FINAL REPORT

SPS-6 PROJECT 05A6: REHABILITATION OF JOINTED PORTLAND CEMENT CONCRETE PAVEMENTS US-65, SOUTHBOUND JEFFERSON COUNTY, ARKANSAS

FHWA/LTPP

SOUTHERN REGION COORDINATION OFFICE

October 1997

BRENT RAUHUT ENGINEERING INC.

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FINAL REPORT - SPS-6 PROJECT 05A6

REHABILITATION OF JOINTED PORTLAND CEMENT CONCRETE PAVEMENTS US-65, SOUTHBOUND JEFFERSON COUNTY, ARKANSAS

INTRODUCTION

In 1987, Congress authorized funding for the Strategic Highway Research Program (SHRP) SHRP's purpose was to conduct focused research in the areas of asphalt, concrete, pavement performance, structures, and highway operations In 1992, funding for SHRP ended An extension of SHRP, the Long Term Pavement Performance (LTPP) program continued to be funded through the Intermodal Surface Transportation Efficiency Act (ISTEA) Operation of the LTPP program was transferred to the Federal Highway Administration (FHWA) in June of 1992

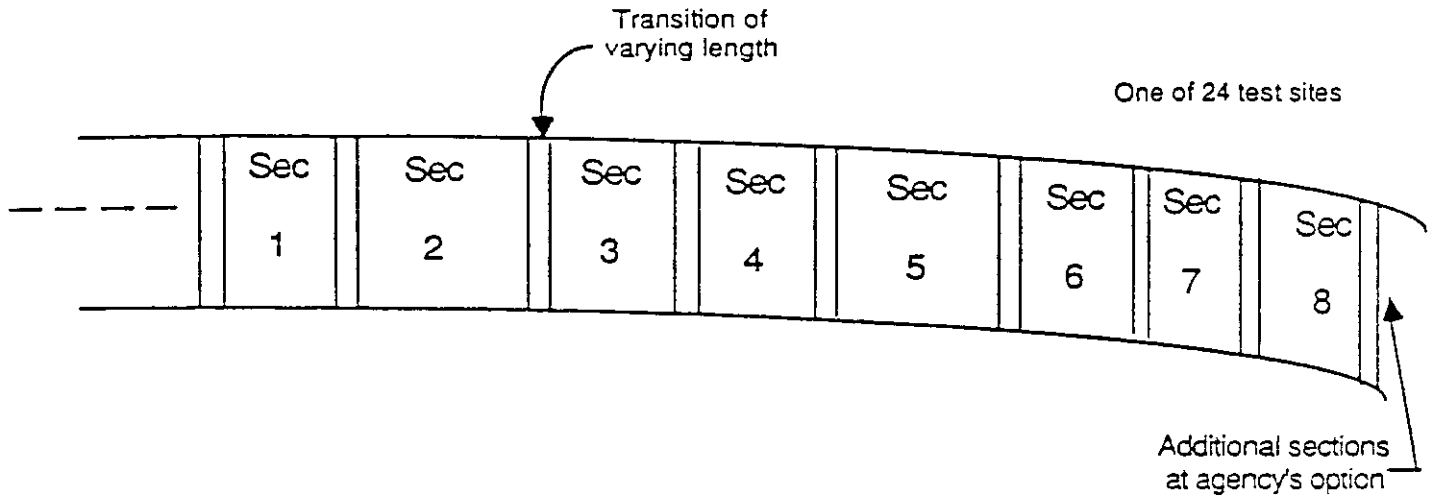
As part of the LTPP studies, sections of highway are being selected for Specific Pavement Studies (SPS) SPS sites have been incorporated into new and rehabilitation projects throughout the nation This report signifies the inclusion and construction of an SPS-6 site located on US-65 in Jefferson County, Arkansas

SPS-6 General Experiment Design

The SPS-6 experiment was designed to help highway agencies determine the best way to treat existing jointed concrete pavements Agencies today must determine which rehabilitation procedures work best under which circumstances, and the most appropriate time to apply such rehabilitation treatments Since the existing pavements have various levels of deterioration, one must carefully consider all the possible rehabilitation treatments and, at the same time, keep in mind the limited funding for such projects Therefore, the objective of the SPS-6 is to improve the performance prediction capabilities for jointed plain concrete (JPC) and jointed reinforced concrete (JRC) pavement by determining the additional pavement life that can be expected from the application of a variety of rehabilitation methods

Methods for restoration of concrete pavements vary in extent Examples of such methods include diamond grinding, subsealing, full-depth repair, partial-depth spall repair, restoration of load transfer, resealing of transverse joints, resealing of longitudinal lane/shoulder joints, pressure relief joints, retrofit tied PCC concrete shoulders, and longitudinal subdrains Asphalt concrete overlays may also be applied if necessary Figure 1 demonstrates a typical SPS-6 layout As can be seen in figure 1, the highway agency is encouraged to include extra test sections within the SPS-6 project to evaluate local practices and/or other innovative features

In addition to monitoring rehabilitation methods, other site related factors are recorded for future data analysis Such data includes environmental (climatic) factors, existing pavement condition and type of pavement, subgrade soil, traffic volume and traffic load Table 1 depicts this information in tabular form



SPS-6 SECTION	JC PAVEMENT PREPARATION	OTHER TREATMENTS	OVERLAY THICKNESS
1	Routine Maintenance		0
2	Minimum Restoration		0
3	Minimum Restoration		4-inch
4	Minimum Restoration	Saw and seal joints in AC	4-inch
5	Maximum Restoration (CPR)		0
6	Maximum Restoration (CPR)		4-inch
7	Crack/Break and Seat		4-inch
8	Crack/Break and Seat		8-inch

Figure 1. Illustrative Test Section Layout for SPS-6, Rehabilitation of Jointed Portland Cement Concrete Pavements

Table 1. Experimental Design for SPS-6, Rehabilitation of Jointed Portland Cement Concrete Pavements

Rehabilitation Procedures \ Factors for Moisture, Temperature, Pavement Type, and Pavement Condition		WET FREEZE				WET, NO FREEZE				DRY FREEZE				DRY, NO FREEZE	
		JPCP		JRCP		JPCP		JRCP		JPCP		JRCP		JPCP	
		FAIR	POOR	FAIR	POOR	FAIR	POOR	FAIR	POOR	FAIR	POOR	FAIR	POOR	FAIR	POOR
PREPARATION	OVERLAY THICKNESS														
Routine Maintenance (Control)	0	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx	x	x	x	x
Minimum Restoration	0	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx	x	x	x	x
	4"	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx	x	x	x	x
	4" *	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx	x	x	x	x
Maximum Restoration (CPR)	0	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx	x	x	x	x
	4"	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx	x	x	x	x
Crack/Break and Seat	4"	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx	x	x	x	x
	8"	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx	x	x	x	x

* with saw AC overlay joints above JCP joints and seal

Subgrade Soil: Fine
Traffic: >200 KESAL/Year

Each "x" designates a test section.

Selection/Nomination of US-65, Southbound

This project was first offered for consideration by the State of Arkansas in April 1996 After reviewing the details provided by the state on this project, and preparation of a tentative layout of the test sections, the project was officially nominated in June 1996 Appendix A contains the nomination forms which provide specific information on the project location, significant dates, traffic information and the state agency's structural pavement design for the SPS-6 project

PRECONSTRUCTION MONITORING

During August 1996, personnel from the Southern Region Coordination Office (SRCO) made a trip to Arkansas to visually inspect the site nominated for the SPS-6 experiment After inspection, SRCO personnel and Boon Thian of the Arkansas State Highway and Transportation Department (Arkansas SHTD) concluded that the site met the SPS-6 criteria and the proposed test sections would not need any modifications

Preconstruction monitoring activities began on 13 September 1996, and consisted of rod and level shots, manual distress surveys, roughness evaluation using a profilometer, Falling Weight Deflectometer (FWD) testing The rod and level shots serve as an existing reference for layer thickness and slope in order to attain the thickness and slope of the newly constructed HMAC pavement layers The thickness data can be found in appendix C Initial distress for most of the roadway included low severity longitudinal cracking, low severity transverse joint seal damage, some low (and a few high) severity spalling of the transverse joints, mild faulting of the transverse joints, map cracking, and flexible patch deterioration The manual distress survey summaries can be found in appendix D

Extensive material sampling and testing is done for each SPS project (see appendix B) Four-inch cores were collected on 13 September 1996, and used to examine the in situ surface layer and its corresponding layer thickness Auguring took place on 14 April 1997 (after construction was completed) After the auguring process was completed, the base material was visually classified and the subgrade was analyzed by the Arkansas SHTD laboratory for Atterberg limits, natural moisture content, classification, and a sieve analysis

CONSTRUCTION MONITORING

This SPS-6 project is located in Jefferson County, near Redfield, Arkansas Jefferson County is located in the Arkansas SHTD District 2 Bill Fine is the Resident Engineer for this district and Billy Lindsey served as the state inspector for the SPS-6 project The asphalt plant was owned by the prime contractor and was located 33 miles north of the project on Counts-Massie Road in North Little Rock, Arkansas

Construction of the SPS-6 project commenced on 1 October 1996, with partial and full depth patching on test sections 02 and 05 Concurrently, the crack and seat operations on the original pavement for sections 07 and 08 was underway as well After the subcontractor (for the crack and seat process) had left the project, it was noticed that the cracking process did

not fully crack the entire depth of the existing concrete pavement The lack of full depth cracking represents the first of five project deviations The second deviation occurred after the seating of the cracked concrete Due to scheduling conflicts, sections 07 and 08 did not receive FWD testing following the seating process

Placement of HMAC began on 15 October 1996 The third deviation of the SPS-6 experiment occurred after the first layer of HMAC binder was placed The contractor felt that the HMAC between station 4+00 and 4+50 of section 07 was not up to standards He therefore placed an HMAC level-up layer between the previously mentioned stations There is a picture of the level-up in appendix F Over a month later, the contractor began placing the surface HMAC layer on top of the binder layer The fourth deviation occurred when the asphalt paver had to stop paving temporarily within test section 07 After resuming the pavement process, a transverse cold joint was left in the surface layer

The final deviation in the SPS-6 experiment appeared after the state conducted a roughness evaluation test (using a profilograph) on the concrete test sections The results indicated that sections 02 and 05 would need more diamond grinding before the section met the specification of 7" per mile After the second grinding, the test sections passed specifications with a reading of 6 2" per mile For additional details on the construction operations, see appendix E

POSTCONSTRUCTION MONITORING

Construction was completed on 11 December 1996 Postconstruction monitoring activities consisted of obtaining 6" cores, rod and level measurements, a roughness evaluation using a profilometer (5 February and 11 August 1997, see table 2), and nuclear density testing of the HMAC surface The final layer thicknesses for the SPS-6 test sections can be found in appendix C The road was reopened to traffic in March 1997

During the postconstruction monitoring of the SPS-6 project, it was noted that the temporary benchmark (TBM) for test section 08 had been destroyed during construction In order to have a rough estimate of the HMAC thickness for that test section, a second TBM was set and rod and level shots taken A core was then taken from the test section (at station 0+00 with 0' offset) and measured for HMAC thickness That thickness measurement was then used to adjust the previous rod and level shots taken using the second TBM

Table 2. Profile Readings

International Roughness Index (IRI) in Meters/Kilometer			
Section ID	**Preconst. 11 Sep 96**	**Postconst. 5 Feb 97**	**Postconst. 11 Aug 97**
05A608	2 007	0 874	0 910
05A607	1 536	1 032	1 092
05A606	2 378	0 993	1 035
05A604	2 203	1 032	0 966
05A603	1 843	0 898	0 920
05A605	1 885	*	1 249
05A602	2 036	*	2 004
051601	2 083	*	2 313
Average	1 996	0 966	

* Not tested due to construction barricades and debris in roadway

SUMMARY

Having completed the construction and initial monitoring of the SPS-6 project, it appears that the test sections within the project will contribute significantly to the evaluation of the rehabilitation processes for existing jointed concrete pavements The test sections will continue to be monitored for surface distress, surface profile and structural capacity The results from the monitoring efforts will be compared against other similar projects throughout the country This comparison will ultimately result in an increased knowledge and understanding of which rehabilitation procedures work best for jointed concrete pavements This project would not have been possible without the support of the Arkansas SHTD In particular, much of the credit is due to the assistance of Boon Thian and Rick Sneed from the state office of Planning and Research, and Bill Fine and Billy Lindsey of the District 2 office

APPENDIX A

SITE NOMINATION FORMS
AND
OTHER PERTINENT INFORMATION

Brent Rauhut Engineering Inc.

11 June 1996

Mr. Monte Symons
Pavement Performance Division - LTPP (HNR-40)
Federal Highway Administration
Turner-Fairbanks Highway Research Center
6300 Georgetown Pike, Room F-215
McLean, Virginia 22101

Subject: Nomination of Arkansas SPS-6 Project

Dear Monte,

Enclosed are the nomination forms and supporting information for an SPS-6 project in Jefferson County, Arkansas, as prepared and submitted by the Arkansas SHTD. We have reviewed the pertinent information regarding this project and discussed it at length with Arkansas SHTD personnel. We feel that this project meets the stated requirements for the SPS-6 experiment and recommend it approval.

Please do not hesitate to contact me if you need any additional information.

Sincerely,

Mark P. Gardner, P.E.
Project Engineer

MPG:dmj

Enclosure: As stated.

c.w/Enc: Boon Thian, ARSHTD
John Miller, PCS/LAW
Brent Rauhut, SRCO/File:0506
Lester Frank, FHWA-AR Div.
Morris Reinhardt, RE/SRCO
Peter Jordahl, SRCO

8240 Mopac, Suite 220 • Austin, Texas • (512) 346-0870 • FAX (512) 346-8750

RECEIVED MAY 0 6 1996

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

NAME	INFO	ACTN	COPY
BR			
File			

Dan Flowers
Director
Telephone (501) 569-2000

P O Box 2261
Little Rock, Arkansas 72203-2261
Telefax (501) 569-2400

April 30, 1996

Mr Morris Reinhardt
LTPP Southern Regional Engineer
8240 N Mopac, Suite 250
Austin, TX 78759

Re SPS-6 Nomination
AHTD Job No R20138

Dear Mr Reinhardt

Enclosed are nomination forms for an SPS-6 project proposed for construction as part of a rehabilitation project on Hwy 65 in Jefferson County, Arkansas This will replace an approved SPS-6 project that has been canceled due to delays in the Department's construction schedule Please process this nomination as soon as possible in order that the Roadway Design Division can complete plans and specifications in time for a bid letting on June 4, 1996 Construction should begin before August 1996

Yours truly,

Jim Gee
Materials Engineer

JG BRS
Enclosure

SHEET A. SPS-6 CANDIDATE PROJECT NOMINATION AND INFORMATION FORM

STATE AR (05)

PROJECT LOCATION

ROUTE NUMBER 65

ROUTE SIGNING [] Interstate [x] U.S. [] State [] County

Other _____

PROJECT LOCATION Start Milepost 3.05 End Milepost 4.41

Start Station 871+00 End Station 943+00

PROJECT LOCATION DESCRIPTION Project is in southbound lanes of U.S. 65 beginning 3.05 miles south of Jefferson (35) and Pulaski County line.

COUNTY 35

HIGHWAY AGENCY DISTRICT NUMBER 2

SHRP ENVIRONMENTAL ZONE

[] WET FREEZE [x] WET NO-FREEZE [] DRY FREEZE [] DRY NO-FREEZE

SIGNIFICANT DATES

LATEST DATE OF APPROVAL NOTIFICATION FROM SHRP _____

CONTRACT LETTING DATE 6/96

ESTIMATED CONSTRUCTION START DATE 7/96

PROJECT DESCRIPTION

YEAR OPENED TO TRAFFIC 1979

NUMBER OF LANES (One Direction) 2

[x] Divided [] Undivided

OUTSIDE LANE WIDTH (Feet) 12

OUTSIDE SHOULDER TYPE

[] Turf [] Granular [x] Asphalt Concrete [] Surface Treatment

[] PCC [] Tied PCC [] Curb and Gutter Other _____

OUTSIDE SHOULDER WIDTH (Feet) 10

SUBSURFACE EDGE DRAINS [] Placed at initial construction [x] Not Used

[] Retrofitted Retrofit Date _____

ASSESSMENT OF PRESENT PAVEMENT CONDITION [] Fair [x] Poor

PREDOMINATE DISTRESSES

[] D Cracking [x] Other Cracking [] Faulting [] Pumping [x] Joint Failure

Comments Poor ride quality

SHEET B SPS-6 CANDIDATE PROJECT NOMINATION AND INFORMATION FORM

STATE AR (05)

PAVEMENT STRUCTURE DETAILS

PCC PAVEMENT TYPE [X] Jointed Plain [ ] Jointed Reinforced

JOINT SPACING (Feet) 15

JOINTS [X] Perpendicular [ ] Skewed [ ] Doweled [ ] Other Load Transfer

PCC FLEXURAL STRENGTH (Psi) 3,000 psi

MODULUS OF SUBGRADE REACTION (k)

PAVEMENT STRUCTURE LAYER DESCRIPTIONS

LAYER[1] NO.	LAYER[2] DESCRIPTION CODE	MATERIAL TYPE[3] CLASS CODE	THICKNESS[4] (INCHES)
1	SUBGRADE (7)		
2	1 1	5 3	
3	0 5	2 7	6 0
4	0 3	0 4	1 0 0
5	0 1	0 1	5 0
6			
7			
8			
9			

NOTES

1 Layer 1 is the natural occurring subgrade soil. The existing surface will have the largest assigned layer number

2. Layer description codes:

Overlay	01	Base Layer	05	Porous Friction Course	09
Seal Coat	02	Subbase Layer	06	Surface Treatment	10
Original Surface	03	Subgrade	07	Embankment (Fill)	11
Subsurface HMAC	04	Interlayer	08		

3. Refer to Tables 1 through 4 for material class codes.

4 If subgrade depth to a rigid layer is known, enter this depth for subgrade, otherwise leave blank for subgrade layer

SHEET C. SPS-6 CANDIDATE PROJECT NOMINATION AND INFORMATION FORM

STATE AR (05)

TRAFFIC DATA

ANNUAL AVERAGE DAILY TRAFFIC (TWO DIRECTION)	30,400
% HEAVY TRUCKS AND COMBINATIONS (OF AADT)	13%
COUNT YEAR OF AADT ESTIMATE	2016
TRAFFIC GROWTH RATE SINCE PROJECT OPENED TO TRAFFIC (%/YR)	
18K ESAL RATE IN PROPOSED STUDY LANE (1,000 ESAL/YR)	320
YEAR OF ESAL RATE ESTIMATE	2006
ESTIMATED TOTAL 18K ESAL APPLICATIONS IN STUDY LANE[1] 10 yr. study	3,200,000

REHABILITATION INFORMATION[2]

PRIMARY CAUSE FOR REHABILITATION Longitudinal cracking
Ride quality

OVERLAY	Thickness (Inches)	Material Type Class Code
Surface Course	2	01
Binder Course	3	01

Saw and Seal above joints? [] Yes [X] No

SURFACE PREPARATION PRIOR TO OVERLAY

[] Joint Sealing [] Crack Sealing [] Undersealing [] Crack & Seat

[] Patching [] Joint Replacement % Joints Replaced

Other Rubblize

OTHER CONSTRUCTION ACTIVITIES TO BE PERFORMED DURING REHABILITATION

Retrofit edge drains

NOTES

1. Leave blank if estimate is not available.
2. This information concerns the planned rehabilitation work to be performed by the agency on the non-experimental portions of the project.

SHEET D SPS-6 CANDIDATE PROJECT NOMINATION AND INFORMATION FORM

STATE AR

TEST SECTION LAYOUT

NUMBER OF TEST SECTIONS ENTIRELY ON FILL 8 CUT 0

SHORTEST TRANSITION BETWEEN CONSECUTIVE TEST SECTIONS (Feet) 100

COMMENTS ON DEVIATIONS FROM DESIRED SITE LOCATION CRITERIA

OTHER SHRP TEST SECTIONS

DOES PROJECT CONFORM TO GPS-3 OR GPS-4 PROJECT CRITERIA? [] YES [] NO

DOES AGENCY APPLIED TREATMENT QUALIFY FOR GPS-7B? [] YES [] NO

IS PROJECT SUITABLE FOR SPS-4 TEST SECTIONS? [] YES [X] NO

IS AGENCY INTERESTED IN USE OF PROJECT AS SPS-4 SITE? [] YES [X] NO

DISTANCE TO NEAREST GPS TEST SECTION ON SAME ROUTE (Miles)

NEAREST GPS TEST SECTION NUMBER

SUPPLEMENTAL TEST SECTIONS

IF SUPPLEMENTAL EXPERIMENTAL TEST SECTIONS ARE PROPOSED, COMPLETE THE FOLLOWING

TOTAL NUMBER OF SUPPLEMENTAL TEST SECTIONS 1

FACTORS TO BE INVESTIGATED Evaluate rubblization and overlay as State's rehabilitation method for remainder of project.

				6	ARK.			
				JOB NO.		R20138	1	55

(2) PULASKI CO. LINE-REDFIELD (REHAB)

"A FULLY CONTROLLED ACCESS FACILITY"

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

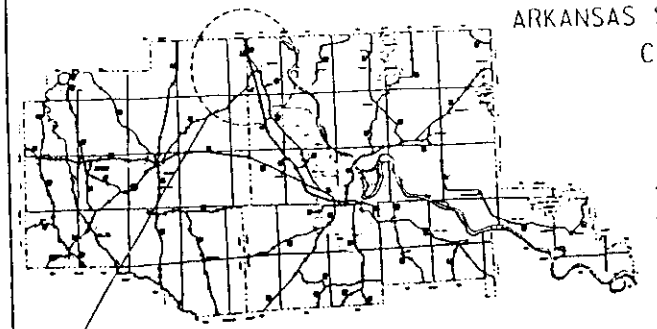
CONSTRUCTION PLANS FOR STATE HIGHWAY

PULASKI CO. LINE - REDFIELD (REHAB.) (S)

GRANT & JEFFERSON COUNTIES

ROUTE 65 SECTIONS 13 & 14

JOB R20138



PROJECT LOCATION GRANT & JEFFERSON COUNTIES

ARK. HWY. DIST. NO. 2

NOTICE
HALF-SIZE PLANS

SCALE: 1" = 1/2 MILE

BRIDGE DATA (FOR INFORMATION ONLY)

(1) STA. 402+44.69 BRIDGE END
EXISTING 105.0' R.C. SLAB SPAN
BR. NO. 5620A
39'-0" CLEAR ROADWAY
(35' RT. FWD. SKEW)
STA. 403+49.69 BRIDGE END

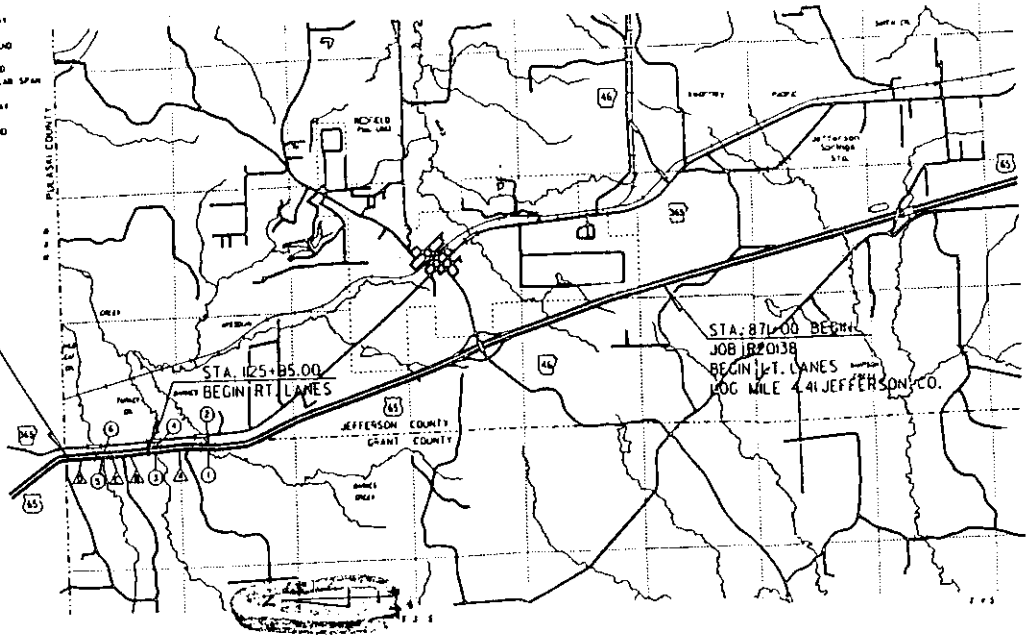
(2) STA. 403+06.31 BRIDGE END
EXISTING 105.0' R.C. SLAB SPAN
BR. NO. 5620B
39'-0" CLEAR ROADWAY
(35' RT. FWD. SKEW)
STA. 404+4.31 BRIDGE END

(3)(4) STA. 424+55.00 BRIDGE END A & B
EXISTING 105.0' R.C. SLAB SPAN
BR. NO. 5620A & B
39'-0" CLEAR ROADWAY
STA. 425+60.00 BRIDGE END A & B

NOTE: EXISTING BRIDGE END POSTS SHALL BE MODIFIED

(5) STA. 0+24.69 BRIDGE END
EXISTING 105.0' R.C. SLAB SPAN
BR. NO. 5622A
39'-0" CLEAR ROADWAY
(35' RT. FWD. SKEW)
STA. 1+79.69 BRIDGE END

(6) STA. 1+36.31 BRIDGE END
EXISTING 105.0' R.C. SLAB SPAN
BR. NO. 5622B
39'-0" CLEAR ROADWAY
(35' RT. FWD. SKEW)
STA. 2+41.31 BRIDGE END



STA. 11+50 END
JOB R20138
END LT. & RT. LANES
LOG MILE 0.0 GRANT CO.

STA. 125+85.00
BEGIN RT. LANES

STA. 871+00 BEGIN
JOB R20138
BEGIN LT. LANES
LOG MILE 4.41 JEFFERSON CO.

EQUATIONS:

STA. 1114+52.2 BK. =
STA. 1113+85.9 AHD.

STA. 1142+91.2 BK. =
STA. 1142+94.9 AHD.

STA. 1150+09.0 BK. =
STA. 0+00.0 AHD.

STA. 5+00.0 BK. =
STA. 0+10.5 AHD.

DESIGN TRAFFIC DATA

DESIGN YEAR	2016
1996 ADT	16900
2016 ADT	30400
2016 DHV	3344
DIRECTIONAL DISTRIBUTION	0.60
TRUCKS	13%
DESIGN SPEED	65 MPH

RECOMMENDED FOR APPROVAL

BRIDGE DESIGN ENGINEER

ROADWAY DESIGN ENGINEER

DISTRICT ENGINEER

APPROVED

CHIEF ENGINEER

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
RECOMMENDED FOR APPROVAL

DATE

APPROVED

DIVISION ENGINEER DATE

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
ROGER ALMOND

LENGTH COMPUTED ALONG CENTERLINE OF MEDIAN

GROSS LENGTH OF PROJECT	29616.00	FEET OR	5.609	MILES
NET " " ROADWAY	29301.00	" "	5.549	"
NET " " BRIDGES	0.00	" "	0.000	"
NET " " PROJECT	29301.00	" "	5.549	"

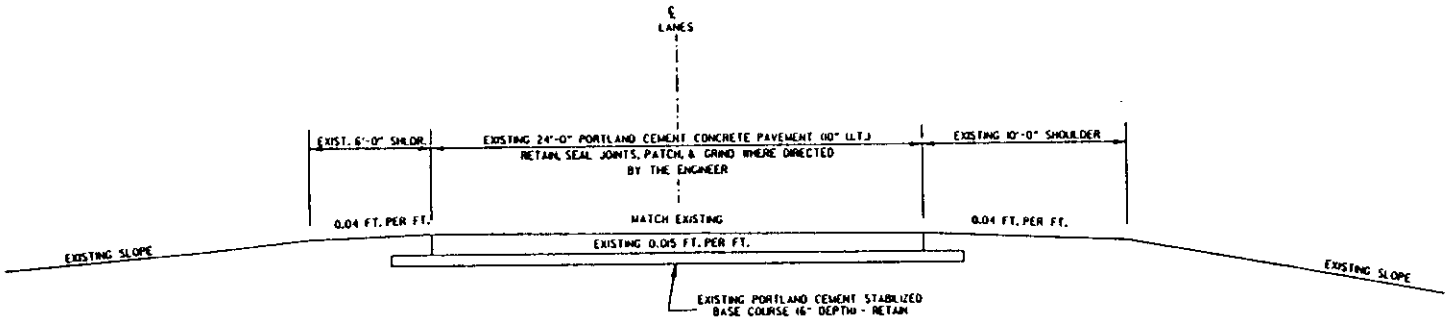
P.E. JOB R20138
NON-PARTICIPATING

4-30-96

				6	ARK.			
						R20138	9	55

(2) TYPICAL SECTION OF IMPROVEMENT

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 2909



SPECIAL PAVEMENT STUDY SECTIONS 050601 & 050602

(SHOWN IN DIRECTION OF TRAFFIC)

SPS SECTION NUMBER 050601
LEFT MAIN LANES
STA. 871+00 TO STA. 876+00

? 876 in 877

SPS SECTION NUMBER 050602
LEFT MAIN LANES
STA. 878+00 TO 888+00

888+00 in 888+50

NOTE: ROUTINE MAINTENANCE PAVEMENT RESTORATION (SECTION 050601) FROM STA. 871+00 TO 877+00 AS DIRECTED BY THE ENGINEER.
MINIMUM PAVEMENT RESTORATION (SECTION 050602) FROM STA. 877+00 TO STA. 888+50

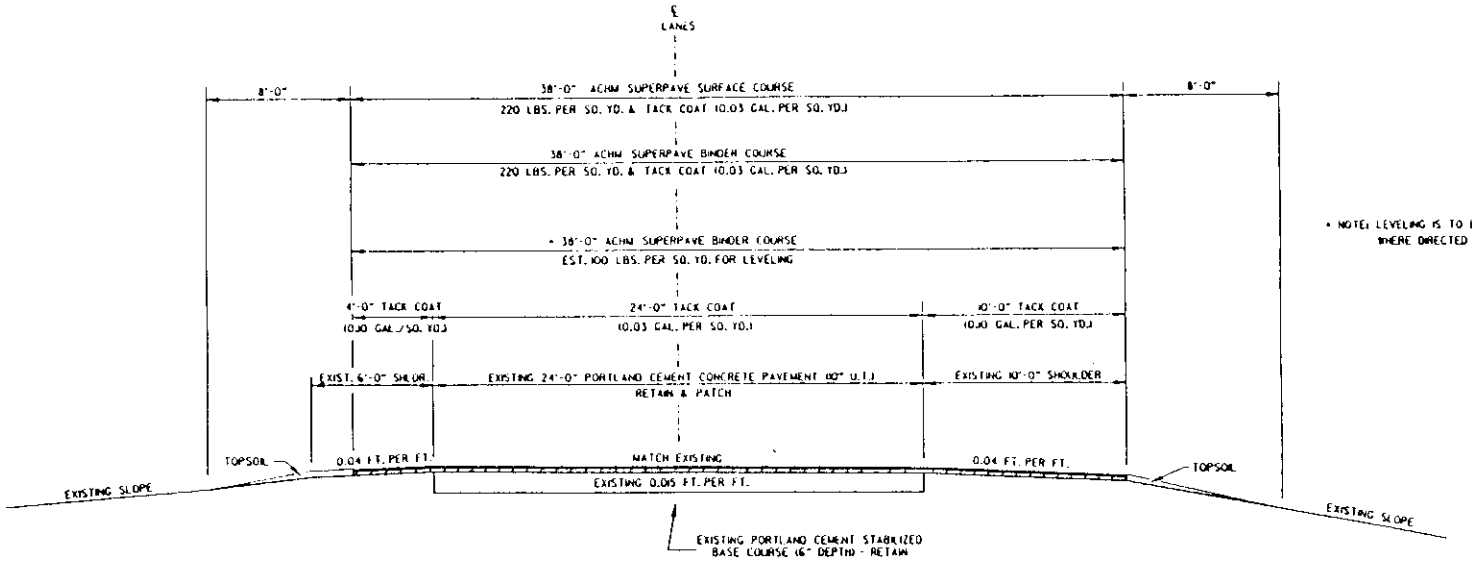
TYPICAL SECTION OF IMPROVEMENT

30APR96 RR20138.T01

DATE REVISED	DATE PLACED	DATE REVISED	DATE PLACED	FEDERAL REGION	STATE	FEDERAL PROJECT	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		R2038	10	55

7 TYPICAL SECTION OF IMPROVEMENT

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER NO. 7999



* NOTE: LEVELING IS TO BE USED ONLY WHERE DIRECTED BY THE ENGINEER.

SPECIAL PAVEMENT STUDY SECTIONS 050603 & 050604

(SHOWN IN DIRECTION OF TRAFFIC)

SPS SECTION NUMBER 050603
LEFT MAIN LANES
STA. 908+00 TO STA. 913+00

SPS SECTION NUMBER 050604
LEFT MAIN LANES
STA. 917+00 TO 922+00

NOTE: MINIMUM PAVEMENT RESTORATION (SECTION 050603 & 050604)
FROM STA. 903+00 TO STA. 922+50 AS DIRECTED BY THE ENGINEER.
OVERLAY AS SHOWN ABOVE FROM
STA. 907+00 TO STA. 922+50
TRANSITION OVERLAY FROM STA. 903+00 TO STA. 907+00
AS SHOWN ON SHEET NO. 16
SAW AND SEAL JOINTS IN OVERLAY FROM STA. 916+00
TO STA. 922+50 AS SHOWN ON SHEET NO. 17

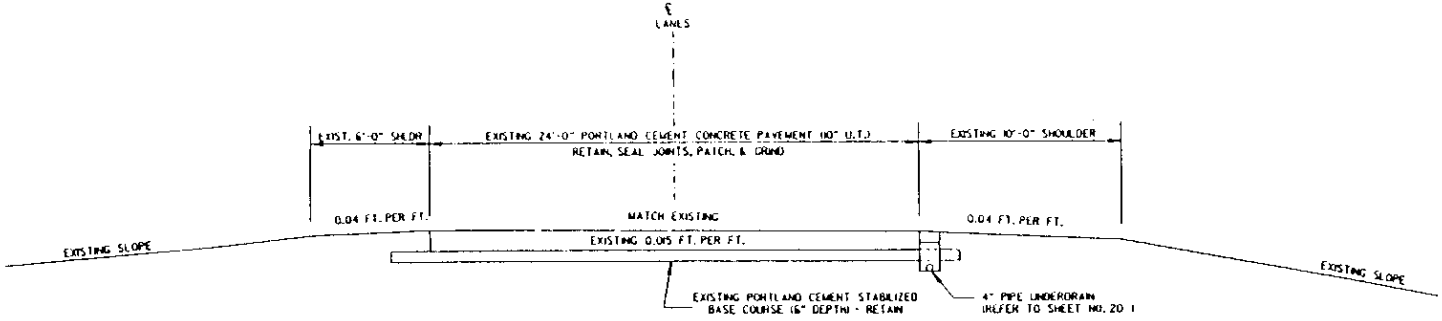
TYPICAL SECTION OF IMPROVEMENT

304-P896 AR2038.T01

DATE REVISED	DATE PLANS	DATE REVISED	DATE PLANS	FEDERAL DISTRICT	STATE	FEDERAL PROJECT	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		R20138	11	55

(2) TYPICAL SECTION OF IMPROVEMENT

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7909
PAUL R. DIRUSK, JR.



SPECIAL PAVEMENT STUDY SECTIONS 050605

(SHOWN IN DIRECTION OF TRAFFIC)

SPS SECTION NUMBER 050605
LEFT MAIN LANES
STA. 889+00 TO STA. 899+00

NOTE: INTENSIVE PAVEMENT RESTORATION (SECTION 050605) FROM STA. 888+50 TO STA. 903+00 AS DIRECTED BY THE ENGINEER.

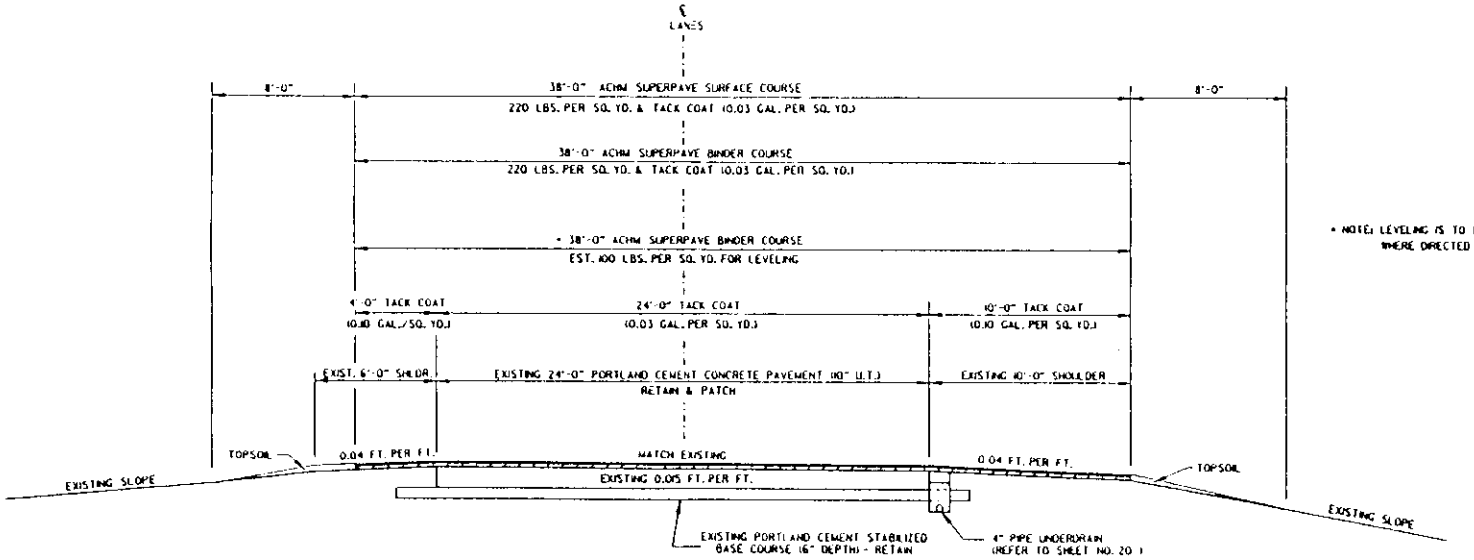
TYPICAL SECTION OF IMPROVEMENT

30APR96 RR20138.101

				6	ARK.			
				JOB NO.		R2038	12	55

2 TYPICAL SECTION OF IMPROVEMENT

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER



* NOTE: LEVELING IS TO BE USED ONLY WHERE DIRECTED BY THE ENGINEER.

SPECIAL PAVEMENT STUDY SECTION 050606

(SHOWN IN DIRECTION OF TRAFFIC)

SPS SECTION NUMBER 050606
LEFT MAIN LANES
STA. 923+00 TO STA. 928+00

NOTE: INTENSIVE PAVEMENT RESTORATION (SECTION 050606) FROM STA. 922+50 TO STA. 928+50 AS DIRECTED BY THE ENGINEER. OVERLAY AS SHOWN ABOVE FROM STA. 922+50 TO 928+50.

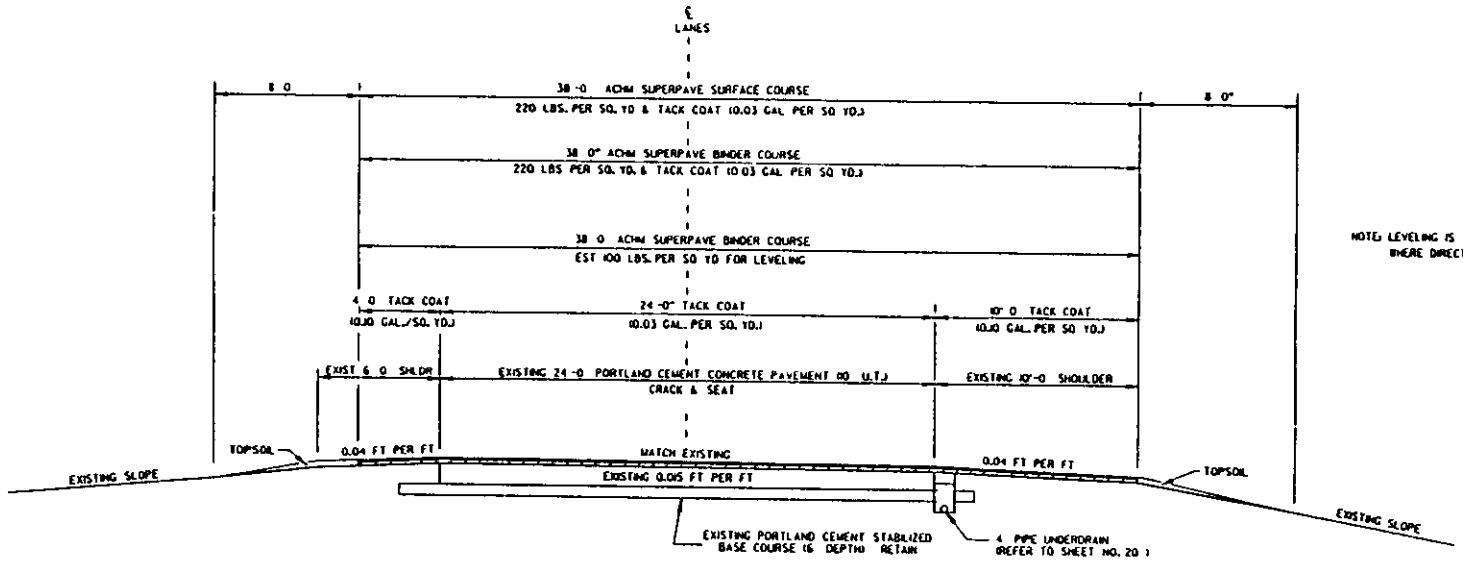
TYPICAL SECTION OF IMPROVEMENT

30APR96 RR2038.TCI

A.12

				6	ARK.			
				.06 MI.		R20138	13	5

(2) TYPICAL SECTION OF IMPROVEMENT



NOTE: LEVELING IS TO BE USED ONLY WHERE DIRECTED BY THE ENGINEER.

SPECIAL PAVEMENT STUDY SECTIONS 050607

(SHOWN IN DIRECTION OF TRAFFIC)

SPS SECTION NUMBER 050607
LEFT MAIN LANES
STA. 929+00 TO STA. 934 00

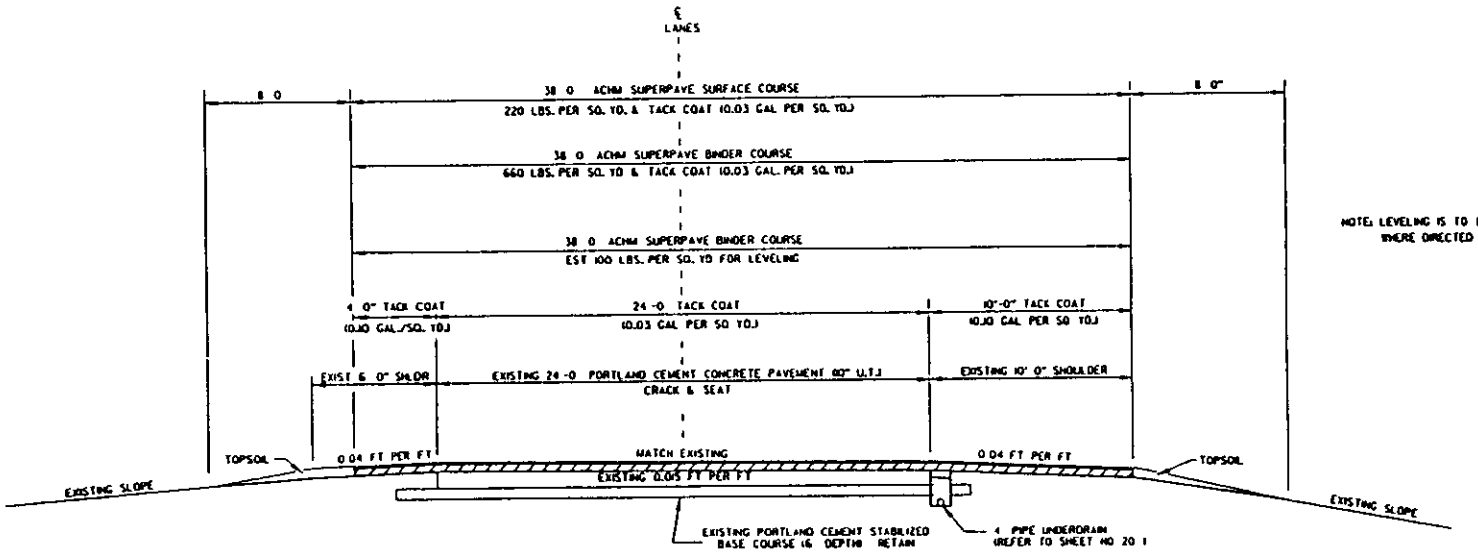
NOTE: CRACK AND SEAT EXISTING P.C CONC. PAVEMENT AS SHOWN ABOVE FROM STA 928 50 TO 938 00.
OVERLAY AS SHOWN ABOVE FROM STA 928 50 TO STA 934+00.
TRANSITION OVERLAY FROM STA 934 00 TO 938 00 AS SHOWN ON SHEET NO. 17

TYPICAL SECTION OF IMPROVEMENT

				6	ARK.			
				JOB NO.		R2038	14	35

2 TYPICAL SECTION OF IMPROVEMENT

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER



NOTE: LEVELING IS TO BE USED ONLY WHERE DIRECTED BY THE ENGINEER.

SPECIAL PAVEMENT STUDY SECTIONS 050608

(SHOWN IN DIRECTION OF TRAFFIC)

SPS SECTION NUMBER 050608

LEFT MAIN LANES

STA. 938+00, TO STA. 943+00

NOTE: CRACK AND SEAT EXISTING P.C CONC PAVEMENT AS SHOWN ABOVE FROM STA. 938+00 TO 944 00. OVERLAY AS SHOWN ABOVE FROM STA. 938 00 TO STA. 944+00.

