	5700	LA09A01	AC02/P02	AC05/P05		
NA01A03	N_{Max}	115	4700	LA01A03	AC02/P02	PP-19*		
NA02A03	N_{Max}	115	4700	LA02A03	AC02/P02	PP-19*		
NA03A03	N_{Max}	115	4700	LA03A03	AC02/P02	PP-19*		
NA03A03	---	---	---	---	AC03/P03			
NA04A03	7 % AV	140	5700	LA04A03	AC02/P02	AC05/P05		
NA05A03	7 % AV	140	5700	LA05A03	AC02/P02	AC05/P05		
NA06A03	7 % AV	140	5700	LA06A03	AC02/P02	AC05/P05		
NA07A03	7 % AV	140	5700	LA07A03	AC02/P02	AC05/P05		
NA08A03	7 % AV	140	5700	LA08A03	AC02/P02	AC05/P05		
NA09A03	7 % AV	140	5700	LA09A03	AC02/P02	AC05/P05		

* Use bulk specific gravity N_{Design} estimated from gyrations vs. density plots. Mark the top of GC specimen with a 'T', label the specimen.

TABLE 16 (Cont.)
NJ DOT SPS-9A Project 340900, I-195 EB, Allentown, NJ
Laboratory Tracking Table for Other Than Superpave Laboratory Prepared Mixes
Laboratory: Agency
Binder Course Mixes at Design % AC

Sample Preparation No.	Gyratory Compaction At	Specimen Height mm.	Approx. Batch g.	Compacted Sample No.	Laboratory Handling & Test Sequencing First	Second	Third	Fourth
NA51A60	N_{Max}	115	4700	LA51A60	AC02/P02	PP-19*		
NA52A60	N_{Max}	115	4700	LA52A60	AC02/P02	PP-19*		
NA53A60	N_{Max}	115	4700	LA53A60	AC02/P02	PP-19*		
NA53A60	---	---	2000	---	AC03/P03			
NA54A60	7 % AV	140	5700	LA54A60	AC02/P02	AC05/P05		
NA55A60	7 % AV	140	5700	LA55A60	AC02/P02	AC05/P05		
NA56A60	7 % AV	140	5700	LA56A60	AC02/P02	AC05/P05		
NA57A60	7 % AV	140	5700	LA57A60	AC02/P02	AC05/P05		
NA58A60	7 % AV	140	5700	LA58A60	AC02/P02	AC05/P05		
NA59A60	7 % AV	140	5700	LA59A60	AC02/P02	AC05/P05		
NA51A61	N_{Max}	115	4700	LA51A61	AC02/P02	PP-19*		
NA52A61	N_{Max}	115	4700	LA52A61	AC02/P02	PP-19*		
NA53A61	N_{Max}	115	4700	LA53A61	AC02/P02	PP-19*		
NA53A61	---	---	---	---	AC03/P03			
NA54A61	7 % AV	140	5700	LA54A61	AC02/P02	AC05/P05		
NA55A61	7 % AV	140	5700	LA55A61	AC02/P02	AC05/P05		
NA56A61	7 % AV	140	5700	LA56A61	AC02/P02	AC05/P05		
NA57A61	7 % AV	140	5700	LA57A61	AC02/P02	AC05/P05		
NA58A61	7 % AV	140	5700	LA58A61	AC02/P02	AC05/P05		
NA59A61	7 % AV	140	5700	LA59A61	AC02/P02	AC05/P05		

* Use bulk specific gravity N_{Design} estimated from gyrations vs. density plots. Mark the top of GC specimen with a 'T', label the specimen.

TABLE 16 (Cont.)
NJ DOT SPS-9A Project 340900, I-195 EB, Allentown, NJ
Laboratory Tracking Table for Other Than Superpave Laboratory Prepared Mixes
Laboratory: Agency
Binder Course Mixes at Design % AC

Sample Preparation No.	Gyratory Compaction At	Specimen Height mm.	Approx. Batch g.	Compacted Sample No.	Laboratory Handling & Test Sequencing First	Second	Third	Fourth
NA51A60	N_{Max}	115	4700	LA51A60	AC02/P02	PP-19*		
NA52A60	N_{Max}	115	4700	LA52A60	AC02/P02	PP-19*		
NA53A60	N_{Max}	115	4700	LA53A60	AC02/P02	PP-19*		
NA53A60	---	---	2000	---	AC03/P03			
NA54A60	7 % AV	140	5700	LA54A60	AC02/P02	AC05/P05		
NA55A60	7 % AV	140	5700	LA55A60	AC02/P02	AC05/P05		
NA56A60	7 % AV	140	5700	LA56A60	AC02/P02	AC05/P05		
NA57A60	7 % AV	140	5700	LA57A60	AC02/P02	AC05/P05		
NA58A60	7 % AV	140	5700	LA58A60	AC02/P02	AC05/P05		
NA59A60	7 % AV	140	5700	LA59A60	AC02/P02	AC05/P05		
NA51A61	N_{Max}	115	4700	LA51A61	AC02/P02	PP-19*		
NA52A61	N_{Max}	115	4700	LA52A61	AC02/P02	PP-19*		
NA53A61	N_{Max}	115	4700	LA53A61	AC02/P02	PP-19*		
NA53A61	---	---	---	---	AC03/P03			
NA54A61	7 % AV	140	5700	LA54A61	AC02/P02	AC05/P05		
NA55A61	7 % AV	140	5700	LA55A61	AC02/P02	AC05/P05		
NA56A61	7 % AV	140	5700	LA56A61	AC02/P02	AC05/P05		
NA57A61	7 % AV	140	5700	LA57A61	AC02/P02	AC05/P05		
NA58A61	7 % AV	140	5700	LA58A61	AC02/P02	AC05/P05		
NA59A61	7 % AV	140	5700	LA59A61	AC02/P02	AC05/P05		

* Use bulk specific gravity N_{Design} estimated from gyrations vs. density plots. Mark the top of GC specimen with a 'T', label the specimen.