TYPICAL SECTION OF IMPROVEMENT

A 14

R2038 TO

APPENDIX B

MATERIALS SAMPLING AND TESTING PLAN

MATERIAL SAMPLING
AND
FIELD TESTING PLAN

ARKANSAS SPS-6 PROJECT 05A600
US-65, SOUTHBOUND
JEFFERSON COUNTY, ARKANSAS

PREPARED BY:

BRENT RAUHUT ENGINEERING INC.
FHWA/LTPP SOUTHERN REGION COORDINATION OFFICE
8240 MOPAC, SUITE 220
AUSTIN, TEXAS 78759

REVISED JUNE 1997

MATERIAL SAMPLING AND FIELD TESTING PLAN
ARKANSAS SPS-6 PROJECT (05A600)
US-65, SOUTHBOUND
JEFFERSON COUNTY, ARKANSAS

INTRODUCTION

As part of their participation in the FHWA Long Term Pavement Performance (LTPP) studies, the State of Arkansas has elected to construct an SPS-6 project to study the rehabilitation of rigid pavements This project will consist of multiple test sections with similar details and materials along a stretch of US-65, in the southbound lane, near Pine Bluff, Arkansas It is the intent of this document to provide a plan for the materials sampling and field testing, and a listing of the laboratory materials testing that will occur as a part of this project

This document has been prepared in accordance with the guidelines provided by the Strategic Highway Research Program in Operational Memorandum Nº SHRP-LTPP-OM-019, entitled "Specific Pavement Studies Materials Sampling and Testing Requirements for Experiment SPS-6, Rehabilitation of Jointed Portland Cement Concrete Pavements, January 1991" Recognizing the apparent variability in the construction of roadway projects, the goal of this effort is to develop a sampling and testing plan for the project materials that will be consistent with other projects in this experiment, and therefore make the information obtained suitable for analysis

The objective of the SPS-6 study is to evaluate rehabilitation methods that can be used to restore the condition and extend the service life of jointed portland cement concrete pavements The pavement type and condition, environment, traffic, intended pavement preparation, and use of asphalt concrete overlay are primary considerations in selecting an appropriate rehabilitation method The standard SPS-6 experiment layout includes eight test sections The in-service tests proposed in this experiment will help quantify the influence of these parameters on pavement performance and life expectancy, and improve current design procedures Consequently, the experiment will help highway agencies select methods and strategies for rehabilitation of existing jointed portland cement concrete pavements

This sampling and testing plan was developed by Brent Rauhut Engineering Inc , the Southern Region Coordination Office, under contract to the Federal Highway Administration If, during the construction activities, any questions arise regarding the sampling and/or testing to be conducted, one should first coordinate these questions with the Arkansas State Highway and Transportation Department (SHTD), who may refer them to the Southern Region Coordination Office

This document has been prepared in three distinct parts

A General Layout Information

B Materials Sampling and Testing

C Laboratory Materials Testing

The General Layout section provides tables and figures of the layout showing the eight test sections along the roadway and the layer structure of each test section

The Material Sampling and Testing section defines in detail all of the material samples to be obtained, testing to be performed in the field, and provides an itemized list showing where each sample is to be shipped for laboratory testing

Finally, the Laboratory Material Testing section outlines the laboratory material test program to be conducted and provides tracking charts showing the testing to be performed on each sample of each material in each laboratory

SECTION A

GENERAL LAYOUT INFORMATION

SECTION A

GENERAL LAYOUT INFORMATION

This section of the plan provides a description of the SPS-6 project in terms of the location of the test sections along the roadway Table A-1 lists the test sections in order by station, providing an indication of the cross-section of each test section Table A-2 tracks the test sections from the beginning of the first section at Station 871+00 to the end of the last section at Station 943+00 This table indicates transition areas between sections and the variation of pavement layer materials within these transitions

Finally, Figure A-1 depicts the layout of the test sections along the roadway and shows the variation of material type and layer thickness

The referenced project stationing was provided by the Arkansas SHTD If there are significant changes in alignment or stationing, this plan should be reviewed closely to determine if revisions are warranted

TABLE A-1. TEST SECTION LAYOUT

Section Nº.	Cross Section	Begin Station	End Station
05A601	Existing JPCP Routine Maintenance No Overlay	871+00	876+00
05A602	Existing JPCP Min. Restoration No Overlay	878+00	888+00
05A605	Existing JPCP Max. Restoration (CPR) No Overlay	889+00	899+00
05A603	Existing JPCP Min. Restoration 4″ AC Overlay	908+00	913+00
05A604	Existing JPCP Min. Restoration 4″ AC Overlay w/Saw Joints	917+00	922+00
05A606	Existing JPCP Max. Restoration (CPR) 4″ AC Overlay	923+00	928+00
05A607	Existing JPCP Crack and Seat 4″ AC Overlay	929+00	934+00
05A608	Existing JPCP Crack and Seat 8″ AC Overlay	938+00	943+00

TABLE A-2. ORDERING OF SECTIONS ALONG CENTERLINE STATIONING

Section ID	Begin Sta.	End Sta.	Treatment/Overlay Thickness			
			Restoration	Crack/ Break & Seat	(1) AC Surface (in)	Retrofitted Edgedrains
05A601	871+00	876+00	Routine Maintenance	No	0	No
Transition	876+00	878+00	Min.	No	0	No
05A602	878+00	888+00	Min.	No	0	No
Transition	888+00	889+00	Min.-Max.	No	0	No-Yes
05A605	889+00	899+00	Max.	No	0	Yes
Transition	899+00	908+00	Max.-Min.	No	0-4	Yes-No
05A603	908+00	913+00	Min.	No	4	No
Transition	913+00	917+00	Min.	No	4	No
05A604	917+00	922+00	Min.	No	4(2)	No
Transition	922+00	923+00	Min.-Max.	No	4	No-Yes
05A606	923+00	928+00	Max.	No	4	Yes
Transition	928+00	929+00	Max.-Min.	No-Yes	4	Yes
05A607	929+00	934+00	Min.	Yes	4	Yes
Transition	934+00	938+00	Min.	Yes	4-8	Yes
05A608	938+00	943+00	Min.	Yes	8	Yes
Transition						

Notes:
1. Combined binder and wearing course thickness.
2. With saw AC overlay joints above JCP joints and seal.

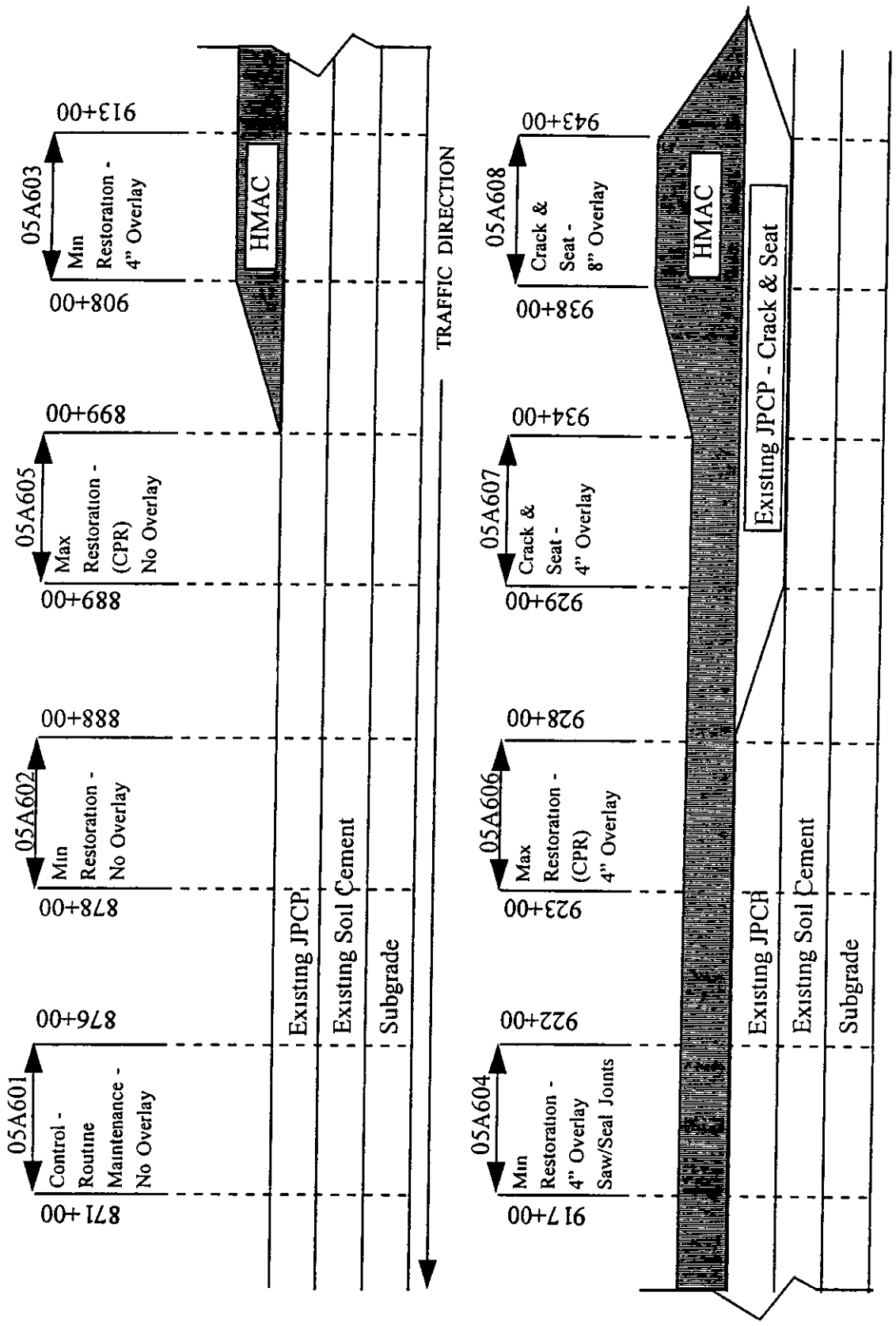


FIGURE A-1. LAYOUT OF TEST SECTIONS ARKANSAS SPS-6 PROJECT (05A600)

SECTION B

MATERIAL SAMPLING AND TESTING

SECTION B

MATERIAL SAMPLING AND TESTING

This section of the plan provides for the material sampling and testing activities that occur in the field Table B-1 provides the scope of the material sampling and testing activities Table B-2 describes special sampling needs for the Materials Reference Library and provides contact information to coordinate sample shipping arrangements

Figures B-1 through B-13 show the locations and numbering scheme for the many samples and tests scheduled Figures B-2 and B-3 show the sampling and testing to occur for preconstruction and postconstruction, respectively, while Figures B-4 through B-13 show all sampling and testing scheduled for each test section

Finally, Tables B-3 and B-4 list samples to be shipped to the state laboratory (or their designee), and those samples to be shipped to the FHWA/LTPP testing contractor, respectively Shipment of samples to the FHWA/LTPP testing contractor, LAW Engineering in Atlanta, Georgia, should be coordinated through the Southern Region Coordination Office

TABLE B-1. SCOPE OF MATERIAL SAMPLING AND FIELD TESTING

Material and Sample Description	Nº. of Samples	Sample Type Designation
PRE-CONSTRUCTION SAMPLING		
1 PCC (Original Layer)		
Coring - 102 mm (4 in) diameter cores	20	C1-C20
Coring - 152 mm (6 in) diameter cores	3	A1-A3
2 Bound Base (Soil Cement)		
Coring - 102 mm (4 in) diameter cores	3	C5, C11, C19
Coring - 152 mm (6 in) diameter cores	3	A1-A3
3 Subgrade		
Splitspoon Sampling	6*	A1-A3
Thin-walled Tube Sampling (* 2 tubes or 2 spoons or combination per hole)	6*	A1-A3
Bulk Sampling in 152 mm (6 in) diameter	3	A1-A3
holes	2	TP1-TP2
Bulk Sampling in Test Pits (91 kg/sample)	2	TP1-TP2
In Situ Density & Moisture Content (Nuclear Gauge)	7	TP1-TP2, A1-A3
Moisture Content Samples		
4 Shoulder Auger Probes	3	S1-S3
POST-CONSTRUCTION SAMPLING		
1 Asphaltic Concrete (Overlay)		
Coring - 102 mm (4 in) diameter cores	20	C21-C40
Bulk Samples from Plant (100 lb ea)	~~3~~ 6	B1-B~~3~~ 6

TABLE B-2. MATERIAL SAMPLING FOR THE MATERIALS REFERENCE LIBRARY (MRL)

Material and Sample Description[2]	Nº. of Samples	Vol. of Each Sample	Sample Location
Asphalt Cement[1]			
Surface Mix	3	20 l (5 gal)	Plant
Binder Mix	3	20 l (5 gal)	Plant
Combined Graded Coarse & Fine Aggregate[1]			
Surface Mix	1	210 l (55 gal)	Plant
Binder Mix	1	210 l (55 gal)	Plant
Finished HMAC Mix (Uncompacted)			
Surface Mix	3	20 l (5 gal)	Paver
Binder Mix	3	20 l (5 gal)	Paver

Notes:

1 Where identical material types are used for different layers, it is not necessary to duplicate sampling For example, if only one grade of asphalt cement is used for all three layers, then only three 20 l (5 gal) samples are needed

2 Only those materials for the standard SPS-6 experiment sections will be sampled and stored at the MRL

3 Containers for this sampling will be provided by the LTPP **Materials Reference Library (MRL). Shipping of the sample containers and samples to the MRL will be paid for by the MRL.** Scheduling information including (1) date containers needed, (2) state agency contact name, and (3) shipping address and telephone number should be provided to the MRL Contractor as soon as it is feasible to do so The contact name, address and telephone number for the MRL Contractor are as follows

Mr Rod Soule
Materials Reference Library
Nichols Consulting Engineers, Chtd
1885 So Arlington, Suite 111
Reno, Nevada 89509
(702) 329-4955, FAX (702) 329-5098

These samples should be labeled according to applicable guidelines provided elsewhere and shipped to the MRL Contractor upon completion of sampling activities

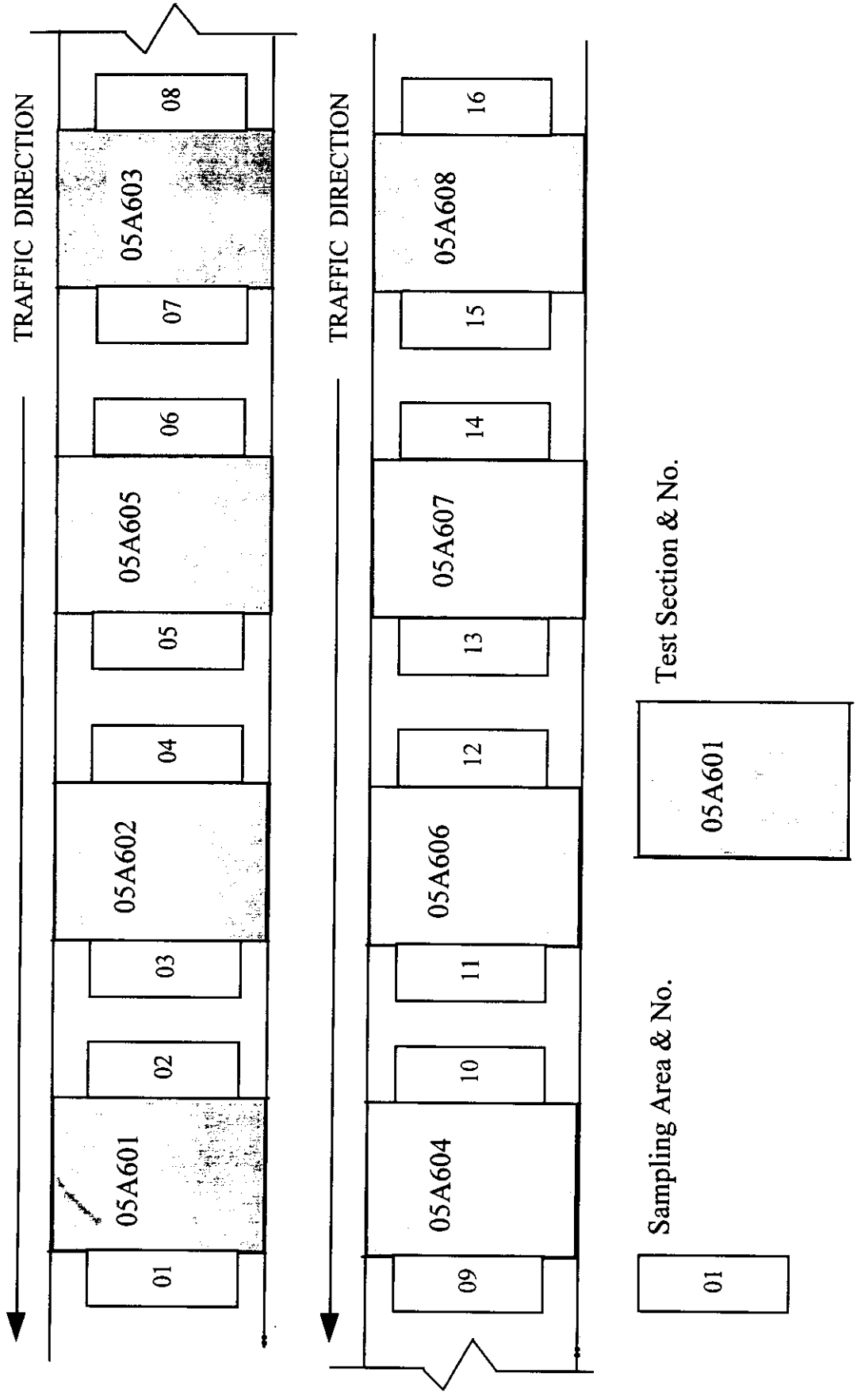


FIGURE B-1. SITE LAYOUT WITH SAMPLING AREA LOCATIONS

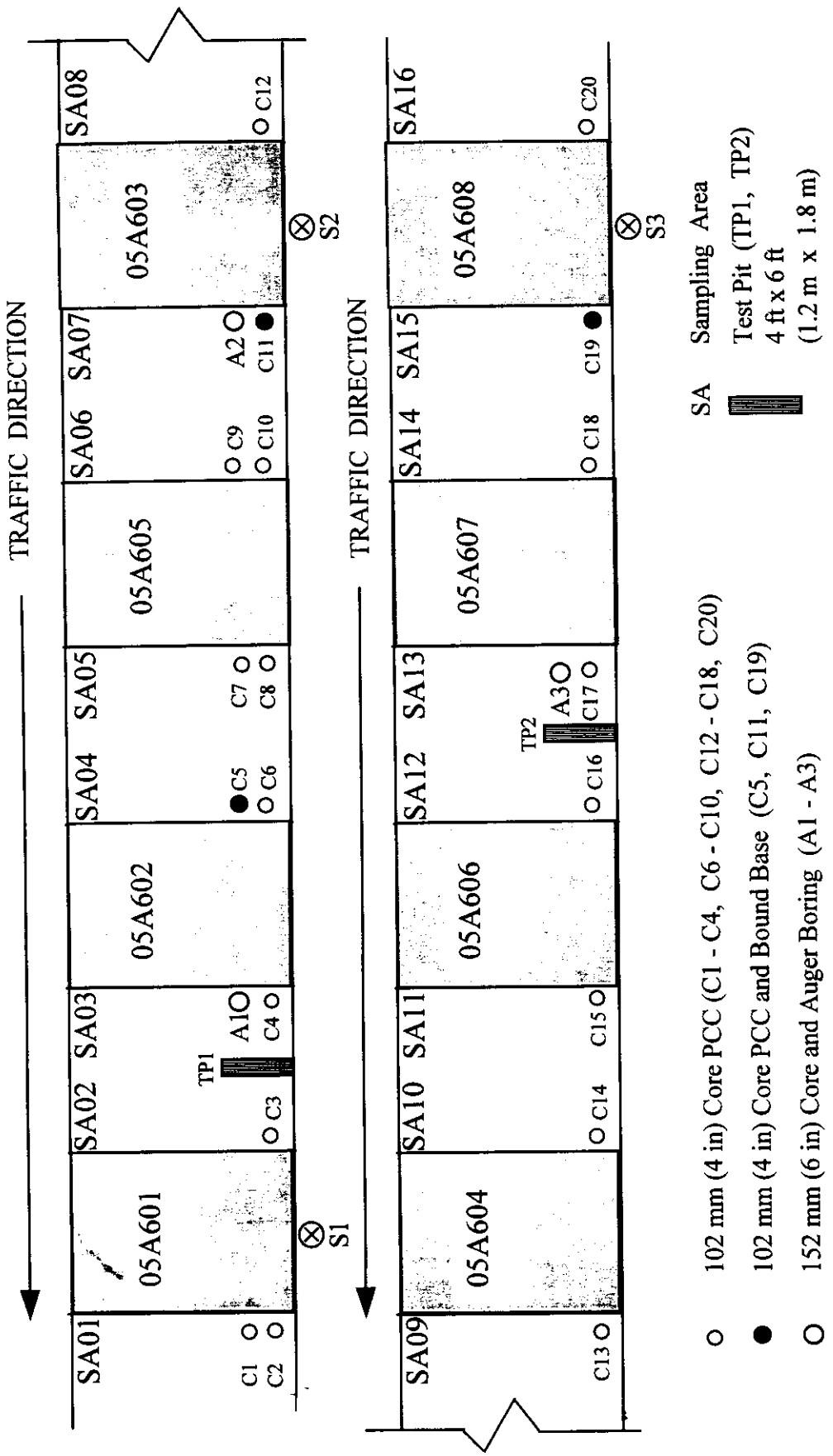
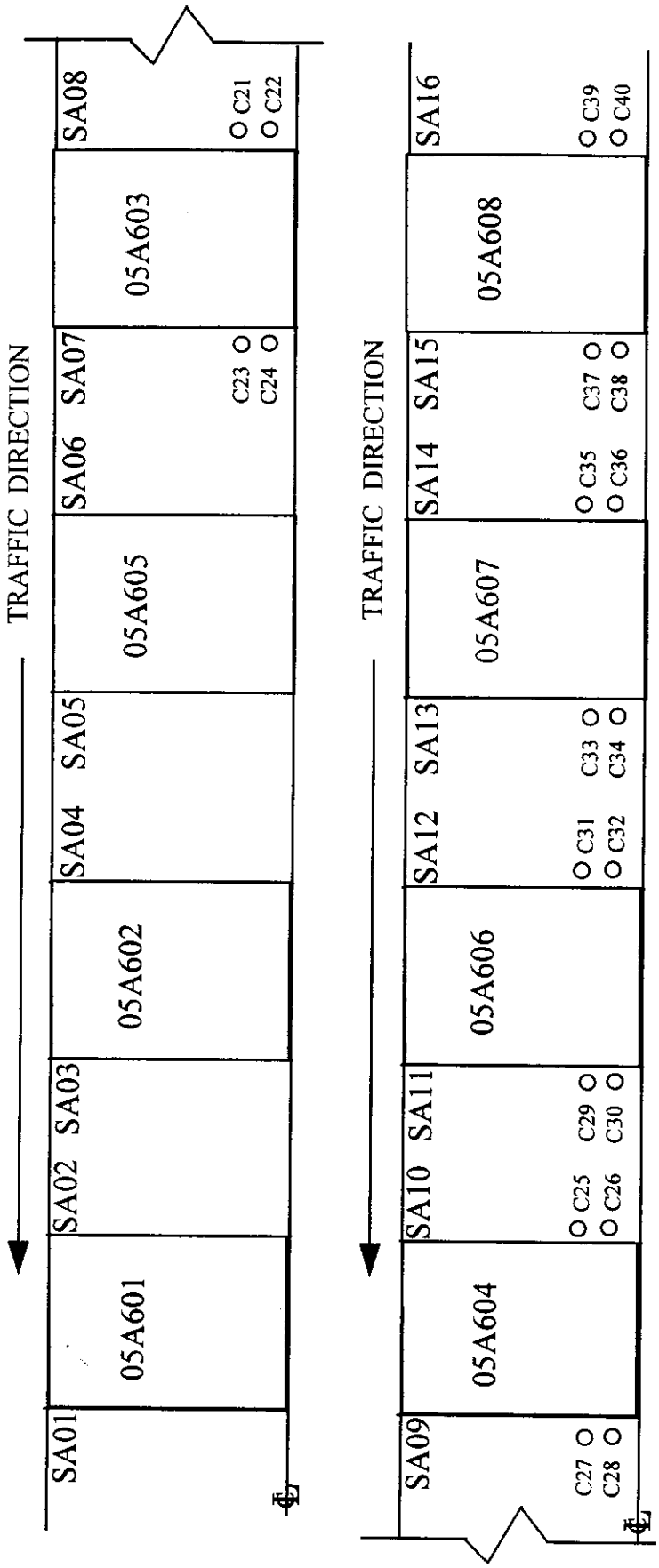


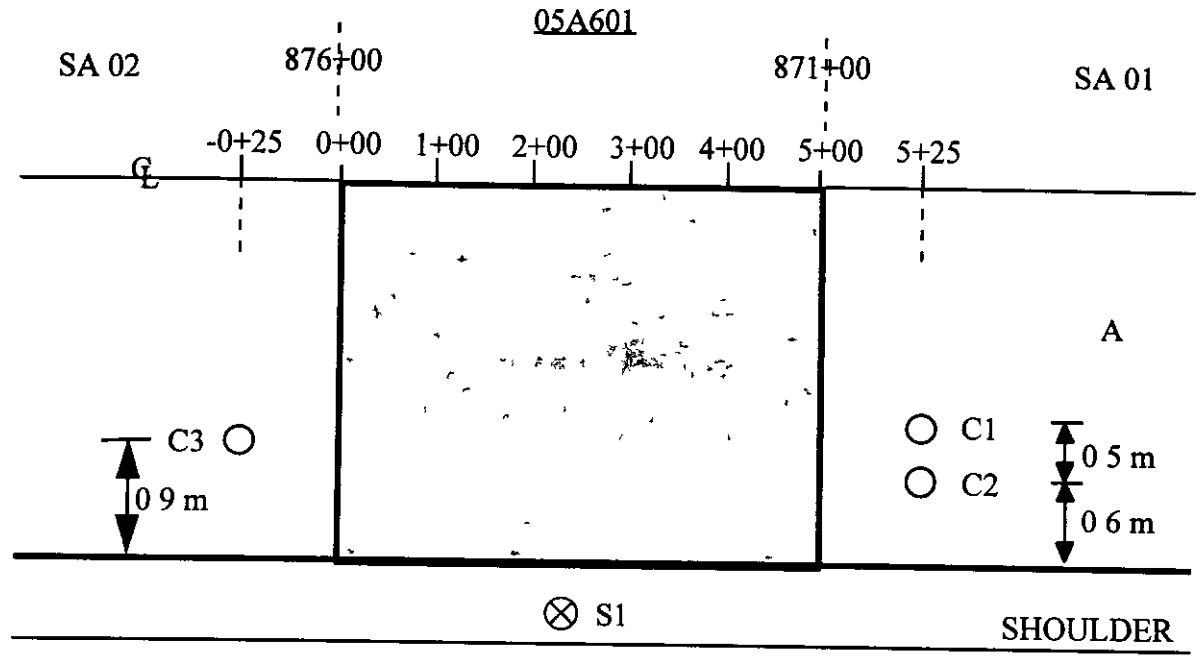
FIGURE B-2. PRECONSTRUCTION SAMPLING

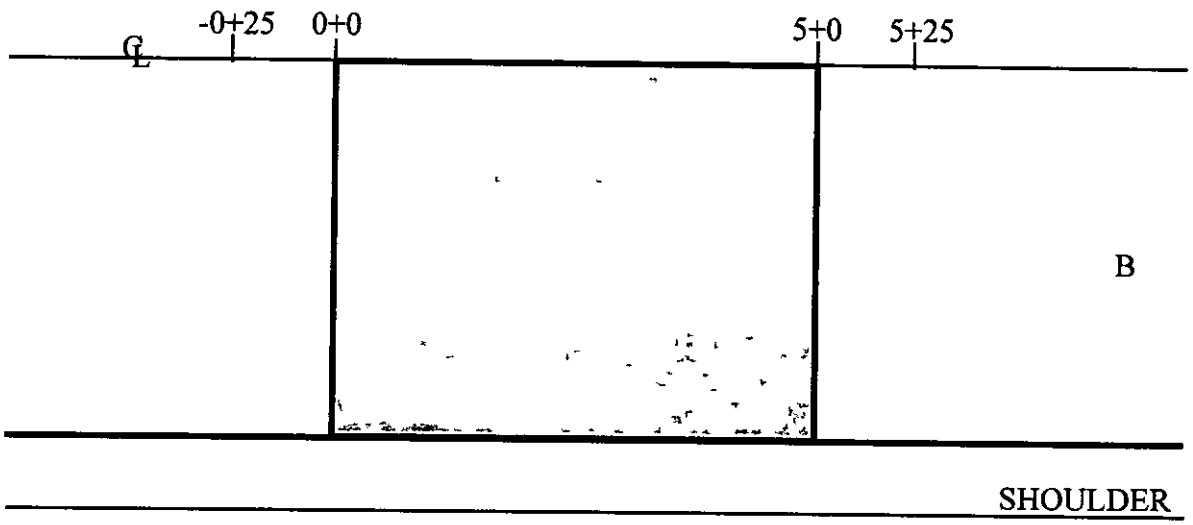


O 102 mm (4 in) Core - Overlay (C21 - C40)

SA Sampling Area

FIGURE B-3. POSTCONSTRUCTION SAMPLING





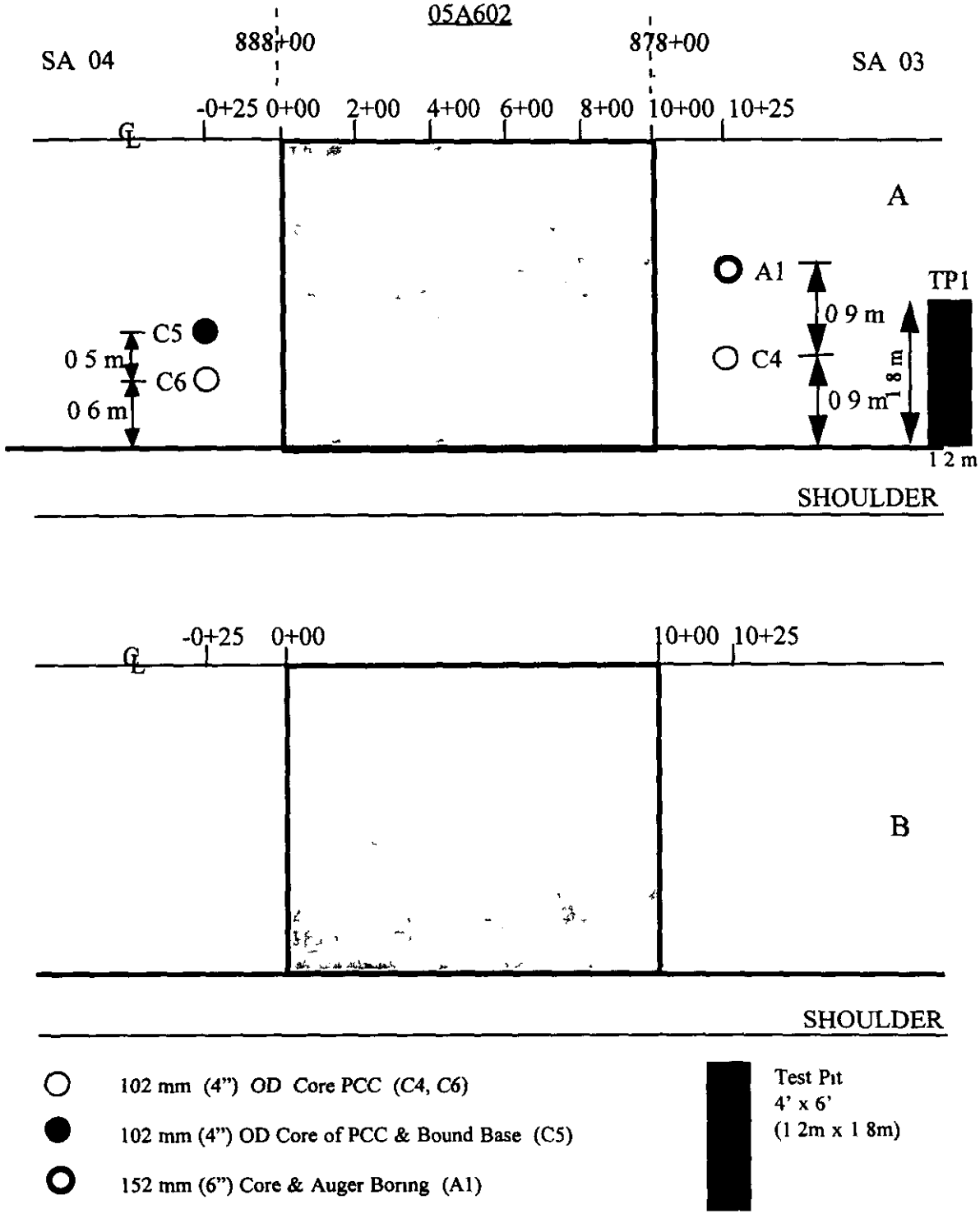
○ 102 mm (4") OD Core PCC (C1 - C3)

⊗ Auger Probe in Shoulder (S1)

A Preconstruction Sampling (C1 - C3, S1)

B Postconstruction Sampling (None)

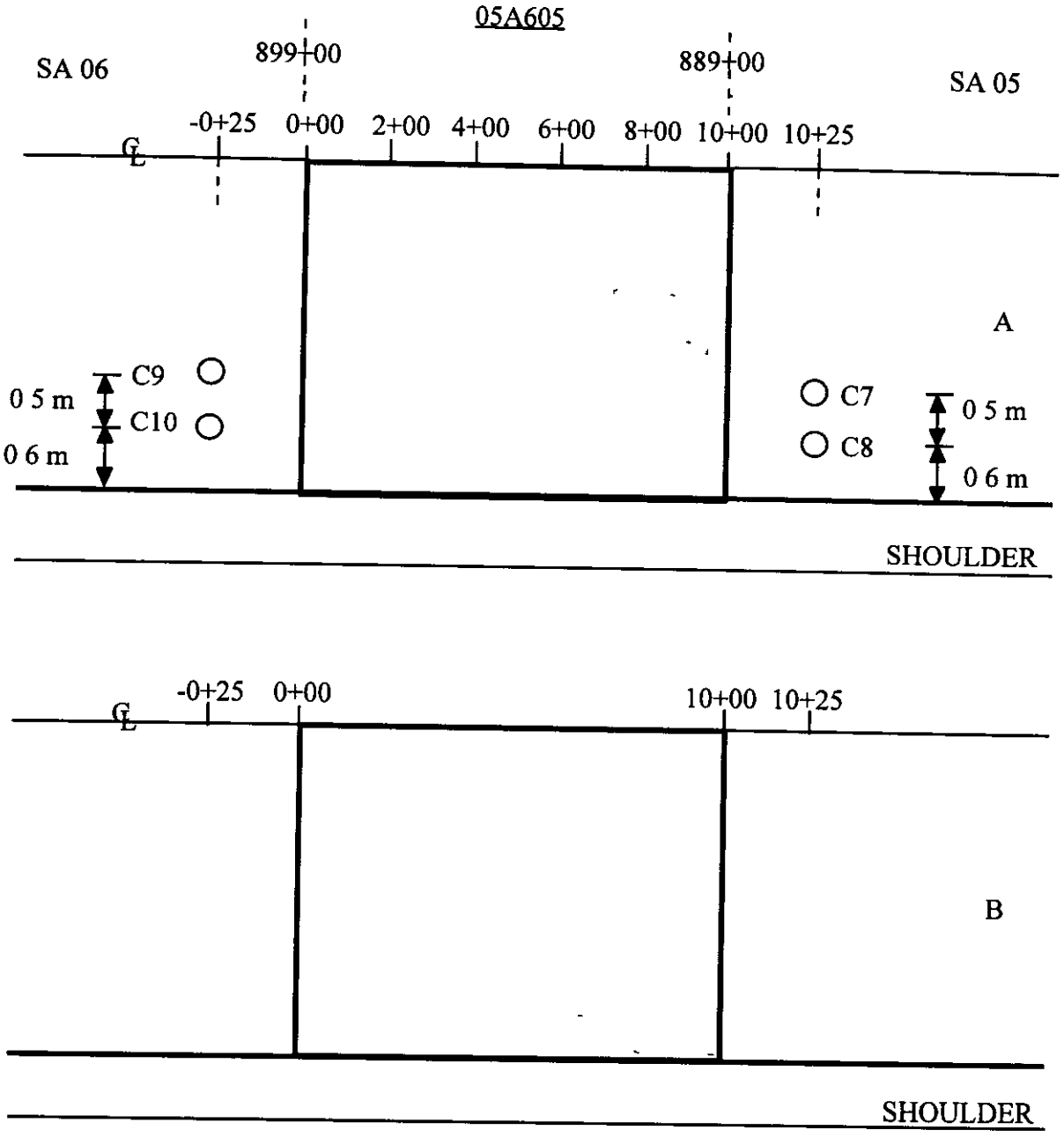
FIGURE B-4. SAMPLING PLAN FOR TEST SECTION 05A601



A Preconstruction Sampling (C4 - C6, A1, TP1)

B Postconstruction Sampling (None)

FIGURE B-5. SAMPLING PLAN FOR TEST SECTION 05A602

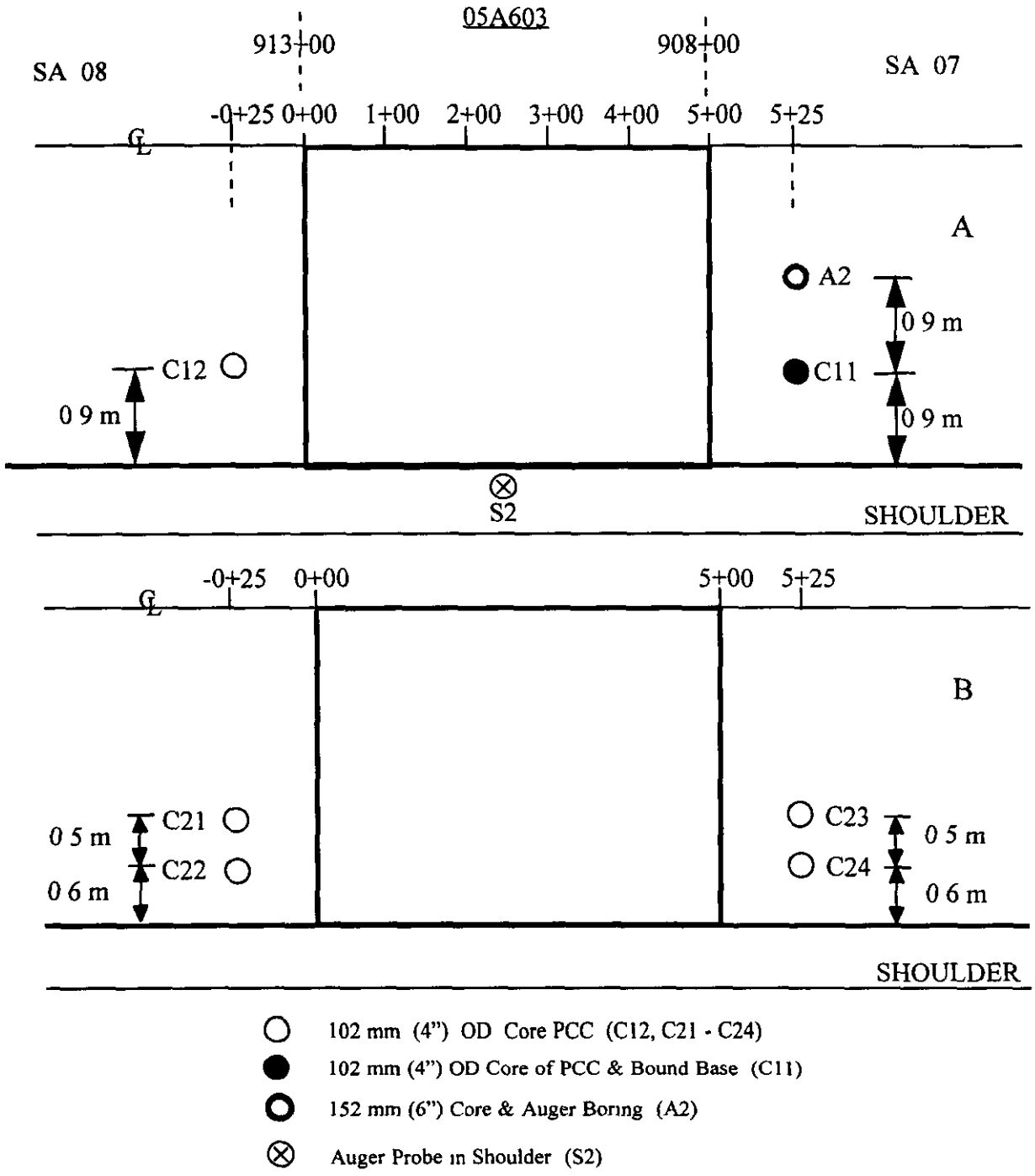


○ 102 mm (4") OD Core PCC (C7 - C10)

A Preconstruction Sampling (C7 - C10)

B Postconstruction Sampling (None)

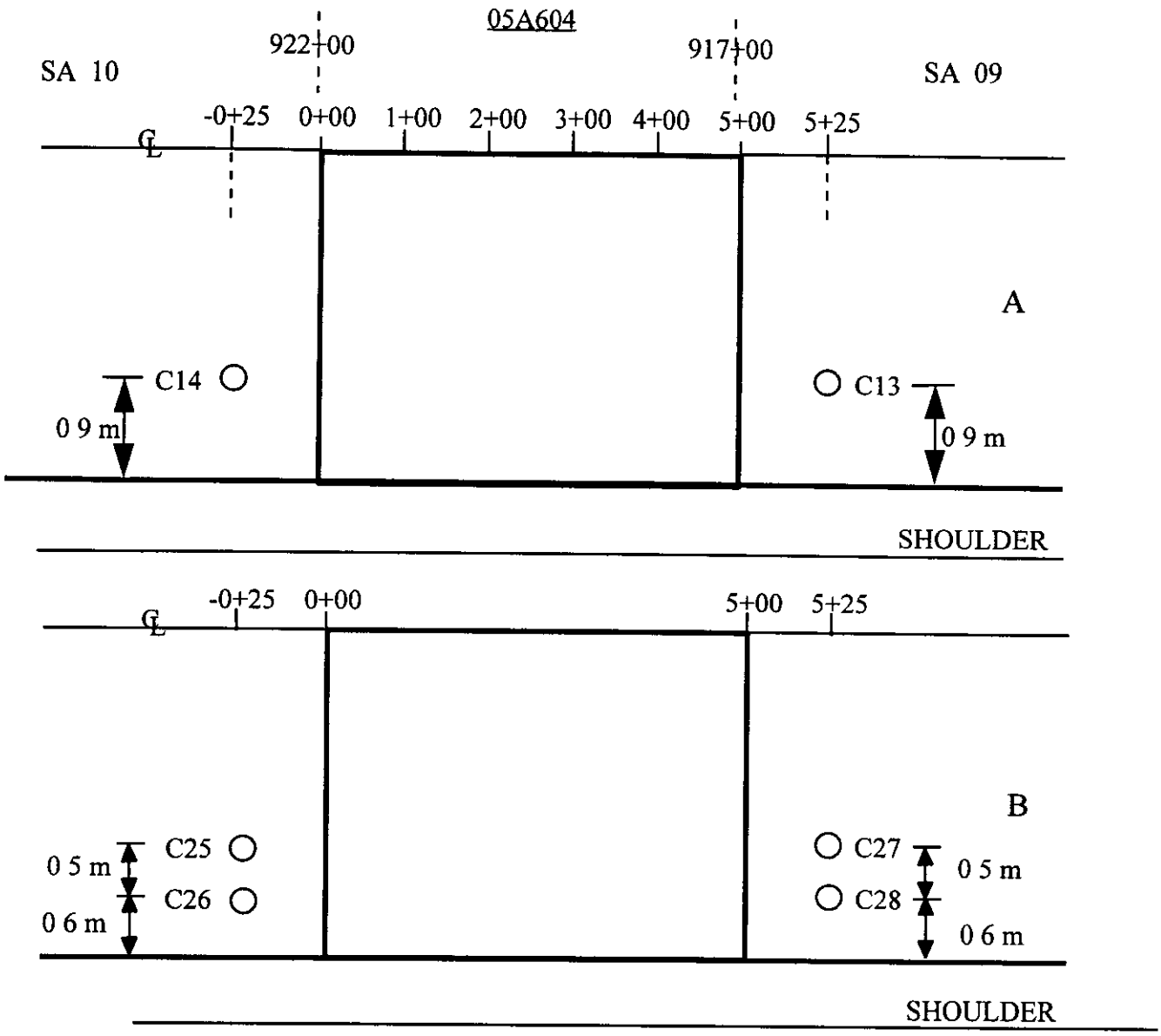
FIGURE B-6. SAMPLING PLAN FOR TEST SECTION 05A605



A Preconstruction Sampling (C11-C12, A2, S2)

B Postconstruction Sampling (C21 - C24)

FIGURE B-7. SAMPLING PLAN FOR TEST SECTION 05A603

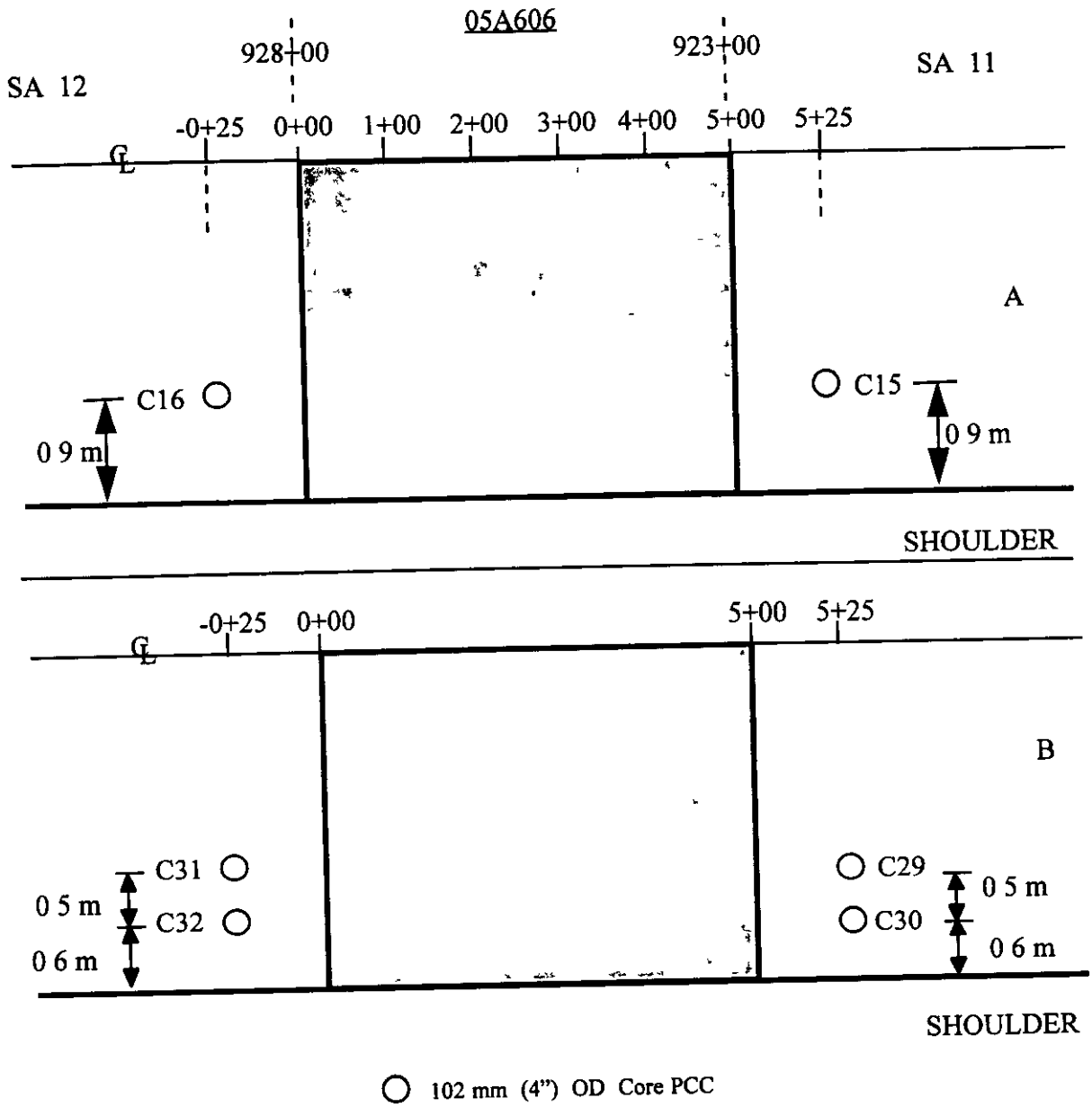


○ 102 mm (4") OD Core PCC (C13-C14, C25 - C28)