TABLE 16 (Cont.)
NJ DOT SPS-9A Project 340900, I-195 EB, Allentown, NJ
Laboratory Tracking Table for Other Than Superpave Laboratory Prepared Mixes
Laboratory: Agency
Binder Course Mixes at Design % AC

Sample Preparation No.	Gyratory Compaction At	Specimen Height mm.	Approx. Batch g.	Compacted Sample No.	Laboratory Handling & Test Sequencing First	Second	Third	Fourth
NA51A01	N_{Max}	115	4700	LA51A01	AC02/P02	PP-19*		
NA52A01	N_{Max}	115	4700	LA52A01	AC02/P02	PP-19*		
NA53A01	N_{Max}	115	4700	LA53A01	AC02/P02	PP-19*		
NA53A01	---	---	2000	---	AC03/P03			
NA54A01				LA54A01	AC02/P02	AC05/P05		
NA55A01				LA55A01	AC02/P02	AC05/P05		
NA56A01				LA56A01	AC02/P02	AC05/P05		
NA57A01				LA57A01	AC02/P02	AC05/P05		
NA58A01				LA58A01	AC02/P02	AC05/P05		
NA59A01				LA59A01	AC02/P02	AC05/P05		
NA51A03	N_{Max}	115	4700	LA51A03	AC02/P02	PP-19*		
NA52A03	N_{Max}	115	4700	LA52A03	AC02/P02	PP-19*		
NA53A03	N_{Max}	115	4700	LA53A03	AC02/P02	PP-19*		
NA53A03	---	---	---	---	AC03/P03			
NA54A03	7 % AV	140	5700	LA54A03	AC02/P02	AC05/P05		
NA55A03	7 % AV	140	5700	LA55A03	AC02/P02	AC05/P05		
NA56A03	7 % AV	140	5700	LA56A03	AC02/P02	AC05/P05		
NA57A03	7 % AV	140	5700	LA57A03	AC02/P02	AC05/P05		
NA58A03	7 % AV	140	5700	LA58A03	AC02/P02	AC05/P05		
NA59A03	7 % AV	140	5700	LA59A03	AC02/P02	AC05/P05		

* Use bulk specific gravity N_{Design} estimated from gyrations vs. density plots. Mark the top of GC specimen with a 'T', label the specimen.

TABLE 17
NJ DOT SPS-9A Project 340900, I-195 EB, Allentown, NJ
Laboratory Tracking Table for Superpave Laboratory Prepared Mixes
Laboratory: Agency
Surface Course Mixes at Design % AC

Sample Preparation No.	Gyratory Compaction At	Specimen Height mm.	Approx. Batch g.	Compacted Sample No.	Laboratory Handling & Test Sequencing First	Second	Third	Fourth
NA01A02	N_{Max}	115	4700	LA01A02	AC02/P02	PP-19		
NA02A02	N_{Max}	115	4700	LA02A02	AC02/P02	PP-19		
NA03A02	N_{Max}	115	4700	LA03A02	AC02/P02	PP-19		
NA04A02	N_{Max}	115	4700	LA04A02	AC02/P02	PP-19		
NA05A02	N_{Max}	115	4700	LA05A02	AC02/P02	PP-19		
NA06A02	N_{Max}	115	4700	LA06A02	AC02/P02	PP-19		
NA07A02	3 % AV	140	5700	LA07A02	AC02/P02	SRTC		
NA08A02	3 % AV	140	5700	LA08A02	SRTC			
NA09A02	7 % AV	140	5700	LA09A02	AC02/P02	AC05/P05		
NA10A02	7 % AV	140	5700	LA10A02	AC02/P02	AC05/P05		
NA11A02	7 % AV	140	5700	LA11A02	AC02/P02	AC05/P05		
NA12A02	7 % AV	140	5700	LA12A02	AC02/P02	AC05/P05		
NA13A02	7 % AV	140	5700	LA13A02	AC02/P02	AC05/P05		
NA14A02	7 % AV	140	5700	LA14A02	AC02/P02	AC05/05		
NA15A02	7 % AV	140	5700	LA15A02	AC02/P02	LCL		
NA15A02			2000		AC03/P03			
NA16A02	7 % AV	140	5700	LA16A02	LCL			
NA17A02	7 % AV	140	5700	LA17A02	LCL			
NA18A02	7 % AV	140	5700	LA18A02	LCL			
NA19A02	7 % AV	140	5700	LA19A02	LCL			
NA20A02	7 % AV	140	5700	LA20A02	LCL			
NA21A02	7 % AV	140	5700	LA21A02	LCL			
NA22A02	7 % AV	140	5700	LA22A02	LCL			
NA23A02	7 % AV	140	5700	LA23A02	SRTC			
NA24A02	7 % AV	140	5700	LA24A02	SRTC			
NA25A02	7 % AV	140	5700	LA25A02	SRTC			
NA26A02	7 % AV	140	5700	LA26A02	SRTC			

TABLE 17 (Cont.)
NJ DOT SPS-9A Project 340900, I-195 EB, Allentown, NJ
Laboratory Tracking Table for Superpave Laboratory Prepared Mixes
Laboratory: Agency
Surface Course Mixes at Design % AC