A Preconstruction Sampling (C13 - C14)

B Postconstruction Sampling (C25 - C28)

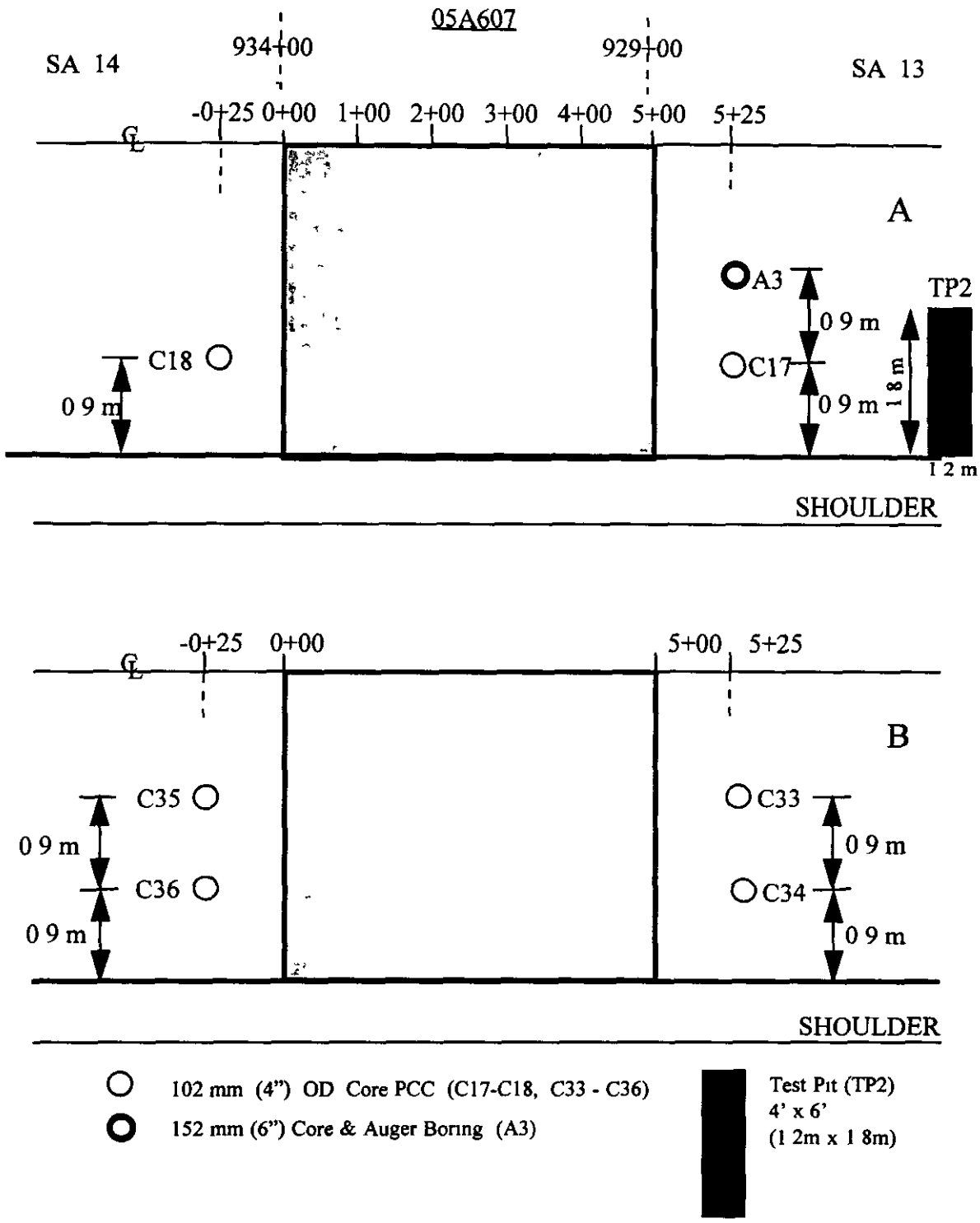
FIGURE B-8. SAMPLING PLAN FOR TEST SECTION 05A604



A Preconstruction Sampling (C11-C12)

B Postconstruction Sampling (C29 - C32)

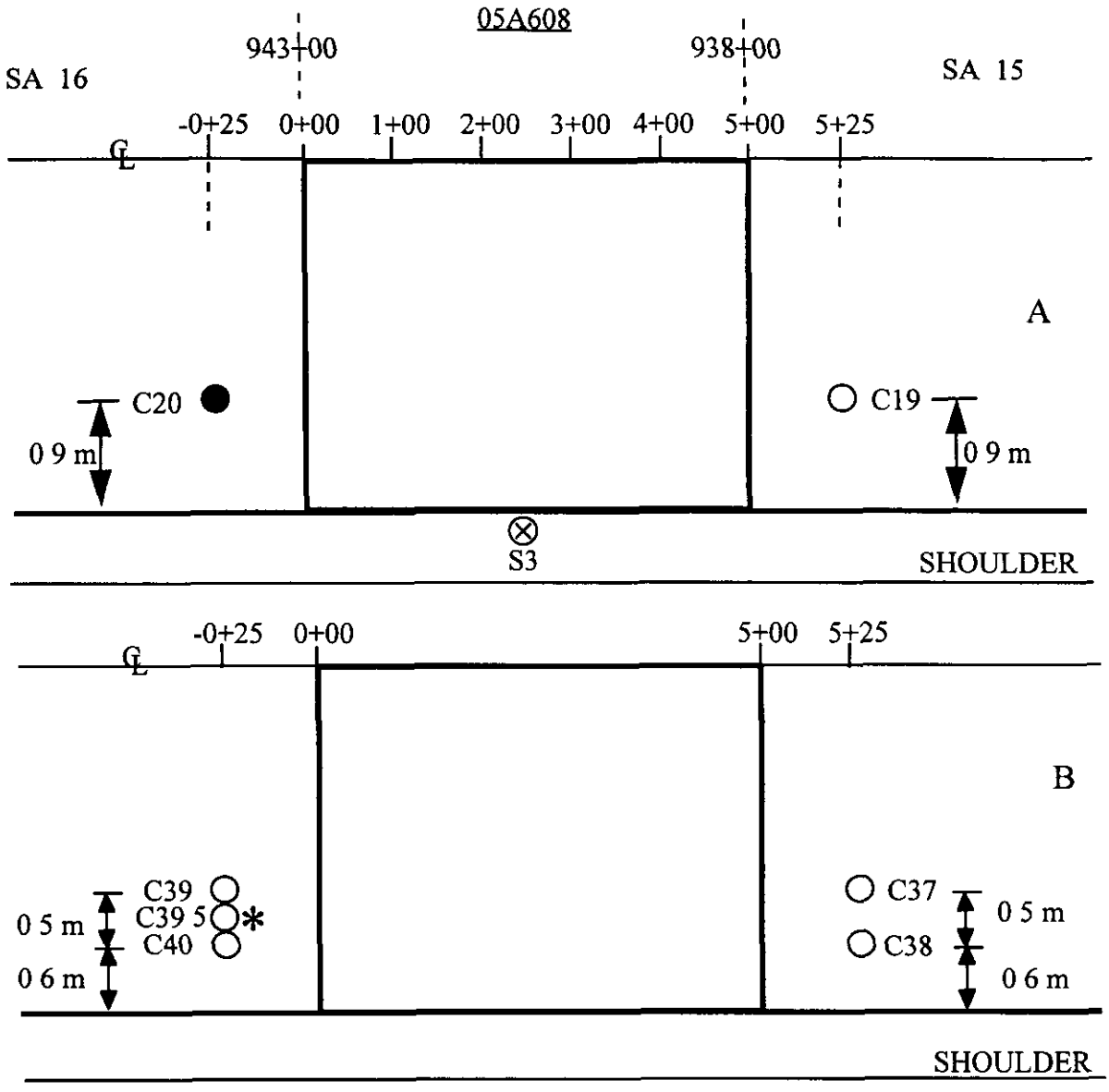
FIGURE B-9. SAMPLING PLAN FOR TEST SECTION 05A606



A Preconstruction Sampling (C17 - C18, A3, TP2)

B Postconstruction Sampling (C33 - C36)

FIGURE B-10. SAMPLING PLAN FOR TEST SECTION 05A607



○ 102 mm (4") OD Core PCC (C20, C37 - C40)

● 102 mm (4") OD Core of PCC & Bound Base (C19)

⊗ Auger Probe in Shoulder (S3)

* Extra core hole due to one bad core sample

A Preconstruction Sampling (C19 - C20)

B Postconstruction Sampling (C37 - C40)

FIGURE B-11. SAMPLING PLAN FOR TEST SECTION 05A608

TABLE B-3. SAMPLES TO BE SHIPPED TO THE STATE LABORATORY (OR THEIR DESIGNEE)

Sample Location	Sample №.	Lab Test № (1)	Type of Sample
Portland Cement Concrete			
C1	CP01	1	102 mm (4 in) Core
C2	CP02	1	102 mm (4 in) Core
C3	CP03	2	102 mm (4 in) Core
C4	CP04	1	102 mm (4 in) Core
C5	CP05	2	102 mm (4 in) Core
C6	CP06	2	102 mm (4 in) Core
C7	CP07	1	102 mm (4 in) Core
C8	CP08	1	102 mm (4 in) Core
C9	CP09	2	102 mm (4 in) Core
C10	CP10	2	102 mm (4 in) Core
C11	CP11	1	102 mm (4 in) Core
C12	CP12	2	102 mm (4 in) Core
C13	CP13	1	102 mm (4 in) Core
C14	CP14	2	102 mm (4 in) Core
C15	CP15	1	102 mm (4 in) Core
C16	CP16	2	102 mm (4 in) Core
C17	CP17	1	102 mm (4 in) Core
C18	CP18	2	102 mm (4 in) Core
C19	CP19	1	102 mm (4 in) Core
C20	CP20	2	102 mm (4 in) Core
Bound Base (Soil Cement)			
C5	CT01	2	102 mm (4 in) Core
C11	CT02	1	102 mm (4 in) Core
C19	CT03	1	102 mm (4 in) Core

TABLE B-3. SAMPLES TO BE SHIPPED TO THE STATE LABORATORY (OR THEIR DESIGNEE) (Continued)

Sample Location	Sample Nº.	Lab Test Nº (1)	Type of Sample
Asphalt Concrete Overlay			
C25	CA25	1	102 mm (4 in) Core
C26	CA26	1	102 mm (4 in) Core
C27	CA27	2	102 mm (4 in) Core
C28	CA28	2	102 mm (4 in) Core
C33	CA33	1	102 mm (4 in) Core
C34	CA34	1	102 mm (4 in) Core
C35	CA35	2	102 mm (4 in) Core
C36	CA36	2	102 mm (4 in) Core
B1	BA01	4	~~45~~ 23 kg (~~100~~ 50 lb) Bulk Sample (BINDER)
B2	BA02	4	~~45~~ 23 kg (~~100~~ 50 lb) Bulk Sample (BINDER)
B3	BA03	4	~~45~~ 23 kg (~~100~~ 50 lb) Bulk Sample (BINDER)
* **Subgrade**			
A1	BS01	1	23 kg (50 lb) Bulk Sample
A2	BS02	1	23 kg (50 lb) Bulk Sample
A3	BS03	1	23 kg (50 lb) Bulk Sample
TP1	BS55	1	23 kg (50 lb) Bulk Sample
TP2	BS56	1	23 kg (50 lb) Bulk Sample
A1	TS02	1	Thin-Wall Tube
A2	TS04	1	Thin-Wall Tube
A3	TS06	2	Thin-Wall Tube

* B4, BA04, 4, 23 kg (50 lb) BULK SAMPLE (SURFACE)

B5, BA05, 5, 23 kg (50 lb.) BULK SAMPLE (SURFACE)

B6, BA06, 6, 23 kg (50 lb.) BULK SAMPLE (SURFACE)

(1) Lab Test Number

1 Sample from Approach End of Section
2 Sample from Leave End of Section
3 Sample from Within Section
4 From Plant

TABLE B-4. SAMPLES TO BE SHIPPED TO THE FHWA-LTPP TESTING CONTRACTOR LABORATORY

Sample Location	Sample №.	Lab Test №.	Type of Sample
Portland Cement Concrete			
A1	CP51	1	152 mm (12 in) Core
A2	CP52	1	152 mm (12 in) Core
A3	CP53	1	152 mm (12 in) Core
Asphalt Concrete			
C21	CA21	1	102 mm (4 in) Core
C22	CA22	1	102 mm (4 in) Core
C23	CA23	2	102 mm (4 in) Core
C24	CA24	2	102 mm (4 in) Core
C29	CA29	1	102 mm (4 in) Core
C30	CA30	1	102 mm (4 in) Core
C31	CA31	2	102 mm (4 in) Core
C32	CA32	2	102 mm (4 in) Core
C37	CA37	1	102 mm (4 in) Core
C38	CA38	1	102 mm (4 in) Core
C39	CA39	2	102 mm (4 in) Core
C40	CA40	2	102 mm (4 in) Core
Subgrade			
A1	BS01	1	68 kg (150 lb) Bulk Sample
A2	BS02	1	68 kg (150 lb) Bulk Sample
A3	BS03	1	68 kg (150 lb) Bulk Sample
TP1	BS55	1	68 kg (150 lb) Bulk Sample
TP2	BS56	1	68 kg (150 lb) Bulk Sample
A1	TS01	1	Thin wall Tube Sample
A2	TS03	1	Thin wall Tube Sample

TABLE B-4. SAMPLES TO BE SHIPPED TO THE FHWA-LTPP TESTING CONTRACTOR LABORATORY (Continued)

Sample Location	Sample Nº.	Lab Test Nº.	Type of Sample
A3	TS05	1	Thin wall Tube Sample
A1	MS01	1	Moisture Content Jar Sample
A2	MS02	1	Moisture Content Jar Sample
A3	MS03	1	Moisture Content Jar Sample
TP1	MS55	1	Moisture Content Jar Sample
TP2	MS56	1	Moisture Content Jar Sample

SECTION C

LABORATORY MATERIAL TESTING

SECTION C

LABORATORY MATERIAL TESTING

It is the intent of this section of the sampling and testing plan to provide an outline for the laboratory testing that is planned for the Arkansas SPS-6 project The previous section ended with lists of samples to be shipped to each of two laboratories, the state designated laboratory and the FHWA/LTPP contracted laboratory In this section, the tests to be performed on each sample are listed

Table C-1 provides a reference project layer numbering scheme It is important that the two laboratories reference the same layer by number to ensure meaningful results

Table C-2 provides a listing of the tests to be performed for each material type and pavement layer, and the associated laboratory testing protocol It is imperative that the protocols listed be strictly followed during testing

Tables C-3 through C-6 provide tracking tables for the state designated laboratory for each material type These tables itemize the testing to occur on each sample and provide an indication of whether the sample is to be disposed of Tables C-7 through C-10 provide similar information for the FHWA/LTPP contracted laboratory

TABLE C-1. PROJECT LAYER NUMBERING

Layer Nº.	LTPP Description	Arkansas Description
1	Subgrade	Subgrade
2	Bound Base (Soil Cement)	Soil Cement
3	Jointed Plain Concrete Pavement (JPCP)	Jointed Plain Concrete Pavement (JPCP)
4	HMAC Binder Course (SUPERPAVE™)	Bituminous Plant Mix Binder Course (ACHM-Binder Course, Type II)
5	HMAC Surfacing (SUPERPAVE™)	Asphalt Concrete Surfacing (ACHM - Surface Course, Type II)

TABLE C-2. ARKANSAS SPS-6 LABORATORY TESTING PLANS - PRECONSTRUCTION

Material Type and Properties	SHRP Test Designation	SHRP Protocol	Nº. of Tests Per Layer	Material Source/ [1] Test Locations	Test Conducted By: State	FHWA
PORTLAND CEMENT CONCRETE						
Compressive Strength	PC01	P61	12	C1,C3,C5,C7,C9,C11,C13, C15,C17,C19	X	
Splitting Tensile Strength	PC02	P62	12	C2,C4,C6,C8,C10,C12,C14, C16,C18,C20	X	
PCC Coefficient of Thermal Expansion	PC03	P63	3	A1,A2,A3		X
Static Modulus of Elasticity	PC04	P64	6	C3,C5,C7,C11,C15,C17	X	
PCC Unit Weight	PC05	P65	12	C1,C3,C5,C7,C9,C11,C13, C15,C17,C19	X	
Core Examination/Thickness	PC06	P66	23	C1-C20, A1,A2,A3	X	X
BOUND BASE (SOIL CEMENT)						
Type and Classification of Material and Treatment	TB01	P31	3	C5,C11,C19 (Note 2)	X	
Compressive Strength	TB02	P32	3	C5,C11,C19 (Note 2)	X	
SUBGRADE						
Sieve Analysis	SS01	P51	3	TP1,A1-A3,TP2		X
Hydrometer to 0 001mm	SS02	P42	3	TP1,A1-A3,TP2		X
Atterberg Limits	SS03	P43	3	TP1,A1-A3,TP2		X
Classification	SS04	P52	3	TP1,A1-A3,TP2,	X	X
Moisture-Density Relations	SS05	P55	3	TP1,A1-A3,TP2		
Resilient Modulus	SS07	P46	3	A1,A2,A3		X
Unit Weight	SS08	P56	6	TP1,A1-A3,TP2,		X
Natural Moisture Content	SS09	P49	3	TP1,A1-A3,TP2	X	X

NOTE 1 Samples within brackets are combined from multiple sampling locations to make one sample

NOTE 2 Soil Cement samples from cores should be separated from PCC surface prior to shipment to FHWA/LTPP lab

TABLE C-2. ARKANSAS SPS-6 LABORATORY TESTING PLANS - POSTCONSTRUCTION

Material Type and Properties	SHRP Test Designation	SHRP Protocol	Nº of Tests Per Layer	Material Source/ [1] Test Locations	Test Conducted By: State	FHWA
ASPHALTIC CONCRETE						
Core Examination/Thickness	AC01	P01	20	All Cores	X	X
Bulk Specific Gravity	AC02	P02	20	All Cores	X	X
Maximum Specific Gravity	AC03	P03	3	B1,B2,B3	X	
Asphalt Content (Extraction)	AC04	P04	3	B1,B2,B3	X	
Moisture Susceptibility	AC05	P05	3	B1,B2,B3	X	
Resilient Modulus	AC07	P07	3	[C21,C22,C23], [C29,C30,C31], [C37,C38,C39]		X
Tensile Strength	AC07	P07	3	C24,C32,C40		X
EXTRACTED AGGREGATE						
Bulk Specific Gravity						
Coarse Aggregate	AG01	P11	3	From Uncompacted Mix	X	
Fine Aggregate	AG02	P12	3	From Uncompacted Mix	X	
Type and Classification						
Coarse Aggregate	AG03	P13	3	From Uncompacted Mix	X	
Fine Aggregate	AG03		3	From Uncompacted Mix	X	
Gradation of Aggregate	AG04	P14	3	From Uncompacted Mix	X	
NAA Test for Fine Aggregate Particle Shape	AG05	P14A	3	From Uncompacted Mix	X	
ASPHALT CEMENT (FROM MIX)						
Abson Recovery	AE01	P21	3	From Uncompacted Mix	X	
Penetration at 10°C, 25°C, 32°C (50°F, 77°F, 90°F)	AE02	P22	3	From Uncompacted Mix	X	
Specific Gravity at 16°C (60°F)	AE03	P23	3	From Uncompacted Mix	X	
Viscosity at 25°C (77°F)	AE04	P24	3	From Uncompacted Mix	X	
Viscosity at 60°C & 135°C (140°F & 275°F)	AE05	P25	3	From Uncompacted Mix	X	

FOOTNOTE (1) REFERENCE SHEET FOR TABLES C-3 THROUGH C-8

Note: All of the core specimens noted herein shall be stored for possible future use In the future, these specimens may be used to evaluate test procedures for the SUPERPAVE program

(1) Sample Storage

a Environmentally protected and controlled storeroom at 5-21°C (40-70°F)

b Environmentally protected and controlled storeroom at 5-38°C (40-100°F)

c Thin-walled tube samples of the subgrade that should be stored in a fully supported condition and at temperatures between 5°C (40°F) and 21°C (70°F) in an environmentally protected storeroom They shall be stored on their ends and shall always be stored in a vertical position with respect to the longitudinal axis of the tube in the same orientation as that retrieved from the field

TABLE C-3. TRACKING TABLE OF PORTLAND CEMENT CONCRETE TESTING IN THE STATE LABORATORY (OR THEIR DESIGNEE)

Sample Location	Sample Nº.	Lab Test Nº.	Steps Involved in Laboratory Handling and Testing Sequence						
			Required Laboratory Tests Per Layer				Extra Sample	Sample Storage (1)	Sample Disposed?
			First	Second	Third	Fourth			
C1	CP01	1	PC06/P66	PC05/P65	PC01/P61		No	(a)	Yes
C2	CP02	1	PC06/P66	PC02/P62			No	(a)	Yes
C3	CP03	2	PC06/P66	PC05/P65	PC04/P64	PC01/P61	No	(a)	Yes
C4	CP04	1	PC06/P66	PC02/P62			No	(a)	Yes
C5	CP05	2	PC06/P66	PC05/P65	PC04/P64	PC01/P61	No	(a)	Yes
C6	CP06	2	PC06/P66	PC02/P62			No	(a)	Yes
C7	CP07	1	PC06/P66	PC05/P65	PC04/P64	PC01/P61	No	(a)	Yes
C8	CP08	1	PC06/P66	PC02/P62			No	(a)	Yes
C9	CP09	2	PC06/P66	PC05/P65	PC01/P61		No	(a)	Yes
C10	CP10	2	PC06/P66	PC02/P62			No	(a)	Yes
C11	CP11	1	PC06/P66	PC05/P65	PC04/P64	PC01/P61	No	(a)	Yes
C12	CP12	2	PC06/P66	PC02/P62			No	(a)	Yes
C13	CP13	1	PC06/P66	PC05/P65	PC01/P61		No	(a)	Yes
C14	CP14	2	PC06/P66	PC02/P62			No	(a)	Yes
C15	CP15	1	PC06/P66	PC05/P65	PC04/P64	PC01/P61	No	(a)	Yes
C16	CP16	2	PC06/P66	PC02/P62			No	(a)	Yes
C17	CP17	1	PC06/P66	PC05/P65	PC04/P64	PC01/P61	No	(a)	Yes
C18	CP18	2	PC06/P66	PC02/P62			No	(a)	Yes
C19	CP19	1	PC06/P66	PC05/P65	PC01/P61		No	(a)	Yes
C20	CP20	2	PC06/P66	PC02/P62			No	(a)	Yes

TABLE C-4. TRACKING TABLE OF ASPHALT CONCRETE TESTING IN THE STATE LABORATORY (OR THEIR DESIGNEE)

Sample Location	Sample Nº.	Lab Test Nº.	Steps Involved in Laboratory Handling and Testing Sequence						
			Required Laboratory Tests Per Layer				Extra Sample	Sample Storage (1)	Sample Disposed?
			First	Second	Third	Fourth			
C25	CA25	1	AC01/P01	AC02/P02			Yes	(a)	No
C26	CA26	2	AC01/P01	AC02/P02			Yes	(a)	No
C27	CA27	2	AC01/P01	AC02/P02			Yes	(a)	No
C28	CA28	1	AC01/P01	AC02/P02			Yes	(a)	No
C33	CA33	1	AC01/P01	AC02/P02			Yes	(a)	No
C34	CA34	2	AC01/P01	AC02/P02			Yes	(a)	No
C35	CA35	2	AC01/P01	AC02/P02			Yes	(a)	No
C36	CA36	2	AC01/P01	AC02/P02			Yes	(a)	No
B1	BA01	~~3~~ 4	See Figure C-1				No	(a)	Yes
B2	BA02	~~3~~ 4	See Figure C-1				No	(a)	Yes
B3	BA03	~~3~~ 4	See Figure C-1				No	(a)	Yes
B4	BA04	4	SEE FIGURE C-1				NO	(a)	YES
B5	BA05	4	SEE FIGURE C-1				NO	(a)	YES
B6	BA06	4	SEE FIGURE C-1				NO	(a)	YES

TABLE C-5. TRACKING TABLE OF BOUND BASE TESTING IN THE STATE LABORATORY (OR THEIR DESIGNEE)

Sample Location	Sample №.	Lab Test №.	Steps Involved in Laboratory Handling and Testing Sequence								
			Required Laboratory Tests Per Layer						Extra Sample	Sample Storage (1)	Sample Disposed ?
			First	Second	Third	Fourth	Fifth	Sixth			
C5	CT01	2	TB01/P31	TB02/P32					No	(b)	Yes
C11	CT02	1	TB01/P31	TB02/P32					No	(b)	Yes
C19	CT03	1	TB01/P31	TB02/P32					No	(b)	Yes

TABLE C-6. TRACKING TABLE OF SUBGRADE TESTING IN THE STATE LABORATORY (OR THEIR DESIGNEE)

Sample Location	Sample №	Lab Test №.	Steps Involved in Laboratory Handling and Testing Sequence						
			Required Laboratory Tests Per Layer				Extra Sample	Sample Storage (1)	Sample Disposed?
			First	Second	Third	Fourth			
A1	BS01	1	No testing - samples stored				Yes	(b)	No
A2	BS02	1	No testing - samples stored				Yes	(b)	No
A3	BS03	1	No testing - samples stored				Yes	(b)	No
TP1	BS55	1	No testing - samples stored				Yes	(b)	No
TP2	BS56	1	No testing - samples stored				Yes	(b)	No
A1	TS02	1	SS04/P52	SS08/P56			No	(c)	Yes
A2	TS04	1	SS04/P52	SS08/P56			No	(c)	Yes
A3	TS06	1	SS04/P52	SS08/P56			No	(c)	Yes

TABLE C-7. TRACKING TABLE OF PORTLAND CEMENT CONCRETE TESTING IN THE FHWA-LTPP TESTING CONTRACTOR LABORATORY

Sample Location	Sample №.	Lab Test №.	Steps Involved in Laboratory Handling and Testing Sequence						
			Required Laboratory Tests Per Layer				Extra Sample	Sample Storage (1)	Sample Disposed?
			First	Second	Third	Fourth			
A1	CP51	1	PC06/P66	PC03/P63			No	(a)	Yes
A2	CP52	1	PC06/P66	PC03/P63			No	(a)	Yes
A3	CP53	1	PC06/P66	PC03/P63			No	(a)	Yes

TABLE C-8. TRACKING TABLE OF ASPHALT CONCRETE TESTING IN THE FHWA-LTPP TESTING CONTRACTOR LABORATORY

Sample Location	Sample №.	Lab Test №.	Steps Involved in Laboratory Handling and Testing Sequence						
			Required Laboratory Tests Per Layer				Extra Sample	Sample Storage (I)	Sample Disposed?
			First	Second	Third	Fourth			
C21	CA21	1	AC01/P01	AC02/P02	AC07/P07		No	(a)	Yes
C22	CA22	1	AC01/P01	AC02/P02	AC07/P07		No	(a)	Yes
C23	CA23	2	AC01/P01	AC02/P02	AC07/P07		No	(a)	Yes
C24	CA24	2	AC01/P01	AC02/P02		AC07/P07 (ITS)	No	(a)	Yes
C29	CA29	1	AC01/P01	AC02/P02	AC07/P07		No	(a)	Yes
C30	CA30	1	AC01/P01	AC02/P02	AC07/P07		No	(a)	Yes
C31	CA31	2	AC01/P01	AC02/P02	AC07/P07		No	(a)	Yes
C32	CA32	2	AC01/P01	AC02/P02		AC07/P07 (ITS)	No	(a)	Yes
C37	CA37	1	AC01/P01	AC02/P02	AC07/P07		No	(a)	Yes
C38	CA38	1	AC01/P01	AC02/P02	AC07/P07		No	(a)	Yes
C39	CA39	2	AC01/P01	AC02/P02	AC07/P07		No	(a)	Yes
C40	CA40	2	AC01/P01	AC02/P02		AC07/P07 (ITS)	No	(a)	Yes

TABLE C-9. TRACKING TABLE OF SUBGRADE TESTING IN THE FHWA-LTPP TESTING CONTRACTOR LABORATORY

Sample Location	Sample №.	Lab Test №.	Steps Involved in Laboratory Handling and Testing Sequence								
			Required Laboratory Tests Per Layer						Extra Sample	Sample Storage (1)	Sample Disposed ?
			First	Second	Third	Fourth	Fifth	Sixth			
A1	BS01	1	SS01/P51	SS02/P42	SS03/P43	SS04/P52	SS05/P55	SS07/P46	No	(b)	Yes
A2	BS02	1	SS01/P51	SS02/P42	SS03/P43	SS04/P52	SS05/P55	SS07/P46*	No	(b)	Yes
A3	BS03	1	SS01/P51	SS02/P42	SS03/P43	SS04/P52	SS05/P55	SS07/P46	No	(b)	Yes
TP1	BS55	1	SS01/P51	SS02/P42	SS03/P43	SS04/P52	SS05/P55	SS07/P46	No	(b)	Yes
TP2	BS56	1	SS01/P51	SS02/P42	SS03/P43	SS04/P52	SS05/P55	SS07/P46	No	(b)	Yes
A1	TS01	1	SS07/P46	SS04/P52					No	(C)	Yes
A2	TS03	1	SS07/P46	SS04/P52					No	(C)	Yes
A3	TS05	1	SS07/P46	SS04/P52					No	(C)	Yes
A1	MS01	1	SS09/P49						No	(b)	Yes
A2	MS02	1	SS09/P49						No	(b)	Yes
A3	MS03	1	SS09/P49						No	(b)	Yes
TP1	MS55	1	SS09/P49						No	(b)	Yes
TP2	MS56	1	SS09/P49						No	(b)	Yes

* Note *SS07/P46 testing for bulk subgrade samples only required when tube samples are not* available or suitable for testing

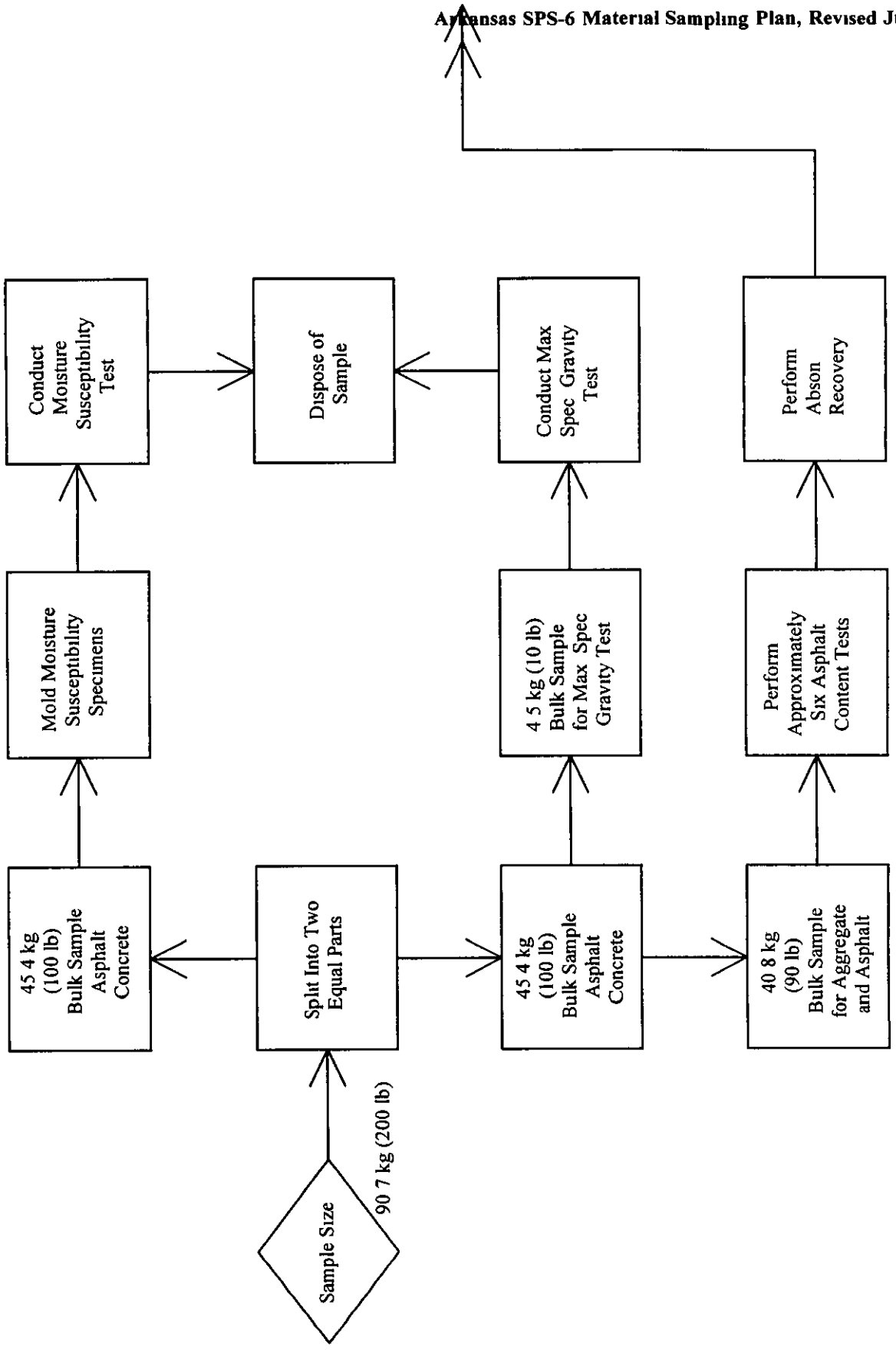


FIGURE C-1. FLOWCHART FOR ASPHALT CONCRETE BULK SAMPLES

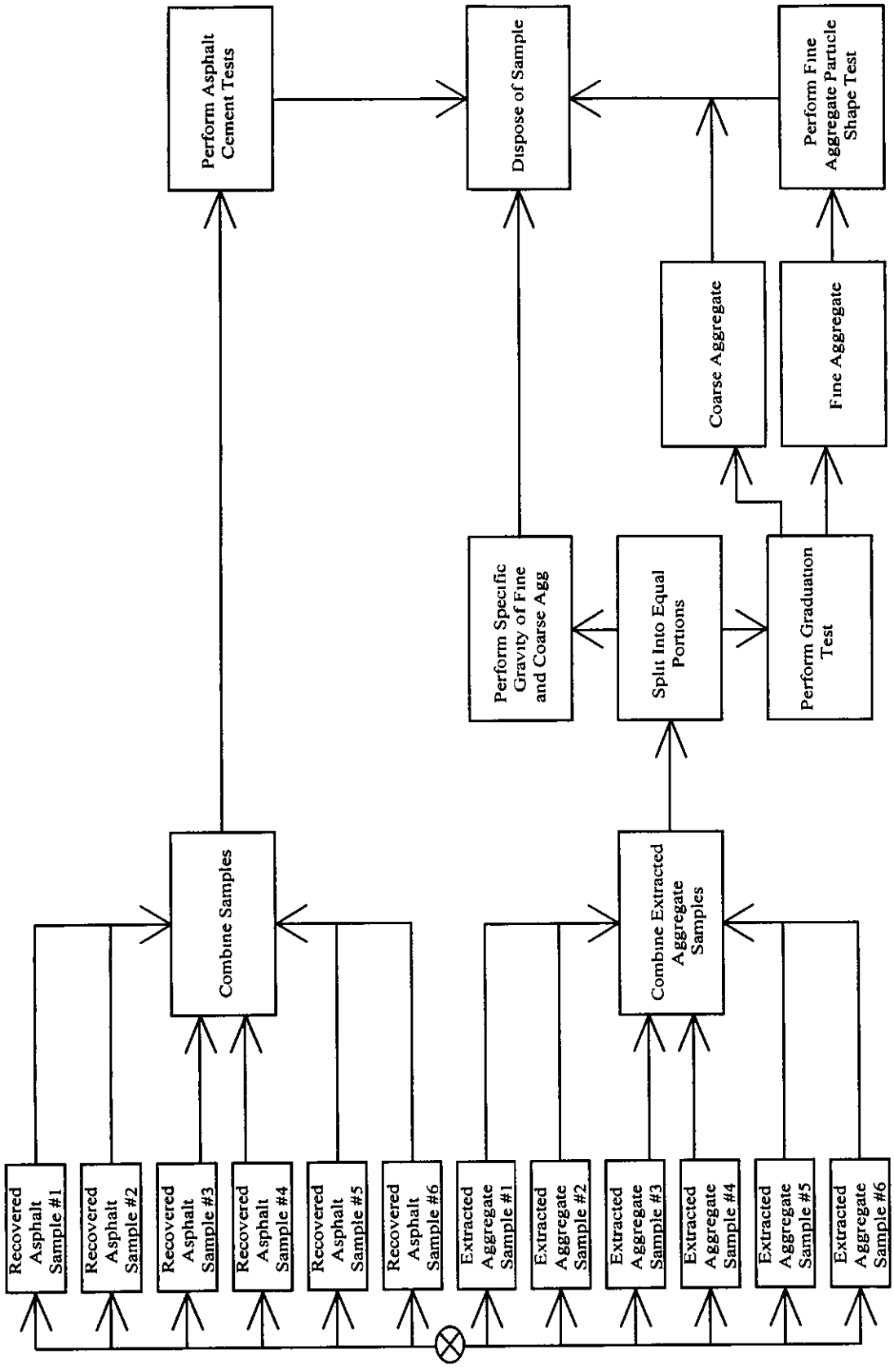


FIGURE C-1. FLOWCHART FOR ASPHALT CONCRETE BULK SAMPLES (Continued)

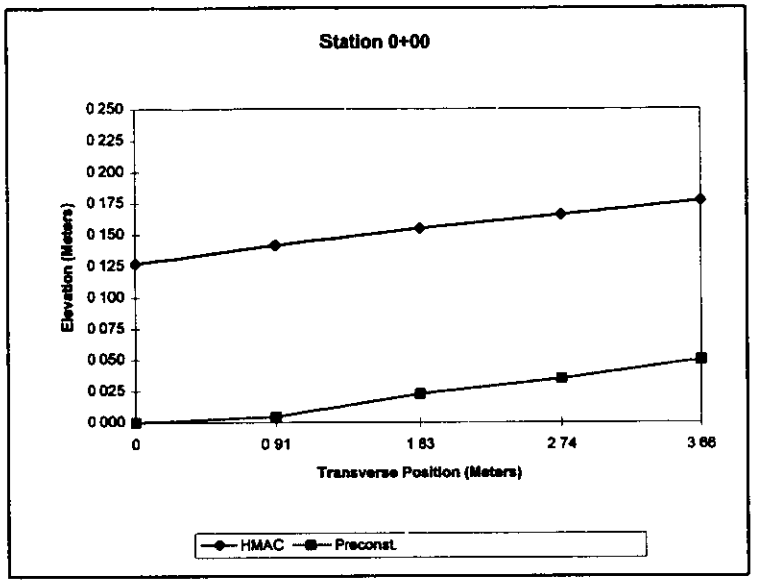
APPENDIX C

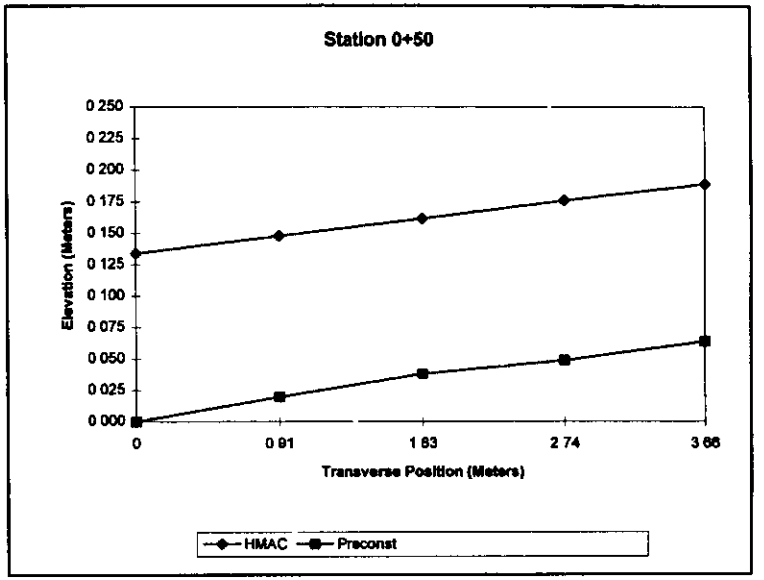
LAYER THICKNESSES

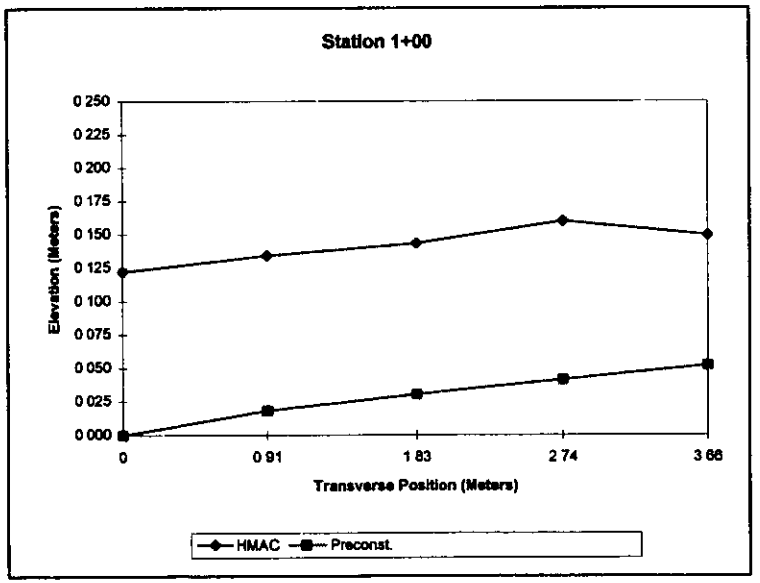
Arkansas SPS-A6 (05A603)

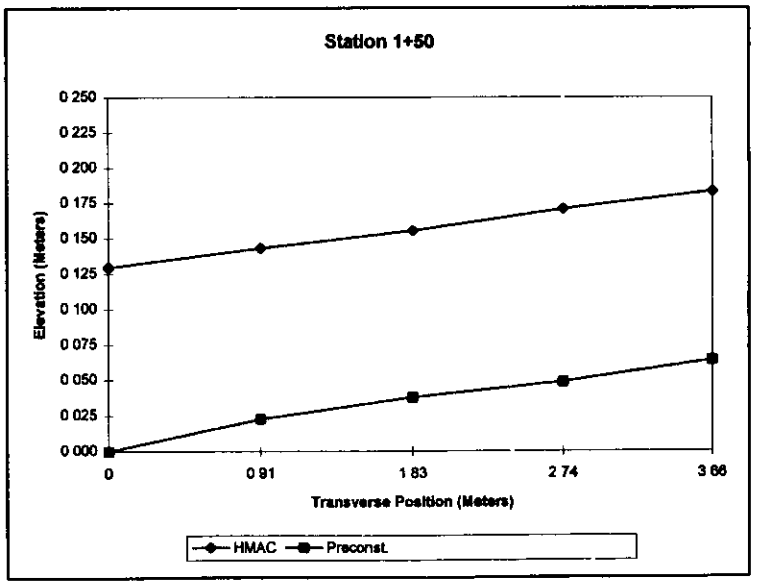
Transverse Offset	2 LAYERS	ELEVATION 0 Meters	HMAC THICKNESS Meters	ELEVATION 0.91 Meters	HMAC THICKNESS Meters	ELEVATION 1.83 Meters	HMAC THICKNESS Meters	ELEVATION 2.74 Meters	HMAC THICKNESS Meters	ELEVATION 3.66 Meters	HMAC THICKNESS Meters
0+00	HMAC	1.246	0.127	1.260	0.137	1.274	0.132	1.285	0.131	1.296	0.127
	Preconst.	1.119		1.123		1.141		1.154		1.169	
0+50	HMAC	1.340	0.134	1.353	0.128	1.367	0.123	1.381	0.127	1.394	0.125
	Preconst.	1.205		1.225		1.244		1.254		1.269	
1+00	HMAC	1.436	0.122	1.448	0.116	1.457	0.113	1.474	0.119	1.463	0.098
	Preconst.	1.314		1.332		1.344		1.355		1.366	
1+50	HMAC	1.516	0.130	1.530	0.120	1.542	0.117	1.558	0.122	1.570	0.119
	Preconst.	1.387		1.410		1.425		1.436		1.451	
2+00	HMAC	1.600	0.143	1.613	0.136	1.625	0.133	1.638	0.134	1.652	0.134
	Preconst.	1.457		1.477		1.492		1.504		1.518	
2+50	HMAC	1.689	0.155	1.698	0.143	1.711	0.139	1.725	0.140	1.737	0.136
	Preconst.	1.533		1.554		1.573		1.585		1.602	
3+00	HMAC	1.756	0.148	1.768	0.134	1.780	0.128	1.794	0.126	1.809	0.126
	Preconst.	1.608		1.634		1.652		1.667		1.682	
3+50	HMAC	1.833	0.139	1.846	0.126	1.858	0.121	1.875	0.122	1.890	0.122
	Preconst.	1.695		1.721		1.737		1.753		1.768	
4+00	HMAC	1.908	0.122	1.922	0.116	1.934	0.108	1.948	0.113	1.964	0.114
	Preconst.	1.786		1.806		1.826		1.835		1.850	
4+50	HMAC	1.971	0.119	1.983	0.108	1.998	0.104	2.012	0.102	2.028	0.102
	Preconst.	1.852		1.875		1.894		1.910		1.926	
5+00	HMAC	2.047	0.104	2.061	0.096	2.070	0.089	2.085	0.087	2.103	0.094
	Preconst.	1.943		1.964		1.981		1.998		2.009	
		AVG	**0.131**		**0.124**		**0.119**		**0.120**		**0.118**
		MAX	**0.155**		**0.143**		**0.139**		**0.140**		**0.136**
		MIN	**0.104**		**0.096**		**0.089**		**0.087**		**0.094**
		STD	**0.014**		**0.013**		**0.014**		**0.014**		**0.014**

Arkansas SPS-A6 (05A603)

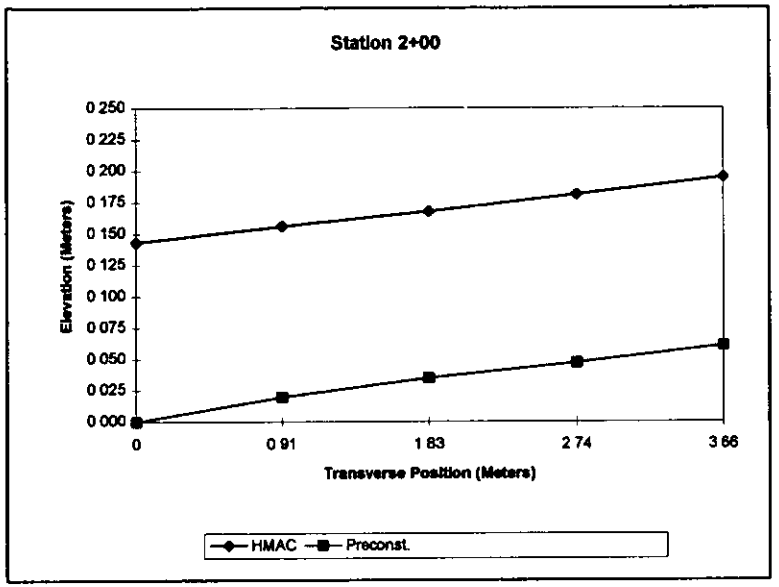


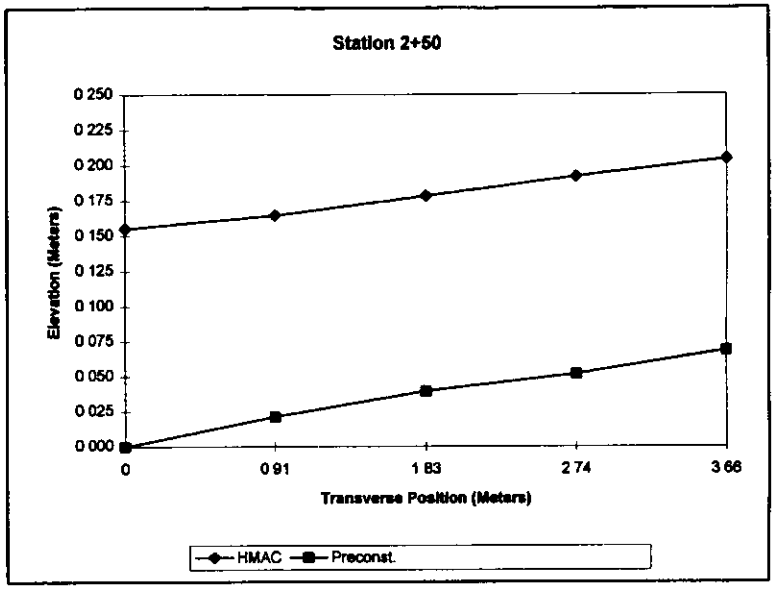


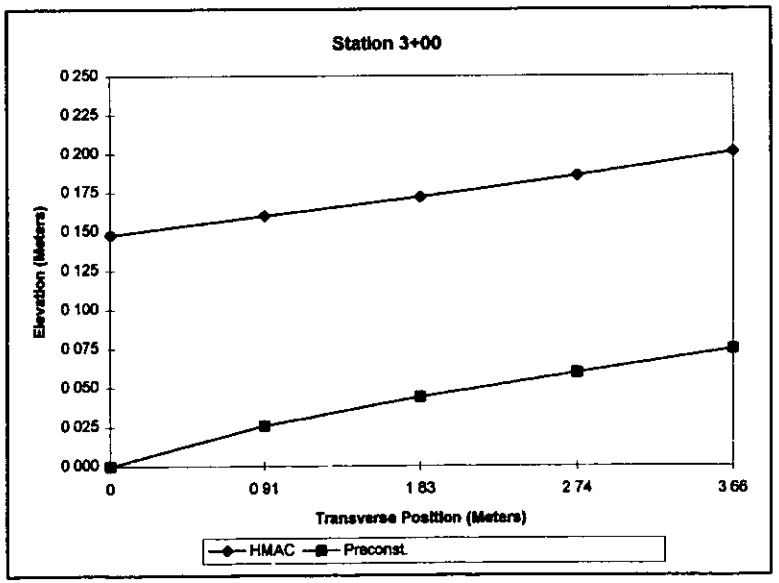


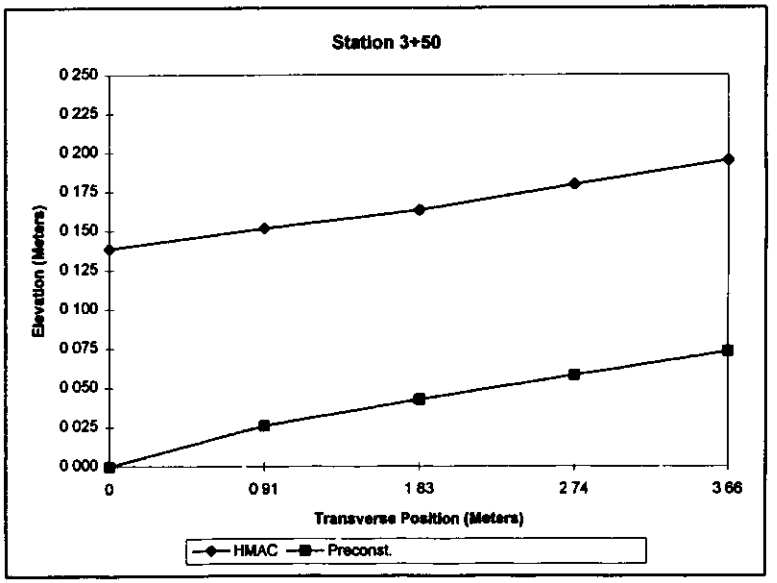


Arkansas SPS-A6 (05A603)

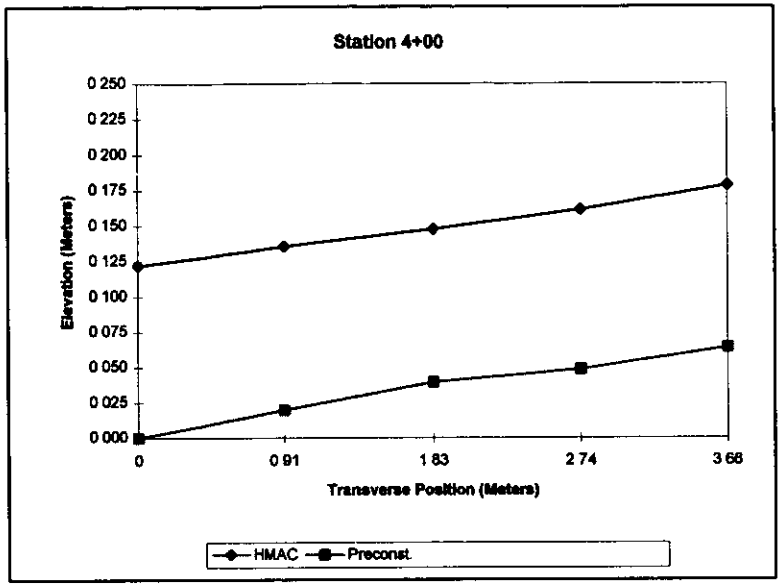


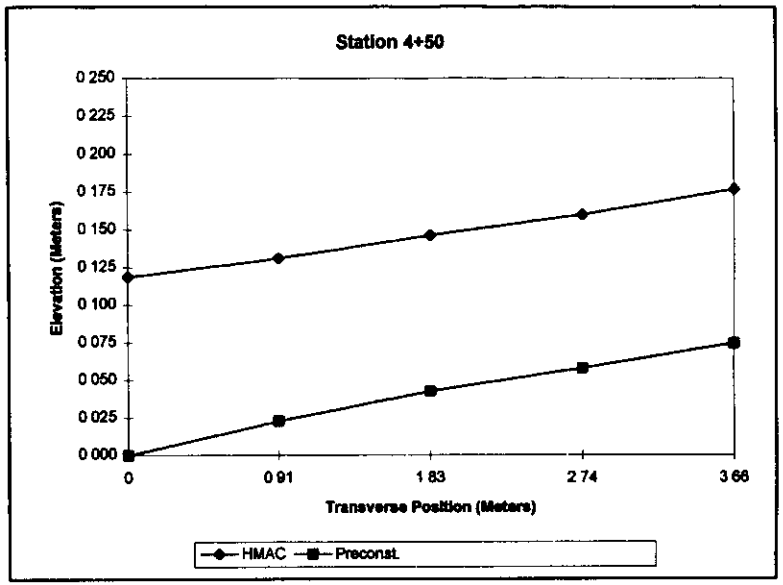


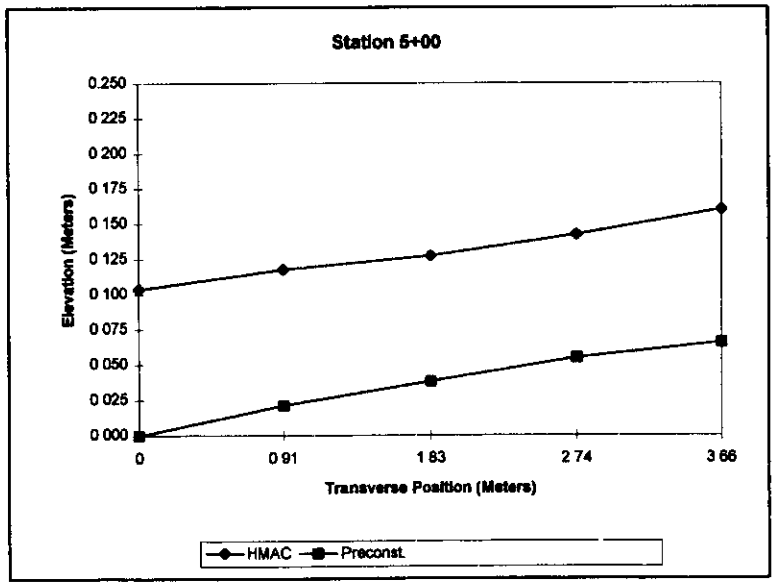




Arkansas SPS-A6 (05A603)



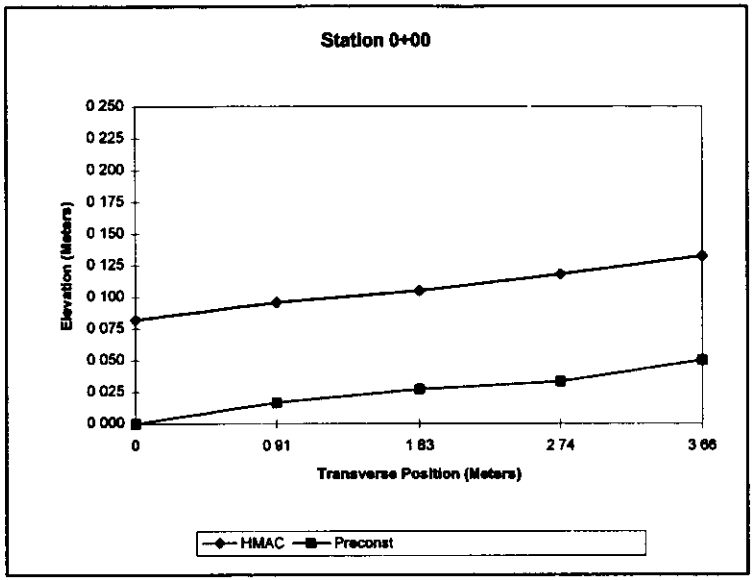


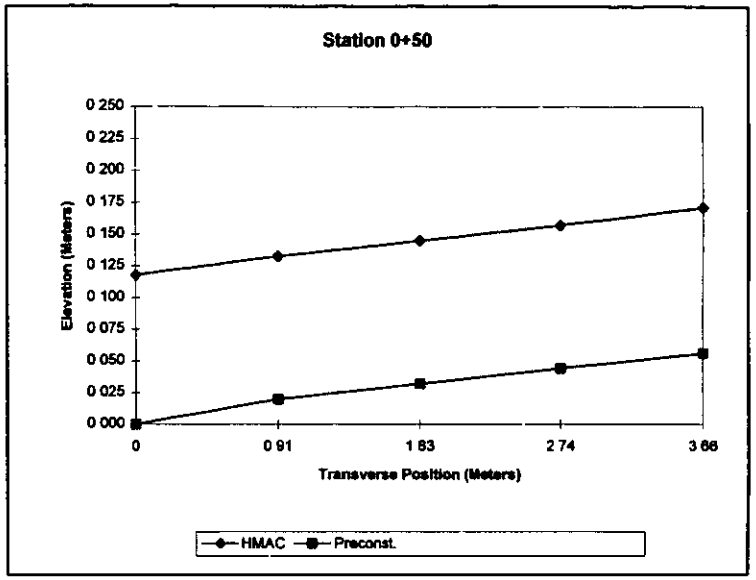


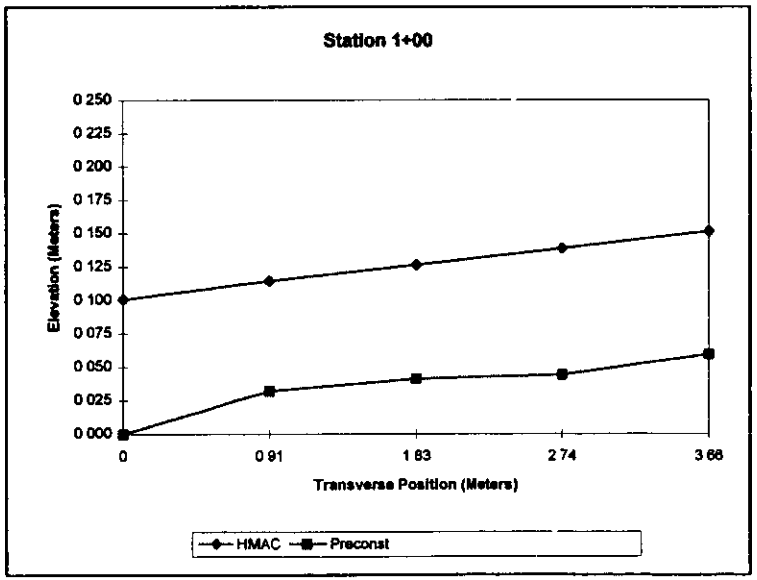
Arkansas SPS-A6 (05A604)

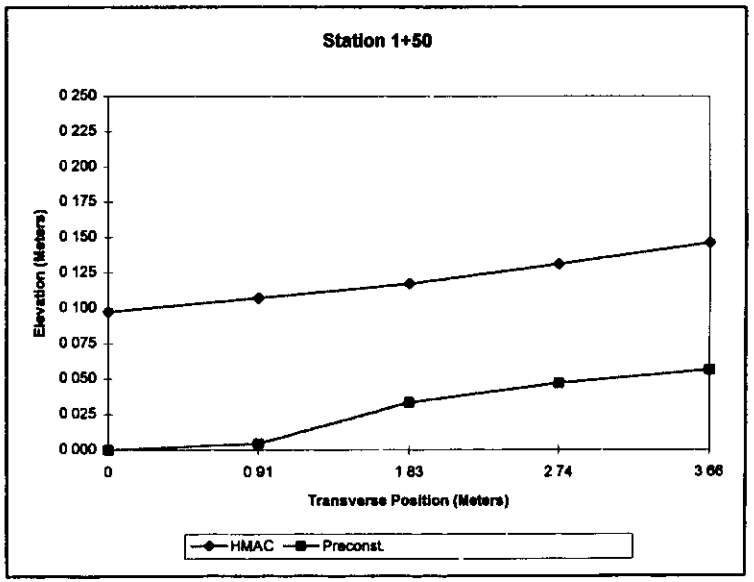
Transverse Offset	2 LAYERS	ELEVATION 0 Meters	HMAC THICKNESS Meters	ELEVATION 0.91 Meters	HMAC THICKNESS Meters	ELEVATION 1.83 Meters	HMAC THICKNESS Meters	ELEVATION 2.74 Meters	HMAC THICKNESS Meters	ELEVATION 3.66 Meters	HMAC THICKNESS Meters
0+00	HMAC	0 594	0 082	0 608	0 079	0 617	0 078	0 630	0 085	0 645	0 082
	Preconst	0 512		0 529		0 539		0 546		0 562	
0+50	HMAC	0 720	0 118	0 735	0 113	0 747	0 113	0 759	0 113	0 773	0 115
	Preconst	0 602		0 622		0 634		0 646		0 658	
1+00	HMAC	0 861	0 101	0 875	0 082	0 887	0 085	0 899	0 094	0 912	0 092
	Preconst	0 760		0 792		0 802		0 805		0 820	
1+50	HMAC	1 021	0 098	1 031	0 103	1 041	0 084	1 055	0 084	1 070	0 090
	Preconst	0 924		0 928		0 957		0 971		0 980	
2+00	HMAC	1 146	0 104	1 158	0 102	1 170	0 101	1 186	0 107	1 201	0 106
	Preconst	1 042		1 056		1 070		1 079		1 094	
2+50	HMAC	1 250	0 104	1 262	0 101	1 273	0 099	1 287	0 104	1 303	0 108
	Preconst	1 146		1 161		1 173		1 183		1 195	
3+00	HMAC	1 364	0 114	1 375	0 104	1 387	0 104	1 401	0 108	1 414	0 112
	Preconst	1 250		1 271		1 283		1 292		1 301	
3+50	HMAC	1 463	0 122	1 476	0 116	1 486	0 117	1 498	0 120	1 514	0 127
	Preconst	1 341		1 359		1 369		1 378		1 387	
4+00	HMAC	1 555	0 122	1 565	0 117	1 579	0 113	1 593	0 117	1 606	0 122
	Preconst	1 433		1 448		1 466		1 475		1 484	
4+50	HMAC	1 647	0 129	1 661	0 125	1 672	0 120	1 687	0 126	1 699	0 120
	Preconst	1 518		1 536		1 551		1 561		1 579	
5+00	HMAC	1 734	0 125	1 745	0 117	1 756	0 113	1 771	0 116	1 788	0 120
	Preconst	1 609		1 628		1 643		1 655		1 667	
	AVG		0 111		0 105		0 102		0 107		0 109
	MAX		0 129		0 125		0 120		0 126		0 127
	MIN		0 082		0 079		0 078		0 084		0 082
	STD		0 014		0 014		0 014		0 013		0 014

Arkansas SPS-A6 (05A604)

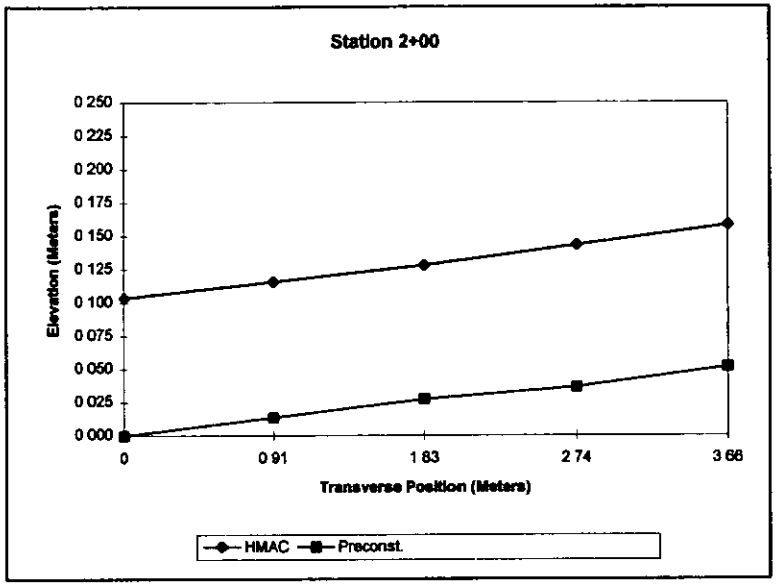


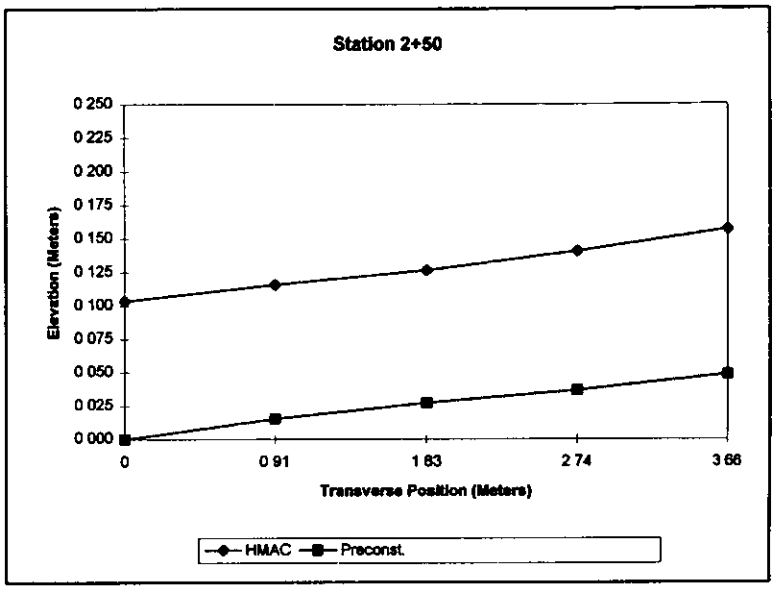


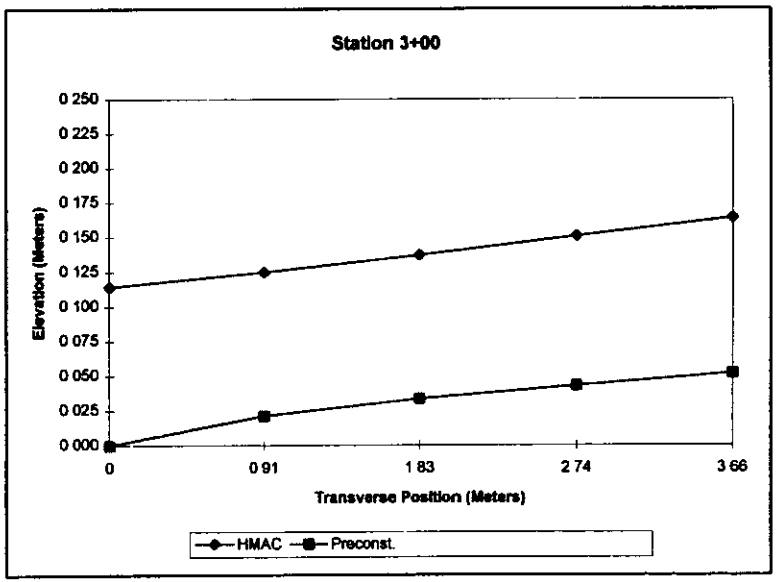


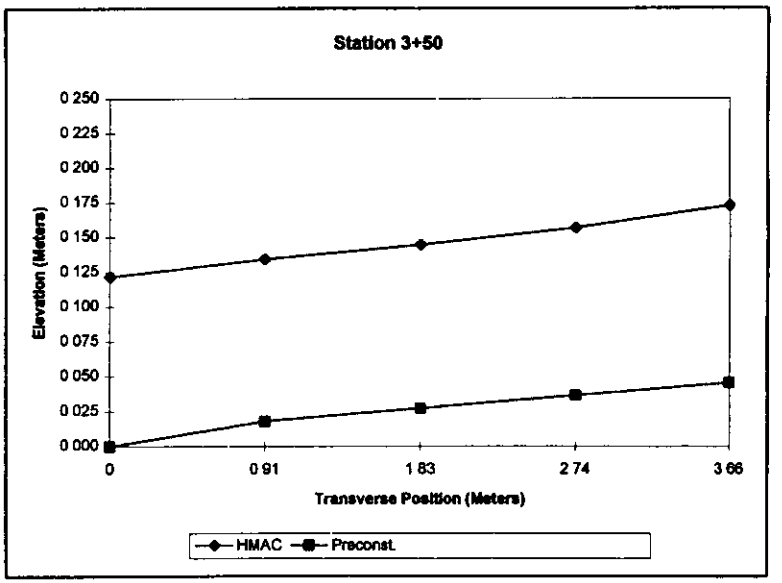


Arkansas SPS-A6 (05A604)

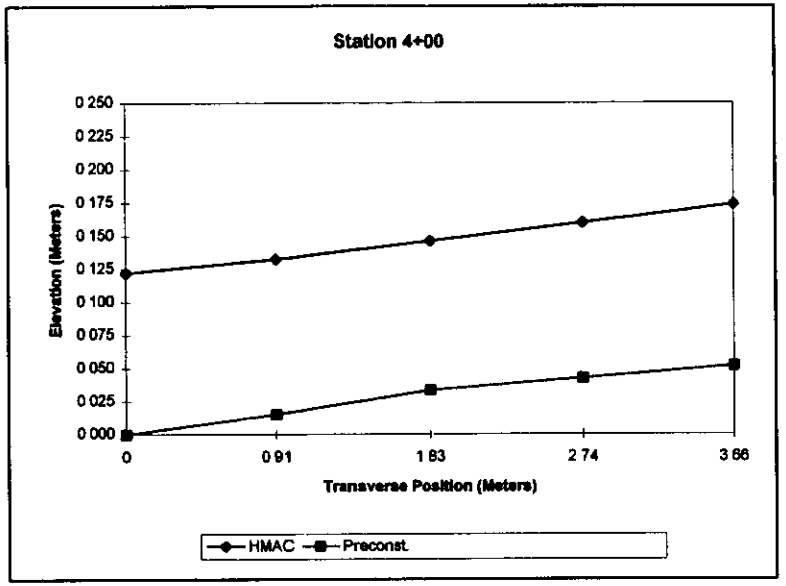


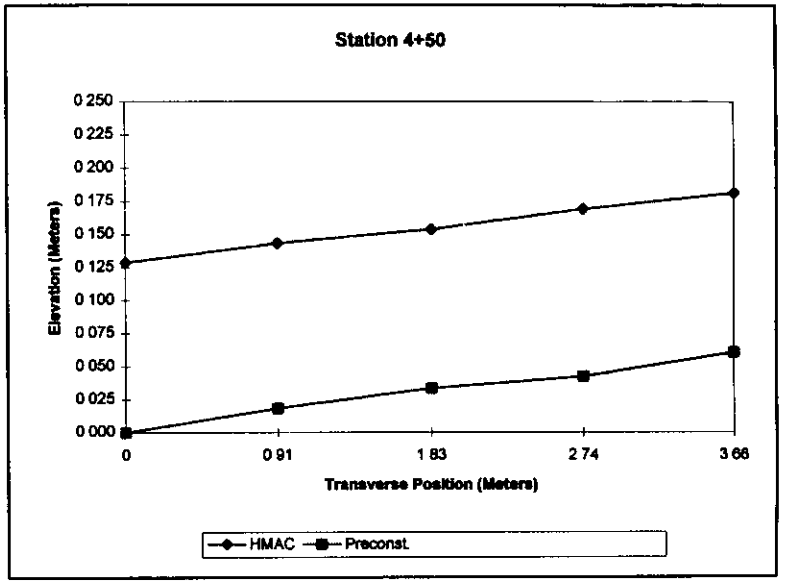


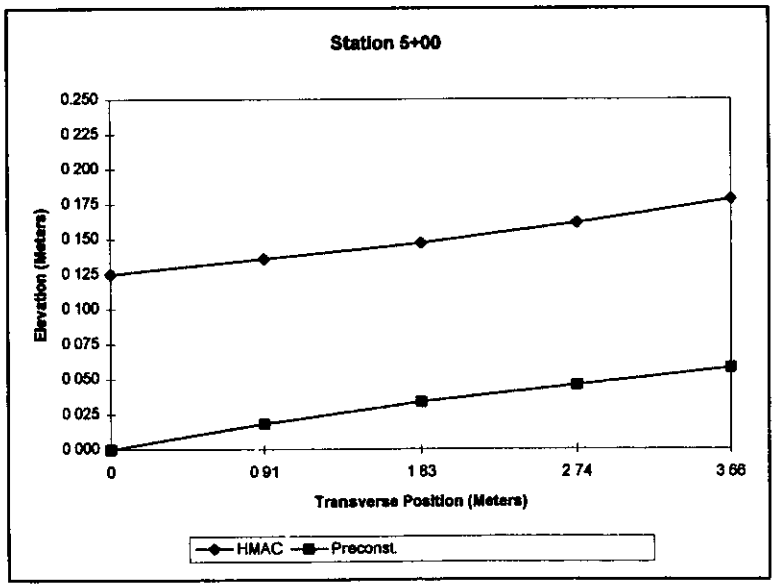




Arkansas SPS-A6 (05A604)



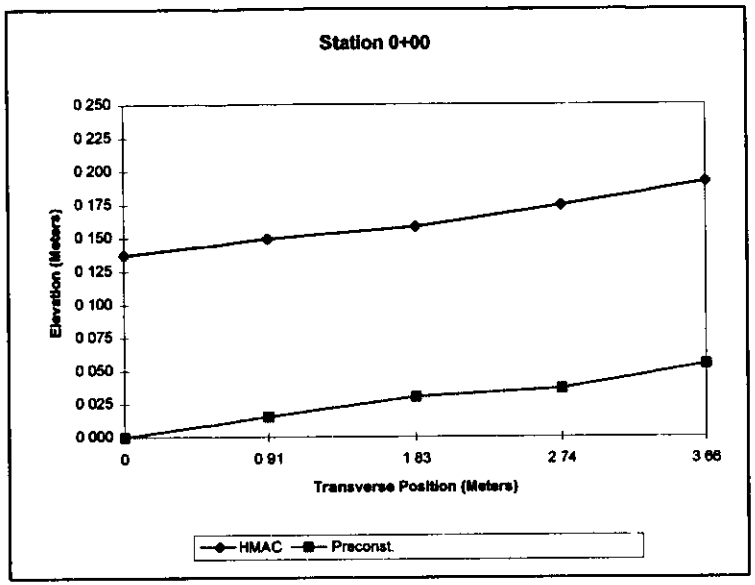


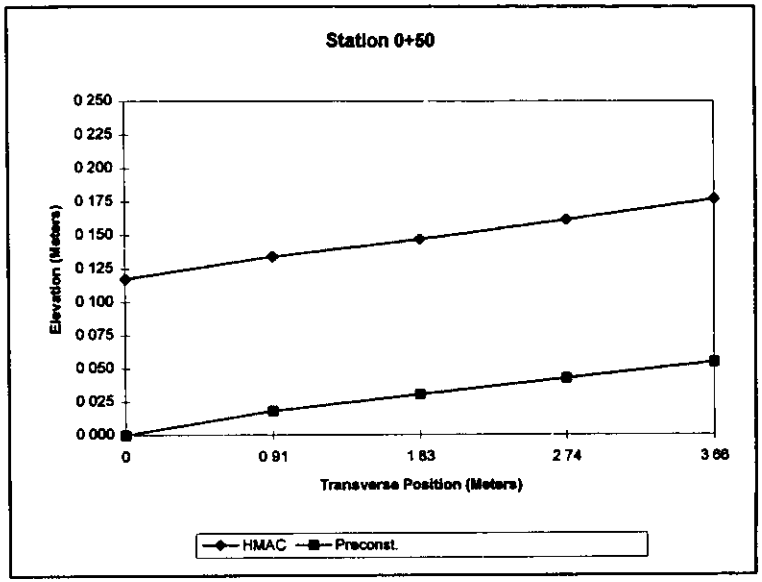


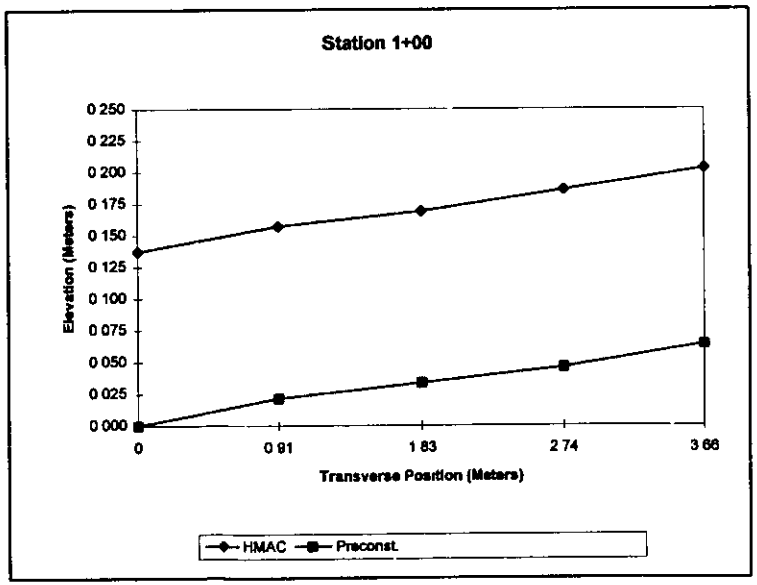
Arkansas SPS-A6 (05A606)

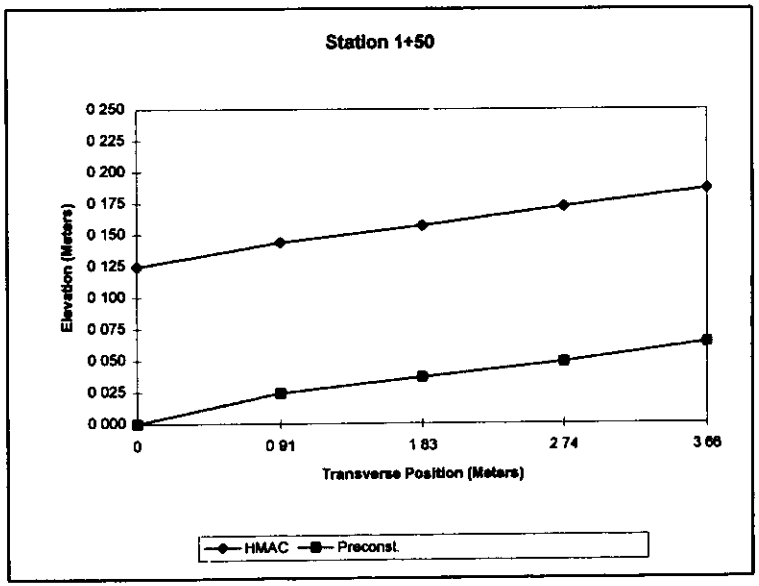
Transverse Offset	Layers	Elevation 0 Meters	HMAC Thickness Meters	Elevation 10.91 Meters	HMAC Thickness Meters	Elevation 1.83 Meters	HMAC Thickness Meters	Elevation 2.74 Meters	HMAC Thickness Meters	Elevation 3.66 Meters	HMAC Thickness Meters
0+00	HMAC	0.064	0.137	0.076	0.134	0.085	0.128	0.101	0.138	0.119	0.137
	Preconst	-0.073		-0.058		-0.043		-0.037		-0.018	
0+50	HMAC	0.236	0.117	0.253	0.116	0.266	0.116	0.280	0.119	0.296	0.122
	Preconst	0.119		0.137		0.149		0.162		0.174	
1+00	HMAC	0.430	0.137	0.450	0.136	0.462	0.136	0.479	0.140	0.495	0.139
	Preconst	0.293		0.314		0.326		0.338		0.357	
1+50	HMAC	0.606	0.124	0.625	0.119	0.639	0.121	0.654	0.123	0.668	0.123
	Preconst	0.482		0.506		0.518		0.530		0.546	
2+00	HMAC	0.760	0.126	0.780	0.122	0.791	0.117	0.806	0.123	0.823	0.125
	Preconst	0.634		0.658		0.674		0.683		0.698	
2+50	HMAC	0.930	0.140	0.943	0.133	0.956	0.133	0.970	0.135	0.988	0.137
	Preconst	0.789		0.811		0.823		0.835		0.850	
3+00	HMAC	1.094	0.131	1.111	0.130	1.122	0.122	1.138	0.130	1.152	0.128
	Preconst	0.963		0.981		1.000		1.009		1.024	
3+50	HMAC	1.273	0.120	1.289	0.125	1.301	0.119	1.317	0.122	1.334	0.120
	Preconst	1.152		1.164		1.183		1.195		1.213	
4+00	HMAC	1.445	0.143	1.465	0.139	1.480	0.139	1.494	0.141	1.509	0.138
	Preconst	1.301		1.326		1.341		1.353		1.372	
4+50	HMAC	1.631	0.134	1.646	0.131	1.657	0.126	1.672	0.123	1.692	0.131
	Preconst	1.497		1.515		1.530		1.548		1.561	
5+00	HMAC	1.807	0.134	1.829	0.131	1.841	0.134	1.857	0.135	1.875	0.138
	Preconst	1.673		1.698		1.707		1.722		1.737	
	AVG		0.131		0.129		0.126		0.130		0.131
	MAX		0.143		0.139		0.139		0.141		0.139
	MIN		0.117		0.116		0.116		0.119		0.120
	STD		0.008		0.007		0.008		0.008		0.007

Arkansas SPS-A6 (05A606)

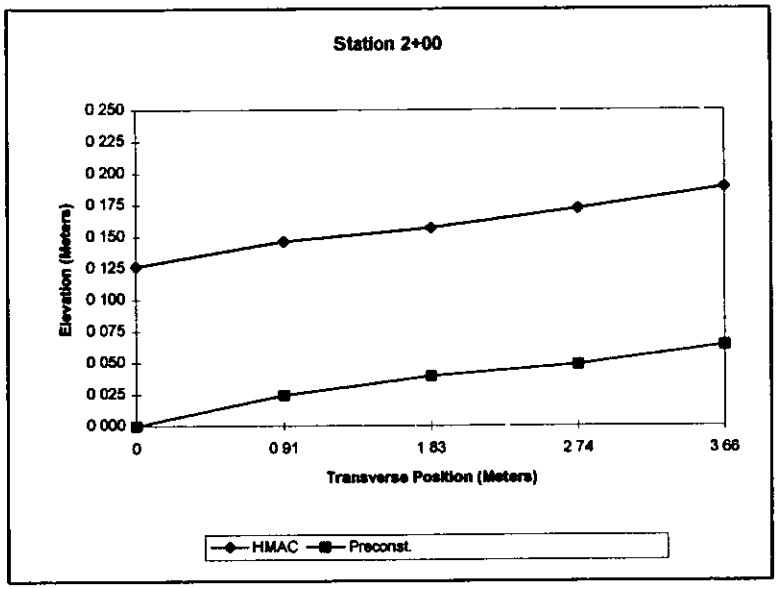


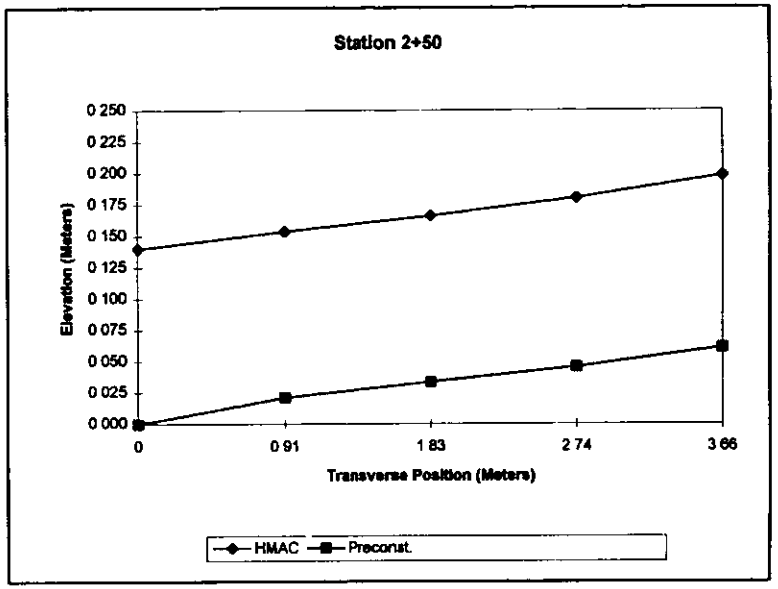


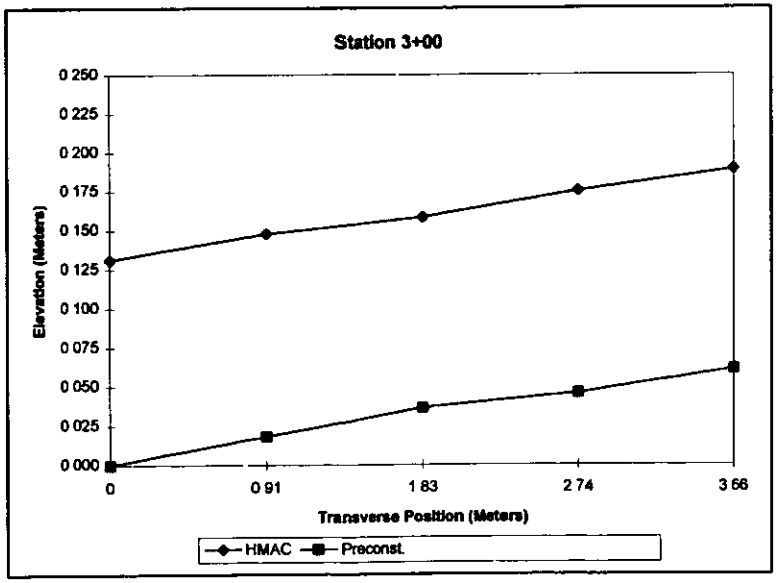


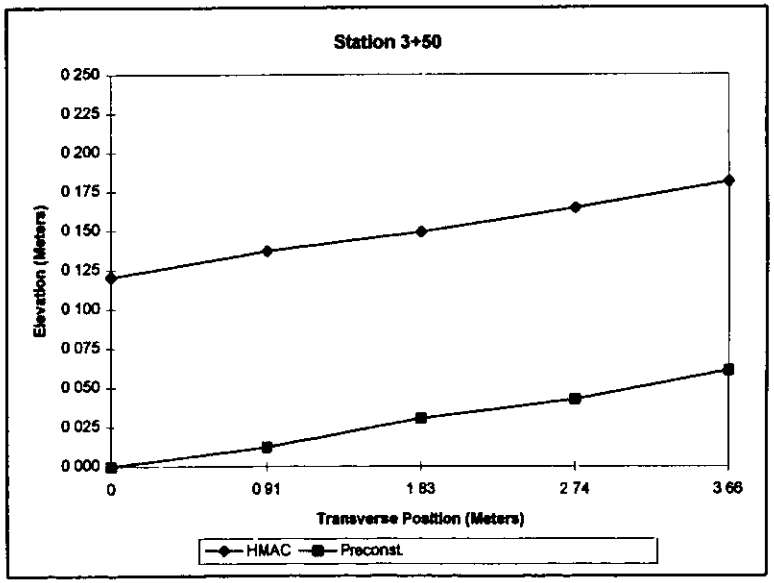


Arkansas SPS-A6 (05A606)

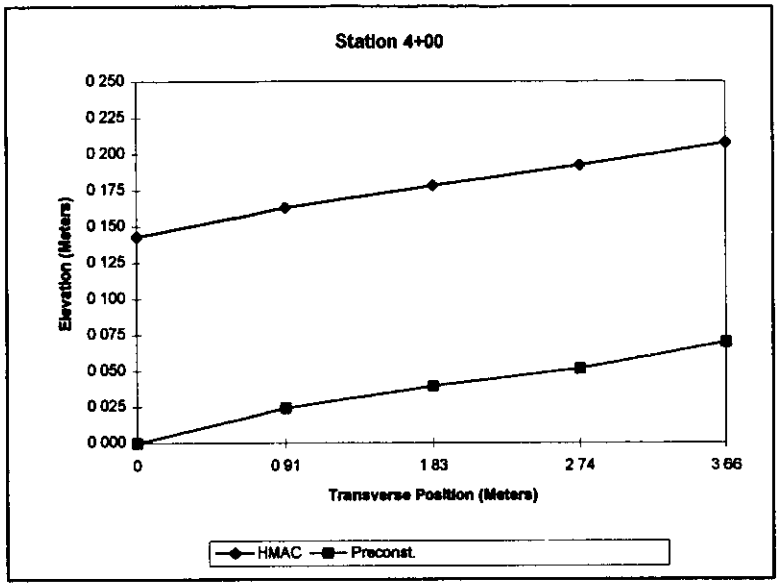


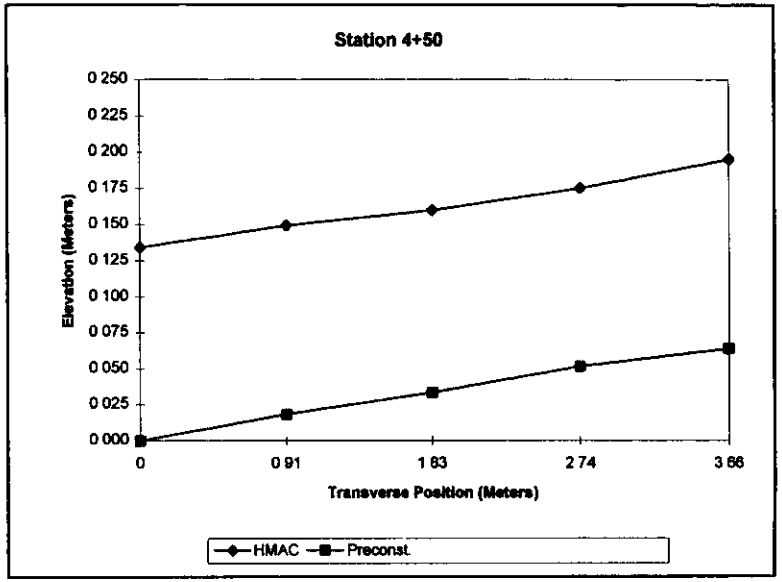


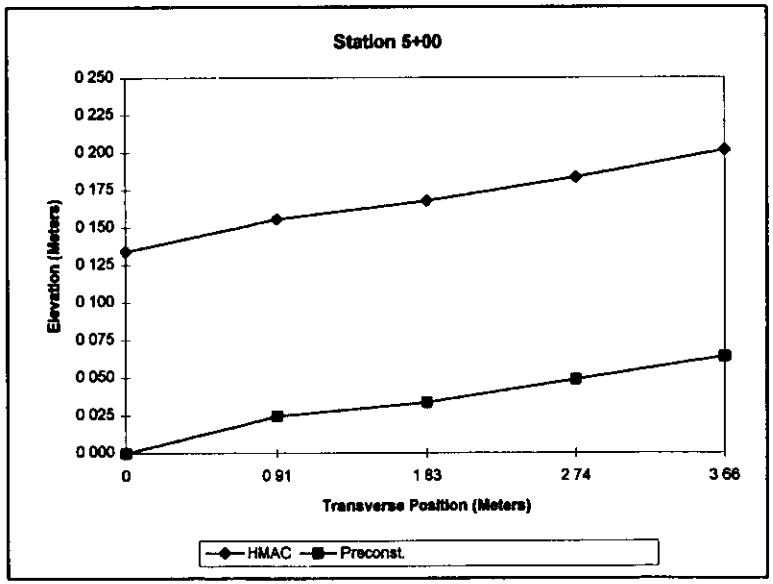




Arkansas SPS-A6 (05A606)