Sample Preparation No.	Gyratory Compaction At	Specimen Height mm.	Approx. Batch g.	Compacted Sample No.	Laboratory Handling & Test Sequencing First	Second	Third	Fourth
NA27A02	7 % AV	140	5700	LA27A02	SRTC			
NA28A02	7 % AV	140	5700	LA28A02	SRTC			
NA29A02	7 % AV	140	5700	LA29A02	SRTC			
NA30A02	7 % AV	140	5700	LA30A02	SRTC			
NA31A02	7 % AV	140	5700	LA31A02	SRTC			
NA32A02	7 % AV	140	5700	LA32A02	SRTC			
NA33A02	7 % AV	140	5700	LA33A02	SRTC			
NA34A02	7 % AV	140	5700	LA34A02	SRTC			
NA35A02	7 % AV	140	5700	LA35A02	SRTC			
NA36A02	7 % AV	140	5700	LA36A02	SRTC			
NA37A02	7 % AV	140	5700	LA37A02	SRTC			
NA38A02	7 % AV	140	5700	LA38A02	AC02/P02	SRTC		
NA39A02	7 % AV	140	5700	LA39A02	SRTC			
NA40A02	7 % AV	140	5700	LA40A02	SRTC			
Binder Course Mix @ Design % AC								
NA51A02	N_{Max}	115	4700	LA51A02	AC02/P02	PP-19		
NA52A02	N_{Max}	115	4700	LA52A02	AC02/P02	PP-19		
NA53A02	N_{Max}	115	4700	LA53A02	AC02/P02	PP-19		
NA54A02	N_{Max}	115	4700	LA54A02	AC02/P02	PP-19		
NA55A02	N_{Max}	115	4700	LA55A02	AC02/P02	PP-19		
NA56A02	N_{Max}	115	4700	LA56A02	AC02/P02	PP-19		
NA57A02	3 % AV	140	5700	LA57A02	AC02/P02	SRTC		
NA58A02	3 % AV			LA58A02	SRTC			
NA59A02	7 % AV			LA59A02	AC05/P05			
NA60A02	7 % AV			LA60A02	AC05/P05			

TABLE 17 (Cont.)
NJ DOT SPS-9A Project 340900, I-195 EB, Allentown, NJ
Laboratory Tracking Table for Superpave Laboratory Prepared Mixes
Laboratory: Agency
Surface Course Mixes at Design % AC

Sample Preparation No.	Gyratory Compaction At	Specimen Height mm.	Approx. Batch g.	Compacted Sample No.	Laboratory Handling & Test Sequencing First	Second	Third	Fourth
NA61A02	7 % AV	140	5700	LA61A02	AC05/P05			
NA62A02	7 % AV	140	5700	LA62A02	AC05/P05			
NA63A02	7 % AV	140	5700	LA63A02	AC05/P05			
NA64A02	7 % AV	140	5700	LA64A02	AC05/P05			
NA65A02	7 % AV	140	5700	LA65A02	AC02/P02	LCL		
NA65A02			2500		AC03/P03			
NA66A02	7 % AV	140	5700	LA66A02	LCL			
NA67A02	7 % AV	140	5700	LA67A02	LCL			
NA68A02	7 % AV	140	5700	LA68A02	LCL			
NA69A02	7 % AV	140	5700	LA69A02	LCL			
NA70A02	7 % AV	140	5700	LA70A02	LCL			
NA71A02	7 % AV	140	5700	LA71A02	LCL			
NA72A02	7 % AV	140	5700	LA72A02	LCL			
NA73A02	7 % AV	140	5700	LA73A02	SRTC			
NA74A02	7 % AV	140	5700	LA74A02	SRTC			
NA75A02	7 % AV	140	5700	LA75A02	SRTC			
NA76A02	7 % AV	140	5700	LA76A02	SRTC			
NA77A02	7 % AV	140	5700	LA77A02	SRTC			
NA78A02	7 % AV	140	5700	LA78A02	SRTC			
NA79A02	7 % AV	140	5700	LA79A02	SRTC			
NA80A02	7 % AV	140	5700	LA80A02	SRTC			
NA81A02	7 % AV	140	5700	LA81A02	SRTC			
NA82A02	7 % AV	140	5700	LA82A02	SRTC			
NA83A02	7 % AV	140	5700	LA83A02	SRTC			
NA84A02	7 % AV	140	5700	LA84A02	SRTC			
NA85A02	7 % AV	140	5700	LA85A02	SRTC			
NA86A02	7 % AV	140	5700	LA86A02	SRTC			
NA87A02	7 % AV	140	5700	LA87A02	SRTC			
NA88A02	7 % AV	140	5700	LA88A02	AC02/P02	SRTC		
NA89A02	7 % AV	140	5700	LA89A02	SRTC			
NA90A02	7 % AV	140	5700	LA90A02	SRTC			

TABLE 18
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
Laboratory Tracking Table for Quality Control - Other than Superpave AC Mixes
Laboratory: Agency/Contractor (Field)

Sample Location No.	Constr. Sta.	Offset m	Sample No.	Lab Test No.	Description of Sample	Laboratory Handling & Testing Sequencing					
						First	Second	Third	Fourth	Fifth	Sixth
B02A01		1	BA02A01	3	Uncompacted Mix Sample	AC03/P03	AC04/P04	AG04/P14			
B03A01		1	BA03A01	3	Uncompacted Mix Sample	AC03/P03	AC04/P04	AG04/P14			
B05A01		1	BA05A01	3	Uncompacted Mix Sample	AC03/P03	AC04/P04	AG04/P14			
B08A01		1	BA08A01	3	Uncompacted Mix Sample	AC03/P03	AC04/P04	AG04/P14			
B04A01		1	DA01A01	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
			DA02A01	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
B05A01		1	DA03A01	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02	PP19			
			DA04A01	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
B06A01		1	DA05A01	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02	PP19			
			DA06A01	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
B01A01		1	DA51A01	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
			DA52A01	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
B02A01		1	DA53A01	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02	PP19			
			DA54A01	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
B03A01		1	DA55A01	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02	PP19			
			DA56A01	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				

TABLE 18 (Cont.)
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
Laboratory Tracking Table for Quality Control - Other than Superpave AC Mixes
Laboratory: Agency/Contractor (Field)

Sample Location No.	Constr. Sta.	Offset m	Sample No.	Lab Test No.	Description of Sample	Laboratory Handling & Testing Sequencing					
						First	Second	Third	Fourth	Fifth	Sixth
B02A03		1	BA02A03	3	Uncompacted Mix Sample	AC03/P03	AC04/P04	AG04/P14			
B03A03		1	BA03A03	3	Uncompacted Mix Sample	AC03/P03	AC04/P04	AG04/P14			
B05A03		1	BA05A03	3	Uncompacted Mix Sample	AC03/P03	AC04/P04	AG04/P14			
B08A03		1	BA08A03	3	Uncompacted Mix Sample	AC03/P03	AC04/P04	AG04/P14			

TABLE 18 (Cont.)
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
Laboratory Tracking Table for Quality Control - Other than Superpave AC Mixes
Laboratory: Agency/Contractor (Field)

Sample Location No.	Constr. Sta.	Offset m	Sample No.	Lab Test No.	Description of Sample	Laboratory Handling & Testing Sequencing					
						First	Second	Third	Fourth	Fifth	Sixth
B04A03		1	DA01A03	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
			DA02A03	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
B05A03		1	DA03A03	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02	PP19			
			DA04A03	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
B06A03		1	DA05A03	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02	PP19			
			DA06A03	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
B01A03		1	DA51A03	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
			DA52A03	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
B02A03		1	DA53A03	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02	PP19			
			DA54A03	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
B03A03		1	DA55A03	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02	PP19			
			DA56A03	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
B02A60		1	BA02A60	3	Uncompacted Mix Sample	AC03/P03	AC04/P04	AG04/P14			
B03A60		1	BA03A60	3	Uncompacted Mix Sample	AC03/P03	AC04/P04	AG04/P14			
B05A60		1	BA05A60	3	Uncompacted Mix Sample	AC03/P03	AC04/P04	AG04/P14			
B08A60		1	BA08A60	3	Uncompacted Mix Sample	AC03/P03	AC04/P04	AG04/P14			

TABLE 18 (Cont.)
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
Laboratory Tracking Table for Quality Control - Other than Superpave AC Mixes
Laboratory: Agency/Contractor (Field)

Sample Location No.	Constr. Sta.	Offset m	Sample No.	Lab Test No.	Description of Sample	Laboratory Handling & Testing Sequencing					
						First	Second	Third	Fourth	Fifth	Sixth
B04A60		1	DA01A60	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
			DA02A60	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
B05A60		1	DA03A60	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02	PP19			
			DA04A60	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
B06A60		1	DA05A60	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02	PP19			
			DA06A60	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
B01A60		1	DA51A60	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
			DA52A60	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
B02A60		1	DA53A60	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02	PP19			
			DA54A60	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
B03A60		1	DA55A60	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02	PP19			
			DA56A60	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
B02A61		1	BA02A61	3	Uncompacted Mix Sample	AC03/P03	AC04/P04	AG04/P14			
B03A61		1	BA03A61	3	Uncompacted Mix Sample	AC03/P03	AC04/P04	AG04/P14			
B05A61		1	BA05A61	3	Uncompacted Mix Sample	AC03/P03	AC04/P04	AG04/P14			
B08A61		1	BA08A61	3	Uncompacted Mix Sample	AC03/P03	AC04/P04	AG04/P14			

TABLE 18 (Cont.)
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
Laboratory Tracking Table for Quality Control - Other than Superpave AC Mixes
Laboratory: Agency/Contractor (Field)

Sample Location No.	Constr. Sta.	Offset m	Sample No.	Lab Test No.	Description of Sample	Laboratory Handling & Testing Sequencing					
						First	Second	Third	Fourth	Fifth	Sixth
B04A61		1	DA01A61	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
			DA02A61	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
B05A61		1	DA03A61	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02	PP19			
			DA04A61	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
B06A61		1	DA05A61	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02	PP19			
			DA06A61	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
B01A61		1	DA51A61	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
			DA52A61	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
B02A61		1	DA53A61	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02	PP19			
			DA54A61	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				
B03A61		1	DA55A61	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02	PP19			
			DA56A61	3	Gyratory Compactor @ N_{Max}	AASHTO M-002	AC02/P02				

TABLE 19
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
Laboratory Tracking Table for Superpave Mixes (Field Samples)
Laboratory: Agency

BINDER COURSE MIX

Sample Location No.	Constr. Sta.	Offset m	Sample No.	Lab Test No.	Description of Sample	Laboratory Handling & Test Sequencing					
						Specimen Height mm.	Approx. Batch g.	First	Second	Third	Fourth
B01A02			DA51A02	3	GCS field sample @ 3% AV	140	5700	AASHTO-M002	SRTC		
			DA52A02	3	GCS field sample @ N_{Max}	115	4700	AASHTO-M002	AC02/P02	PP-19	
			DA53A02	3	GCS field sample @ N_{Max}	115	4700	AASHTO-M002	AC02/P02	PP-19	
			DA54A02	3	GCS field sample @ N_{Max}	115	4700	AASHTO-M002	AC02/P02	PP-19	
			BA01A02	3	Uncompacted Plant Mix	---	2500	AC03/P03	AC04/P04	AG04/P14	LCL (P14A)
			DA55A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	AC02/P02	LCL	
			DA56A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	ARTC		
			DA57A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA58A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA59A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	LCL		
			DA60A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA61A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA62A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
B02A02			BA02A02	3	Uncompacted Plant Mix		2500	AC03/P03	AC04/P04	AG04/P14	LCL (P14A)
			DA63A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA64A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA65A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	LCL		
			DA66A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	AC02/P02	LCL	
			DA67A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	LCL		
			DA68A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	LCL		