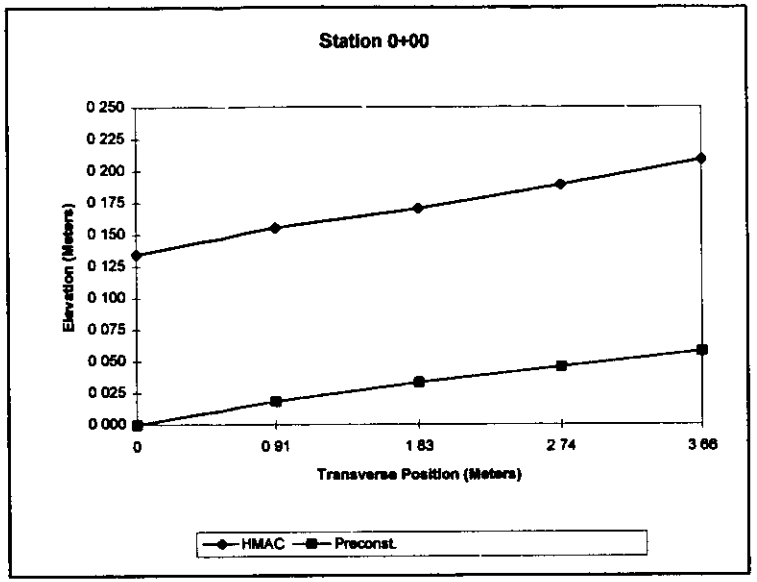


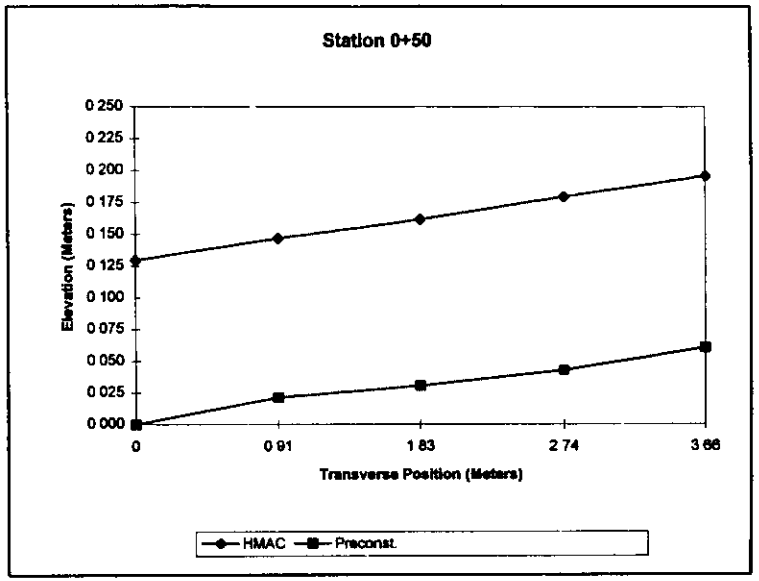


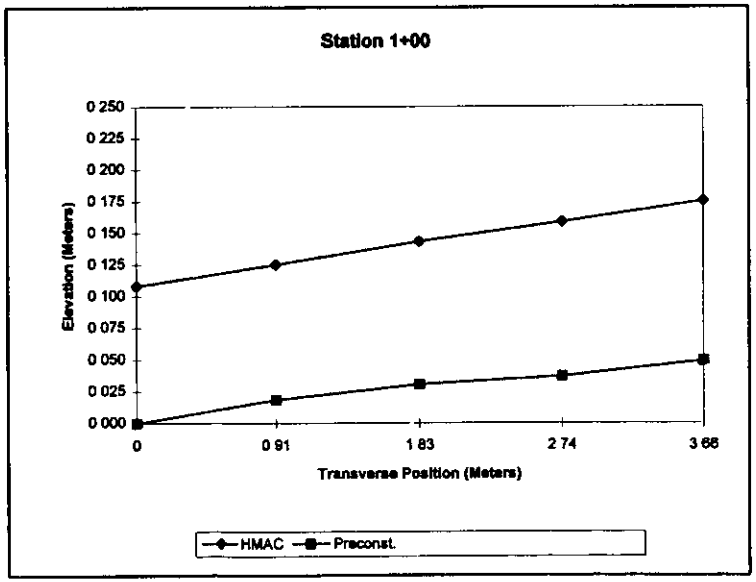
Arkansas SPS-A6 (05A607)

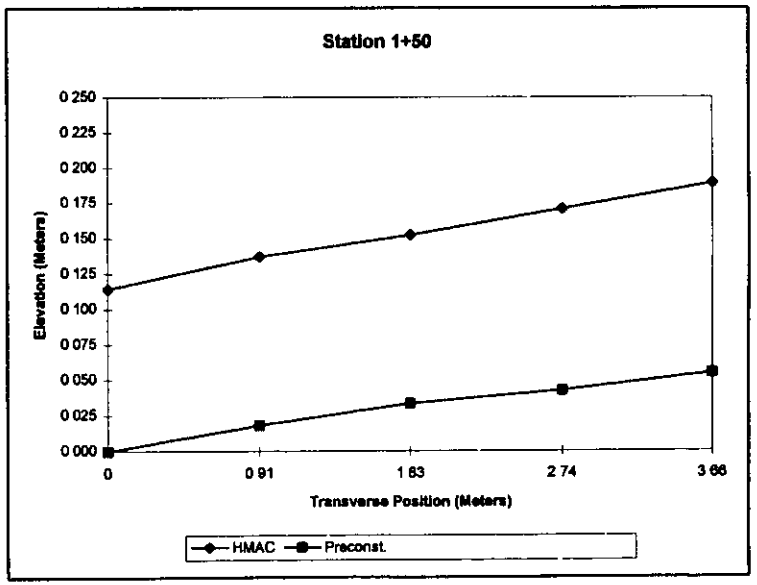
Transverse Offset	1 2 LAYERS	ELEVATION 0 Meters	HMAC THICKNESS Meters	ELEVATION 0.91 Meters	HMAC THICKNESS Meters	ELEVATION 1.83 Meters	HMAC THICKNESS Meters	ELEVATION 2.74 Meters	HMAC THICKNESS Meters	ELEVATION 3.66 Meters	HMAC THICKNESS Meters
0+00	HMAC	0 436	0 134	0 457	0 137	0 472	0 137	0 491	0 143	0 511	0 151
	Preconst	0 302		0 320		0 335		0 347		0 360	
0+50	HMAC	0 483	0 130	0 500	0 126	0 515	0 131	0 533	0 137	0 549	0 135
	Preconst	0 354		0 375		0 384		0 396		0 415	
1+00	HMAC	0 547	0 108	0 564	0 107	0 582	0 113	0 597	0 122	0 614	0 126
	Preconst	0 439		0 457		0 469		0 475		0 488	
1+50	HMAC	0 663	0 114	0 686	0 119	0 701	0 119	0 719	0 128	0 738	0 134
	Preconst	0 549		0 567		0 582		0 591		0 604	
2+00	HMAC	0 791	0 114	0 805	0 107	0 821	0 114	0 840	0 123	0 856	0 125
	Preconst	0 677		0 698		0 707		0 716		0 732	
2+50	HMAC	0 933	0 098	0 951	0 101	0 968	0 102	0 985	0 110	1 003	0 116
	Preconst	0 835		0 850		0 866		0 875		0 887	
3+00	HMAC	1 097	0 113	1 117	0 117	1 148	0 137	1 151	0 126	1 169	0 133
	Preconst	0 985		1 000		1 012		1 024		1 036	
3+50	HMAC	1 277	0 128	1 285	0 120	1 301	0 125	1 321	0 133	1 343	0 139
	Preconst	1 149		1 164		1 177		1 189		1 204	
4+00	HMAC	1 433	0 101	1 454	0 113	1 474	0 114	1 494	0 128	1 509	0 131
	Preconst	1 332		1 341		1 359		1 366		1 378	
4+50	HMAC	1 655	0 131	1 664	0 125	1 675	0 130	1 692	0 137	1 704	0 140
	Preconst	1 524		1 539		1 545		1 554		1 564	
5+00	HMAC	1 832	0 119	1 844	0 116	1 855	0 114	1 871	0 122	1 890	0 128
	Preconst	1 713		1 728		1 740		1 750		1 762	
	AVG		0 117		0 117		0 121		0 128		0 133
	MAX		0 134		0 137		0 137		0 143		0 151
	MIN		0 098		0 101		0 102		0 110		0 116
	STD		0 012		0 010		0 011		0 009		0 009

Arkansas SPS-A6 (05A607)

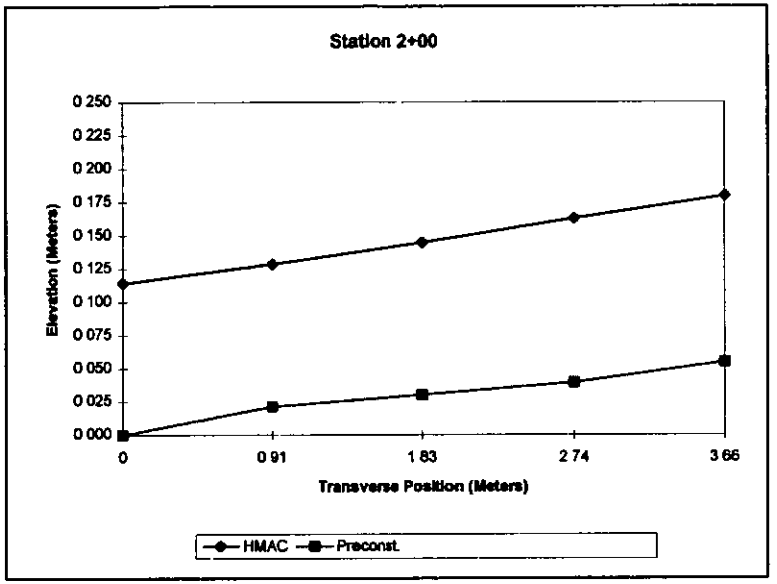


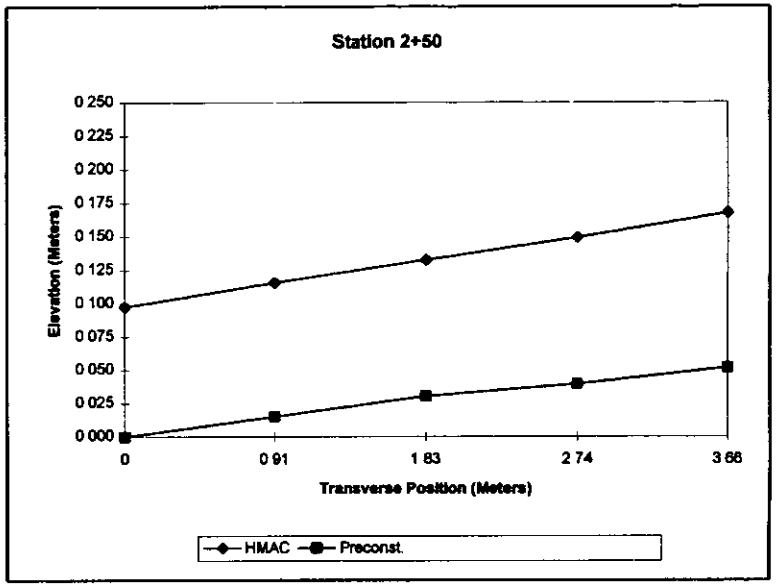


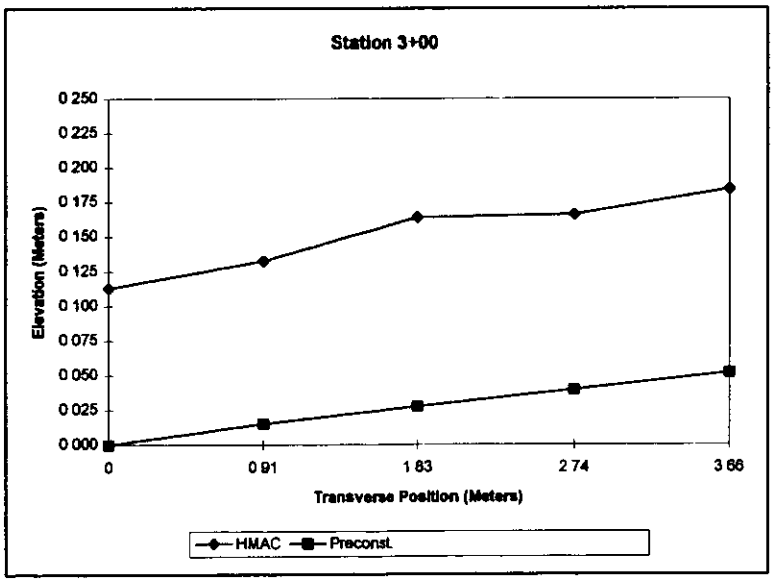


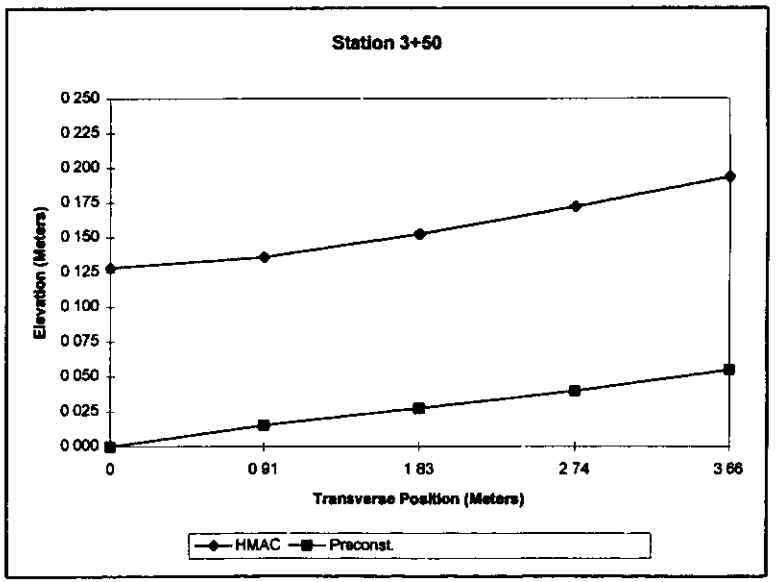


Arkansas SPS-A6 (05A607)

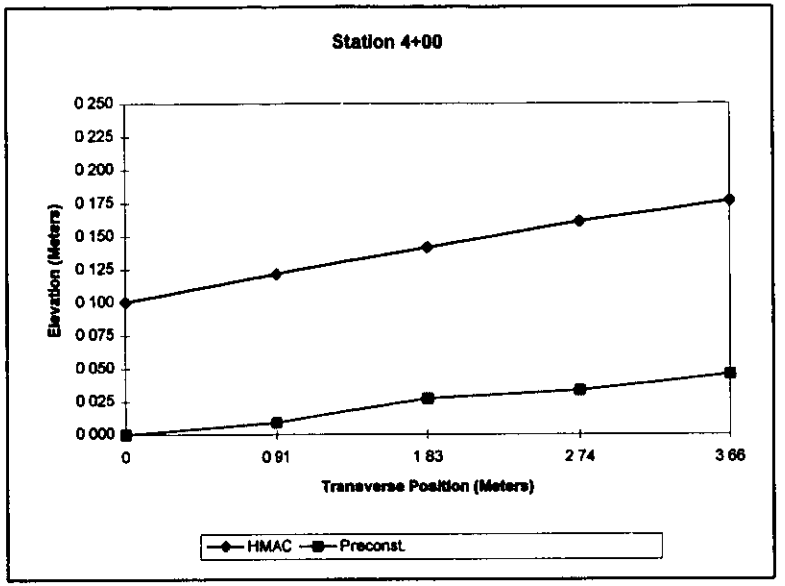


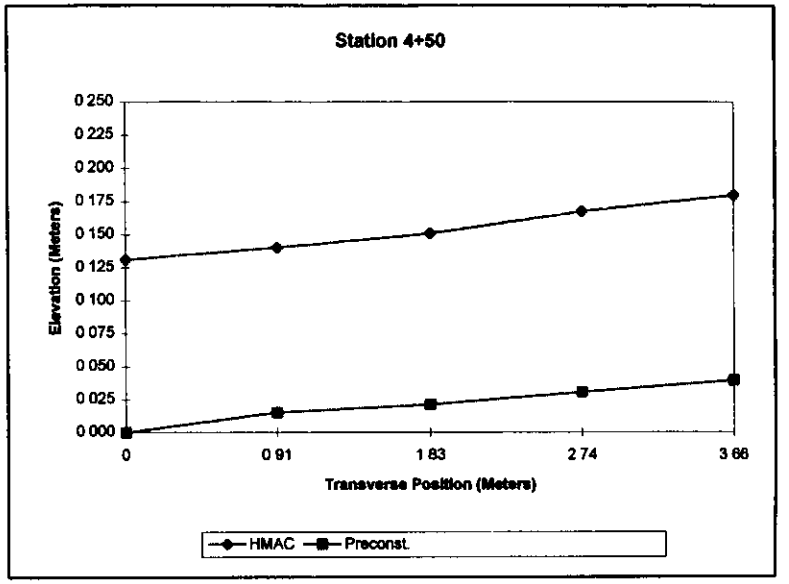


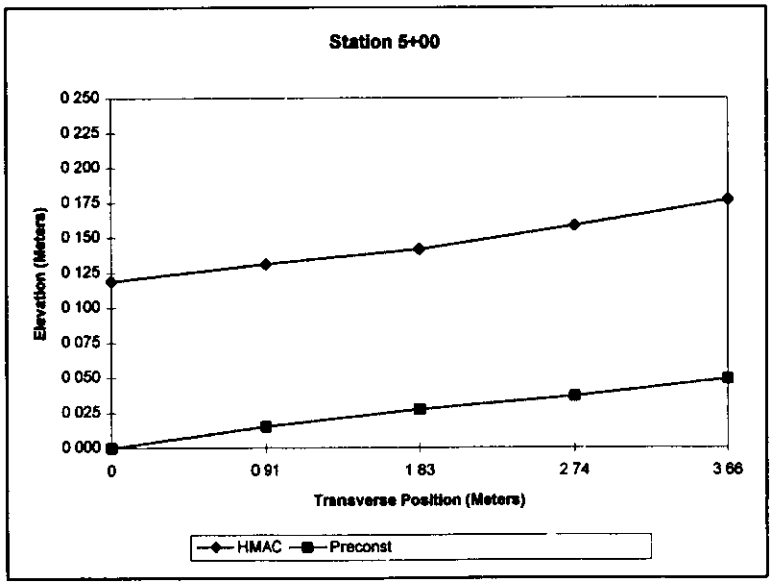




Arkansas SPS-A6 (05A607)



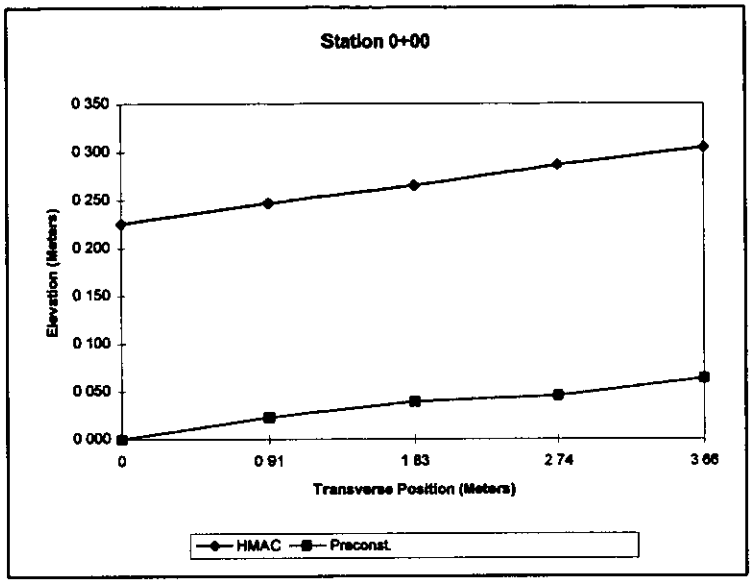


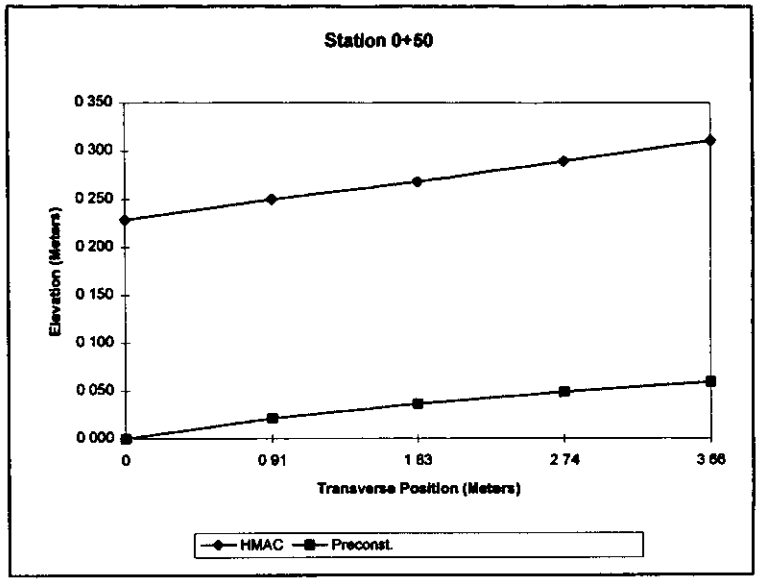


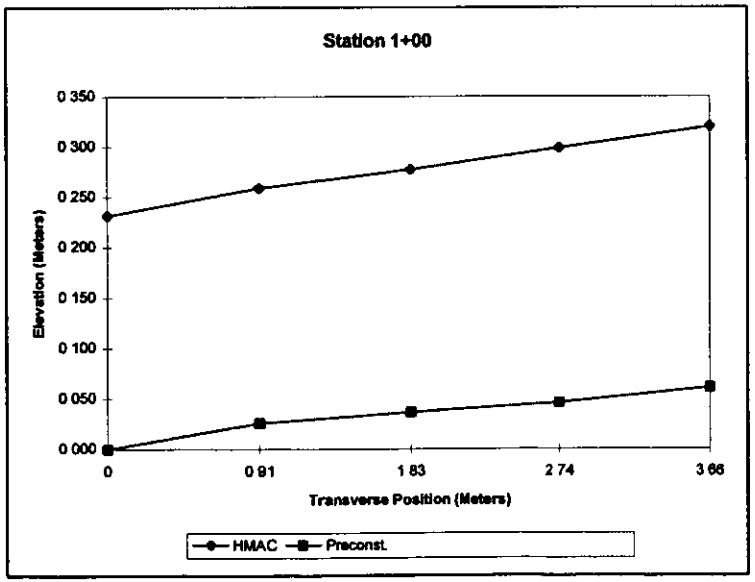
Arkansas SPS-A6 (05A608)

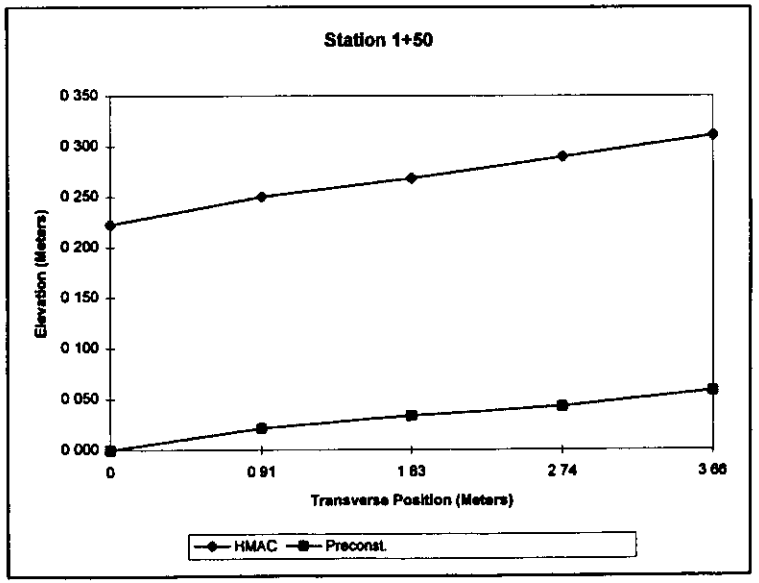
Transverse Offset	2 LAYERS	ELEVATION 0 Meters	HMAC THICKNESS Meters	ELEVATION 0.91 Meters	HMAC THICKNESS Meters	ELEVATION 1.83 Meters	HMAC THICKNESS Meters	ELEVATION 2.74 Meters	HMAC THICKNESS Meters	ELEVATION 3.66 Meters	HMAC THICKNESS Meters
0+00	HMAC	3 767	0 226	3 789	0 224	3 807	0 226	3 828	0 241	3 847	0 241
	Preconst	3 542		3 565		3 581		3 587		3 606	
0+50	HMAC	3 670	0 229	3 691	0 229	3 709	0 232	3 731	0 241	3 752	0 251
	Preconst	3 441		3 463		3 478		3 490		3 501	
1+00	HMAC	3 575	0 232	3 603	0 233	3 621	0 241	3 642	0 253	3 664	0 259
	Preconst	3 344		3 370		3 380		3 389		3 405	
1+50	HMAC	3 484	0 223	3 511	0 229	3 530	0 235	3 551	0 247	3 572	0 253
	Preconst	3 261		3 283		3 295		3 304		3 319	
2+00	HMAC	3 395	0 227	3 423	0 226	3 441	0 229	3 463	0 236	3 484	0 244
	Preconst	3 168		3 197		3 213		3 226		3 240	
2+50	HMAC	3 301	0 235	3 328	0 238	3 350	0 244	3 368	0 251	3 386	0 256
	Preconst	3 066		3 091		3 106		3 117		3 130	
3+00	HMAC	3 210	0 236	3 231	0 235	3 252	0 244	3 271	0 251	3 292	0 258
	Preconst	2 973		2 996		3 008		3 019		3 034	
3+50	HMAC	3 118	0 229	3 142	0 232	3 164	0 242	3 185	0 253	3 203	0 259
	Preconst	2 890		2 911		2 922		2 932		2 944	
4+00	HMAC	3 024	0 238	3 048	0 235	3 066	0 238	3 091	0 247	3 109	0 253
	Preconst	2 786		2 813		2 829		2 844		2 856	
4+50	HMAC	2 923	0 226	2 950	0 229	2 972	0 232	2 990	0 235	3 011	0 241
	Preconst	2 697		2 722		2 740		2 755		2 771	
5+00	HMAC	2 832	0 235	2 853	0 247	2 874	0 235	2 893	0 241	2 917	0 256
	Preconst	2 597		2 606		2 640		2 652		2 661	
	AVG		0 230		0 232		0 236		0 245		0 252
	MAX		0 238		0 247		0 244		0 253		0 259
	MIN		0 223		0 224		0 226		0 235		0 241
	STD		0 005		0 006		0 006		0 006		0 007

Arkansas SPS-A6 (05A608)

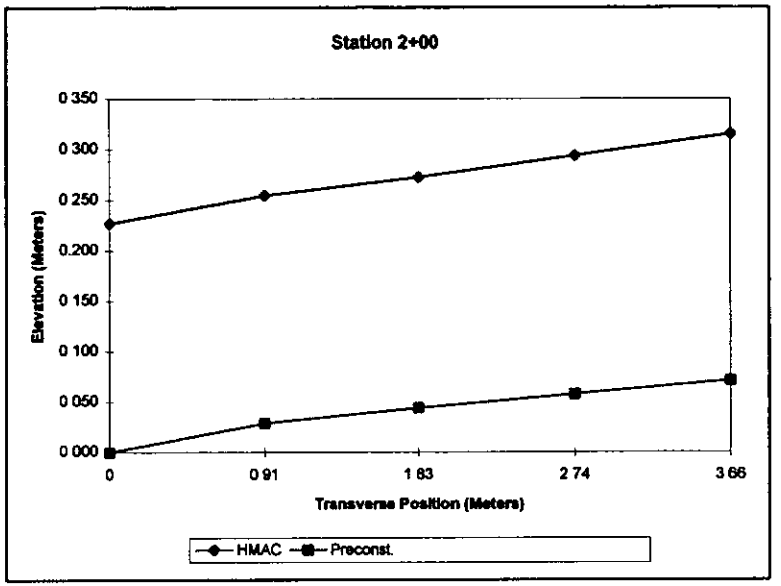


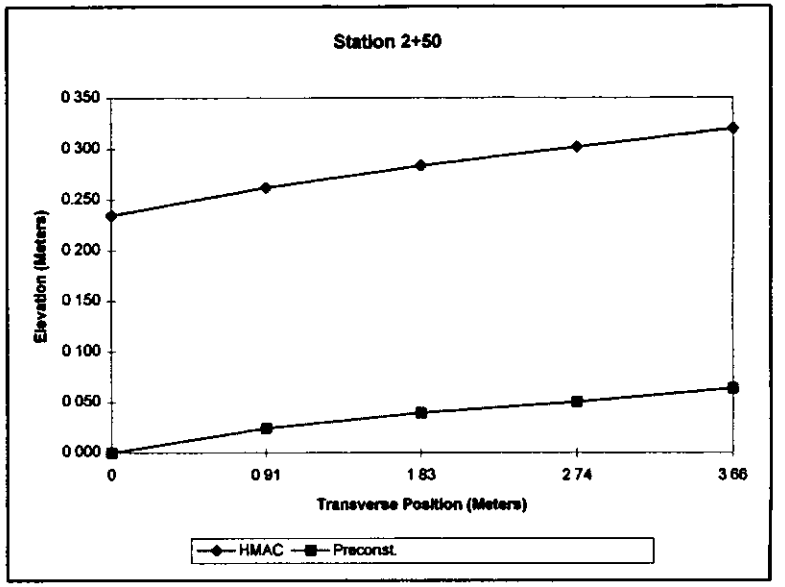


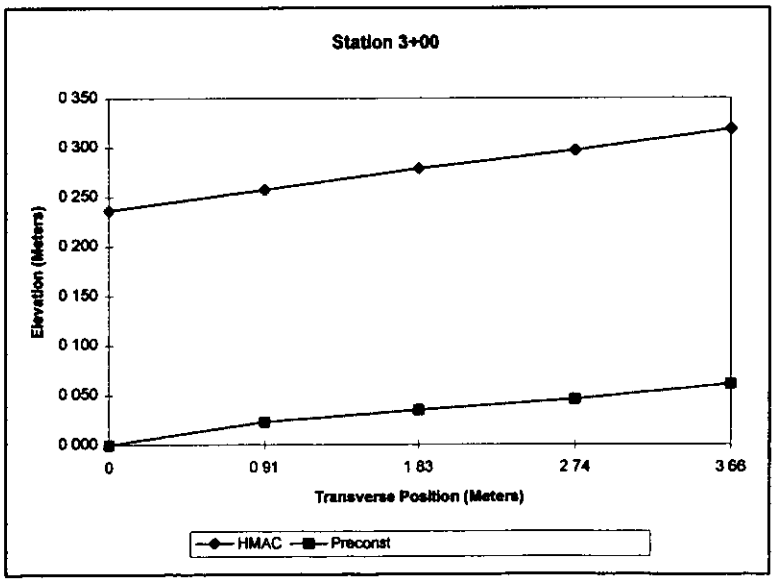


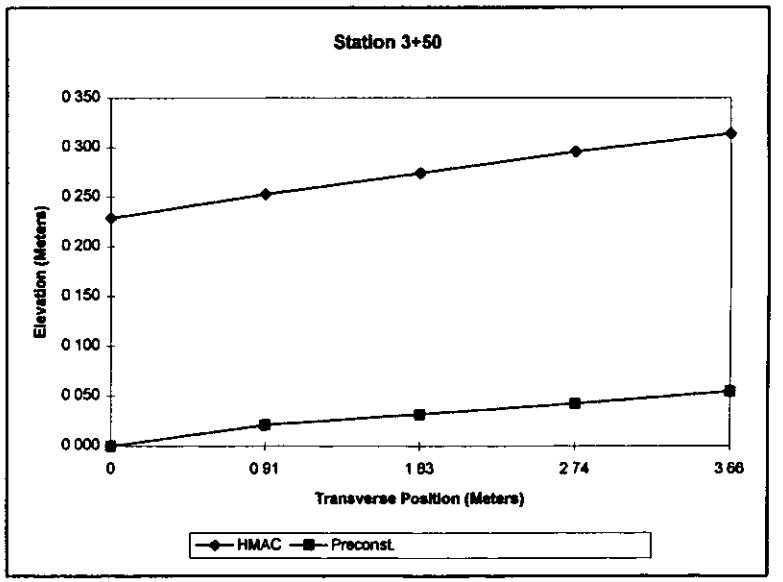


Arkansas SPS-A6 (05A608)

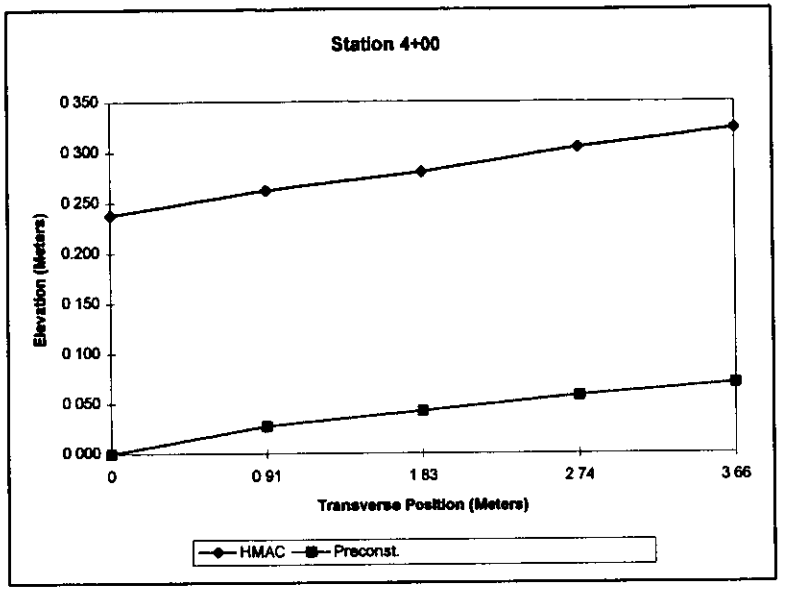


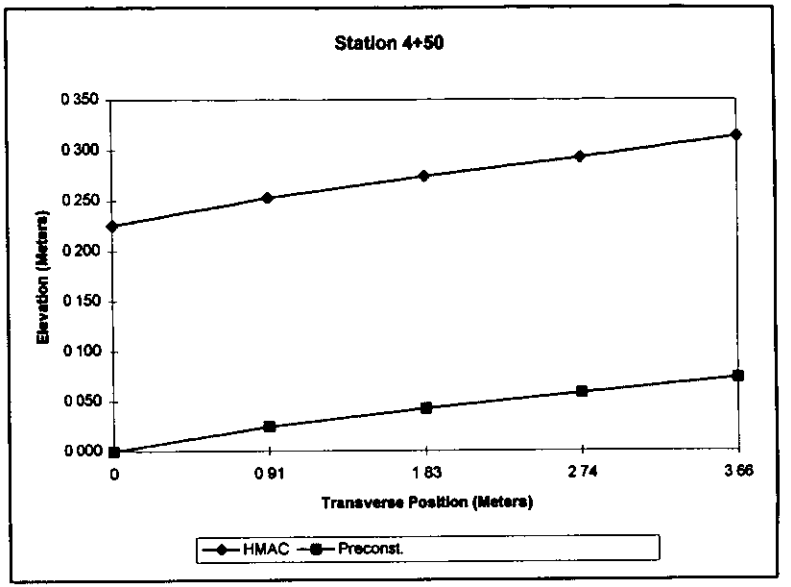


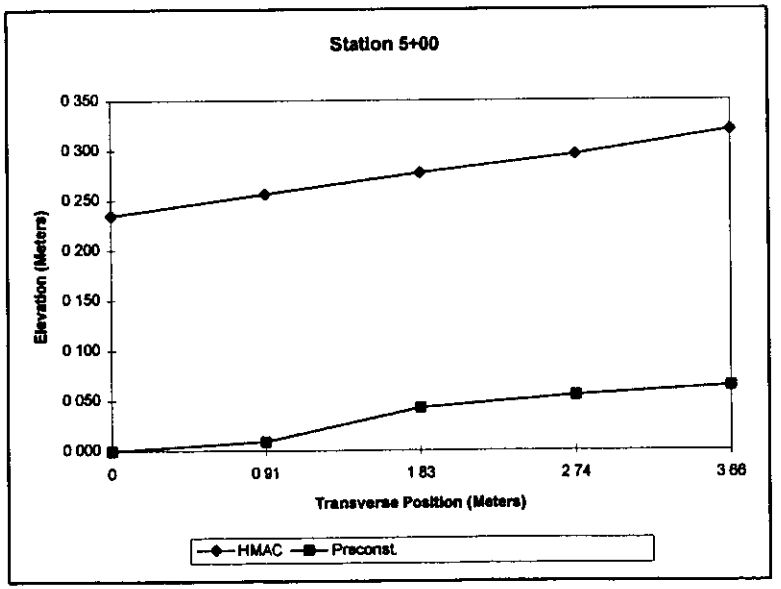




Arkansas SPS-A6 (05A608)







APPENDIX D

MANUAL DISTRESS SURVEYS

RECEIVED DEC 1 3 1996

Revised May 29, 1992

SHEET 4

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 05

SHRP SECTION ID A601

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 09/13/96

SURVEYORS JFD, _ _ _, _ _ _
PAVEMENT SURFACE TEMP - BEFORE _ _ 32°C, AFTER _ _ 32°C
PHOTOS, VIDEO, OR BOTH WITH SURVEY (P, V, B) B

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
CRACKING			
1 CORNER BREAKS (Number)	00	00	00
2 DURABILITY "D" CRACKING (Number of Affected Slabs)	00	00	00
AREA AFFECTED (Square Meters)	000	000	000
3 LONGITUDINAL CRACKING (Meters)	1665	000	000
Length Sealed (Meters)	1665	000	000
4 TRANSVERSE CRACKING (Number of Cracks)	00	00	00
(Meters)	000	000	000
Length Sealed (Meters)	000	000	000
JOINT DEFICIENCIES			
5a TRANSVERSE JOINT SEAL DAMAGE Sealed? (Y, N)			Y
If "Y" Number of Joints	27	6	1
5b LONGITUDINAL JOINT SEAL DAMAGE Number of Longitudinal Joints that have been sealed (0, 1, or 2)			1
Length of Damaged Sealant (Meters)			00
6 SPALLING OF LONGITUDINAL JOINTS (Meters)	000	000	000
7 SPALLING OF TRANSVERSE JOINTS Number of Affected Joints	01	07	23
Length Spalled (Meters)	02	40	13

NTERED DEC 19 1996 J B

Revised May 29, 1992

SHEET 5

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 05

SHRP SECTION ID A601

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
SURFACE DEFORMATION			
8a MAP CRACKING (Number)			
(Square Meters)			5561
8b SCALING (Number)			00
(Square Meters)			00
9. POLISHED AGGREGATE (Square Meters)			00
10 POPOUTS (Number)			0
MISCELLANEOUS DISTRESSES			
11 BLOWUPS (Number)			0
12 FAULTING OF TRANSVERSE JOINTS AND CRACKS - REFER TO SHEET 6			
13 LANE-TO-SHOULDER DROPOFF - REFER TO SHEET 7			
14 LANE-TO-SHOULDER SEPARATION - REFER TO SHEET 7			
15 PATCH/PATCH DETERIORATION			
Flexible (Number)	5	0	1
(Square Meters)	14	00	4
Rigid (Number)	0	0	0
(Square Meters)	20	00	00
16 WATER BLEEDING AND PUMPING (Number of Occurrences)			0
Length Affected (Meters)			00

17 OTHER (Describe) _____

Revised May 29, 1992

SHEET 6

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 05

SHRP SECTION ID A601

ENTERED DEC 19 1996 J B

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

12 FAULTING OF TRANSVERSE JOINTS AND CRACKS

Page 1 of 2

Point[1] Distance (Meters)	Joint or Crack (J/C)	Crack Length (Meters)	Well Sealed (Y/N)	Length of Spalling, m L	M	H	Faulting (mm)[2] 0 3m	0 75m
01	J		Y	0	0	0	0	0
48			N	0	0 2	0	0	2
93			Y	0	0	0	0	0
140			Y	0	0 5	0	0	1 P
185			Y	0	0	0	0	1
231			Y	0	0	0 5	0	0
278			N	0	0	0	0	0
323			N	0	0	0	1	1
368			Y	0	0 6	0	0	0
414			Y	0	0 5	0	0	0
461			Y	0	0	0	0	0
507			N	0	0	0	2	2
553			Y	0	0	0	0	0
598			Y	0	0 3	0	0	0
644			Y	0	0	0	0	1
690			Y	0	0	1 2	3	1
735			N	0	0	0	0	0
781			Y	0	0	0	0	0
827			Y	0	0	0	0	0
873			N	0	0	0	0	1
919			Y	0	0	0	2	0
964			Y	0	0	0	0	0
1010			Y	0	0	0	0	0
1055			Y	0	0	0	0	0
1101			Y	0	0	0	2	0
1148			Y	0	0	0	1	2
1194			Y	0	0	0	0	0

OVER

Note 1 Point Distance is from the start of the test section to the measurement location.

Note 2. If the "approach" slab is higher than the "departure" slab, faulting is recorded as positive (+ or 0); if the "approach" slab is lower, record faulting as negative (-) and the minus sign must be used.

Revised April 23, 1993

SHEET 6

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 05

SHRP SECTION ID A601

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 09/13/96

SURVEYORS J.E.D. _ _ _

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

12 FAULTING OF TRANSVERSE JOINTS AND CRACKS

Point[1] Distance (Meters)	Joint or Crack (J/C)	Crack Length (Meters)	Well Sealed (Y/N)	Length of Joint Spalling, m L	M	H	Faulting[2], mm 0.3m	0.75m
1241	J	- -	Y	00	00	00	- - 0	- - 0
1284		- -		- -	00	- -	- - 0	- - 0
1333		- -		- -	06	- -	- - 3	- - 2
1376		- -		- -	03	- -	- - 1	- - 0
1423		- -		00	00	- -	- - 0	- - 1
1471		- -		02	- -	- -	- - 1	- - 2
1517		- -		00	- -	- -	- - 1	- - 2
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Note 1 Point Distance is from the start of the test section to the measurement location.

Note 2 If the "approach" slab is higher than the "departure" slab, faulting is recorded as positive (+ or 0), if the "approach" slab is lower, record faulting as negative (-) and the minus sign must be used

RECEIVED DEC 1 3 1996

Revised May 29, 1992

SHEET 4

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID ____

STATE CODE 05

SHRP SECTION ID A602

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 09/12/96

SURVEYORS ZWD, DDF, JFD
PAVEMENT SURFACE TEMP - BEFORE __31°C, AFTER __31°C
PHOTOS, VIDEO, OR BOTH WITH SURVEY (P, V, B) B

(88 °F - 32) 5/9

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
CRACKING			
1 CORNER BREAKS (Number)	__0	__0	__0
2 DURABILITY "D" CRACKING (Number of Affected Slabs)	__0	__0	__0
AREA AFFECTED (Square Meters)	__0_	__0_	__0_
3 LONGITUDINAL CRACKING (Meters) 541 745 405 373 305 465 555	4899	__00	__00
Length Sealed (Meters)	4640	__00	__00
4 TRANSVERSE CRACKING (Number of Cracks) 627 345 378	__0	__0	__0
(Meters)	__0_	__0_	__0_
Length Sealed (Meters)	__0_	__0_	__0_
JOINT DEFICIENCIES			
5a TRANSVERSE JOINT SEAL DAMAGE Sealed? (Y, N)			N
If "Y" Number of Joints	61	6	0
5b LONGITUDINAL JOINT SEAL DAMAGE Number of Longitudinal Joints that have been sealed (0, 1, or 2)			2
Length of Damaged Sealant (Meters)			__00
6 SPALLING OF LONGITUDINAL JOINTS (Meters)	__0_	__0_	__0_
7 SPALLING OF TRANSVERSE JOINTS Number of Affected Joints	11	14	3
Length Spalled (Meters)	__32	__77	__21

ENTERED JAN 31 1997 J B J

Revised May 29, 1992

SHEET 5

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 05

SHRP SECTION ID A602

ENTERED JAN 31 1997 J B

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
SURFACE DEFORMATION			
8a MAP CRACKING (Number)			13
(Square Meters)			11
8b SCALING (Number)			0
(Square Meters)			0
9 POLISHED AGGREGATE (Square Meters)			0
10 POPOUTS (Number)			0
MISCELLANEOUS DISTRESSES			
11. BLOWUPS (Number)			0
12 FAULTING OF TRANSVERSE JOINTS AND CRACKS - REFER TO SHEET 6			
13 LANE-TO-SHOULDER DROPOFF - REFER TO SHEET 7			
14 LANE-TO-SHOULDER SEPARATION - REFER TO SHEET 7			
15 PATCH/PATCH DETERIORATION			
Flexible (Number)	14	3	0
(Square Meters)	47	13	0
Rigid (Number)	0	0	0
(Square Meters)	0	0	0
16 WATER BLEEDING AND PUMPING (Number of Occurrences)			0
Length Affected (Meters)			0

17. OTHER (Describe) _____

Revised May 29, 1992

STATE ASSIGNED ID _ _ _ _

SHEET 6

DISTRESS SURVEY

LTPP PROGRAM

STATE CODE 05

SHRP SECTION ID A602

ENTERED JAN 31 1997

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

12. FAULTING OF TRANSVERSE JOINTS AND CRACKS

Page 1 of 3

Point[1] Distance (Meters)	Joint or Crack (J/C)	Crack Length (Meters)	Well Sealed (Y/N)	Length of Spalling, m L	M	H	Faulting (mm)[2] 0.3m	0.75m
14	J	--	Y	0	0	0	0	0
61		--		0	0	0	0	0
107		--		0	06	0	0	0
152		--		0	04	0	2	1
199		--		0	03	0	1	2
245		--		0	02	0	0	1
291		--		0	0	09	1	2
335		--		0	04	0	2	2
381		--		0	0	0	1	1
428		--		0	09	0	2	3
472		--		0	0	0	2	2
518		--		0	0	0	2	0
563		--	Y	0	0	0	0	2
608		--		0	03	0	2	3
655		--		0	06	0	3	3
702		--		0	0	0	2	1
748		--		0	18	0	0	2
793		--		0	0	0	1	2
839		--		06	0	0	0	1
885		--		0	05	0	2	0
930		--		0	0	0	2	2
976		--		0	11	0	0	2
1022		--		02	0	0	0	2
1069		--		0	0	0	1	2
1113		--		0	0	0	1	1
1159		--		06	0	0	2	2
1205		--		0	0	0	2	1

Note 1. Point Distance is from the start of the test section to the measurement location.

Note 2 If the "approach" slab is higher than the "departure" slab, faulting is recorded as positive (+ or 0); if the "approach" slab is lower, record faulting as negative (-) and the minus sign must be used.

Revised May 29, 1992

STATE ASSIGNED ID _ _ _ _

SHEET 6

DISTRESS SURVEY

LTPP PROGRAM

STATE CODE 05

SHRP SECTION ID 4622

ENTERED JAN 31 1997

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

12. FAULTING OF TRANSVERSE JOINTS AND CRACKS

Page 2 of 3

Point[1] Distance (Meters)	Joint or Crack (J/C)	Crack Length (Meters)	Well Sealed (Y/N)	Length of Spalling, m L	M	H	Faulting (mm)[2] 0 3m	0 75m
1245	J	--	Y	-- 0	-- 0	-- 0	-- 0	-- 1
1296	-	--	Y	-- 0	-- 0	-- 0	-- 0	-- 0
1342	-	--	Y	-- 0	-- 0	-- 0	-- 0	-- 2
1388	-	--	Y	-- 0	-- 0	-- 0	-- 0	-- 1
1433	-	--	Y	-- 0	-- 0 4	-- 0	-- 2	-- 2
1478	-	--	Y	-- 0 3	-- 0	-- 0	-- 2	-- 1
1525	-	--	Y	-- 0	-- 0	-- 0	-- 0	-- 0
1570	-	--	Y	-- 0	-- 0	-- 0	-- 0	-- 0
1615	-	--	Y	-- 0	-- 0	-- 0 4	-- 0	-- 2
1661	-	--	Y	-- 0 2	-- 0	-- 0	-- 0	-- 3
1704	-	--	Y	-- 0 4	-- 0	-- 0	-- 0	-- 1
1753	-	--	Y	-- 0	-- 0	-- 0	-- 0	-- 2
1799	-	--	Y	-- 0 3	-- 0	-- 0	-- 1	-- 1
1844	-	--	Y	-- 0 2	-- 0	-- 0	-- 0	-- 0
1890	-	--	Y	-- 0	-- 0	-- 0 9	-- 0	-- 0
1936	-	--	Y	-- 0	-- 0	-- 0	-- 0	-- 0
1980	-	--	N	-- 0	-- 0	-- 0	-- 0	-- 1
2026	-	--	N	-- 0	-- 0	-- 0	-- 0	-- 2
2072	-	--	Y	-- 0	-- 0	-- 0	-- 0	-- 1
2119	-	--	Y	-- 0	-- 0	-- 0	-- 0	-- 2
2165	-	--	Y	-- 0 3	-- 0	-- 0	-- 0	-- 0
2210	-	--	Y	-- 0	-- 0	-- 0	-- 1	-- 0
2256	-	--	Y	-- 0	-- 0	-- 0	-- 0	-- 1
2303	-	--	Y	-- 0	-- 0	-- 0	-- 0	-- 1
2349	-	--	Y	-- 0	-- 0 3	-- 0	-- 0	-- 0
2394	-	--	N	-- 0	-- 0	-- 0	-- 0	-- 0
2439	-	--	Y	-- 0	-- 0	-- 0	-- 0	-- 0

Note 1 Point Distance is from the start of the test section to the measurement location.