TABLE 19 (Cont.)
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
Laboratory Tracking Table for Superpave Mixes (Field Samples)
Laboratory: Agency

BINDER COURSE MIX

Sample Location No.	Constr. Sta.	Offset m	Sample No.	Lab Test No.	Description of Sample	Laboratory Handling & Test Sequencing					
						Specimen Height mm.	Approx. Batch g.	First	Second	Third	Fourth
B02A02			DA69A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA70A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA71A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA72A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	AC02/P02	SRTC	
			DA73A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
B03A02			DA74A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA75A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA76A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA77A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA78A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA79A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	LCL		
			DA80A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	LCL		
			DA81A02	3	GCS field sample @ N_{Max}	115	4700	AASHTO-M002	AC02/P02	PP-19	
			DA82A02	3	GCS field sample @ N_{Max}	115	4700	AASHTO-M002	AC02/P02	PP-19	
			DA83A02	3	GCS field sample @ N_{Max}	115	4700	AASHTO-M002	AC02/P02	PP-19	
			DA84A02	3	GCS field sample @ 3% AV	140	5700	AASHTO-M002	SRTC		
			BA03A02	3	Uncompacted Plant Mix	---	2500	AC03/P03	AC04/P04	AG04/P14	LCL (P14A)

TABLE 19 (Cont.)
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
Laboratory Tracking Table for Superpave Mixes (Field Samples)
Laboratory: Agency

SURFACE COURSE MIX

Sample Location No.	Constr. Sta.	Offset m	Sample No.	Lab Test No.	Description of Sample	Laboratory Handling & Test Sequencing					
						Specimen Height mm.	Approx. Batch g.	First	Second	Third	Fourth
B04A02			DA01A02	3	GCS field sample @ 3% AV	140	5700	AASHTO-M002	SRTC		
			DA02A02	3	GCS field sample @ N_{Max}	115	4700	AASHTO-M002	AC02/P02	PP-19	
			DA03A02	3	GCS field sample @ N_{Max}	115	4700	AASHTO-M002	AC02/P02		
			DA04A02	3	GCS field sample @ N_{Max}	115	4700	AASHTO-M002	AC02/P02		
			DA05A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	LCL		
			DA06A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	AC02/P02	LCL	
			DA07A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA08A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA09A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	LCL		
			BA04A02	3	Uncompacted Plant Mix	---	2000	AC03/P03	AC04/P04	AG04/P14	LCL (P14A)
B05A02			BA05A02	3	Uncompacted Plant Mix	---	2000	AC03/P03	AC04/P04	AG04/P14	LCL (P14A)
			DA10A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA11A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA12A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA13A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA14A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA15A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	LCL		
B06A02			DA16A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	AC02/P02	LCL	
			DA17A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	LCL		
			DA18A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	LCL		

TABLE 19 (Cont.)
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
Laboratory Tracking Table for Superpave Mixes (Field Samples)
Laboratory: Agency

SURFACE COURSE MIX

Sample Location No.	Constr. Sta.	Offset m	Sample No.	Lab Test No.	Description of Sample	Laboratory Handling & Test Sequencing					
						Specimen Height mm.	Approx. Batch g.	First	Second	Third	Fourth
B06A02			DA19A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA20A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA21A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA22A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
B07A02			DA23A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA24A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA25A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA26A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA27A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
			DA28A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	SRTC		
B08A02			DA29A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	LCL		
			DA30A02	3	GCS field sample @ 7% AV	140	5700	AASHTO-M002	LCL		
			DA31A02	3	GCS field sample @ N_{Max}	115	4700	AASHTO-M002	AC02/P02	PP-19	
			DA32A02	3	GCS field sample @ N_{Max}	115	4700	AASHTO-M002	AC02/P02	PP-19	
			DA33A02	3	GCS field sample @ N_{Max}	115	4700	AASHTO-M002	AC02/P02	PP-19	
			DA34A02	3	GCS field sample @ 3% AV	140	5700	AASHTO-M002	SRTC		
			BA08A02	3	Uncompacted Plant Mix	---	2000	AC03/P03	AC04/P04	AG04/P14	LCL (P14A)

Note: QC/QA specimen DA52A02-DA54A02, DA81A02-DA83A02, DA02A02-DA04A02, DA31A02-DA33A02 are compacted in the field from field samples stored in insulated containers
Other specimen are plit off to size in the field while still hot They are reheated as needed for compaction
GCS - Gyratory Compacted Specimen
SRTC - Superpave Regional Test Center
LCL - LTPP Contractor Laboratory

TABLE 20.1
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
Superpave Regional Test Center - Tracking Table
Laboratory Prepared Specimen

GCS #	Test Sequence	
	First	Second
LA07A02	AC02/P02	SST-3, Repeated Shear @ Constant Stress Ratio
LA08A02	AC02/P02	SST-3, Repeated Shear @ Constant Stress Ratio
LA23A02	AC02/P02	SST-1, Frequency Sweep and Simple Shear
LA24A02	AC02/P02	SST-1, Frequency Sweep and Simple Shear
LA25A02	AC02/P02	SST-1, Frequency Sweep and Simple Shear
LA26A02	AC02/P02	SST-1*
LA27A02	AC02/P02	SST-2, Volumetric and Uniaxial Strain
LA28A02	AC02/P02	SST-2, Volumetric and Uniaxial Strain
LA29A02	AC02/P02	SST-2, Volumetric and Uniaxial Strain
LA30A02	AC02/P02	SST-2*
LA31A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
LA32A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
LA33A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
LA34A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
LA35A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
LA36A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
LA37A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
LA38A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
LA39A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
LA40A02	AC02/P02	SP-IT*
LA57A02	AC02/P02	SST-3, Repeated Shear @ Constant Stress Ratio
LA58A02	AC02/P02	SST-3, Repeated Shear @ Constant Stress Ratio
LA73A02	AC02/P02	SST-1, Frequency Sweep and Simple Shear
LA74A02	AC02/P02	SST-1, Frequency Sweep and Simple Shear
LA75A02	AC02/P02	SST-1, Frequency Sweep and Simple Shear
LA76A02	AC02/P02	SST-1*
LA77A02	AC02/P02	SST-2, Volumetric and Uniaxial Strain
LA78A02	AC02/P02	SST-2, Volumetric and Uniaxial Strain
LA79A02	AC02/P02	SST-2, Volumetric and Uniaxial Strain
LA80A02	AC02/P02	SST-2*

* Extra Sample, DO NOT DISCARD

Note: The 140mm SPECIMEN are to be cut into two replicate specimen and labeled 'A' for the top and 'B' for the bottom of the specimen. Mount the bottom of A and the top of B to the moveable top platen of the Shear Tester

TABLE 20.1 (Cont.)
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
Superpave Regional Test Center - Tracking Table
Laboratory Prepared Specimen

GCS #	Test Sequence	
	First	Second
LA81A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
LA82A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
LA83A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
LA84A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
LA85A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
LA86A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
LA87A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
LA88A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
LA89A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
LA90A02	AC02/P02	SP-IT*
PLANT MIX SPECIMEN		
DA51A02	AC02/P02	SST-3, Repeated Shear @ Constant Stress Ratio
DA84A02	AC02/P02	SST-3, Repeated Shear @ Constant Stress Ratio
DA56A02	AC02/P02	SST-1, Frequency Sweep and Simple Shear
DA60A02	AC02/P02	SST-1, Frequency Sweep and Simple Shear
DA74A02	AC02/P02	SST-1, Frequency Sweep and Simple Shear
DA78A02	AC02/P02	SST-1, Frequency Sweep and Simple Shear
DA57A02	AC02/P02	SST-2, Volumetric and Uniaxial Strain
DA61A02	AC02/P02	SST-2, Volumetric and Uniaxial Strain
DA73A02	AC02/P02	SST-2, Volumetric and Uniaxial Strain
DA77A02	AC02/P02	SST-2, Volumetric and Uniaxial Strain
DA58A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
DA62A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
DA63A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
DA64A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
DA69A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
DA70A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
DA71A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
DA72A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
DA75A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
DA76A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance

TABLE 20.1 (Cont.)
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
Superpave Regional Test Center - Tracking Table
Laboratory Prepared Specimen

GCS #	Test Sequence	
	First	Second
DA01A02	AC02/P02	SST-3, Repeated Shear @ Constant Stress Ratio
DA34A02	AC02/P02	SST-3, Repeated Shear @ Constant Stress Ratio
DA06A02	AC02/P02	SST-1, Frequency Sweep and Simple Shear
DA10A02	AC02/P02	SST-1, Frequency Sweep and Simple Shear
DA24A02	AC02/P02	SST-1, Frequency Sweep and Simple Shear
DA07A02	AC02/P02	SST-1, Frequency Sweep and Simple Shear
DA11A02	AC02/P02	SST-2, Volumetric and Uniaxial Strain
DA23A02	AC02/P02	SST-2, Volumetric and Uniaxial Strain
DA27A02	AC02/P02	SST-2, Volumetric and Uniaxial Strain
DA08A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
DA12A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
DA13A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
DA14A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
DA19A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
DA20A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
DA21A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
DA22A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
DA25A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance
DA26A02	AC02/P02	SP-IT, Indirect Tensile Strength & Creep Compliance

TABLE 20.2
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
Superpave Regional Test Center - Tracking Table
Core At Time A=O

Core Location #	Core Sample #	Lab Test #	Handling and Testing Sequence			
			First	Second	Third	Disposal
C01A02	CA01A02	1	AC01/P01	AC02/P02	SP-IT	No
C08A02	CA08A02	2	AC01/P01	AC02/P02	SP-IT	No
C10A02	CA08A02	1	AC01/P01	AC02/P02	SP-IT	No
C13A02	CA13A02	1	AC01/P01	AC02/P02	SP-IT	No
C17A02	CA17A02	1	AC01/P01	AC02/P02	SP-IT	No
C18A02	CA18A02	1	AC01/P01	AC02/P02	SP-IT	No
C20A02	CA20A02	1	AC01/P01	AC02/P02	SP-IT	No
C27A02	CA27A02	2	AC01/P01	AC02/P02	SP-IT	No
C29A02	CA29A02	2	AC01/P01	AC02/P02	SP-IT	No
C34A02	CA34A02	2	AC01/P01	AC02/P02	SP-IT	No
C04A02	CA04A02	1	AC01/P01	AC02/P02	SST-1	No
C30A02	CA30A02	2	AC01/P01	AC02/P02	SST-1	No
C12A02	CA12A02	1	AC01/P01	AC02/P02	SST-2	No
C22A02	CA22A02	2	AC01/P01	AC02/P02	SST-2	No
C09A02	CA09A02	1	AC01/P01	AC02/P02	SST-3	No
C26A02	CA26A02	2	AC01/P01	AC02/P02	SST-3	No

Notes: The core specimen shall be tested in the following order:-
- core examination and thickness measurements
- trim and cut core to testing geometry
- determine bulk density
- prepare and mount the sized specimen for noted test