Note 2. If the "approach" slab is higher than the "departure" slab, faulting is recorded as positive (+ or 0); if the "approach" slab is lower, record faulting as negative (-) and the minus sign must be used.

Revised April 23, 1993

SHEET 6

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 05

SHRP SECTION ID A602

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 09/12/96

SURVEYORS JED

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

12 FAULTING OF TRANSVERSE JOINTS AND CRACKS

Page 3 of 3

Point[1] Distance (Meters)	Joint or Crack (J/C)	Crack Length (Meters)	Well Sealed (Y/N)	Length of Joint Spalling, m L	M	H	Faulting[2] mm 0 3m	0 75m
2484	J	- -	Y	00	00	00	- - 2	- - 0
2529		- -		06	00	00	- - 1	- - 0
2575		- -		00	00	00	- - 0	- - 0
2620		- -		00	03	00	- - 0	- - 0
2667		- -		00	00	00	- - 0	- - 0
2712		- -		- -	- -	- -	- - 0	- - 0
2758		- -		- -	- -	- -	- - 0	- - 0
2804		- -		- -	- -	- -	- - 1	- - 1
2850		- -		- -	- -	- -	- - 0	- - 0
2897		- -		- -	- -	- -	- - 2	- - 2
2942		- -		- -	- -	- -	- - 1	- - 1
2987		- -		- -	- -	- -	- - 0	- - 0
3035		- -		- -	- -	- -	- - 0	- - 1
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Note 1 Point Distance is from the start of the test section to the measurement location

Note 2 If the "approach" slab is higher than the "departure" slab, faulting is recorded as positive (+ or 0), if the "approach" slab is lower, record faulting as negative (-) and the minus sign must be used

RECEIVED DEC 1 3 1996

Revised May 29, 1992

SHEET 4

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 05

SHRP SECTION ID A603

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 09/12/96

SURVEYORS JFD, _ _ _, _ _
PAVEMENT SURFACE TEMP - BEFORE _ _ 37°C, AFTER _ _ 36°C
PHOTOS, VIDEO, OR BOTH WITH SURVEY (P, V, B) B

DEC 19 1996 J B

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
CRACKING			
1 CORNER BREAKS (Number)	0	0	0
2. DURABILITY "D" CRACKING (Number of Affected Slabs)	0	0	0
AREA AFFECTED (Square Meters)	0	0	0
3 LONGITUDINAL CRACKING (Meters)	1727	0	0
Length Sealed (Meters)	1690	0	0
4 TRANSVERSE CRACKING (Number of Cracks)	0	0	0
(Meters)	0	0	0
Length Sealed (Meters)	0	0	0
JOINT DEFICIENCIES			
5a TRANSVERSE JOINT SEAL DAMAGE Sealed? (Y, N)			Y
If "Y" Number of Joints	32	0	0
5b LONGITUDINAL JOINT SEAL DAMAGE Number of Longitudinal Joints that have been sealed (0, 1, or 2)			2
Length of Damaged Sealant (Meters)			00
6 SPALLING OF LONGITUDINAL JOINTS (Meters)	0	0	0
7 SPALLING OF TRANSVERSE JOINTS Number of Affected Joints	0	11	2
Length Spalled (Meters)	0	74	11

Revised May 29, 1992

SHEET 5

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 0 5

SHRP SECTION ID A 6 0 3

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
SURFACE DEFORMATION			
8a. MAP CRACKING (Number) (Square Meters)			5 5 6 1/6
8b SCALING (Number) (Square Meters)			_ _ 0 / _ _ 0 _
9 POLISHED AGGREGATE (Square Meters)			_ _ 0 _
10 POPOUTS (Number)			_ _ 0 _
MISCELLANEOUS DISTRESSES			
11 BLOWUPS (Number)			_ _ 0
12 FAULTING OF TRANSVERSE JOINTS AND CRACKS - REFER TO SHEET 6			
13 LANE-TO-SHOULDER DROPOFF - REFER TO SHEET 7			
14 LANE-TO-SHOULDER SEPARATION - REFER TO SHEET 7			
15 PATCH/PATCH DETERIORATION			
Flexible (Number)	_ _ 2 1	_ _ 0	_ _ 0
Flexible (Square Meters)	_ _ 7 9	_ _ 0 _	_ _ 0 _
Rigid (Number)	_ _ 0	_ _ 0	_ _ 0
Rigid (Square Meters)	_ _ 0 _	_ _ 0 _	_ _ 0 _
16 WATER BLEEDING AND PUMPING (Number of Occurrences)			_ _ 0
Length Affected (Meters)			_ _ 0 _

17 OTHER (Describe) _____

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SHEET 6

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

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SHRP SECTION ID A 6 0 3

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DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

12. FAULTING OF TRANSVERSE JOINTS AND CRACKS

Page 1 of 1

Point[1] Distance (Meters)	Joint or Crack (J/C)	Crack Length (Meters)	Well Sealed (Y/N)	Length of Spalling, m L	M	H	Faulting (mm)[2] 0 3m	0 75m
28	J		Y	0	1	0	1	0
75	J		Y	0	0	0	1	1
121	J		Y	0	0 3	0	1	0
165	J		Y	0	0	0	1	2
213	J		Y	0	0 7	0	0	3
258	J		Y	0	0	0	1	2
303	J		Y	0	0	0	2	0
351	J		Y	0	0	0	1	3
395	J		Y	0	0	0	1	0
442	J		Y	0	0	0	2	2
485	J		Y	0	0	0	0	2
533	J		Y	0	1	0	0	0
578	J		Y	0	0	0	0	0
623	J		Y	0	0	0 3	0	0
670	J		Y	0	0	0 6	1	0
715	J		Y	0	0 3	0	2	1
760	J		Y	0	0	0	0	1
808	J		Y	0	0	0	1	2
854	J		Y	0	0	0	0	1
899	J		Y	0	0	0	2	1
945	J		Y	0	0	0	2	2
990	J		Y	0	0	0	2	2
1035	J			0	0 5	0	3	1
1080	J			0	0	0	0	2
1127	J			0	0 4	0	0	1
1173	J			0	0 5	0 5	2	2
1217	J			0	0	0	0	1
126.3	J		Y	0	0 3	0	0	2
130.9	J		Y	0	0 4	0	0	0

Note 1 Point Distance is from the start of the test section to the measurement location.

Note 2. If the "approach" slab is higher than the "departure" slab, faulting is recorded as positive (+ or 0); if the "approach" slab is lower, record faulting as negative (-) and the minus sign must be used.

135 5	J	Y	0	0	0	0	1
140.0	J	Y	0	0	0	0	1
144 5	J	Y	0	0	0	0	0
149 3	J	Y	0	0 8	0	0	0

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SHEET 4

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID ____

STATE CODE 05

SHRP SECTION ID A604

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 09/12/96

SURVEYORS JED, ___, ___
PAVEMENT SURFACE TEMP - BEFORE __36°C, AFTER __37°C
PHOTOS, VIDEO, OR BOTH WITH SURVEY (P, V, B) B

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
CRACKING			
1 CORNER BREAKS (Number)	__0	__0	__0
2 DURABILITY "D" CRACKING (Number of Affected Slabs)	__0	__0	__0
AREA AFFECTED (Square Meters)	__0_	__0_	__0_
3 LONGITUDINAL CRACKING (Meters)	1923	__0_	__0_
Length Sealed (Meters)	1882	__0_	__0_
4 TRANSVERSE CRACKING (Number of Cracks)	__0	__0	__0
(Meters)	__0_	__0_	__0_
Length Sealed (Meters)	__0_	__0_	__0_
JOINT DEFICIENCIES			
5a TRANSVERSE JOINT SEAL DAMAGE Sealed? (Y, N)			Y
If "Y" Number of Joints	33	__0	__0
5b LONGITUDINAL JOINT SEAL DAMAGE Number of Longitudinal Joints that have been sealed (0, 1, or 2)			2
Length of Damaged Sealant (Meters)			__02
6 SPALLING OF LONGITUDINAL JOINTS (Meters)	__0_	__0_	__0_
7 SPALLING OF TRANSVERSE JOINTS Number of Affected Joints	__0	__27	__01
Length Spalled (Meters)	__0_	__27	__05

Revised May 29, 1992

SHEET 5

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID ____

STATE CODE 05

SHRP SECTION ID A604

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
SURFACE DEFORMATION			
8a MAP CRACKING (Number)			
(Square Meters)			556 1/6
8b SCALING (Number)			
(Square Meters)			0
9 POLISHED AGGREGATE (Square Meters)			0
10 POPOUTS (Number)			0
MISCELLANEOUS DISTRESSES			
11 BLOWUPS (Number)			0
12 FAULTING OF TRANSVERSE JOINTS AND CRACKS - REFER TO SHEET 6			
13 LANE-TO-SHOULDER DROPOFF - REFER TO SHEET 7			
14 LANE-TO-SHOULDER SEPARATION - REFER TO SHEET 7			
15 PATCH/PATCH DETERIORATION			
Flexible			
(Number)	14	0	0
(Square Meters)	58	0	0
Rigid			
(Number)	0	0	0
(Square Meters)	0	0	0
16. WATER BLEEDING AND PUMPING (Number of Occurrences)			0
Length Affected (Meters)			0

17. OTHER (Describe) _____

Revised May 29, 1992

SHEET 6

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 05

SHRP SECTION ID 4604

ENTERED DEC 19 1996 J B

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DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

12 FAULTING OF TRANSVERSE JOINTS AND CRACKS

Page 1 of 1

Point[1] Distance (Meters)	Joint or Crack (J/C)	Crack Length (Meters)	Well Sealed (Y/N)	Length of Spalling, m L	M	H	Faulting (mm)[2] 0 3m	0 75m
26	J	--	Y	0	0	0	0	0
72	J	--	Y				0	0
118	J	--	Y				0	1
164	J	--	Y				0	1
210	J	--	Y				0	1
256	J	--	Y	0	0	0	0	0
302	J	--	Y	0	0.5	0	0	0
347	J	--	Y	0	0	0	0	0
394	J	--	Y	0	0	0	0	0
440	J	--	Y	0	0.4	0	0	1
486	J	--	Y	0	0	0	0	0
533	J	--	Y	0	0.3	0	0	0
577	J	--	Y	0	0	0	0	0
625	J	--	Y	0	0	0.5	0	0
669	J	--	Y	0	0	0	0	0
715	J	--	Y				0	0
760	J	--	Y				0	0
808	J	--	Y				0	0
854	J	--	Y				1	0
901	J	--	Y	0	0	0	0	0
943	J	--	Y	0	0.7	0	0	0
991	J	--	Y	0	0.3	0	0	0
1036	J	--	Y	0	0	0	0	0
1082	J	--	Y	0	0	0	0	0
1127	J	--	Y	0	0	0	0	1
1174	J	--	Y	0	0.3	0	0	0
1218	J	--	Y	0	0.5	0	0	1
126.5	J		Y	0	0	0	0	0
131.1	J		Y	0	0	0	1	0

Note 1. Point Distance is from the start of the test section to the measurement location

Note 2. If the "approach" slab is higher than the "departure" slab, faulting is recorded as positive (+ or 0), if the "approach" slab is lower, record faulting as negative (-) and the minus sign must be used.

135.8	J	Y	0	0	0	0	0
140.3	J	Y				0	2
144.9	J	Y				0	0
149.5	J	Y				0	2

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SHEET 4

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 05

SHRP SECTION ID A605

ENTERED JAN 3 1 1997 J F

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 09/12/96

SURVEYORS JED, _ _ _, _ _ _

PAVEMENT SURFACE TEMP - BEFORE _ _ 35 °C, AFTER _ _ 34 °C

PHOTOS, VIDEO, OR BOTH WITH SURVEY (P, V, B) B

96-32 64 56 35 212-32 1-5

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
CRACKING			
1 CORNER BREAKS (Number)	0	0	0
2 DURABILITY "D" CRACKING (Number of Affected Slabs)	0	0	0
AREA AFFECTED (Square Meters)	00	00	00
3 LONGITUDINAL CRACKING (Meters)	4863	00	00
Length Sealed (Meters)	4749	00	00
4 TRANSVERSE CRACKING (Number of Cracks)	0	0	0
(Meters)	00	00	00
Length Sealed (Meters)	00	00	00
JOINT DEFICIENCIES			
5a TRANSVERSE JOINT SEAL DAMAGE Sealed? (Y, N) If "Y" Number of Joints	65	2	4 / 0
5b LONGITUDINAL JOINT SEAL DAMAGE Number of Longitudinal Joints that have been sealed (0, 1, or 2)			2
Length of Damaged Sealant (Meters)			00
6 SPALLING OF LONGITUDINAL JOINTS (Meters)	0	0	0
7 SPALLING OF TRANSVERSE JOINTS Number of Affected Joints	0	8	2
Length Spalled (Meters)	00	38	08

425 406
51 3 51 3
30 5 30 5
35 2 35 2
30.5 21 0
36 4 36 4
70 7 70 7
61 0 61 0
67 0 67 0
61 2 61 2

00 2,10
00 0 0
102 5 20
00 1 03
00 1 03

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SHEET 5

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 05

SHRP SECTION ID 4605

ENTERED JAN 31 1997 J B

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
SURFACE DEFORMATION			
8a MAP CRACKING (Number)			1
(Square Meters)	305 x 365		113
8b SCALING (Number)			0
(Square Meters)			0
9 POLISHED AGGREGATE (Square Meters)			0
10 POPOUTS (Number)			0
MISCELLANEOUS DISTRESSES			
11 BLOWUPS (Number)			0
12. FAULTING OF TRANSVERSE JOINTS AND CRACKS - REFER TO SHEET 6			
13 LANE-TO-SHOULDER DROPOFF - REFER TO SHEET 7			
14 LANE-TO-SHOULDER SEPARATION - REFER TO SHEET 7			
15 PATCH/PATCH DETERIORATION			
Flexible (Number)	13	0	0
(Square Meters)	31	0	0
Rigid (Number)	0	0	0
(Square Meters)	0	0	0
16 WATER BLEEDING AND PUMPING (Number of Occurrences)			0
Length Affected (Meters)			0

17 OTHER (Describe) _____

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SHEET 6

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID ____

STATE CODE 05

SHRP SECTION ID 4605

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DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

12 FAULTING OF TRANSVERSE JOINTS AND CRACKS

Page 1 of 3

Point[1] Distance (Meters)	Joint or Crack (J/C)	Crack Length (Meters)	Well Sealed (Y/N)	Length of Spalling, m L	M	H	Faulting (mm)[2] 0.3m	0.75m
30	J			0	0	0	0	0
76	J						1	0
121	J						0	0
187							0	0
213							0	0
259							1	1
304							1	1
351							0	0
390				0	0	0	2	1
442				0	0	0 3	0	0
487				0	0	0	0	0
533							0	0
580							0	2
623							0	0
671							0	0
717				0	0	0	2	2
762				0	0 2	0	0	2
807				0	0	0	0	0
853							1	2
899							1	1
943							0	0
991							0	0
1036							0	0
1080							1	0
1127							1	0
1174							1	2
1218							0	0

Note 1 Point Distance is from the start of the test section to the measurement location.

Note 2. If the "approach" slab is higher than the "departure" slab, faulting is recorded as positive (+ or 0); if the "approach" slab is lower, record faulting as negative (-) and the minus sign must be used.

Revised May 29, 1992

SHEET 6

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 0 5

SHRP SECTION ID A 6 0 5

ENTERED JAN 31 1997 J B

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

12. FAULTING OF TRANSVERSE JOINTS AND CRACKS

Page 2 of 3

Point[1] Distance (Meters)	Joint or Crack (J/C)	Crack Length (Meters)	Well Sealed (Y/N)	Length of Spalling, m L	M	H	Faulting (mm)[2] 0.3m	0.75m
126.5	J	-.-	Y	0	0	0	0	0
131.1	-	-.-	-	-	-	-	0	0
135.8	-	-.-	-	-	-	-	0	0
140.1	-	-.-	-	-	-	-	0	0
144.6	-	-.-	-	-	-	-	1	1
149.2	-	-.-	-	-	-	-	1	0
153.9	-	-.-	-	-	-	-	0	0
158.5	-	-.-	-	-	-	-	0	1
163.1	-	-.-	-	0	0	0	0	0
167.6	-	-.-	-	0	0	0.4	0	0
172.1	-	-.-	-	0	0.3	0	0	0
176.8	-	-.-	-	0	0.6	0	0	3
181.2	-	-.-	-	0	0	0	1	1
185.8	-	-.-	-	-	-	-	1	1
190.1	-	-.-	-	-	-	-	1	1
195.1	-	-.-	-	-	-	-	4	4
199.8	-	-.-	-	-	-	-	1	0
204.2	-	-.-	Y	-	-	-	1	1
208.9	-	-.-	Y	-	-	-	0	1
213.3	-	-.-	Y	-	-	-	0	0
218.9	-	-.-	Y	-	-	-	0	0
222.6	-	-.-	Y	0	0	0	0	0
227.1	-	-.-	Y	0	0.3	0	0	0
230.8	-	-.-	-	0	0	0	0	0
236.2	-	-.-	-	0	0.4	0	0	1
240.3	-	-.-	-	0	1.0	0	0	1
245.3	-	-.-	-	0	0.3	0	0	0

Note 1. Point Distance is from the start of the test section to the measurement location.

Note 2. If the "approach" slab is higher than the "departure" slab, faulting is recorded as positive (+ or 0); if the "approach" slab is lower, record faulting as negative (-) and the minus sign must be used.

Revised April 23, 1993

SHEET 6

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID ____

STATE CODE 05

SHRP SECTION ID A605

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 09/12/96

SURVEYORS: SED.

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

12. FAULTING OF TRANSVERSE JOINTS AND CRACKS

Point[1] Distance (Meters)	Joint or Crack (J/C)	Crack Length (Meters)	Well Sealed (Y/N)	Length of Joint Spalling, m L	M	H	Faulting[2], mm 0.3m	0.75m
250.0	J	-.-	Y	0.0	0.0	0.0	0	0
254.5	J	-.-	J	-.-	-.-	-.-	-.-	-.-
259.0	J	-.-	J	-.-	-.-	-.-	-.-	-.-
263.7	J	-.-	J	-.-	-.-	-.-	-.-	-.-
268.3	J	-.-	J	-.-	-.-	-.-	-.-	-.-
272.9	J	-.-	J	-.-	-.-	-.-	-.-	-.-
276.9	J	-.-	J	-.-	-.-	-.-	-.-	-.-
282.0	J	-.-	J	0.0	0.0	0.0	-.-	0
286.5	J	-.-	J	0.0	0.3	0.0	-.-	1
290.1	J	-.-	J	0.0	0.0	0.0	-.-	1
295.7	J	-.-	J	-.-	-.-	-.-	-.-	1
300.2	J	-.-	J	-.-	-.-	-.-	-.-	0
304.8	J	-.-	J	-.-	-.-	-.-	-.-	2
-.-	-	-.-	-	-.-	-.-	-.-	-.-	0
-.-	-	-.-	-	-.-	-.-	-.-	-.-	-.-
-.-	-	-.-	-	-.-	-.-	-.-	-.-	-.-
-.-	-	-.-	-	-.-	-.-	-.-	-.-	-.-
-.-	-	-.-	-	-.-	-.-	-.-	-.-	-.-
-.-	-	-.-	-	-.-	-.-	-.-	-.-	-.-
-.-	-	-.-	-	-.-	-.-	-.-	-.-	-.-
-.-	-	-.-	-	-.-	-.-	-.-	-.-	-.-
-.-	-	-.-	-	-.-	-.-	-.-	-.-	-.-
-.-	-	-.-	-	-.-	-.-	-.-	-.-	-.-
-.-	-	-.-	-	-.-	-.-	-.-	-.-	-.-
-.-	-	-.-	-	-.-	-.-	-.-	-.-	-.-
-.-	-	-.-	-	-.-	-.-	-.-	-.-	-.-
-.-	-	-.-	-	-.-	-.-	-.-	-.-	-.-
-.-	-	-.-	-	-.-	-.-	-.-	-.-	-.-

Note 1. Point Distance is from the start of the test section to the measurement location.

Note 2. If the "approach" slab is higher than the "departure" slab, faulting is recorded as positive (+ or 0); if the "approach" slab is lower, record faulting as negative (-) and the minus sign must be used.

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Revised May 29, 1992

SHEET 4

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID ____

STATE CODE 05

SHRP SECTION ID A606

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 09/12/96

SURVEYORS JFD, ___, ___

PAVEMENT SURFACE TEMP - BEFORE 38 °C, AFTER 37 °C

PHOTOS, VIDEO, OR BOTH WITH SURVEY (P, V, B) B

ENTERED DEC 19 1996 J B

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
CRACKING			
1 CORNER BREAKS (Number)	0	0	0
2 DURABILITY "D" CRACKING (Number of Affected Slabs)	0	0	0
AREA AFFECTED (Square Meters)	0	0	0
3 LONGITUDINAL CRACKING (Meters)	1695	0	0
Length Sealed (Meters)	1661	0	0
4 TRANSVERSE CRACKING (Number of Cracks)	0	0	0
(Meters)	0	0	0
Length Sealed (Meters)	0	0	0
JOINT DEFICIENCIES			
5a TRANSVERSE JOINT SEAL DAMAGE Sealed? (Y, N)			Y
If "Y" Number of Joints	27	6	0
5b LONGITUDINAL JOINT SEAL DAMAGE Number of Longitudinal Joints that have been sealed (0, 1, or 2)			2
Length of Damaged Sealant (Meters)			00
6 SPALLING OF LONGITUDINAL JOINTS (Meters)	0	0	0
7 SPALLING OF TRANSVERSE JOINTS Number of Affected Joints	0	0	0
Length Spalled (Meters)	0	0	0

Revised May 29, 1992

SHEET 5

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 05

SHRP SECTION ID A606

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
SURFACE DEFORMATION			
8a MAP CRACKING (Number)			1
(Square Meters)			556
8b SCALING (Number)			0
(Square Meters)			0
9 POLISHED AGGREGATE (Square Meters)			0
10 POPOUTS (Number)			0
MISCELLANEOUS DISTRESSES			
11 BLOWUPS (Number)			0
12 FAULTING OF TRANSVERSE JOINTS AND CRACKS - REFER TO SHEET 6			
13 LANE-TO-SHOULDER DROPOFF - REFER TO SHEET 7			
14 LANE-TO-SHOULDER SEPARATION - REFER TO SHEET 7			
15 PATCH/PATCH DETERIORATION			
Flexible (Number)	10	0	0
(Square Meters)	40	0	0
Rigid (Number)	2	0	0
(Square Meters)	66	0	0
16 WATER BLEEDING AND PUMPING (Number of Occurrences)			0
Length Affected (Meters)			0

17. OTHER (Describe) _____

Revised May 29, 1992

SHEET 6

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 0 5

SHRP SECTION ID 4 6 0 6

ENTERED DEC 19 1996 J B

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

12 FAULTING OF TRANSVERSE JOINTS AND CRACKS

Page 1 of 1

Point[1] Distance (Meters)	Joint or Crack (J/C)	Crack Length (Meters)	Well Sealed (Y/N)	Length of Spalling, m L	M	H	Faulting (mm)[2] 0 3m	0 75m
28	J	--	Y	0	0	0	0	0
74	J	--	Y	--	--	--	0	1
120	J	--	Y	--	--	--	0	0
186	J	--	Y	--	--	--	0	0
211	J	--	Y	--	--	1	2	1
259	J	--	Y	0	0	0	0	1
303	J	--	Y	0	0.3	0	1	0
350	J	--	Y	0	0	0	1	0
395	J	--	Y	--	--	--	0	0
441	J	--	Y	--	--	--	0	0
488	J	--	Y	--	--	--	0	0
533	J	--	Y	--	--	--	0	1
579	J	--	Y	--	--	--	2	1
625	J	--	Y	--	--	--	1	2
671	J	--	Y	--	--	--	4	3
717	J	--	Y	--	--	--	1	3
763	J	--	Y	--	--	--	2	1
808	J	--	Y	--	--	--	2	1
855	J	--	Y	--	--	--	2	2
901	J	--	Y	--	--	--	0	0
945	J	--	Y	--	--	--	0	0
991	J	--	Y	0	0	0	0	0
1037	J	--	Y	0	0.5	0	-4	0
1084	J	--	Y	0	0	0	-2	-1
1129	J	--	Y	0	0	0	4	2
1171	J	--	Y	0	0	0	0	-1
1217	J	--	Y	0	0	0	5	5
126.6	J		Y	0	0	0.8	4	5
131.1	J		Y	0	0	0.5	3	5
135.8	J		Y	0	0	0	0	2
140.3	J		Y	0	0	0	1	2
145.0	J		Y	0	0.5	0	0	3
149.6	J		Y	0	0	0	0	0

Patch

Note 1 Point Distance is from the start of the test section to the measurement location.

Note 2 If the "approach" slab is higher than the "departure" slab, faulting is recorded as positive (+ or 0); if the "approach" slab is lower, record faulting as negative (-) and the minus sign must be used.

RECEIVED DEC 1 3 1996

Revised May 29, 1992

SHEET 4

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 05

SHRP SECTION ID 4607

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 09/12/96

SURVEYORS JFD, _ _ _, _ _ _
PAVEMENT SURFACE TEMP - BEFORE _ _ 34°C, AFTER _ _ 30°C 94F
PHOTOS, VIDEO, OR BOTH WITH SURVEY (P, V, B) B

ENTERED DEC 19 1996 J B

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
CRACKING			
1. CORNER BREAKS (Number)	0	0	0
2 DURABILITY "D" CRACKING (Number of Affected Slabs)	0	0	0
AREA AFFECTED (Square Meters)	0	0	0
3 LONGITUDINAL CRACKING (Meters)	1914	0	0
Length Sealed (Meters)	1901	0	0
4 TRANSVERSE CRACKING (Number of Cracks)	0	0	0
(Meters)	0	0	0
Length Sealed (Meters)	0	0	0
JOINT DEFICIENCIES			
5a TRANSVERSE JOINT SEAL DAMAGE Sealed? (Y, N)			Y
If "Y" Number of Joints	31	2	0
5b LONGITUDINAL JOINT SEAL DAMAGE Number of Longitudinal Joints that have been sealed (0, 1, or 2)			2
Length of Damaged Sealant (Meters)			0
6 SPALLING OF LONGITUDINAL JOINTS (Meters)	0	0	0
7 SPALLING OF TRANSVERSE JOINTS Number of Affected Joints	0	12	2
Length Spalled (Meters)	0	82	15

Revised May 29, 1992

SHEET 5

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 05

SHRP SECTION ID A607

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
SURFACE DEFORMATION			
8a MAP CRACKING (Number)			1
(Square Meters)			556
8b SCALING (Number)			0
(Square Meters)			0
9 POLISHED AGGREGATE (Square Meters)			0
10 POPOUTS (Number)			0
MISCELLANEOUS DISTRESSES			
11 BLOWUPS (Number)			0
12 FAULTING OF TRANSVERSE JOINTS AND CRACKS - REFER TO SHEET 6			
13 LANE-TO-SHOULDER DROPOFF - REFER TO SHEET 7			
14 LANE-TO-SHOULDER SEPARATION - REFER TO SHEET 7			
15 PATCH/PATCH DETERIORATION			
Flexible			
(Number)	7	0	0
(Square Meters)	26	0	
Rigid			
(Number)	0	0	0
(Square Meters)	0	0	0
16 WATER BLEEDING AND PUMPING (Number of Occurrences)			0
Length Affected (Meters)			0

17. OTHER (Describe) _____

Revised May 29, 1992

STATE ASSIGNED ID _ _ _ _

SHEET 6

STATE CODE 05

DISTRESS SURVEY

SHRP SECTION ID A607

LTPP PROGRAM

ENTERED DEC 19 1996 J B

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

Page 1 of 1

12. FAULTING OF TRANSVERSE JOINTS AND CRACKS

Point[1] Distance (Meters)	Joint or Crack (J/C)	Crack Length (Meters)	Well Sealed (Y/N)	Length of Spalling, m L	M	H	Faulting (mm)[2] 0 3m	0 75m
-- 2	J	--	Y	-- 0	-- 0	-- 0	-- 1	-- 0
-- 78	J	--	Y	-- 0	-- 0	-- 0	-- 2	-- 0
-- 124	J	--	Y	-- 0	-- 0.5	-- 0	-- 1	-- 0
-- 170	J	--	Y	-- 0	-- 0.5	-- 0	-- -2	-- 0
-- 213	J	--	Y	-- 0	-- 0.5	-- 0	-- 0	-- 0
-- 261	J	--	Y	-- 0	-- 0	-- 0	-- 0	-- 0
-- 306	J	--	Y	-- 0	-- 0	-- 0	-- 0	-- 0
-- 355	J	--	Y	-- 0	-- 0	-- 0	-- 0	-- 0
-- 399	J	--	Y	-- 0	-- 0	-- 0	-- 0	-- 1
-- 446	J	--	Y	-- 0	-- 0	-- 0.5	-- 0	-- 0
-- 491	J	--	Y	-- 0	-- 0	-- 0	-- 0	-- 0
-- 538	J	--	Y	-- 0	-- 0.6	-- 0	-- 1	PATCH
-- 584	J	--	Y	-- 0	-- 1.0	-- 0	-- 0	-- 0
-- 630	J	--	Y	-- 0	-- 0	-- 0	-- 0	-- 0
-- 674	J	--	Y	-- 0	-- 0.8	-- 0.9	-- 0	-- 0
-- 720	J	--	Y	-- 0	-- 0.2	-- 0	-- 1	-- 0
-- 765	J	--	Y	-- 0	-- 0	-- 0	-- 0	-- 0
-- 813	J	--	Y	-- 0	-- 0	-- 0	-- 0	-- 0
-- 857	J	--	Y	-- 0	-- 0	-- 0	-- 1	-- 0
-- 905	J	--	Y	-- 0	-- 0.6	-- 0	-- 0	-- 0
-- 947	J	--	Y	-- 0	-- 0.4	-- 0	-- 1	-- 2
-- 993	J	--	Y	-- 0	-- 0	-- 0	-- 0	-- 1
1039	J	--	Y	-- 0	-- 0	-- 0	-- 0	-- 1
1085	J	--	Y	-- 0	-- 0.3	-- 0	-- 0	-- 1
1131	J	--	Y	-- 0	-- 0	-- 0	-- 0	-- 0
1178	J	--	Y	-- 0	-- 0.7	-- 0	-- 1	-- 0
1222	J	--	Y	-- 0	-- 0.4	-- 0	-- 1	-- 0
1266	J		Y	0	0	0	0	0
1311.3	J		Y	0	1.3	0	0	0

Note 1 Point Distance is from the start of the test section to the measurement location

Note 2. If the "approach" slab is higher than the "departure" slab, faulting is recorded as positive (+ or 0); if the "approach" slab is lower, record faulting as negative (-) and the minus sign must be used

136.0	J	Y	0	0	0	0	0
140.5	J	Y	J	J	J	1	0
145.2	J	Y	J	J	J	0	0
149.9	J	Y	J	J	J	1	1

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Revised May 29, 1992

SHEET 4

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID ____

STATE CODE 05

SHRP SECTION ID A608

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 09/12/96

SURVEYORS JED, ___, ___

PAVEMENT SURFACE TEMP - BEFORE __ 37°C, AFTER __ 34°C

PHOTOS, VIDEO, OR BOTH WITH SURVEY (P, V, B) B

ENTERED DEC 19 1996 J B

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
CRACKING			
1 CORNER BREAKS (Number)	0	0	0
2 DURABILITY "D" CRACKING (Number of Affected Slabs)	0	0	0
AREA AFFECTED (Square Meters)	0	0	0
3 LONGITUDINAL CRACKING (Meters)	1672	0	0
Length Sealed (Meters)	1672	0	0
4 TRANSVERSE CRACKING (Number of Cracks)	0	0	0
(Meters)	0	0	0
Length Sealed (Meters)	0	0	0
JOINT DEFICIENCIES			
5a TRANSVERSE JOINT SEAL DAMAGE Sealed? (Y, N)			Y
If "Y" Number of Joints	26	7	0
5b LONGITUDINAL JOINT SEAL DAMAGE Number of Longitudinal Joints that have been sealed (0, 1, or 2)			2
Length of Damaged Sealant (Meters)			00
6 SPALLING OF LONGITUDINAL JOINTS (Meters)	0	0	0
7 SPALLING OF TRANSVERSE JOINTS Number of Affected Joints	0	4	5
Length Spalled (Meters)	0	30	42

Revised May 29, 1992

SHEET 5

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 05

SHRP SECTION ID A608

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
SURFACE DEFORMATION			
8a MAP CRACKING (Number)			
(Square Meters)			5566
8b SCALING (Number)			0
(Square Meters)			0
9 POLISHED AGGREGATE (Square Meters)			0
10 POPOUTS (Number)			0
MISCELLANEOUS DISTRESSES			
11 BLOWUPS (Number)			0
12 FAULTING OF TRANSVERSE JOINTS AND CRACKS - REFER TO SHEET 6			
13 LANE-TO-SHOULDER DROPOFF - REFER TO SHEET 7			
14 LANE-TO-SHOULDER SEPARATION - REFER TO SHEET 7			
15 PATCH/PATCH DETERIORATION			
Flexible (Number)	14	0	0
(Square Meters)	30	0	0
Rigid (Number)	0	0	0
(Square Meters)	0	0	0
16 WATER BLEEDING AND PUMPING (Number of Occurrences)			0
Length Affected (Meters)			0

17 OTHER (Describe) _____

Revised May 29, 1992

SHEET 6

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 05

SHRP SECTION ID 4608

ENTERED DEC 19 1996 J B

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

12. FAULTING OF TRANSVERSE JOINTS AND CRACKS

Page 1 of 2

back →

Point[1] Distance (Meters)	Joint or Crack (J/C)	Crack Length (Meters)	Well Sealed (Y/N)	Length of Spalling, m L	M	H	Faulting (mm)[2] 0.3m	0.75m
20	J		Y	0	0	0.7	1	0
66	J		Y	0	0	0	2	1
112	J		Y				1	2
177	J		Y				0	0
205	J		Y				3	0
251	J		Y				0	1
296	J		Y				2	2
341	J		Y				1	0
387	J		Y				0	0
433	J		Y				0	0
480	J		Y				2	0
525	J		Y				0	2
571	J		Y				2	2
616	J		Y				0	1
662	J		Y				2	2
707	J		Y				2	0
754	J		Y				0	0
800	J		Y				0	1
846	J		Y	0	0	0	1	0
891	J		Y	0	0	.5	1	2
936	J		Y	0	0	0.7	0	0
988	J		Y	0	0	0	1	1
1029	J		Y	0	0.5	0	1	2
1074	J		Y	0	0	0.5	1	2
1120	J		Y	0	1.5	0	2	2
1166	J		Y	0	0	0	2	2
1212	J		Y	0	0	0	2	2

Same for next page

Note 1 Point Distance is from the start of the test section to the measurement location

Note 2 If the "approach" slab is higher than the "departure" slab, faulting is recorded as positive (+ or 0), if the "approach" slab is lower, record faulting as negative (-) and the minus sign must be used

Revised April 23, 1993

STATE ASSIGNED ID _ _ _ _

SHEET 6

STATE CODE 0 5

DISTRESS SURVEY

SHRP SECTION ID A 6 0 8

LTPP PROGRAM

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 09/13/96

SURVEYORS J F D. _ _ _

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

12 FAULTING OF TRANSVERSE JOINTS AND CRACKS

Point[1] Distance (Meters)	Joint or Crack (J/C)	Crack Length (Meters)	Well Sealed (Y/N)	Length of Joint Spalling, m L	M	H	Faulting[2], mm 0 3m	0 75m
1257	J	- -	Y	0 0	0 7	0 0	- - 1	- - 1
1303		- -		0 0	0 3	0 0	- - 2	- - 2
1350		- -		0 0	0 0	1 6	- - 2	- - 2
1395		- -		0 0	0 0	0 0	- - 2	- - 2
1441		- -		0 0	0 0	0 0	- - 2	- - 2
1488		- -		0 0	0 0	0 0	- - 2	- - 2
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Note 1 Point Distance is from the start of the test section to the measurement location

Note 2 If the "approach" slab is higher than the "departure" slab, faulting is recorded as positive (+ or 0), if the "approach" slab is lower, record faulting as negative (-) and the minus sign must be used

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SHEET 4

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID

STATE CODE 05

SHRP SECTION ID A601

REVIEWED OCT 09 1997

REVIEWED OCT 09 1997

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 10/02/97

SURVEYORS TJM, ZWO,

PAVEMENT SURFACE TEMP - BEFORE 34°C, AFTER 37°C

PHOTOS, VIDEO, OR BOTH WITH SURVEY (P, V, B) B

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
CRACKING			
1 CORNER BREAKS (Number)	2	0	0
2 DURABILITY "D" CRACKING (Number of Affected Slabs)	0	0	0
AREA AFFECTED (Square Meters)	0	0	0
3 LONGITUDINAL CRACKING (Meters)	1373	133	63
Length Sealed (Meters)	1278	118	37
4 TRANSVERSE CRACKING (Number of Cracks)	0	2	0
(Meters)			
Length Sealed (Meters)			
JOINT DEFICIENCIES			
5a TRANSVERSE JOINT SEAL DAMAGE Sealed? (Y, N)			Y
If "Y" Number of Joints	34	0	0
5b LONGITUDINAL JOINT SEAL DAMAGE Number of Longitudinal Joints that have been sealed (0, 1, or 2)			1
Length of Damaged Sealant (Meters)			00
6 SPALLING OF LONGITUDINAL JOINTS (Meters)	0	0	0
7 SPALLING OF TRANSVERSE JOINTS Number of Affected Joints	5	5	0
Length Spalled (Meters)	73	50	00

Revised May 29, 1992

SHEET 5

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 0 5

SHRP SECTION ID A 6 0 1

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 1 0 / 0 2 / 9 7

SURVEYORS Z W O, I J M

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
SURFACE DEFORMATION			
8a MAP CRACKING (Number)			
(Square Meters)			5 5 2 1/9
8b SCALING (Number)			_ _ 0 _
(Square Meters)			_ _ 0 _
9 POLISHED AGGREGATE (Square Meters)			_ _ 0 _
10 POPOUTS (Number per Square Meter)			_ _ 0 _
MISCELLANEOUS DISTRESSES			
11 BLOWUPS (Number)			_ 0 _
12 FAULTING OF TRANSVERSE JOINTS AND CRACKS - REFER TO SHEET 6			
13 LANE-TO-SHOULDER DROPOFF - REFER TO SHEET 7			
14 LANE-TO-SHOULDER SEPARATION - REFER TO SHEET 7			
15 PATCH/PATCH DETERIORATION			
Flexible			
(Number)	_ _ 1	_ _ 1	_ _ 1
(Square Meters)	_ _ 0 2	_ _ 0 5	_ _ 0 3
Rigid			
(Number)	_ _ 7	_ _ 0	_ _ 0
(Square Meters)	_ 7 0 4	_ _ 0 0	_ _ 0 0
16 WATER BLEEDING AND PUMPING			
(Number of Occurrences)			_ 0 _
Length Affected (Meters)			_ _ 0 _

17 OTHER (Describe) _____

Revised April 23, 1993

SHEET 6

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 0 5

SHRP SECTION ID 4 6 0 1

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 1 0 / 0 2 / 9 7

SURVEYORS [illegible]

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

12 FAULTING OF TRANSVERSE JOINTS AND CRACKS

Page 1 of 2

Point[1] Distance (Meters)	Joint or Crack (J/C)	Crack Length (Meters)	Well Sealed (Y/N)	Length of Joint Spalling, m L	M	H	Faulting[2], mm 0 3m	0 75m
02	J		Y	0	0	0	0	0
43							0	3
94							0	0
140							0	0
196							0	2
231					0		0	0
277						0	0	0
323							0	0
369				1	0	0	0	-1
415					1	0	0	-1
461							0	2
507							0	1
553							0	1
599							0	0
645							0	[illegible]
691							0	[illegible]
737							0	0
783							0	0
829							0	0
875							0	0
921							0	0
967				3	7	0	0	0
1013					0	0	0	0
1059					0	0	0	2
1105					0	0	0	0
1151				1	5	0	0	-1
1197				0	6	0	0	0
1243	J		Y		0	0	0	0

Note 1 Point Distance is from the start of the test section to the measurement location

Note 2 If the "approach" slab is higher than the "departure" slab, faulting is recorded as positive (+ or 0), if the "approach" slab is lower, record faulting as negative (-) and the minus sign must be used

Revised April 23, 1993

SHEET 6

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 2 5

SHRP SECTION ID A 6 0 1

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 1 0/0 2/9 7

SURVEYORS [illegible]

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

12 FAULTING OF TRANSVERSE JOINTS AND CRACKS

Page 2 of 2

Point[1] Distance (Meters)	Joint or Crack (J/C)	Crack Length (Meters)	Well Sealed (Y/N)	Length of Joint Spalling, m L	M	H	Faulting[2], mm 0 3m	0 75m
1240	J	--	Y	-0	-0	-0	--0	--0
1286	J	--	J	05	-0	-0	--0	--0
1331	J	--	J	-0	20	-0	--0	--0
1378	J	--	J	-0	04	-0	--0	--0
1423	J	--	J	-1	-0	-1	--0	--0
1470	J	--	J	-1	-1	-1	--0	--0
1515	J	--	J	-1	-1	-1	--0	--0
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Note 1 Point Distance is from the start of the test section to the measurement location

Note 2 If the "approach" slab is higher than the "departure" slab, faulting is recorded as positive (+ or 0), if the "approach" slab is lower, record faulting as negative (-) and the minus sign must be used

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STATE ASSIGNED ID _ _ _ _

SHEET 4

DISTRESS SURVEY

LTPP PROGRAM

STATE CODE 0 5

SHRP SECTION ID A 6 0 2

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 10/02/97

SURVEYORS: TJM, ZWD, _ _ _
PAVEMENT SURFACE TEMP - BEFORE _ _ 25°C; AFTER _ _ 33°C
PHOTOS, VIDEO, OR BOTH WITH SURVEY (P, V, B) B

REVIEWED OCT 09 1997 J D

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
CRACKING			
1. CORNER BREAKS (Number)	0	0	0
2. DURABILITY "D" CRACKING (Number of Affected Slabs)	0	0	0
AREA AFFECTED (Square Meters)	0.0	0.0	0.0
3. LONGITUDINAL CRACKING (Meters)	389.2	7.0	0.0
Length Sealed (Meters)	271.4	1.0	0.0
4. TRANSVERSE CRACKING (Number of Cracks)	0	0	0
(Meters)	0.0	0.0	0.0
Length Sealed (Meters)	0.0	0.0	0.0
JOINT DEFICIENCIES			
5a. TRANSVERSE JOINT SEAL DAMAGE Sealed? (Y, N) If "Y" Number of Joints	80	3	Y 1
5b. LONGITUDINAL JOINT SEAL DAMAGE Number of Longitudinal Joints that have been sealed (0, 1, or 2)			0
Length of Damaged Sealant (Meters)			0.0
6. SPALLING OF LONGITUDINAL JOINTS (Meters)	0.0	0.0	0.0
7. SPALLING OF TRANSVERSE JOINTS Number of Affected Joints	4	4	0
Length Spalled (Meters)	3.0	3.2	0.0

Revised May 29, 1992

SHEET 5

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 0 5

SHRP SECTION ID 4 6 0 2

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 1 0 / 0 2 / 9 7

SURVEYORS: T J M, 2 W D

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
SURFACE DEFORMATION			
8a. MAP CRACKING (Number)			
(Square Meters)			1 0 3 7.3
8b. SCALING (Number)			0
(Square Meters)			_ _ _
9. POLISHED AGGREGATE (Square Meters)			0
10. POPOUTS (Number per Square Meter)			_ _ _ _
MISCELLANEOUS DISTRESSES			
11. BLOWUPS (Number)			_ _ _
12. FAULTING OF TRANSVERSE JOINTS AND CRACKS - REFER TO SHEET 6			
13. LANE-TO-SHOULDER DROPOFF - REFER TO SHEET 7			
14. LANE-TO-SHOULDER SEPARATION - REFER TO SHEET 7			
15. PATCH/PATCH DETERIORATION			
Flexible (Number)	0	0	0
(Square Meters)	_ _ _	_ _ _	_ _ _
Rigid (Number)	4 6	0	0
(Square Meters)	9 8.9	_ _ _	_ _ _
16. WATER BLEEDING AND PUMPING (Number of Occurrences)			0
Length Affected (Meters)			0

17. OTHER (Describe) _____

Revised April 23, 1993

SHEET 6

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 0 5

SHRP SECTION ID A 6 0 2

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 10/02/97

SURVEYORS ZWD, TJM

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

12 FAULTING OF TRANSVERSE JOINTS AND CRACKS

Page 1 of 4

Point[1] Distance (Meters)	Joint or Crack (J/C)	Crack Length (Meters)	Well Sealed (Y/N)	Length of Joint Spalling, m L	M	H	Faulting[2], mm 0 3m	0 75m
14	J		Y	0	0	0	0	1
61							0	0
107							0	0
143							-1	0
152			N				0	0
162			Y				3	3
199							0	-1
245							0	-2
287							0	-1
291							0	0
304							2	0
336							1	2
338							0	-1
418							-1	-2
428							0	0
438							1	2
473							0	1
520							0	0
555							0	0
565							0	0
575							2	3
601							0	0
611			N				0	0
621			Y				0	3
648							-5	-3
657							-1	-1
667							6	2

Note 1 Point Distance is from the start of the test section to the measurement location

Note 2 If the "approach" slab is higher than the "departure" slab, faulting is recorded as positive (+ or 0), if the "approach" slab is lower, record faulting as negative (-) and the minus sign must be used

Revised April 23, 1993

SHEET 6

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 05

SHRP SECTION ID A602

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 10/02/97

SURVEYORS JM, ZWO

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

12 FAULTING OF TRANSVERSE JOINTS AND CRACKS

Point[1] Distance (Meters)	Joint or Crack (J/C)	Crack Length (Meters)	Well Sealed (Y/N)	Length of Joint Spalling, m L	M	H	Faulting[2], mm 0.3m	0.75m
694	J		Y	0	0	0	1	0
704							0	0
714							2	-1
740							0	0
750							0	0
759							2	1
796							0	0
841							0	0
887							0	0
932			N				0	0
968			Y				-1	0
978			N				0	0
988			Y				2	1
1023			Y				0	0
1060			N				-3	-1
1070			Y				0	0
1080							3	1
1116							0	0
1167							0	1
1207							0	0
1253							0	0
1299							0	0
1345							0	-1
1391							0	0
1436							0	0
1481							-1	0
1532							1	0