SP-IT - Superpave Indirect Tensile Strength and Creep Compliance
SST-1 - Frequency Sweep and Simple Shear
SST-2 - Volumetric and Uniaxial Strain
SST-3 - Repeated Shear @ Constant Stress Ratio

TABLE 21.2
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
LTPP Contractor Laboratory - Tracking Table for Cores
Core At Time A=O

Core Location #	Core Sample #	Lab Test #	Test Sequence First	Second	Third
C03A02	CA03A02		AC01/P01	AC02/P02	AC06/P06
C07A02	CA07A02		AC01/P01	AC02/P02	AC07/P07
C14A02	CA14A02		AC01/P01	AC02/P02	AC06/P06
C16A02	CA16A02		AC01/P01	AC02/P02	AC07/P07 1DT
C21A02	CA21A02		AC01/P01	AC02/P02	AC07/P07
C23A02	CA23A02		AC01/P01	AC02/P02	AC06/P06
C31A02	CA31A02		AC01/P01	AC02/P02	AC07/P07
C32A02	CA32A02		AC01/P01	AC02/P02	AC06/P06

* The visual examination and thickness measurement and bulk density determinations are included in the LTPP Contractor Laboratory Procedures for ACO6/P06 and AC07/P07. Only the top surface layer is tested for Creep Compliance, Resilient Modulus and Indirect Tensile Strength.

TRIM CORES TO FORM TEST SPECIMEN 100mm dia. x 65mm HEIGHT

TABLE 22
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
Laboratory Tracking Table for AC Cores (Mixes other than Superpave)
Laboratory: Agency - at Interval A

Sample Location No.	Constr. Sta.	Offset m	Sample No.	Lab Test No.	Description of Sample	Laboratory Handling & Testing Sequencing					
						First	Second	Third	Fourth	Fifth	Sixth
C01A01		1.1	CA01A01	1	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	AG04/P14	PP19
C02A01		0.6	CA02A01	1	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	Blend	T49
C03A01		1.1	CA03A01	1	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	Recovered	AE02/P22
C04A01		0.6	CA04A01	1	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	Asphalt	AE05/P25
C05A01		0.6	CA05A01	2	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	For	TP5
C06A01		1.1	CA06A01	2	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	Binder	TP1, TP3
C07A01		0.6	CA07A01	2	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	Testing	AE03/P23
C08A01		1.1	CA08A01	2	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	AG04/P14	PP19
C01A03		1.1	CA01A03	1	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	AG04/P14	PP19
C02A03		0.6	CA02A03	1	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	Blend	T49
C03A03		1.1	CA03A03	1	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	Recovered	AE02/P22
C04A03		0.6	CA04A03	1	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	Asphalt	AE05/P25
C05A03		0.6	CA05A03	2	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	For	TP5
C06A03		1.1	CA06A03	2	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	Binder	TP1, TP3
C07A03		0.6	CA07A03	2	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	Testing	AE03/P23
C08A03		1.1	CA08A03	2	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	AG04/P14	PP19
C01A60		1.1	CA01A60	1	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	AG04/P14	PP19
C02A60		0.6	CA02A60	1	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	Blend	T49
C03A60		1.1	CA03A60	1	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	Recovered	AE02/P22
C04A60		0.6	CA04A60	1	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	Asphalt	AE05/P25
C05A60		0.6	CA05A60	2	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	For	TP5
C06A60		1.1	CA06A60	2	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	Binder	TP1, TP3
C07A60		0.6	CA07A60	2	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	Testing	AE03/P23
C08A60		1.1	CA08A60	2	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	AG04/P14	PP19

TABLE 22 (Cont.)
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
Laboratory Tracking Table for AC Cores (Mixes other than Superpave)
Laboratory: Agency - at Interval A

Sample Location No.	Constr. Sta.	Offset m	Sample No.	Lab Test No.	Description of Sample	Laboratory Handling & Testing Sequencing					
						First	Second	Third	Fourth	Fifth	Sixth
C01A61		1.1	CA01A61	1	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	AG04/P14	PP19
C02A61		0.6	CA02A61	1	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	Blend	T49
C03A61		1.1	CA03A61	1	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	Recovered	AE02/P22
C04A61		0.6	CA04A61	1	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	Asphalt	AE05/P25
C05A61		0.6	CA05A61	2	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	For	TP5
C06A61		1.1	CA06A61	2	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	Binder	TP1, TP3
C07A61		0.6	CA07A61	2	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	Testing	AE03/P23
C08A61		1.1	CA08A61	2	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	AG04/P14	PP19

TABLE 23
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
Laboratory Tracking Table for AC Cores at Intervals t (B through F)
Laboratory: Agency

Sample Location No.	Constr. Sta.	Offset m	Sample No.	Lab Test No.	Description of Sample	Laboratory Handling & Testing Sequencing					
						First	Second	Third	Fourth	Fifth	Sixth
C01tXX	Varies	1 1	CA01tXX	1	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	AG04/P14	PP19
C02tXX	with	0 6	CA02tXX	1	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	Blend	T49
C03tXX	t=B,	1 1	CA03tXX	1	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	Recovered	AE02/P22
C04tXX	C,	0 6	CA04tXX	1	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	Asphalt	AE05/P25
C05tXX	D,	0 6	CA05tXX	2	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	For	TP5
C06tXX	E,	1 1	CA06tXX	2	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	Binder	TP1, TP3
C07tXX	F	0 6	CA07tXX	2	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	Testing	AE03/P23
C08tXX		1 1	CA08tXX	2	152mm Diameter Core	AC01/P01	AC02/P02	AC04/P04	AE01/P21	AG04/P14	PP19

Monitoring Stations, m

@ t =	B	C	D	E	F
C01	-50.5	-42 5	-34 5	-26 5	-18 5
C02	-49	-41	-33	-25	-17
C03	-47.5	-39 5	-31 5	-23 5	-15 5
C04	-46	-38	-30	-22	-14
C05	174	182	190	198.0	206
C06	175 5	183 5	191 5	199.5	207.5
C07	177	185	193	201	209
C08	178 5	186 5	194 5	202 5	210.5

Note XX - Test Section Numbers 01, 02, 03, 60 and 61

TABLE 24
NJ DOT SPS-9A, Project 340900, I-195 EB, Allentown, NJ
Summary of Gyratory Compaction Specimen ID's

Other than Superpave Mixes

Material Description	Project Designation	Laboratory Mixes and Paver Samples	Agency Laboratory		SRTC	LCL
			Gyratory Compacted Specimen ID			
			QC/QA, Volumetrics @ N_{Max}	For Moisture Susceptibility @ 7% AV	For Performance Testing @ 7% AV and 3% AV	For Mix Characterization @ 7% AV
AC Binder Course	HDB 25mm Max	NA51AXX-NA59AXX BA01AXX-BA03AXX	LA51AXX-LA53AXX DA51AXX-DA56AXX	LA54AXX-LA59AXX	Note XX Represents Test Section Numbers 01, 03, 60 and 61	
AC Surface Course	DHS 19mm Max	NA01AXX-NA09AXX BA04AXX-BA08AXX	LA01AXX-LA03AXX DA01AXX-DA06AXX	LA04AXX-LA09AXX		
SUPERPAVE MIXES - TEST SECTION 02						
AB Binder Course	HDB 25mm Max	NA51A02-NA90A02 BA01A02-BA03A02	LA51A02-LA56A02 DA52A02-DA54A02 DA81A02-DA83A02	LA59A02-LA64A02 ---	LA57A02-LA58A02 (3% AV) LA73A02-LA90A02 (7% AV) DA51A02, DA84A02 (3% AV) DA56A02-DA58A02 (7% AV) DA60A02-DA64A02 (7% AV) DA69A02-DA78A02 (7% AV)	LA65A02-LA72A02 DA55A02, DA59A02 DA65A02-DA68A02 DA79A02-DA80A02
AC Surface Course	HDS 19mm Max	NA01A02-NA40A02 BA04A02-BA08A02	LA01A02-LA06A02 DA02A02-DA04A02 DA31A02-DA33A02	LA09A02-LA14A02 ---	LA07A02-LA08A02 (3% AV) LA23A02-LA40A03 (7% AV) DA01A02, DA34A02 (3% AV) DA06A02-DA08A02 (7% AV) DA10A02-DA14A02 (7% AV) DA19A02-DA28A02 (7% AV)	LA15A02-LA22A02 DA05A02, DA09A02 DA15A02-DA18A02 DA29A02-DA30A02

SRTC - SUPERPAVE REGIONAL TEST CENTER, **LCL** - LTPP CONTRACTOR LABORATORY

SPS-9A Notes

Suggestions for Bulk Field HMA Mix Sampling

The sampling of hot mix in the field from plant or paver and the subsequent handling and preparation of gyratory compacted specimen at the required compaction temperature can pose problems. There is a need for consistency in the temperature regime experienced by the mix until compaction, particularly for the 34 Gyratory Compacted Specimen (GCS) which are intended for performance testing.

It is suggested that for simplicity and consistency that sampling containers can be the same shallow flat pan about (9" x 12" x 2") used in the laboratory to short-term age and to bring the mix to compaction temperature. The tare weight of each pan should be known before the hot mix sample is placed in the pan. A sample of about 6 to 6.5 kilograms should be placed in each pan. (The truck that is used to collect the sample for conveyance to the field laboratory may be equipped with a field balance and pre-determined counterweight).

The 6 samples for QC purposes should be immediately placed into an insulated container and delivered to the field laboratory for GCS compaction. At the laboratory, the weight of mix in the pan can be adjusted to the quantity needed to manufacture the 150mm diameter by 115mm height specimen. The amount of mix removed from the pan is available for maximum specific gravity testing and asphalt content determination.

The 34 samples for gyratory compaction and performance testing can be transported to the laboratory (field or designated agency laboratory) for the immediate compaction. The samples likely need to be re-heated. The weight of material in the pan should be adjusted for the GC specimen which are 150mm diameter x 140mm height. Each sample should be treated in the same way as the next with respect to time and temperature while being brought up to compaction temperature. An interval of about 20 minutes should be allowed between treatment of samples to permit completion of compaction of the previous sample.

Five (5) additional samples should be obtained for maximum specific gravity, asphalt content and aggregate gradation determinations.

April 22, 1996

Notes on Preparation of Gyratory Compacted Test Specimen (AASHTO M-002)

1) Number of Gyrations - (Table V-1 pg. 70, FHWA-SA-95-003, Feb. 1995)

NARO Project Location	Highest/Mean 7-day	Design ESAL's	N_{Ini}	$N_{Des.}$	N_{Max}
Colchester CT -	34 deg. C / 30 deg. C	0 185 x 10^6	7	68	104
Petawawa ON -	34 deg. C / 30 deg. C	2 65 x 10^6	7	86	134
Moncure NC -	39 deg. C / 36 deg. C	3.32 x 10^6	8	96	152
Allentown NJ -	37 deg C / 33 deg. C	39.0 x 10^6	9	126	204

2) Densification Criteria - G_{mm} is measured AC03/P03

N_{ini} Observed % G_{mm} < 89.0%

N_{Des} Observed % G_{mm} approx. 96 0%

N_{Max} Observed % G_{mm} < 98.0%