Note 1 Point Distance is from the start of the test section to the measurement location

Note 2 If the "approach" slab is higher than the "departure" slab, faulting is recorded as positive (+ or 0), if the "approach" slab is lower, record faulting as negative (-) and the minus sign must be used

Revised April 23, 1993

SHEET 6

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 0 5

SHRP SECTION ID A 6 0 2

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 1 0 / 0 2 / 1 7

SURVEYORS T J M, 2 W D

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

12 FAULTING OF TRANSVERSE JOINTS AND CRACKS

Page 3 of 4

Point[1] Distance (Meters)	Joint or Crack (J/C)	Crack Length (Meters)	Well Sealed (Y/N)	Length of Joint Spalling, m L	M	H	Faulting[2], mm 0 3m	0 75m
1578	J	--	L	00	05	00	-- 0	-- 0
1624		--		- -	00	- -	-- 0	-- 0
1670		--		- -	- -	- -	-- 0	-- 0
1716		--		- -	- -	- -	-- 0	-- 1
1761		--		- -	- -	- -	-- 0	-- 0
1807		--		- -	- -	- -	-- 0	-- 0
1853		--		- -	07	- -	-- 0	-- 0
1899		--		- -	00	- -	-- -2	-- -1
1940		--		- -	- -	- -	-- 0	-- 0
1970		--		- -	- -	- -	-- 3	-- 2
1990	-	--		04	- -	- -	-- 0	-- 0
1991		--		00	- -	- -	-- 0	-- 1
2037		--		- -	- -	- -	-- 0	-- 0
2083		--		- -	- -	- -	-- 0	-- 0
2128		--		- -	- -	- -	-- 0	-- 0
2175		--		- -	- -	- -	-- 0	-- 0
2220		--		03	- -	- -	-- 0	-- 0
2266		--		00	- -	- -	-- 0	-- 0
2312		--		- -	- -	- -	-- 0	-- 3
2358		--		- -	- -	- -	-- 0	-- 2
2404		--		- -	- -	- -	-- 0	-- 0
2450		--		- -	- -	- -	-- 0	-- 2
2496		--		30	- -	- -	-- 0	-- 0
2541		--		10	- -	- -	-- 1	-- 0
2586		--		12	- -	- -	-- 0	-- 0
2614		--		00	- -	- -	-- 0	-- 0
2634		--		00	- -	- -	-- 1	-- 1

Note 1 Point Distance is from the start of the test section to the measurement location

Note 2 If the "approach" slab is higher than the "departure" slab, faulting is recorded as positive (+ or 0), if the "approach" slab is lower, record faulting as negative (-) and the minus sign must be used

Revised April 23, 1993

SHEET 6

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 0 5

SHRP SECTION ID A 6 0 2

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 1 0 / 0 2 / 9 7

SURVEYORS T J M, Z W D

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

12 FAULTING OF TRANSVERSE JOINTS AND CRACKS

Point[1] Distance (Meters)	Joint or Crack (J/C)	Crack Length (Meters)	Well Sealed (Y/N)	Length of Joint Spalling, m L	M	H	Faulting[2], mm 0 3m	0 75m
2680	J	- -	Y	0 -	0 -	0 -	- - 0	- - 0
2725		- -		- -	0 3	- -	- - 0	- - 0
2770		- -		- -	0 0	- -	- - 2	- - 2
2816		- -		- -	0 6	- -	- - 0	- - 0
2862		- -		- -	0 0	- -	- - 0	- - 0
2899		- -		- -	- -	- -	- - -1	- - 2
2913		- -		- -	- -	- -	- - 3	- - 2
2954		- -		- -	- -	- -	- - 2	- - 2
3200		- -		- -	- -	- -	- - 2	- - 2
3045		- -		1 0	- -	- -	- - 0	- - 0
- - - -	-	- -	-	- -	- -	- -	- - -	- - -
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Note 1 Point Distance is from the start of the test section to the measurement location

Note 2 If the "approach" slab is higher than the "departure" slab, faulting is recorded as positive (+ or 0), if the "approach" slab is lower, record faulting as negative (-) and the minus sign must be used

F RECEIVED OCT - 3 1997

Revised December 1, 1992

SHEET 1

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 0 5

SHRP SECTION ID A 6 0 3

REVIEWED OCT 0 9 1997 J D

REVIEWED OCT 0 9 1997 M J

DISTRESS SURVEY FOR PAVEMENTS WITH ASPHALT CONCRETE SURFACES

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 1 0/0 1/9 7

SURVEYORS Y J M, Z W D PHOTOS, VIDEO, OR BOTH WITH SURVEY (P, V, (B)) E
PAVEMENT SURFACE TEMP - BEFORE _ _ 2 8°C, AFTER _ _ 2 7°C

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
CRACKING			
1 FATIGUE CRACKING (Square Meters)	0	0	0
2 BLOCK CRACKING (Square Meters)			
3 EDGE CRACKING (Meters)			
4 LONGITUDINAL CRACKING (Meters)			
4a Wheel Path			
Length Sealed (Meters)			
4b Non-Wheel Path			
Length Sealed (Meters)			
5 REFLECTION CRACKING AT JOINTS Number of Transverse Cracks			
Transverse Cracking (Meters)			
Length Sealed (Meters)			
Longitudinal Cracking (Meters)			
Length Sealed (Meters)			
6 TRANSVERSE CRACKING Number of Cracks			
Length (Meters)			
Length Sealed (Meters)			
PATCHING AND POTHOLES			
7 PATCH/PATCH DETERIORATION (Number)			
(Square Meters)			
8 Potholes (Number)	✓	✓	✓
(Square Meters)			

Revised December 1 1992

STATE ASSIGNED ID _ _ _ _

SHEET 2

DISTRESS SURVEY

LTPP PROGRAM

STATE CODE 0 5

SHRP SECTION ID A 6 0 3

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 1 0 / 0 1 / 9 7

SURVEYORS T T M. Z W D

DISTRESS SURVEY FOR PAVEMENTS WITH ASPHALT CONCRETE SURFACES (CONTINUED)

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
SURFACE DEFORMATION			
9 RUTTING - REFER TO SHEET 3 FOR SPS-3 OR Form S1 from Distress Manual			
10 SHOVING (Number)			0
(Square Meters)			
SURFACE DEFECTS			
11 BLEEDING (Square Meters)	0	0	
12 POLISHED AGGREGATE (Square Meters)			
13 RAVELING (Square Meters)	0	0	
MISCELLANEOUS DISTRESSES			
14 LANE-TO-SHOULDER DROPOFF - REFER TO SHEET 3			
15 WATER BLEEDING AND PUMPING (Number)			
Length of Affected Pavement (Meters)			0

16 OTHER (Describe) _____

RECEIVED OCT - 3 1997

Revised December 1, 1992

SHEET 1

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID

STATE CODE 05

SHRP SECTION ID A604

DISTRESS SURVEY FOR PAVEMENTS WITH ASPHALT CONCRETE SURFACES

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 10/01/97

SURVEYORS TJM, RWD PHOTOS, VIDEO, OR BOTH WITH SURVEY (P, V, B) B

PAVEMENT SURFACE TEMP - BEFORE 28°C, AFTER 28°C

REVIEWED OCT 09 1997

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
CRACKING			
1 FATIGUE CRACKING (Square Meters)	0	0	0
2 BLOCK CRACKING (Square Meters)			
3 EDGE CRACKING (Meters)			
4 LONGITUDINAL CRACKING (Meters)			
4a Wheel Path Length Sealed (Meters)			
4b Non-Wheel Path Length Sealed (Meters)			
5 REFLECTION CRACKING AT JOINTS Number of Transverse Cracks	33	0	0
Transverse Cracking (Meters)	1 2 2 1	0	0
Length Sealed (Meters)	1 2 2 1	0	0
Longitudinal Cracking (Meters)	0	0	0
Length Sealed (Meters)	0	0	0
6 TRANSVERSE CRACKING Number of Cracks			
Length (Meters)			
Length Sealed (Meters)			
PATCHING AND POTHOLES			
7 PATCH/PATCH DETERIORATION (Number)			
(Square Meters)			
8 Potholes (Number)			
(Square Meters)	✓	✓	✓

Revised December 1 1992

SHEET 2

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 0 5

SHRP SECTION ID A 6 0 4

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 1 0 / 0 1 / 9 7

SURVEYORS T I M. Z W D

DISTRESS SURVEY FOR PAVEMENTS WITH ASPHALT CONCRETE SURFACES (CONTINUED)

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
SURFACE DEFORMATION			
9 RUTTING - REFER TO SHEET 3 FOR SPS-3 OR Form S1 from Distress Manual			
10 SHOVING (Number)			0
(Square Meters)			0
SURFACE DEFECTS			
11 BLEEDING (Square Meters)	0	0	
12 POLISHED AGGREGATE (Square Meters)			
13 RAVELING (Square Meters)	0	0	
MISCELLANEOUS DISTRESSES			
14 LANE-TO-SHOULDER DROPOFF - REFER TO SHEET 3			
15 WATER BLEEDING AND PUMPING (Number)			
Length of Affected Pavement (Meters)			0

16 OTHER (Describe) _____

RECEIVED OCT - 3 1997

Revised May 29, 1992

SHEET 4

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID

STATE CODE 05

SHRP SECTION ID A605

REVIEWED OCT 09 1997 D M
REVIEWED OCT 09 1997 J D

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 10/02/97

SURVEYORS TJM, ZWD,
PAVEMENT SURFACE TEMP - BEFORE 18°C, AFTER 22°C
PHOTOS, VIDEO, OR BOTH WITH SURVEY (P, V, B) B

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
CRACKING			
1 CORNER BREAKS (Number)	0	0	0
2 DURABILITY "D" CRACKING (Number of Affected Slabs)	0	0	0
AREA AFFECTED (Square Meters)	0	0	0
3 LONGITUDINAL CRACKING (Meters)	2020	1695	130
Length Sealed (Meters)	00	00	00
4 TRANSVERSE CRACKING (Number of Cracks)	0	1	0
(Meters)		04	
Length Sealed (Meters)		00	
JOINT DEFICIENCIES			
5a TRANSVERSE JOINT SEAL DAMAGE Sealed? (Y, N)			Y
If "Y" Number of Joints	76	3	0
5b LONGITUDINAL JOINT SEAL DAMAGE Number of Longitudinal Joints that have been sealed (0, 1, or 2)			1
Length of Damaged Sealant (Meters)			02
6 SPALLING OF LONGITUDINAL JOINTS (Meters)	0	0	0
7 SPALLING OF TRANSVERSE JOINTS Number of Affected Joints	2	1	0
Length Spalled (Meters)	13	05	02

Revised May 29, 1992

SHEET 5

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 0 5

SHRP SECTION ID A 6 0 5

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 1 0 / 0 2 / 9 7

SURVEYORS T J M, Z W D

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
SURFACE DEFORMATION			
8a MAP CRACKING (Number)			0
(Square Meters)			0
8b SCALING (Number)			0
(Square Meters)			0
9 POLISHED AGGREGATE (Square Meters)			0
10 POPOUTS (Number per Square Meter)			0
MISCELLANEOUS DISTRESSES			
11 BLOWUPS (Number)			0
12 FAULTING OF TRANSVERSE JOINTS AND CRACKS - REFER TO SHEET 6			
13 LANE-TO-SHOULDER DROPOFF - REFER TO SHEET 7			
14 LANE-TO-SHOULDER SEPARATION - REFER TO SHEET 7			
15 PATCH/PATCH DETERIORATION			
Flexible (Number)	0	0	0
(Square Meters)	0	0	0
Rigid (Number)	55	0	0
(Square Meters)	849	00	00
16. WATER BLEEDING AND PUMPING (Number of Occurrences)			0
Length Affected (Meters)			0

17 OTHER (Describe) _____

Revised April 23, 1993

SHEET 6

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 0 5

SHRP SECTION ID A 6 0 5

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 1 0 / 0 2 / 9 7

SURVEYORS [illegible]

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

12 FAULTING OF TRANSVERSE JOINTS AND CRACKS

Page 1 of 3

Point[1] Distance (Meters)	Joint or Crack (J/C)	Crack Length (Meters)	Well Sealed (Y/N)	Length of Joint Spalling, m L	M	H	Faulting[2], mm 0.3m	0.75m
30	J	--	Y	00	00	00	3	0
76		--		-	-	-	0	0
122		--		-	-	-	0	0
168		--		-	-	-	0	0
214		--		-	↓	-	0	1
260		--		-	05	-	-1	0
306		--		-	00	-	0	0
351		--		-	-	-	0	0
397		--		-	-	-	0	0
443		--		-	-	-	0	0
489		--		-	-	-	0	0
534		--		-	-	-	0	0
580		--		-	-	-	-1	0
626		--		-	-	-	0	0
672		--		-	-	-	0	0
718		--		-	-	-	-1	0
764		--		-	-	-	0	1
809		--		-	-	-	-1	0
856		--		-	-	-	0	-1
902		--		-	-	-	1	1
948		--		-	-	-	-1	0
994		--		-	-	-	0	0
1039		--		-	-	-	0	0
1085		--		-	-	-	-1	0
1130		--		-	-	-	0	0
1176		--		-	-	-	0	0
1222	↓	--	↓	-	↓	-	-1	0

Note 1 Point Distance is from the start of the test section to the measurement location.

Note 2 If the "approach" slab is higher than the "departure" slab, faulting is recorded as positive (+ or 0), if the "approach" slab is lower, record faulting as negative (-) and the minus sign must be used

Revised April 23, 1993

STATE ASSIGNED ID _ _ _ _

SHEET 6

DISTRESS SURVEY

LTPP PROGRAM

STATE CODE 0 5

SHRP SECTION ID A 6 0 5

$T_1 = 18°C$

$T_2 = 22°C$

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 10/02/97

SURVEYORS ZK, IJ

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

12 FAULTING OF TRANSVERSE JOINTS AND CRACKS

Page 2 of 3

Point[1] Distance (Meters)	Joint or Crack (J/C)	Crack Length (Meters)	Well Sealed (Y/N)	Length of Joint Spalling, m L	M	H	Faulting[2], mm 0.3m	0.75m
1268	J	--	Y	00	00	00	-1	0
1314		--		--	1 --	--	-1	-1
1360		--		--	--	--	0	0
1406		--		--	--	--	0	0
1452		--		--	1 --	--	0	-1
1498		--		--	--	1 --	0	2
1544		--		--	--	--	-1	0
1590		--		--	--	--	0	2
1636		--		--	1 --	--	0	0
1682		--		--	--	--	0	0
1728		--	Y	--	1 --	--	-1	0
1774		--	N	--	1 --	--	-1	0
1777		--	Y	--	1 --	--	--	0
1763		--		--	--	--	2	0
1773		--		--	--	--	0	0
1793		--		--	--	--	2	1
1819		--		--	--	--	1	-5
1851		--		--	--	1 --	-1	-2
1865		--		--	--	--	0	0
1875		--		--	--	--	2	0
1910		--		--	--	--	0	0
1956		--		--	1 --	--	0	0
2020		--		--	--	--	0	0
2038		--	Y	--	--	--	-1	-1
2041		--	N	--	--	--	0	0
2057		--	Y	--	--	--	4	3
2084		--	Y	--	1 --	--	-1	-1

Note 1 Point Distance is from the start of the test section to the measurement location.

Note 2 If the "approach" slab is higher than the "departure" slab, faulting is recorded as positive (+ or 0), if the "approach" slab is lower, record faulting as negative (-) and the minus sign must be used

Revised April 23, 1993

SHEET 6

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 0 5

SHRP SECTION ID A 6 0 5

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 1 0/0 2/9 7

SURVEYORS [illegible]

DISTRESS SURVEY FOR PAVEMENTS WITH JOINTED PORTLAND CEMENT CONCRETE SURFACES (CONTINUED)

12 FAULTING OF TRANSVERSE JOINTS AND CRACKS

Point[1] Distance (Meters)	Joint or Crack (J/C)	Crack Length (Meters)	Well Sealed (Y/N)	Length of Joint Spalling, m L	M	H	Faulting[2], mm 0.3m	0.75m
2094	J	--	N	00	00	00	-2	-0
2104		--	Y	--	--	--	-2	-1
2138		--		--	--	--	-2	-0
2175		--		--	--	--	-1	-1
2185		--	N	--	--	--	-0	-0
2195		--	Y	--	--	--	-3	-1
2232		--		--	--	--	-0	-1
2278		--		--	--	--	-0	-0
2323		--		--	--	--	-0	-0
2369		--		--	--	--	-0	-0
2405		--		03	--	--	-1	-1
2415		--		00	--	--	-0	-1
2425		--		--	--	--	-1	-3
2460		--		--	--	--	-0	-2
2506		--		--	--	--	-0	-0
2552		--		--	--	--	-0	-1
2598		--		--	--	--	-0	-0
2644		--		--	--	--	-1	-0
2690		--		--	--	--	-0	-0
2735		--		--	--	--	-0	-0
2781		--		--	--	--	-0	-0
2827		--		--	--	--	-0	-0
2873		--		--	--	--	-1	-0
2919		--		--	--	--	-0	-0
2965		--		05	--	--	-0	-0
3011		--		00	--	--	-0	-0
----	-	--	-	--	--	--	---	---

Note 1 Point Distance is from the start of the test section to the measurement location

Note 2 If the "approach" slab is higher than the "departure" slab, faulting is recorded as positive (+ or 0), if the "approach" slab is lower, record faulting as negative (-) and the minus sign must be used

RECEIVED OCT - 3 1997

Revised December 1, 1992

SHEET 1

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 0 5

SHRP SECTION ID A 6 0 6

REVIEWED OCT 0 9 1997 J 0

DISTRESS SURVEY FOR PAVEMENTS WITH ASPHALT CONCRETE SURFACES

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 1 0/0 1/9 7

SURVEYORS _ _ _, _ _ _ PHOTOS, VIDEO, OR BOTH WITH SURVEY (P, V, B) B

PAVEMENT SURFACE TEMP - BEFORE _ _ 3 2°C, AFTER _ _ 3 1°C

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
CRACKING			
1 FATIGUE CRACKING (Square Meters)	0	0	0
2 BLOCK CRACKING (Square Meters)			
3 EDGE CRACKING (Meters)			
4 LONGITUDINAL CRACKING (Meters)			
4a Wheel Path			
Length Sealed (Meters)			
4b Non-Wheel Path			
Length Sealed (Meters)			
5 REFLECTION CRACKING AT JOINTS Number of Transverse Cracks			
Transverse Cracking (Meters)			
Length Sealed (Meters)			
Longitudinal Cracking (Meters)			
Length Sealed (Meters)			
6 TRANSVERSE CRACKING Number of Cracks			
Length (Meters)			
Length Sealed (Meters)			
PATCHING AND POTHOLES			
7 PATCH/PATCH DETERIORATION (Number)			
(Square Meters)			
8 Potholes (Number)			
(Square Meters)	√	√	√

Revised December 1 1992

SHEET 2

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 0 5

SHRP SECTION ID A 6 0 6

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 1 0/0 1/9 7

SURVEYORS T J M, Z W D

DISTRESS SURVEY FOR PAVEMENTS WITH ASPHALT CONCRETE SURFACES (CONTINUED)

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
SURFACE DEFORMATION			
9 RUTTING - REFER TO SHEET 3 FOR SPS-3 OR Form S1 from Distress Manual			
10 SHOVING (Number)			0
(Square Meters)			
SURFACE DEFECTS			
11 BLEEDING (Square Meters)	0	0	
12 POLISHED AGGREGATE (Square Meters)			
13 RAVELING (Square Meters)	0	0	
MISCELLANEOUS DISTRESSES			
14 LANE-TO-SHOULDER DROPOFF - REFER TO SHEET 3			
15 WATER BLEEDING AND PUMPING (Number)			
Length of Affected Pavement (Meters)			

16 OTHER (Describe) _____

RECEIVED OCT - 3 1997

Revised December 1, 1992

SHEET 1

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 0 5

SHRP SECTION ID A 6 0 7

REVIEWED OCT 0 9 1997

REVIEWED OCT 0 9 1997

DISTRESS SURVEY FOR PAVEMENTS WITH ASPHALT CONCRETE SURFACES

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 10/01/97

SURVEYORS JJM, ZWD PHOTOS, VIDEO, OR BOTH WITH SURVEY (P, V, B) B

PAVEMENT SURFACE TEMP - BEFORE _ _ 3 3 °C, AFTER _ _ 3 8 °C

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
CRACKING			
1. FATIGUE CRACKING (Square Meters)	0	0	0
2 BLOCK CRACKING (Square Meters)			
3. EDGE CRACKING (Meters)			
4 LONGITUDINAL CRACKING (Meters)			
4a Wheel Path			
Length Sealed (Meters)			
4b Non-Wheel Path			
Length Sealed (Meters)			
5 REFLECTION CRACKING AT JOINTS Number of Transverse Cracks			
Transverse Cracking (Meters)			
Length Sealed (Meters)			
Longitudinal Cracking (Meters)			
Length Sealed (Meters)			
6 TRANSVERSE CRACKING Number of Cracks			
Length (Meters)			
Length Sealed (Meters)			
PATCHING AND POTHOLES			
7 PATCH/PATCH DETERIORATION (Number)			
(Square Meters)			
8 Potholes (Number)			
(Square Meters)			

Revised December 1 1992

SHEET 2

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 0 5

SHRP SECTION ID A 6 0 7

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 1 0 / 0 1 / 9 7

SURVEYORS T J M, Z W D

DISTRESS SURVEY FOR PAVEMENTS WITH ASPHALT CONCRETE SURFACES (CONTINUED)

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
SURFACE DEFORMATION			
9 RUTTING - REFER TO SHEET 3 FOR SPS-3 OR Form S1 from District Manual			
10 SHOVING (Number)			0
(Square Meters)			
SURFACE DEFECTS			
11 BLEEDING (Square Meters)	0	0	
12 POLISHED AGGREGATE (Square Meters)			
13 RAVELING (Square Meters)	0	0	
MISCELLANEOUS DISTRESSES			
14 LANE-TO-SHOULDER DROPOFF - REFER TO SHEET 3			
15 WATER BLEEDING AND PUMPING (Number)			
Length of Affected Pavement (Meters)			

16 OTHER (Describe) _____

RECEIVED OCT - 3 1997

Revised December 1, 1992

SHEET 1

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 0 5

SHRP SECTION ID A 6 0 8

REVIEWED OCT 0 9 1997

REVIEWED OCT 0 9 1997

DISTRESS SURVEY FOR PAVEMENTS WITH ASPHALT CONCRETE SURFACES

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 1 0/0 1/9 7

SURVEYORS T J M, Z W D PHOTOS, VIDEO, OR BOTH WITH SURVEY (P, V, B) B

PAVEMENT SURFACE TEMP - BEFORE _ _ 3 6 °C, AFTER _ _ 3 7 °C

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
CRACKING			
1. FATIGUE CRACKING (Square Meters)	0	0	0
2 BLOCK CRACKING (Square Meters)			
3 EDGE CRACKING (Meters)			
4 LONGITUDINAL CRACKING (Meters)			
4a Wheel Path			
Length Sealed (Meters)			
4b Non-Wheel Path			
Length Sealed (Meters)			
5 REFLECTION CRACKING AT JOINTS Number of Transverse Cracks			
Transverse Cracking (Meters)			
Length Sealed (Meters)			
Longitudinal Cracking (Meters)			
Length Sealed (Meters)			
6 TRANSVERSE CRACKING Number of Cracks			
Length (Meters)			
Length Sealed (Meters)			
PATCHING AND POTHOLES			
7 PATCH/PATCH DETERIORATION (Number)			
(Square Meters)			
8 Potholes (Number)			
(Square Meters)	V	V	V

Revised December 1 1992

SHEET 2

DISTRESS SURVEY

LTPP PROGRAM

STATE ASSIGNED ID _ _ _ _

STATE CODE 0 5

SHRP SECTION ID A 6 0 8

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR) 1 0/0 1/9 7

SURVEYORS I J M, Z W D

DISTRESS SURVEY FOR PAVEMENTS WITH ASPHALT CONCRETE SURFACES (CONTINUED)

DISTRESS TYPE	SEVERITY LEVEL LOW	MODERATE	HIGH
SURFACE DEFORMATION			
9 RUTTING - REFER TO SHEET 3 FOR SPS-3 OR Form S1 from Distress Manual			
10 SHOVING (Number)			0
(Square Meters)			
SURFACE DEFECTS			
11 BLEEDING (Square Meters)	0	0	
12 POLISHED AGGREGATE (Square Meters)			
13 RAVELING (Square Meters)	0	0	
MISCELLANEOUS DISTRESSES			
14 LANE-TO-SHOULDER DROPOFF - REFER TO SHEET 3			
15 WATER BLEEDING AND PUMPING (Number)			
Length of Affected Pavement (Meters)			

16 OTHER (Describe) _____

APPENDIX E

CONSTRUCTION DATA

RECEIVED JUL - 9 1997

LTPP-SPS CONSTRUCTION DATA REFERENCE PROJECT STATION TABLE CONSTRUCTION DATA SHEET 1	* STATE CODE [05] * SPS PROJECT CODE [A6] * TEST SECTION NO [00]

ORDER	TEST SECTION ID NO (1)	REFERENCE PROJECT STATION NUMBER (2) START	(3) END	(4) CUT-FILL[1] TYPE	STATION
1	05A608	0+00	5+00	1	+
2	05A607	9+00	14+00	2	+
3	05A606	15+00	20+00	1	+
4	05A604	21+00	26+00	1	+
5	05A603	30+00	35+00	2	+
6	05A605	44+00	54+00	1	+
7	05A602	55+00	65+00	1	+
8	05A601	67+00	72+00	1	+
9		+	+		+
10		+	+		+
11		+	+		+
12		+	+		+
13		+	+		+
14		+	+		+
15		+	+		+
16		+	+		+
17		+	+		+
18		+	+		+
19		+	+		+
20		+	+		+

5 SPS - GPS TEST SECTION EQUALITIES

GPS section _____ is the same as SPS section _____

GPS section _____ is the same as SPS section _____

6 INTERSECTIONS BETWEEN TEST SECTION ON THE PROJECT

ROUTE	PROJECT STATION NO	RAMPS EXIT	RAMPS ENT	INTERSECTION STOP	INTERSECTION SIGNAL	INTERSECTION UNSIG
	+					
	+					
	+					

Note 1 Indicate the type of subgrade section the test section is located on

Cut 1 Fill 2 At-Grade 3 Cut and Fill 4

If cut-fill transition is located in a test section, enter test section station of the cut-fill transition location

PREPARER [signature] EMPLOYER BRE DATE 5-12-97

RECEIVED JUL 9 1997 October 1990 (Heading revised October 1992)

SPS-6 CONSTRUCTION DATA SHEET 8 MISCELLANEOUS CONSTRUCTION NOTES AND COMMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 0]

Provide any miscellaneous comments and notes concerning construction operations which may have an influence on the ultimate performance of the test sections or which may cause undesired performance differences to occur between test sections Also include any quality control measurements or data for which space is not provided on other forms Provide an indication of the basis for such measurements, such as an ASTM, AASHTO, or Agency standard test designation

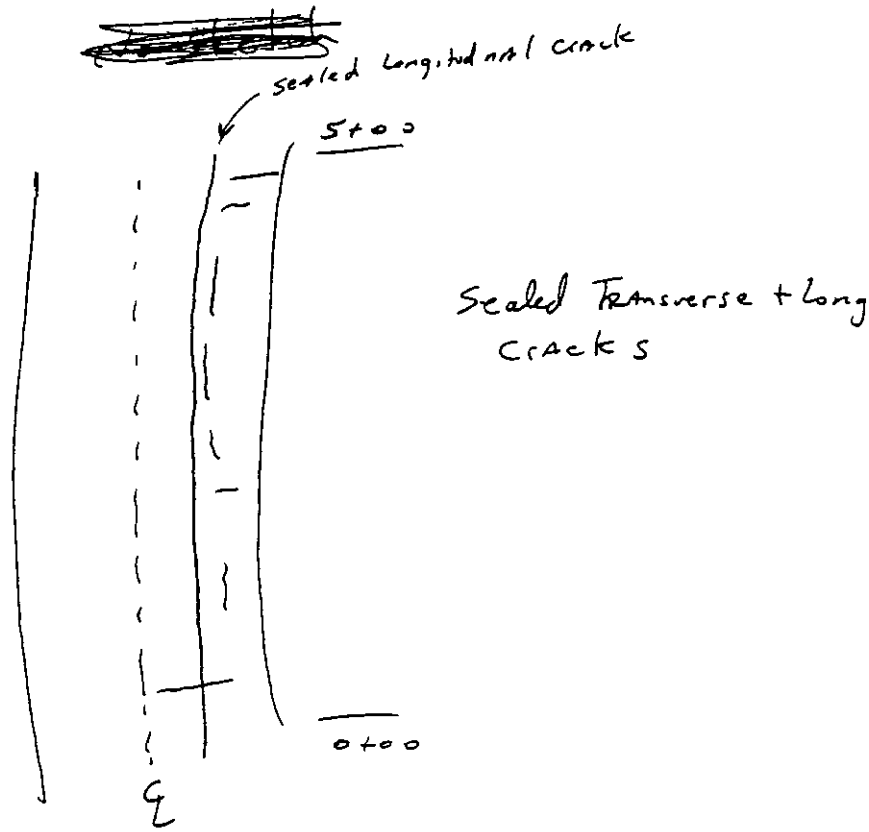
The crack + Seat Process did not fully crack the JPC.

Concrete sections 2 + 5 had to have grinding to meet the spec. of 7 in/mi. After grinding, the pavement met spec. @ 6.2 in/mi

PREPARER [signature] EMPLOYER BRE DATE 5-12-97

RECEIVED JUL 9 1997 October 1990 (Heading revised October 1992)

SPS-6 CONSTRUCTION DATA SHEET 3 PRE-OVERLAY SURFACE PREPARATION SKETCH	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [ ] 01



PREPARER [signature] EMPLOYER BRE DATE 5-12-97

SPS-6 CONSTRUCTION DATA SHEET 8 MISCELLANEOUS CONSTRUCTION NOTES AND COMMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 1]

Provide any miscellaneous comments and notes concerning construction operations which may have an influence on the ultimate performance of the test sections or which may cause undesired performance differences to occur between test sections Also include any quality control measurements or data for which space is not provided on other forms Provide an indication of the basis for such measurements, such as an ASTM, AASHTO, or Agency standard test designation

Partial patching and full-depth patching was administered as necessary along joints w/ severe damage.

PREPARER [signature] EMPLOYER BRE DATE 5-12-97

SPS-6 CONSTRUCTION DATA SHEET 9 PARTIAL DEPTH PATCHING FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 1]

1 DATE PATCHING OPERATIONS BEGAN (Month-Day-Year) [1 0-0 8-9 6]

2 DATE PATCHING OPERATIONS COMPLETED [1 2-0 1-9 6]

3 PRIMARY DISTRESS OCCURRENCE PATCHED (code from Table A 22) [2 5]
Other (Specify) _____

4 SECONDARY DISTRESS OCCURRENCE PATCHED (code from Table A 22) [3 4]
Other (Specify) _____

5 PATCHES
Total Square Feet [_ _ 1 5]
Number [_ 5]
Average Depth, Inches [_ 4 0]

6 METHOD USED FOR PATCH BOUNDARY DETERMINATION 1
Visual 1 Ball Peen Hammer, Steel Rod, Chain or Equivalent 2
Delam-Tech 3 Other (Specify) 4 _____

7 METHOD USED TO CUT BOUNDARIES 1
Diamond Blade Saw 1 Carbide Blade Saw 2 None 3 Air Hammer 4
Cold Milling 5 Other (Specify) 6 _____

8 METHOD USED TO BREAK UP AND/OR REMOVE DETERIORATED CONCRETE 1
Jackhammer 1 Cold Milling 2
Other (Specify) 3 _____

9 METHOD FOR FINAL CLEANING OF PATCH AREA 4
None 1 Sandblasting 2 Waterblasting 3
Other (Specify) 4 Air-blast

PREPARER Timothy J. Mack EMPLOYER BRE DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 10 PARTIAL DEPTH PATCHING FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 1]

1 PATCH MATERIAL USED [1]
Portland Cement Concrete 1 Polymer Concrete . 2 Epoxy Mortar. 3
Other (Specify) 5 _____

2. BONDING AGENT [1]
None .. 1 Cement Grout 2 Epoxy Resin 3
Other (Specify) 5 _____

3 MIXTURE DESIGN FOR PATCH MATERIAL, LB /CUBIC YARD
Coarse Aggregate [1 8 7 2]
Fine Aggregate [1 3 9 4]
Cement [_ 7 6 4]
Water (Gallons/Cubic yd) [_ _ 3 6]

4 MAXIMUM SIZE OF COARSE AGGREGATE, INCHES 1 5

5 CEMENT TYPE USED [4 1]
(See Cement Type Codes, Tables A 11)

6 AIR CONTENT, PERCENT BY VOLUME
Mean [_ 6 0]
Range Min [_ 4 5]
Max [_ 7 5]

7 ADMIXTURES
(See Cement Additive Codes, Table A 12) None [_ _]
[_ _]

8 SLUMP, INCHES
Mean [1 2]
Range Min [_ 0]
Max [2 0]

9 COMPRESSIVE STRENGTH OF PATCH MATERIAL, PSI [3 5 0 0]
Curing Time, Days [2 8]
If Unavailable, and Other Strength Test Conducted,
Alternate Test [N/ available]
Type of Loading [_____]
Age, Days [_ _], Strength, PSI [_ _ _ _]

PREPARER Timothy J Martin EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 11 PARTIAL DEPTH PATCHING FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 1]

1 CURING METHOD — METHOD 1 [0 2] METHOD 2 [_ _]

None . 1 Membrane Curing Compound 2 Burlap Curing Blankets 3
Waterproof Paper Blankets 4 White Polyethylene Sheeting 5
Burlap-Polyethylene Blankets 6 Insulating Layers 7
Cotton Mat Curing 8 Hay 9
Other (Specify) 10 _____

2 APPROXIMATE TIME BETWEEN PATCHING AND OPENING TO TRAFFIC, HOURS 720 [_ 1] Mon

3 AMBIENT CONDITIONS AT TIME OF PATCHING — LOW [_ 3 0] HIGH [_ 7 0]
Air Temperature °F
Surface Moisture - Dry = 1, Wet = 2 [1]

4 METHOD OF CONSOLIDATING MATERIALS 1
Vibrators 1 Vibrating Screeds 2 Troweling 3
Rodding/Tamping 4 Rolling 5
Other (Specify) 6 _____

5 FINISHING METHOD 2
Screeding 1 Hand-Troweling 2 Machine-Troweling 3
Other (Specify) 4 _____

6 JOINT FORMING METHOD
Shoulder 5
Transverse 5
Longitudinal 5

None 1 Polyethylene Strip Insert 2 Styrofoam Insert 3
Fiberboard Insert 4 Sawing 5 Forms 6
Other (Specify) 7 _____

PREPARER Timothy J. Martin EMPLOYER BRE DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 12 JOINT RESEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 1]

1 DATE JOINT SEALANT OPERATIONS BEGAN (Month-Day-Year) [1 0-0 1-9 6]

2 DATE JOINT SEALANT OPERATIONS COMPLETED [1 1-0 1-9 6]

3 METHOD OF REMOVING OLD SEALANT [9]
Not Removed 1 Joint Plow - V-Shaped 2 Joint Plow - Rectangular 3
High Pressure Water Blasting 4 Diamond Blade Saw 5
Carbide Blade Saw 6 Pull-Out of Old Compression Sealant 7
Not Previously Sealed 8
Other (Specify) 9 Air Blown

4 NEW SEALANT RESERVOIR DIMENSIONS, INCHES
Width [0 3]
Depth (From Top of Slab to Top of Backer Rod or Tape) [1 5]

5 BOND BREAKER UNDER SEALANT [3]
None 1 Nonreactive Adhesive Backed Tape 2 Backer Rod 3
Other (Specify) 4 _____

6 WERE JOINT SIDEWALLS REFACED? 1
No 1 Yes - One-Blade 2 Yes - Two-Blade 3
Other (Specify) 4 _____

7 CLEANING OF SIDEWALLS [2]
None 1 Air Blast 2 Sand Blast 3 Water Blast 4
Other (Specify) 4 _____

PREPARER Timothy J. Martin EMPLOYER BRE DATE 6/30/97

SPS-6 CONSTRUCTION DATA SHEET 13 JOINT RESEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [4 6] * TEST SECTION NO [0 1]

1 TYPE OF CONTRACTION JOINT SEALANT (AASHTO OR ASTM SPECIFICATIONS) [7]

D1850 (ASTM) Concrete Joint Sealer, Cold-Application Type 1
D1190 (ASTM) - M173 (AASHTO) Concrete Joint Sealer, Hot-Poured Elastic Type 2
D3406 (ASTM) - M282 (AASHTO) Joint Sealants, Hot-Poured, Elastomeric-Type, for PCC Pavements 3
D3405 (ASTM) - M301 (AASHTO) Joint Sealants, Hot-Poured for Concrete and Asphalt Pavements 4
D3542 (ASTM) Preformed Polychloroprene Elastomeric Joint Seals for Bridges 5
D2628 (ASTM) Preformed Polychloroprene Elastomeric Joint Seals for Concrete Pavements 6
Other (Describe - if Silicone Material is Used Federal Spec TT-S-001543A, Georgia D O T Spec 833 06, or Equal Applies 7
Dow Corning 890, Silicon Sealant

Manufacturer Information on Type of Pressure Relief Joint Sealant
Manufacturer Name [ ]
Manufacturer Sealant Name [ ]

2 AVERAGE DEPTH OF TOP OF SEALANT PLACEMENT BELOW PAVEMENT SURFACE, INCHES [0 8]

3 ARE EXPANSION JOINTS SEALED DIFFERENTLY THAN CONTRACTION JOINTS? No [2]
Yes 1 No 2

If Yes, Enter the code from Item 1, or describe below [ ]

Other [There were no expansion joints used.]

4 TOTAL LINEAR FEET OF JOINTS SEALED
Transverse Joints [4 0 8 0]
Longitudinal Joints [5 0 0 0]

NOTE IF DIFFERENT MATERIALS OR METHODS ARE USED REPEAT SHEETS 15 AND 16 FOR EACH RECORDING THEIR LENGTHS IN ITEM NO 4

PREPARER Timothy J. Martin EMPLOYER BRE DATE 6/30/97

SPS-6 CONSTRUCTION DATA SHEET 14 CRACK SEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 1]

1 DATE CRACK SEALING OPERATIONS BEGAN (Month-Day-Year) [1 0-0 1-9 6]

2 DATE CRACK SEALING OPERATIONS COMPLETED [1 1-0 1-9 6]

3 NEW SEALANT RESERVOIR DIMENSIONS, INCHES, If Used
Width
Depth (From Top of Slab to Top of Backer Rod or Tape) [_ _ _]

4 BOND BREAKER UNDER SEALANT, If Used [1]
None 1 Nonreactive Adhesive Backed Tape 2 Backer Rod 3
Other (Specify) 4 _____

5 CLEANING OF CRACKS [1]
None 1 Routing 2 Air Blast 3 Steel Wire Brush 4
Brooming 5 Other (Specify) 4 _____

PREPARER Linda J. Martin EMPLOYER BRE DATE 6/30/97

SPS-6 CONSTRUCTION DATA SHEET 15 CRACK SEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 1]

1 TYPE OF SEALANT [Z]
(AASHTO OR ASTM SPECIFICATIONS)

D1850 (ASTM) Concrete Joint Sealer, Cold-Application Type 1
D1190 (ASTM) - M173 (AASHTO) Concrete Joint Sealer, Hot-Poured Elastic Type 2
D3406 (ASTM) - M282 (AASHTO) Joint Sealants, Hot-Poured, Elastomeric-Type, for PCC Pavements 3
D3405 (ASTM) - M301 (AASHTO) Joint Sealants, Hot-Poured for Concrete and Asphalt Pavements 4
D3542 (ASTM) Preformed Polychloroprene Elastomeric Joint Seals for Bridges 5
D2628 (ASTM) Preformed Polychloroprene Elastomeric Joint Seals for Concrete Pavements 6
Other (Describe - if Silicone Material is Used Federal Spec TT-S-001543A, Georgia D O T Spec 833 06, or Equal Applies 7
Dow Corning 890 - Silicon Sealant

Manufacturer Information on Type of Pressure Relief Crack Sealant
Manufacturer Name [ ]
Manufacturer Sealant Name [ ]

2 AVERAGE DEPTH OF TOP OF SEALANT PLACEMENT
Below Pavement Surface, Inches Varies [1 0]

3 TOTAL LINEAR FEET OF CRACKS SEALED [5 4 7 0]

NOTE IF DIFFERENT MATERIALS OR METHODS ARE USED REPEAT SHEETS 17 AND 18 FOR EACH RECORDING THEIR LENGTHS IN ITEM NO 3

PREPARER [signature] EMPLOYER BRE DATE 7/2/97

SPS-6 CONSTRUCTION DATA SHEET 17 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 1]

1 DATE PATCHING OPERATIONS BEGAN (Month-Day-Year) [1 0-0 1-9 6]

2 DATE PATCHING OPERATIONS COMPLETED [1 2-0 1-9 6]

3 PRIMARY DISTRESS OCCURRENCE PATCHED OR REPLACED WITH NEW SLAB [2 5]
(See Table A 22 for Type Codes)
Other (Specify) _____

4 SECONDARY DISTRESS OCCURRENCE PATCHED OR REPLACED WITH NEW SLAB 34
(See Table A 22 for Type Codes)
Other (Specify) _____

5 PATCHES

	NUMBER	SQ FEET
SLAB ONLY	[2]	[1 0 1]
SLAB AND BASE	[0]	[0]

6 PATCH MATERIAL USED [1]
Portland Cement Concrete 1 Polymer Concrete 2 Epoxy Mortar 4
Other (Specify) 5 _____

7 SLABS REPLACED

	NUMBER	SQ FEET
SLAB ONLY	[0]	[0]
SLAB AND BASE	[0]	[0]

8 METHOD FOR PATCH BOUNDARY DETERMINATION 1
Visual 1 Coring 2 Deflection 3
State Standard or Specification 4
Other (Specify) 5 _____

9 CUTTING INSTRUMENT 1
Diamond Blade Saw 1 Carbide Blade Saw 2 Wheel Saw 3
Air Hammer 4
Other (Specify) 5 _____

PREPARER Timothy J. Martin EMPLOYER BRE DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 18 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 1]

1 SECURING LOAD TRANSFER DEVICES [1]
None 1 Grout Filler 2 Epoxy filler 3
Other. 4 _____

2. REINFORCING STEEL PLACED IN PATCH [2]
No 1 Yes 2

		TEMPERATURE STEEL Transverse	TEMPERATURE STEEL Longitudinal
3	REBAR NUMBER	[8]	[0]
4	BAR LENGTHS, INCHES	[1 3]	[ ]
5	BAR SPACING, INCHES	[1 2]	[ ]

		Dowel Bars	Tie Bars
6	REBAR NUMBER	[8]	[0]
7	BAR LENGTHS, INCHES	[1 3]	[ ]
8	BAR SPACING, INCHES	[1 2]	[ ]

9 DOWEL COATINGS [2]
None 1 Paint and/or Grease 2 Plastic 3
Monel 4 Stainless Steel 5 Epoxy 6
Other (Specify) 7 _____

10 NUMBER OF SAW CUTS PER PATCH (If Sawed) 4

11 DEPTH OF TYPICAL BOUNDARY SAW CUT, INCHES 1 0 0

12 CONCRETE BREAKUP 2
None 1 Pneumatic Air Hammer 2 Gravity Drop Hammer 3
Sawing 4
Other (Specify) 5 _____

13 REMOVAL OF CONCRETE 1
Concrete Breakup and Cleanout 1 Lift Out Intact Slab Section 2
Other (Specify) 3 _____

PREPARER Timothy J. Martin EMPLOYER BRF DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 19 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 L]

1 METHOD OF REINFORCING STEEL PLACEMENT [1]
Chairs 1 Between Layers of Concrete 2

2 MIXTURE DESIGN FOR PATCH MATERIAL, LB /CUBIC YARD
Coarse Aggregate [1 8 7 2]
Fine Aggregate [1 3 9 4]
Cement [7 6 4]
Water (Gallons/Cubic Yard) [3 6]

3 CEMENT TYPE USED [4 L]
(See Type Codes, Tables A 11)

4 AIR CONTENT, PERCENT BY VOLUME
Mean [6 0]
Range [4 5] to [7 5]

5 ADMIXTURES
(See Cement Additive Codes, Table A 12) None - [ ] [ ]

6 SLUMP, INCHES
Mean [1]
Range [0] to [2]

7 FLEXURAL STRENGTH (MODULUS OF RUPTURE), PSI [ ]
(Based on 3rd Point Loading) Curing Time, Days [ ]
If Unavailable, and Other Strength Test Conducted,
Enter Alternate Test [Compressive]
Type of Loading [ ]
Age, Days [2 8], Strength, PSI [3 5 0 0]

8 AMBIENT CONDITIONS AT TIME OF PATCHING
Air Temperature °F LOW [3 0] HIGH [7 0]
Surface Moisture - Dry = 1, Wet = 2 [1]

9 MAXIMUM SIZE OF COARSE AGGREGATE, INCHES 1 5

10 CONSOLIDATION OF MATERIALS 1
Internal Vibrators 1 Vibrating Screeds 2 Troweling 3
Rolling 4 Tamping 5
Other (Specify) 6 _____

12 FINISHING 2
Screeding 1 Hand-Troweling 2 Machine-Troweling 3
Other (Specify) 4 _____

PREPARER Timothy J Martin EMPLOYER BRE DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 20 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 1]

1 JOINT FORMING METHOD — SHOULDER [5] — TRANSVERSE [5] — LONGITUDINAL [5]

None 1 Polyethylene Strip Insert 2 Styrofoam Insert 3
Fiberboard Insert 4 Sawing 5 Forms 6
Other (Specify) 7 _____

2 WAS BOND BREAKER USED BETWEEN ADJACENT LANES? [2]
Yes 1 No 2

3 CURING METHOD — METHOD 1 [2] METHOD 2 [ ]

None 1 Membrane Curing Compound 2 Burlap Curing Blankets 3
Waterproof Paper Blankets 4 White Polyethylene Sheeting 6
Burlap-Polyethylene Blankets 6 Insulating Layers 7
Cotton Mat Curing 8 Hay 9
Other (Specify) 10 _____

4 APPROXIMATE TYPICAL TIME BETWEEN PATCHING AND OPENING TO TRAFFIC, 720 HOURS [1] /Month

5 TYPE OF TRANSVERSE JOINTS IN PATCHES 1 OR SLABS 1
None 1 All Expansion Joints 2 All Contraction Joints 3
Mixture of Expansion and Contraction Joints 4

6 WERE OLD JOINTS MATCHED? 2
Yes 1 No 2

PREPARER [signature] EMPLOYER BRE DATE 7/8/97

RECEIVED JUL - 9 1997October 1990 (Heading revised October 1992)

SPS-6 CONSTRUCTION DATA SHEET 3 PRE-OVERLAY SURFACE PREPARATION SKETCH	* STATE CODE [0 5] * SPS PROJECT CODE [1 6] * TEST SECTION NO [0 2]

no sketch

PREPARER [signature] EMPLOYER BRE DATE 5-12-97

SPS-6 CONSTRUCTION DATA SHEET 8 MISCELLANEOUS CONSTRUCTION NOTES AND COMMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 2]

Provide any miscellaneous comments and notes concerning construction operations which may have an influence on the ultimate performance of the test sections or which may cause undesired performance differences to occur between test sections Also include any quality control measurements or data for which space is not provided on other forms Provide an indication of the basis for such measurements, such as an ASTM, AASHTO, or Agency standard test designation

Section had to be regrind to meet the 7 in/mi spec. After grinding, the pavement met spec @ 6.2 in/mi.

PREPARER [signature] EMPLOYER BRE DATE 5-12-97

SPS-6 CONSTRUCTION DATA SHEET 9 PARTIAL DEPTH PATCHING FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [1 6] * TEST SECTION NO [0 2]

1 DATE PATCHING OPERATIONS BEGAN (Month-Day-Year) [1 0-0 1-9 6]

2 DATE PATCHING OPERATIONS COMPLETED [1 2-0 1-9 6]

3 PRIMARY DISTRESS OCCURRENCE PATCHED (code from Table A 22) [2 5]
Other (Specify) _____

4 SECONDARY DISTRESS OCCURRENCE PATCHED (code from Table A 22) [3 4]
Other (Specify) _____

5 PATCHES
Total Square Feet — partial patchs 26,12 1sm; Full-depth patchs 13,96.2 sm [1 3 2]
Number [2 6]
Average Depth, Inches — Varies, full-depth @ joint transfer deterioracies [4 0]

6 METHOD USED FOR PATCH BOUNDARY DETERMINATION 1
Visual 1 Ball Peen Hammer, Steel Rod, Chain or Equivalent 2
Delam-Tech 3 Other (Specify) 4 _____

7 METHOD USED TO CUT BOUNDARIES X-magnum PS 6585 1
Diamond Blade Saw 1 Carbide Blade Saw 2 None 3 Air Hammer 4
Cold Milling 5 Other (Specify) 6 _____

8 METHOD USED TO BREAK UP AND/OR REMOVE DETERIORATED CONCRETE 1
Jackhammer 1 Cold Milling 2
Other (Specify) 3 _____

9 METHOD FOR FINAL CLEANING OF PATCH AREA 4
None 1 Sandblasting 2 Waterblasting 3
Other (Specify) 4 Only Air Blast

PREPARER Timothy J. Martin EMPLOYER BRE DATE 7/2/97

SPS-6 CONSTRUCTION DATA SHEET 10 PARTIAL DEPTH PATCHING FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO. [0 2]

1 PATCH MATERIAL USED [1]
Portland Cement Concrete 1 Polymer Concrete 2 Epoxy Mortar 3
Other (Specify) 5 _____

2 BONDING AGENT [1]
None 1 Cement Grout 2 Epoxy Resin 3
Other (Specify) 5 _____

3 MIXTURE DESIGN FOR PATCH MATERIAL, LB /CUBIC YARD
Coarse Aggregate [1 8 7 2]
Fine Aggregate [1 3 9 4]
Cement [_ 7 6 4]
Water (Gallons/Cubic yd) [_ _ 3 6]

4 MAXIMUM SIZE OF COARSE AGGREGATE, INCHES 1 5

5 CEMENT TYPE USED [4 1]
(See Cement Type Codes, Tables A 11)

6 AIR CONTENT, PERCENT BY VOLUME
Mean [_ 6 0]
Range Min [_ 4 5]
Max [_ 7 5]

7 ADMIXTURES
(See Cement Additive Codes, Table A 12) None [_ _] [_ _]

8 SLUMP, INCHES
Mean [1 2]
Range Min [_ 0]
Max [2 0]

9 COMPRESSIVE STRENGTH OF PATCH MATERIAL, PSI [3 5 0 0]
Curing Time, Days [2 8]
If Unavailable, and Other Strength Test Conducted,
Alternate Test [N/Available]
Type of Loading [_____]
Age, Days [_ _], Strength, PSI [_ _ _ _]

PREPARER [signature] EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 11 PARTIAL DEPTH PATCHING FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 2]

1. *CURING METHOD* — METHOD 1 [0 2] METHOD 2 [_ _]

None. 1 Membrane Curing Compound 2 Burlap Curing Blankets .. 3
Waterproof Paper Blankets 4 White Polyethylene Sheeting 5
Burlap-Polyethylene Blankets 6 Insulating Layers 7
Cotton Mat Curing 8 Hay 9
Other (Specify) 10 _____

2 APPROXIMATE TIME BETWEEN PATCHING AND OPENING TO TRAFFIC, HOURS 720 [_ 1] month

3 AMBIENT CONDITIONS AT TIME OF PATCHING — LOW [_ 3 0] HIGH [_ 7 0]
Air Temperature °F
Surface Moisture - Dry = 1, Wet = 2 [1]

4 METHOD OF CONSOLIDATING MATERIALS 1
Vibrators 1 Vibrating Screeds 2 Troweling 3
Rodding/Tamping 4 Rolling 5
Other (Specify) 6 _____

5 FINISHING METHOD 2
Screeding 1 Hand-Troweling 2 Machine-Troweling 3
Other (Specify) 4 _____

6 *JOINT FORMING METHOD*
Shoulder 5
Transverse 5
Longitudinal 5

None 1 Polyethylene Strip Insert . 2 Styrofoam Insert 3
Fiberboard Insert 4 Sawing 5 Forms 6
Other (Specify) 7 _____

PREPARER Timothy J. Martin EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 12 JOINT RESEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 2]

1 DATE JOINT SEALANT OPERATIONS BEGAN (Month-Day-Year) [1 0-0 1-9 6]

2 DATE JOINT SEALANT OPERATIONS COMPLETED [1 1-0 1-9 6]

3 METHOD OF REMOVING OLD SEALANT [9]
Not Removed 1 Joint Plow - V-Shaped 2 Joint Plow - Rectangular 3
High Pressure Water Blasting 4 Diamond Blade Saw 5
Carbide Blade Saw 6 Pull-Out of Old Compression Sealant 7
Not Previously Sealed 8
Other (Specify) 9 Air Blast

4 NEW SEALANT RESERVOIR DIMENSIONS, INCHES
Width [0 3]
Depth (From Top of Slab to Top of Backer Rod or Tape) [_ 1 5]

5 BOND BREAKER UNDER SEALANT [3]
None 1 Nonreactive Adhesive Backed Tape 2 Backer Rod 3
Other (Specify) 4 _____

6 WERE JOINT SIDEWALLS REFACED? 1
No 1 Yes - One-Blade 2 Yes - Two-Blade 3
Other (Specify) 4 _____

7 CLEANING OF SIDEWALLS [2]
None 1 Air Blast 2 Sand Blast 3 Water Blast 4
Other (Specify) 4 _____

PREPARER [signature] EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 13 JOINT RESEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 2]

1 TYPE OF CONTRACTION JOINT SEALANT (AASHTO OR ASTM SPECIFICATIONS) [7]

D1850 (ASTM) Concrete Joint Sealer, Cold-Application Type 1
D1190 (ASTM) - M173 (AASHTO) Concrete Joint Sealer, Hot-Poured Elastic Type 2
D3406 (ASTM) - M282 (AASHTO) Joint Sealants, Hot-Poured, Elastomeric-Type, for PCC Pavements 3
D3405 (ASTM) - M301 (AASHTO) Joint Sealants, Hot-Poured for Concrete and Asphalt Pavements 4
D3542 (ASTM) Preformed Polychloroprene Elastomeric Joint Seals for Bridges 5
D2628 (ASTM) Preformed Polychloroprene Elastomeric Joint Seals for Concrete Pavements 6
Other (Describe - if Silicone Material is Used Federal Spec TT-S-001543A, Georgia D O T Spec 833 06, or Equal Applies 7
Dow Corning 890, Silicon Sealant

Manufacturer Information on Type of Pressure Relief Joint Sealant
Manufacturer Name [ ]
Manufacturer Sealant Name [ ]

2 AVERAGE DEPTH OF TOP OF SEALANT PLACEMENT BELOW PAVEMENT SURFACE, INCHES [0 8]

3 ARE EXPANSION JOINTS SEALED DIFFERENTLY THAN CONTRACTION JOINTS? [2]
Yes 1 No 2

If Yes, Enter the code from Item 1, or describe below [ ]

Other [There were no expansion joints used]

4 TOTAL LINEAR FEET OF JOINTS SEALED
Transverse Joints [8 0 4 0]
Longitudinal Joints [1 0 0 0 0]

NOTE IF DIFFERENT MATERIALS OR METHODS ARE USED REPEAT SHEETS 15 AND 16 FOR EACH RECORDING THEIR LENGTHS IN ITEM NO 4

PREPARER [signature] EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 14 CRACK SEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 2]

1 DATE CRACK SEALING OPERATIONS BEGAN (Month-Day-Year) [1 0 - 0 1 - 9 6]

2 DATE CRACK SEALING OPERATIONS COMPLETED [1 1 - 0 1 - 9 6]

3 NEW SEALANT RESERVOIR DIMENSIONS, INCHES, If Used
Width
Depth (From Top of Slab to Top of Backer Rod or Tape) [_ _ _]

4 BOND BREAKER UNDER SEALANT, If Used [1]
None 1 Nonreactive Adhesive Backed Tape 2 Backer Rod 3
Other (Specify) 4 _____

5 CLEANING OF CRACKS 1
None 1 Routing 2 Air Blast 3 Steel Wire Brush 4
Brooming 5 Other (Specify) 4 _____

No cracks were sealed during construction

PREPARER Timothy J. Martin EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 15 CRACK SEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 2]

1 TYPE OF SEALANT [7]
(AASHTO OR ASTM SPECIFICATIONS)

D1850 (ASTM) Concrete Joint Sealer, Cold-Application Type 1
D1190 (ASTM) - M173 (AASHTO) Concrete Joint Sealer, Hot-Poured Elastic Type 2
D3406 (ASTM) - M282 (AASHTO) Joint Sealants, Hot-Poured, Elastomeric-Type, for PCC Pavements 3
D3405 (ASTM) - M301 (AASHTO) Joint Sealants, Hot-Poured for Concrete and Asphalt Pavements 4
D3542 (ASTM) Preformed Polychloroprene Elastomeric Joint Seals for Bridges 5
D2628 (ASTM) Preformed Polychloroprene Elastomeric Joint Seals for Concrete Pavements 6
Other (Describe - if Silicone Material is Used Federal Spec TT-S-001543A, Georgia D O T Spec 833 06, or Equal Applies 7
Dow Corning 890 - Silicon Sealant

Manufacturer Information on Type of Pressure Relief Crack Sealant
Manufacturer Name [ ]
Manufacturer Sealant Name [ ]

2 AVERAGE DEPTH OF TOP OF SEALANT PLACEMENT
Below Pavement Surface, Inches Varies [1 0]

3 TOTAL LINEAR FEET OF CRACKS SEALED [1 3 4 6 4]

NOTE IF DIFFERENT MATERIALS OR METHODS ARE USED REPEAT SHEETS 17 AND 18 FOR EACH RECORDING THEIR LENGTHS IN ITEM NO 3

PREPARER Timothy J. Martin EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 16 DIAMOND GRINDING FOR PORTLAND CEMENT CONCRETE PAVEMENT SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [9 6] * TEST SECTION NO [0 2]

1 DATE DIAMOND GRINDING OPERATIONS BEGAN (Month-Day-Year) [1 0-0 1-9 6]

2 DATE DIAMOND GRINDING OPERATIONS COMPLETED [1 1-0 1-9 6]

3 REASON FOR GRINDING [1]
Elimination of Faulting 1 Elimination of Slab Warping 2
Improve Skid Resistance 3
Restoration of Transverse Drainage Slope 4
Other (Specify) 5 _____

4 AVERAGE DEPTH OF CUT, INCHES [0 2 5]

5 CUTTING HEAD WIDTH, INCHES 36 00

6 AVERAGE GROOVE WIDTH, INCHES 0 2

7 AVERAGE SPACING BETWEEN BLADES, INCHES 2

Diamond Grinding, MN
(612) 420-5009

First 440' of section was diamond grinded

PREPARER [signature] EMPLOYER BRE/SRCO DATE 7/2/97

SPS-6 CONSTRUCTION DATA SHEET 17 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO. [0 2]

1. DATE PATCHING OPERATIONS BEGAN (Month-Day-Year) [1 0-0 1-9 6]

2. DATE PATCHING OPERATIONS COMPLETED [1 2-0 1-9 6]

3. PRIMARY DISTRESS OCCURRENCE PATCHED OR REPLACED WITH NEW SLAB [3 4]
   (See Table A.22 for Type Codes)
   Other (Specify) _____

4. SECONDARY DISTRESS OCCURRENCE PATCHED OR REPLACED WITH NEW SLAB 25
   (See Table A.22 for Type Codes)
   Other (Specify) _____

5. PATCHES

	NUMBER	SQ. FEET
SLAB ONLY	[1 3]	[1 0 4 8]
SLAB AND BASE	[0]	[0]

6. PATCH MATERIAL USED [1]
   Portland Cement Concrete... 1 Polymer Concrete... 2 Epoxy Mortar... 4
   Other (Specify)... 5 _____

7. SLABS REPLACED

	NUMBER	SQ. FEET
SLAB ONLY	[0]	[0]
SLAB AND BAS	[0]	[0]

8. METHOD FOR PATCH BOUNDARY DETERMINATION 1
   Visual... 1 Coring... 2 Deflection... 3
   State Standard or Specification... 4
   Other (Specify)... 5 _____

9. CUTTING INSTRUMENT 1
   Diamond Blade Saw... 1 Carbide Blade Saw... 2 Wheel Saw... 3
   Air Hammer... 4
   Other (Specify)... 5 _____

PREPARER Timothy J. Martin EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 18 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 2]

1 SECURING LOAD TRANSFER DEVICES [1]
None 1 Grout Filler 2 Epoxy filler 3
Other. 4 _____

2 REINFORCING STEEL PLACED IN PATCH [2]
No 1 Yes 2

		TEMPERATURE STEEL Transverse	TEMPERATURE STEEL Longitudinal
3	REBAR NUMBER	[8]	[0]
4	BAR LENGTHS, INCHES	[1 8 0]	[ ]
5	BAR SPACING, INCHES	[1 2 0]	[ ]

		Dowel Bars	Tie Bars
6	REBAR NUMBER	[8]	[0]
7	BAR LENGTHS, INCHES	[1 8 0]	[ ]
8	BAR SPACING, INCHES	[1 2 0]	[ ]

9 DOWEL COATINGS [2]
None 1 Paint and/or Grease 2 Plastic 3
Monel 4 Stainless Steel 5 Epoxy 6
Other (Specify) 7 _____

10 NUMBER OF SAW CUTS PER PATCH (If Sawed) 4

11 DEPTH OF TYPICAL BOUNDARY SAW CUT, INCHES 0 0

12 CONCRETE BREAKUP 2
None 1 Pneumatic Air Hammer 2 Gravity Drop Hammer 3
Sawing 4
Other (Specify) 5 _____

13 REMOVAL OF CONCRETE 1
Concrete Breakup and Cleanout 1 Lift Out Intact Slab Section 2
Other (Specify) 3 _____

PREPARER [signature] EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 19 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 2]

1 METHOD OF REINFORCING STEEL PLACEMENT [1]
Chairs 1 Between Layers of Concrete 2

2 MIXTURE DESIGN FOR PATCH MATERIAL, LB /CUBIC YARD
Coarse Aggregate [1 8 7 2]
Fine Aggregate [1 3 9 4]
Cement [_ 7 6 4]
Water (Gallons/Cubic Yard) [_ _ 3 6]

3 CEMENT TYPE USED [4 1]
(See Type Codes, Tables A 11)

4 AIR CONTENT, PERCENT BY VOLUME
Mean [_ 6 0]
Range [_ 4 5] to [_ 7 5]

5. ADMIXTURES
(See Cement Additive Codes, Table A 12) None [_ _] [_ _]

6 SLUMP, INCHES
Mean [_ 1]
Range [_ 0] to [_ 2]

7 FLEXURAL STRENGTH (MODULUS OF RUPTURE), PSI [_ _ _ _]
(Based on 3rd Point Loading) Curing Time, Days [_ _]
If Unavailable, and Other Strength Test Conducted,
Enter Alternate Test [Compressive]
Type of Loading [_____]
Age, Days [2 8], Strength, PSI [3 5 0 0]

8 AMBIENT CONDITIONS AT TIME OF PATCHING LOW [_ 3 0]
Air Temperature °F HIGH [_ 7 0]
Surface Moisture - Dry = 1, Wet = 2 [1]

9 MAXIMUM SIZE OF COARSE AGGREGATE, INCHES 1 5

10 CONSOLIDATION OF MATERIALS 1
Internal Vibrators 1 Vibrating Screeds 2 Troweling 3
Rolling 4 Tamping 5
Other (Specify) 6 _____

12 FINISHING 2
Screeding 1 Hand-Troweling 2 Machine-Troweling 3
Other (Specify) 4 _____

PREPARER Timothy J. Martin EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 20 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 2]

1 JOINT FORMING METHOD — SHOULDER [5] — TRANSVERSE [5] — LONGITUDINAL [5]

None 1 Polyethylene Strip Insert 2 Styrofoam Insert 3
Fiberboard Insert 4 Sawing 5 Forms 6
Other (Specify) 7 _____

2 WAS BOND BREAKER USED BETWEEN ADJACENT LANES? [2]
Yes 1 No 2

3 CURING METHOD — METHOD 1 [2] METHOD 2 [ ]

None 1 Membrane Curing Compound 2 Burlap Curing Blankets 3
Waterproof Paper Blankets 4 White Polyethylene Sheeting 6
Burlap-Polyethylene Blankets 6 Insulating Layers . 7
Cotton Mat Curing 8 Hay 9
Other (Specify) 10 _____

4 APPROXIMATE TYPICAL TIME BETWEEN PATCHING AND OPENING TO TRAFFIC, ~~HOURS~~ 720 [1] Month

5 TYPE OF TRANSVERSE JOINTS IN PATCHES 1 OR SLABS 1
None 1 All Expansion Joints 2 All Contraction Joints 3
Mixture of Expansion and Contraction Joints 4

6 WERE OLD JOINTS MATCHED? 2
Yes 1 No 2

PREPARER [signature] EMPLOYER BRE/SRCO DATE 7/8/97

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SPS-6 CONSTRUCTION DATA SHEET 2 REVISED LAYER DESCRIPTIONS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 3]

1 LAYER NUMBER	2 LAYER DESCRIPTION	3 MATERIAL TYPE CLASS	4 LAYER THICKNESSES (Inches)			
			AVERAGE	MINIMUM	MAXIMUM	STD DEV
1	SUBGRADE(7)	[5 3]				
2 Soil Cement	[0 5]	[2 7]	[_ 6 0]	_ _ _ _	_ _ _ _	_ _ _ _
3 PCC	[0 3]	[0 4]	[_ 1 0 0]	_ _ _ _	_ _ _ _	_ _ _ _
4 HMAC	[0 1]	[0 1]	[_ _ 4 8]	_ _ 3 7	_ _ 5 6	_ _ 0 5
5	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
6	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
7	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
8	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
9	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
10	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
11	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
12	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
13	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
14	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
15	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _

NOTES

1 Layer 1 is subgrade soil, the highest numbered layer is the pavement surface

2 Layer description codes

Overlay	01	Base Layer	05	Porous Friction Course	09
Seal/Tack Coat w/overlay	02	Subbase Layer	06	Surface Treatment	10
Original Surface	03	Subgrade	07	Embankment (Fill)	11
HMAC Layer (Subsurface)	04	Interlayer	08		

If milling was performed, the layers which were milled shall be assigned their previous layer number and material type If the layer was completely removed by milling, it shall still be shown as a layer with a zero thickness

3 Enter the material type classification codes from Tables A 5, A 6, A 7 and A 8 which best describes the material in each layer If the layer was milled, enter the material classification code corresponding to the type material which was removed

4 Enter the average thickness of each layer and the maximum, minimum, and standard deviation of the thickness measurements, if known If a layer was partially milled, the remaining thickness of the layer shall be indicated

PREPARER [signature] EMPLOYER BRE DATE 5-12-97

October 1990 (Heading revised October 1992)

SPS-6 CONSTRUCTION DATA SHEET 3 PRE-OVERLAY SURFACE PREPARATION SKETCH	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 3]

No sketch

PREPARER [signature] EMPLOYER BRE DATE 5-12-97

SPS-6 CONSTRUCTION DATA SHEET 5 OVERLAY COMPACTION DATA	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO. [0 3]

1 DATE PAVING OPERATIONS BEGAN (Month-Day-Year) [1 0-1 5-9 6]
2. DATE PAVING OPERATIONS COMPLETED [1 2-1 7-9 6]

3 LAYER NUMBER [_ 4]

4 MIXING TEMPERATURE (°F) [3 1 0]
5. LAYDOWN TEMPERATURES (°F)
Mean.. . . . .. 2 8 5
Minimum 2 8 5
Standard Deviation _ 0 0

Number of Tests . . _ 1
Maximum 2 8 5

ROLLER DATA

	Roller Code #	Roller Description	Gross Wt (Tons)	Tire Press (psi)	Frequency (Vibr./Min)	Amplitude (Inches)	Speed (mph)
6	A	Steel-Whl Tandem	_ _ _				
7	B	Steel-Whl Tandem	_ _ _				
8	C	Steel-Whl Tandem	_ _ _				
9	D	Steel-Whl Tandem	_ _ _				
10	E	Pneumatic-Tired	_ _ _	_ _ _ _			
11	F	Pneumatic-Tired	_ _ _	_ _ _ _			
12	G	Pneumatic-Tired	_ _ _	_ _ _ _			
13	H	Pneumatic-Tired	_ _ _				
14	I	Single-Drum Vibr	_ _ _		_ _ _ _	_ _ _	_ _ _
15	J	Single-Drum Vibr	_ _ _		_ _ _ _	_ _ _	_ _ _
16	K	Single-Drum Vibr	_ _ _		_ _ _ _	_ _ _	_ _ _
17	L	Single-Drum Vibr	_ _ _		_ _ _ _	_ _ _	_ _ _
18	M	Double-Drum Vibr	1 1 8		_ _ _ _	_ _ _	_ _ _
19	N	Double-Drum Vibr	_ _ _		_ _ _ _	_ _ _	_ _ _
20	O	Double-Drum Vibr	_ _ _		_ _ _ _	_ _ _	_ _ _
21	P	Double-Drum Vibr	_ _ _		_ _ _ _	_ _ _	_ _ _
22	Q	Other	Combination Steel (Static drum) + Rubber Tires				

	COMPACTION DATA	First Lift	Second Lift	Third Lift	Fourth Lift
	BREAKDOWN				
23	Roller Code (A-Q)	M	_	_	_
24	Coverages	_ 4	_ _	_ _	_ _
	INTERMEDIATE				
25	Roller Code (A-Q)	_	_	_	_
26	Coverages	_ _	_ _	_ _	_ _
	FINAL				
27	Roller Code (A-Q)	Q	_	_	_
28	Coverages	_ 2	_ _	_ _	_ _
29	Air Temperature (°F)	_ 6 5	_ _ _	_ _ _	_ _ _
30	Compacted Thickness (In)	4 8	_ _	_ _	_ _
31	Curing Period (Days)	_ _ _	_ _ _	_ _ _	_ _ _

PREPARER [signature] EMPLOYER BRE DATE 5-12-97

SPS-6 CONSTRUCTION DATA SHEET 4 OVERLAY PLACEMENT OPERATIONS	* STATE CODE [0 5] * SPS PROJECT CODE [4 6] * TEST SECTION NO [ ] 0 3

1 DATE SURFACE PREPARATION BEGAN (Month-Day-Year) [1 0 - 1 5 - 9 6]
2 DATE SURFACE PREPARATION COMPLETED [1 2 - 1 7 - 9 6]

3 SURFACE PREPARATION PRIOR TO PLACEMENT OF OVERLAY [3]
None . 1 Broomed .. . 2 Broomed + Asphaltic Tack Coat 3
Asphaltic Tack Coat (only) .. 4

4 TACK COAT
Layer Numbers [3] [4]
Material Type None 1 SS-1 2 SS-1H 3 CRS-1 4 [2]
CRS-2 5 CMS-2 6 CMS-2H 7 CSS-1 8 CSS-1H.. 9
Other 10 (Specify) _____

5 TACK COAT DILUTION
(Percent) [5 0]
Mixing Rate Parts Diluent ___ TO Parts Asphalt ___

6 TACK COAT APPLICATION RATE (Gal/Sq Yd) [0 0 3]

7 ASPHALT CONCRETE PLANT AND HAUL

	Type	Name	Haul Distance (Mi)	Time (Min)	Layer Numbers		
Plant 1	[2]	EC Rowlett	[3 3]	[3 5]	[4]	[ ]	[ ]
Plant 2	[ ]		[ ]	[ ]	[ ]	[ ]	[ ]
Plant 3	[ ]		[ ]	[ ]	[ ]	[ ]	[ ]

Plant Type Batch 1 Drum Mix 2 Other 3 Specify_____

8 MANUFACTURER OF ASPHALT CONCRETE PAVER Blaw-Knox

9 MODEL DESIGNATION OF ASPHALT CONCRETE PAVER PF 5510

10 SINGLE PASS LAYDOWN WIDTH (Feet) [1 3 0]

11 AC BINDER COURSE
Layer Number [4]
Nominal First Lift Placement Thickness - Uncompacted (Inches) [1 5]
Nominal Second Lift Placement Thickness - Uncompacted (Inches) [ ]

12 AC SURFACE COURSE
Layer Number [4]
Nominal First Lift Placement Thickness - Uncompacted (Inches) [3 2]
Nominal Second Lift Placement Thickness - Uncompacted (Inches) [ ]

13 SURFACE FRICTION COURSE
Layer Number [ ]
Nominal Placement Thickness - Uncompacted (Inches) [ ]

14 TEST SECTION STATION OF TRANSVERSE JOINTS (within test section)
Binder Course [+]
Surface Course [+]
Surface Friction Course [+]

15 LOCATION OF LONGITUDINAL SURFACE JOINT [1]
Between lanes 1 Within lane 2 [1 2]
(specify offset from outside edge of lane in feet)

16 SIGNIFICANT EVENTS DURING CONSTRUCTION(disruptions, rain, equip problems, etc)

PREPARER [signature] EMPLOYER BRE DATE 5-12-97

SPS-6 CONSTRUCTION DATA SHEET 6 CONSTRUCTION QUALITY CONTROL MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 3]

1. DATE MEASUREMENTS BEGAN (Month-Day-Year) [1 2 - 1 7 - 9 6]
2. DATE MEASUREMENTS COMPLETED [1 2 - 1 9 - 9 6]

3. NUCLEAR DENSITY MEASUREMENTS (Wet Density)

LAYER TYPE	Rut Level-Up	Mill Replacement	Binder Course	Surface Course	Surface Friction
Measurement Method (A, B, C)[1]	—	—	—	A	—
Rod Depth (Inches)	— —	— —	— —	— —	— —
Number of Measurements	— —	— —	— —	1 2	— —
Average (pcf)	— — — —	— — — —	— — — —	1 3 5 7	— — — —
Maximum (pcf)	— — — —	— — — —	— — — —	1 3 9 9	— — — —
Minimum (pcf)	— — — —	— — — —	— — — —	1 3 1 0	— — — —
Standard Deviation (pcf)	— — — —	— — — —	— — — —	— — 2 6	— — — —
Layer Number	— —	— —	— —	— 4	— —

[1]Measurement Method Backscatter A Direct Transmission . B Air Gap C

4. MANUFACTURER OF NUCLEAR DENSITY GAUGE Troxler
5. NUCLEAR DENSITY GAUGE MODEL NUMBER
6. NUCLEAR DENSITY GAUGE IDENTIFICATION NUMBER # 24
7. NUCLEAR GAUGE DENSITY COUNT RATE FOR STANDARDIZATION — — — — —
8. PROFILOGRAPH MEASUREMENTS
   Profilograph Type California 1 Rainhart 2 ~~KS LAW~~ ~~3~~
   Profile Index (Inches/Mile) — —
   Interpretation Method Manual 1 Mechanical 2 Computer. 3 ~~3~~
   Height of Blanking Band (Inches) — . — —
   Cutoff Height (Inches) — . — —
9. SURFACE PROFILE USED AS BASIS OF INCENTIVE PAYMENT? (YES, NO) No

PREPARER [signature] EMPLOYER BRE DATE 5-13-97

October 1990 (Heading revised October 1992)

SPS-6 CONSTRUCTION DATA SHEET 7 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 3]

1. DATE MEASUREMENTS BEGAN (Month-Day-Year) [1 0-1 1-9 6]
2. DATE MEASUREMENTS COMPLETED [1 2-1 1-9 6]

LAYER THICKNESS MEASUREMENTS (Inches) SHEET 1 OF 2

STATION NUMBER	OFFSET (Inches)	RUT LEVEL-UP	MILL REPLACEMENT	BINDER COURSE	SURFACE COURSE	SURFACE FRICTION
0+00	0				50	
	36				54	
	72				52	
	108				52	
	144				50	
0+50	0				53	
	36				50	
	72				48	
	108				50	
	144				49	
1+00	0				48	
	36				46	
	72				45	
	108				47	
	144				39	
1+50	0				51	
	36				47	
	72				46	
	108				48	
	144				42	
2+00	0				56	
	36				54	
	72				52	
	108				53	
	144				53	
2+50	0				61	
	36				56	
	72				55	
	108				55	
	144				54	
3+00	0				58	
	36				53	
	72				50	
	108				50	
	144				50	
LAYER NUMBER					4	

PREPARER [signature] EMPLOYER BRE DATE 5-13-97

SPS-6 CONSTRUCTION DATA SHEET 7 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 3]

1. DATE MEASUREMENTS BEGAN (Month-Day-Year) [1 0-1 1-9 6]
2. DATE MEASUREMENTS COMPLETED [1 2-1 1-9 6]

LAYER THICKNESS MEASUREMENTS (Inches) SHEET 2 OF 2

STATION NUMBER	OFFSET (Inches)	RUT LEVEL-UP	MILL REPLACEMENT	BINDER COURSE	SURFACE COURSE	SURFACE FRICTION
3+50	0				55	
	36				50	
	72				48	
	108				48	
	144				48	
4+00	0				48	
	36				46	
	72				43	
	108				45	
	144				45	
4+50	0				47	
	36				43	
	72				41	
	108				40	
	144				40	
5+00	0				41	
	36				38	
	72				35	
	108				34	
	144				37	
+	0					
	36					
	72					
	108					
	144					
+	0					
	36					
	72					
	108					
	144					
+	0					
	36					
	72					
	108					
	144					
LAYER NUMBER					4	

PREPARER [signature] EMPLOYER BRE DATE 5-13-92

October 1990 (Heading revised October 1992)

SPS-6 CONSTRUCTION DATA SHEET 8 MISCELLANEOUS CONSTRUCTION NOTES AND COMMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 3]

Provide any miscellaneous comments and notes concerning construction operations which may have an influence on the ultimate performance of the test sections or which may cause undesired performance differences to occur between test sections Also include any quality control measurements or data for which space is not provided on other forms Provide an indication of the basis for such measurements, such as an ASTM, AASHTO, or Agency standard test designation

PREPARER [signature] EMPLOYER BRE DATE 5-13-97

SPS-6 CONSTRUCTION DATA SHEET 9 PARTIAL DEPTH PATCHING FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 3]

1. DATE PATCHING OPERATIONS BEGAN (Month-Day-Year) [1 0-0 1-9 6]

2. DATE PATCHING OPERATIONS COMPLETED [1 2-0 1-9 6]

3. PRIMARY DISTRESS OCCURRENCE PATCHED (code from Table A 22) [2 5]
   Other (Specify) _____

4. SECONDARY DISTRESS OCCURRENCE PATCHED (code from Table A 22) [3 4]
   Other (Specify) _____

5. PATCHES
   Total Square Feet [2 6 5]
   Number [3 4]
   Average Depth, Inches [4 0]

6. METHOD USED FOR PATCH BOUNDARY DETERMINATION 1
   Visual 1 Ball Peen Hammer, Steel Rod, Chain or Equivalent 2
   Delam-Tech 3 Other (Specify) 4 _____

7. METHOD USED TO CUT BOUNDARIES 1
   Diamond Blade Saw 1 Carbide Blade Saw 2 None 3 Air Hammer 4
   Cold Milling 5 Other (Specify) 6 _____

8. METHOD USED TO BREAK UP AND/OR REMOVE DETERIORATED CONCRETE 1
   Jackhammer 1 Cold Milling 2
   Other (Specify) 3 _____

9. METHOD FOR FINAL CLEANING OF PATCH AREA 4
   None 1 Sandblasting 2 Waterblasting 3
   Other (Specify) . 4 Only Air Blast

PREPARER [signature] EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 10 PARTIAL DEPTH PATCHING FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO. [0 3]

1. PATCH MATERIAL USED [1]
   Portland Cement Concrete 1 Polymer Concrete 2 Epoxy Mortar 3
   Other (Specify) 5 _____

2 BONDING AGENT [1]
   None .. 1 Cement Grout 2 Epoxy Resin 3
   Other (Specify) 5 _____

3 MIXTURE DESIGN FOR PATCH MATERIAL, LB /CUBIC YARD
   Coarse Aggregate [1 8 7 2]
   Fine Aggregate [1 3 9 4]
   Cement [_ 7 6 4]
   Water (Gallons/Cubic yd) [_ _ 3 6]

4 MAXIMUM SIZE OF COARSE AGGREGATE, INCHES 1 5

5 CEMENT TYPE USED [4 1]
   (See Cement Type Codes, Tables A 11)

6 AIR CONTENT, PERCENT BY VOLUME
   Mean [_ 6 0]
   Range Min [_ 4 5]
   Max [_ 7 5]

7 ADMIXTURES
   (See Cement Additive Codes, Table A 12) None [_ _]
   [_ _]

8 SLUMP, INCHES
   Mean [1 2]
   Range Min [_ 0]
   Max [2 0]

9 COMPRESSIVE STRENGTH OF PATCH MATERIAL, PSI [3 5 0 0]
   Curing Time, Days [2 8]
   If Unavailable, and Other Strength Test Conducted,
   Alternate Test [N/Available]
   Type of Loading [_____]
   Age, Days [_ _], Strength, PSI [_ _ _ _]

PREPARER Timothy J Martin EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 11 PARTIAL DEPTH PATCHING FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 3]

1 CURING METHOD — METHOD 1 [0 1]; METHOD 2 [_ _]

None.. 1 Membrane Curing Compound 2 Burlap Curing Blankets . 3
Waterproof Paper Blankets 4 White Polyethylene Sheeting 5
Burlap-Polyethylene Blankets 6 Insulating Layers . 7
Cotton Mat Curing 8 Hay 9
Other (Specify) . 10 _____

2 APPROXIMATE TIME BETWEEN PATCHING AND OPENING TO TRAFFIC, HOURS ~~720~~ [_ 1] Mons

3 AMBIENT CONDITIONS AT TIME OF PATCHING — LOW [_ 3 0]; HIGH [_ 7 0]
Air Temperature °F
Surface Moisture - Dry = 1, Wet = 2 [1]

4 METHOD OF CONSOLIDATING MATERIALS [1]
Vibrators 1 Vibrating Screeds 2 Troweling 3
Rodding/Tamping 4 Rolling 5
Other (Specify) 6 _____

5 FINISHING METHOD [2]
Screeding . 1 Hand-Troweling 2 Machine-Troweling 3
Other (Specify) 4 _____

6 JOINT FORMING METHOD
Shoulder [5]
Transverse [5]
Longitudinal [5]

None 1 Polyethylene Strip Insert 2 Styrofoam Insert 3
Fiberboard Insert 4 Sawing 5 Forms 6
Other (Specify) 7 _____

PREPARER Timothy J Martin EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 12 JOINT RESEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 3]

1 DATE JOINT SEALANT OPERATIONS BEGAN (Month-Day-Year) [1 0 - 0 1 - 9 6]

2 DATE JOINT SEALANT OPERATIONS COMPLETED [1 1 - 0 1 - 9 6]

3 METHOD OF REMOVING OLD SEALANT [9]
Not Removed 1 Joint Plow - V-Shaped 2 Joint Plow - Rectangular 3
High Pressure Water Blasting 4 Diamond Blade Saw 5
Carbide Blade Saw 6 Pull-Out of Old Compression Sealant 7
Not Previously Sealed 8
Other (Specify) 9 Air Blast

4 NEW SEALANT RESERVOIR DIMENSIONS, INCHES
Width [0 3]
Depth (From Top of Slab to Top of Backer Rod or Tape) [1 5]

5 BOND BREAKER UNDER SEALANT [3]
None 1 Nonreactive Adhesive Backed Tape 2 Backer Rod 3
Other (Specify) 4 _____

6 WERE JOINT SIDEWALLS REFACED? [1]
No 1 Yes - One-Blade 2 Yes - Two-Blade 3
Other (Specify) 4 _____

7 CLEANING OF SIDEWALLS [2]
None 1 Air Blast 2 Sand Blast 3 Water Blast 4
Other (Specify) 4 _____

PREPARER Timothy J. Martin EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 13 JOINT RESEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 3]

1 TYPE OF CONTRACTION JOINT SEALANT [7]
(AASHTO OR ASTM SPECIFICATIONS)

D1850 (ASTM) Concrete Joint Sealer, Cold-Application Type 1
D1190 (ASTM) - M173 (AASHTO) Concrete Joint Sealer, Hot-Poured Elastic Type 2
D3406 (ASTM) - M282 (AASHTO) Joint Sealants, Hot-Poured, Elastomeric-Type, for PCC Pavements. 3
D3405 (ASTM) - M301 (AASHTO) Joint Sealants, Hot-Poured for Concrete and Asphalt Pavements 4
D3542 (ASTM) Preformed Polychloroprene Elastomeric Joint Seals for Bridges 5
D2628 (ASTM) Preformed Polychloroprene Elastomeric Joint Seals for Concrete Pavements 6
Other (Describe - if Silicone Material is Used Federal Spec TT-S-001543A, Georgia D O T Spec 833 06, or Equal Applies 7
Dow Corning 890, Silicon Sealant

Manufacturer Information on Type of Pressure Relief Joint Sealant
Manufacturer Name [ ]
Manufacturer Sealant Name [ ]

2 AVERAGE DEPTH OF TOP OF SEALANT PLACEMENT BELOW PAVEMENT SURFACE, INCHES [0 8]

3 ARE EXPANSION JOINTS SEALED DIFFERENTLY THAN CONTRACTION JOINTS? [2]
Yes 1 No 2

If Yes, Enter the code from Item 1, or describe below [ ]

Other [there were no expansion joints used]

4 TOTAL LINEAR FEET OF JOINTS SEALED
Transverse Joints [3 9 6 0]
Longitudinal Joints [5 0 0 0]

NOTE IF DIFFERENT MATERIALS OR METHODS ARE USED REPEAT SHEETS 15 AND 16 FOR EACH RECORDING THEIR LENGTHS IN ITEM NO 4

PREPARER [signature] EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 14 CRACK SEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 3]

1 DATE CRACK SEALING OPERATIONS BEGAN (Month-Day-Year) [1 0-0 1-9 6]

2 DATE CRACK SEALING OPERATIONS COMPLETED [1 1-0 1-9 6]

3 NEW SEALANT RESERVOIR DIMENSIONS, INCHES, If Used
Width
Depth (From Top of Slab to Top of Backer Rod or Tape) [_ _ _]

4 BOND BREAKER UNDER SEALANT, If Used [1]
None 1 Nonreactive Adhesive Backed Tape 2 Backer Rod 3
Other (Specify) 4 _____

5 CLEANING OF CRACKS [1]
None 1 Routing 2 Air Blast 3 Steel Wire Brush 4
Brooming 5 Other (Specify) 4 _____

No cracks were sealed during construction.

PREPARER Timothy J. Martin EMPLOYER BRE DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 15 CRACK SEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 3]

1 TYPE OF SEALANT [7]
(AASHTO OR ASTM SPECIFICATIONS)

D1850 (ASTM) Concrete Joint Sealer, Cold-Application Type 1
D1190 (ASTM) - M173 (AASHTO) Concrete Joint Sealer, Hot-Poured Elastic Type 2
D3406 (ASTM) - M282 (AASHTO) Joint Sealants, Hot-Poured, Elastomeric-Type, for PCC Pavements 3
D3405 (ASTM) - M301 (AASHTO) Joint Sealants, Hot-Poured for Concrete and Asphalt Pavements 4
D3542 (ASTM) Preformed Polychloroprene Elastomeric Joint Seals for Bridges 5
D2628 (ASTM) Preformed Polychloroprene Elastomeric Joint Seals for Concrete Pavements 6
Other (Describe - if Silicone Material is Used Federal Spec TT-S-001543A, Georgia D O T Spec 833 06, or Equal Applies 7
Dow Corning 890 - Silicon Sealant

Manufacturer Information on Type of Pressure Relief Crack Sealant
Manufacturer Name [ ]
Manufacturer Sealant Name [ ]

2 AVERAGE DEPTH OF TOP OF SEALANT PLACEMENT
Below Pavement Surface, Inches varies [1 0]

3 TOTAL LINEAR FEET OF CRACKS SEALED [5 5 8 0]

NOTE IF DIFFERENT MATERIALS OR METHODS ARE USED REPEAT SHEETS 17 AND 18 FOR EACH RECORDING THEIR LENGTHS IN ITEM NO 3

PREPARER Timothy J. Martin EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 17 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 3]

1. DATE PATCHING OPERATIONS BEGAN (Month-Day-Year) [1 0-0 1-9 6]

2 DATE PATCHING OPERATIONS COMPLETED [1 2-0 1-9 6]

3. PRIMARY DISTRESS OCCURRENCE PATCHED OR REPLACED WITH NEW SLAB [34]
(See Table A 22 for Type Codes)
Other (Specify) _____

4 SECONDARY DISTRESS OCCURRENCE PATCHED OR REPLACED WITH NEW SLAB 25
(See Table A 22 for Type Codes)
Other (Specify) _____

5 PATCHES

	NUMBER	SQ FEET
SLAB ONLY	[3]	[242]
SLAB AND BASE	[0]	[0]

6 PATCH MATERIAL USED [1]
Portland Cement Concrete 1 Polymer Concrete 2 Epoxy Mortar 4
Other (Specify) 5 _____

7 SLABS REPLACED

	NUMBER	SQ FEET
SLAB ONLY	[1]	[232]
SLAB AND BASE	[0]	[0]

8 METHOD FOR PATCH BOUNDARY DETERMINATION 1
Visual 1 Coring 2 Deflection 3
State Standard or Specification 4
Other (Specify) 5 _____

9 CUTTING INSTRUMENT 1
Diamond Blade Saw 1 Carbide Blade Saw 2 Wheel Saw 3
Air Hammer 4
Other (Specify) 5 _____

PREPARER Timothy J. Martin EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 18 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO. [0 3]

1 SECURING LOAD TRANSFER DEVICES [1]
None 1 Grout Filler 2 Epoxy filler 3
Other 4 _____

2 REINFORCING STEEL PLACED IN PATCH [2]
No 1 Yes 2

		TEMPERATURE STEEL Transverse	TEMPERATURE STEEL Longitudinal
3	REBAR NUMBER	[_ 8]	[_ _]
4	BAR LENGTHS, INCHES	[1 8 _]	[_ _ _]
5	BAR SPACING, INCHES	[1 2 _]	[_ _ _]

		Dowel Bars	Tie Bars
6	REBAR NUMBER	[_ 8]	[_ _]
7	BAR LENGTHS, INCHES	[1 8 _]	[_ _ _]
8	BAR SPACING, INCHES	[1 2 _]	[_ _ _]

9 DOWEL COATINGS [2]
None 1 Paint and/or Grease 2 Plastic 3
Monel 4 Stainless Steel 5 Epoxy 6
Other (Specify) 7 _____

10 NUMBER OF SAW CUTS PER PATCH (If Sawed) _4

11 DEPTH OF TYPICAL BOUNDARY SAW CUT, INCHES 1 0 0

12 CONCRETE BREAKUP 2
None 1 Pneumatic Air Hammer 2 Gravity Drop Hammer 3
Sawing 4
Other (Specify) 5 _____

13 REMOVAL OF CONCRETE 1
Concrete Breakup and Cleanout 1 Lift Out Intact Slab Section 2
Other (Specify) 3 _____

PREPARER Timothy J. Martin EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 19 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 3]

1. METHOD OF REINFORCING STEEL PLACEMENT [1]
   Chairs . 1 Between Layers of Concrete 2

2. MIXTURE DESIGN FOR PATCH MATERIAL, LB /CUBIC YARD
   Coarse Aggregate [1 8 7 2]
   Fine Aggregate [1 3 9 4]
   Cement [_ 7 6 4]
   Water (Gallons/Cubic Yard) [_ _ 3 6]

3 CEMENT TYPE USED [4 1]
   (See Type Codes, Tables A 11)

4 AIR CONTENT, PERCENT BY VOLUME
   Mean
   Range [_ 4 5] to [_ 6 0] [_ 7 5]

5 ADMIXTURES
   (See Cement Additive Codes, Table A 12) None — [_ _] [_ _]

6 SLUMP, INCHES
   Mean
   Range [_ 0] to [_ 1] [_ 2]

7 FLEXURAL STRENGTH (MODULUS OF RUPTURE), PSI [_ _ _ _]
   (Based on 3rd Point Loading) Curing Time, Days [_ _]
   If Unavailable, and Other Strength Test Conducted,
   Enter Alternate Test [Compressive]
   Type of Loading [_____]
   Age, Days [2 8], Strength, PSI [3 5 0 0]

8 AMBIENT CONDITIONS AT TIME OF PATCHING LOW [_ 3 0]
   Air Temperature °F HIGH [_ 7 0]
   Surface Moisture - Dry = 1, Wet = 2 [1]

9 MAXIMUM SIZE OF COARSE AGGREGATE, INCHES 1.5

10 CONSOLIDATION OF MATERIALS 1
   Internal Vibrators 1 Vibrating Screeds 2 Troweling 3
   Rolling 4 Tamping 5
   Other (Specify) 6 _____

12 FINISHING- 2
   Screeding 1 Hand-Troweling 2 Machine-Troweling 3
   Other (Specify) 4 _____

PREPARER [signature] EMPLOYER BRE DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 20 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 3]

1 JOINT FORMING METHOD — SHOULDER [5] — TRANSVERSE [5] — LONGITUDINAL [5]

None 1 Polyethylene Strip Insert. . 2 Styrofoam Insert 3
Fiberboard Insert 4 Sawing 5 Forms 6
Other (Specify) .. 7 _____

2. WAS BOND BREAKER USED BETWEEN ADJACENT LANES? [2]
Yes 1 No 2

3 CURING METHOD — METHOD 1 [1] METHOD 2 [ ]

None 1 Membrane Curing Compound 2 Burlap Curing Blankets 3
Waterproof Paper Blankets 4 White Polyethylene Sheeting 6
Burlap-Polyethylene Blankets 6 Insulating Layers 7
Cotton Mat Curing 8 Hay 9
Other (Specify) 10 _____

4 APPROXIMATE TYPICAL TIME BETWEEN PATCHING AND OPENING TO TRAFFIC, HOURS 720 [1] Month

5 TYPE OF TRANSVERSE JOINTS IN PATCHES 1 OR SLABS 1
None 1 All Expansion Joints 2 All Contraction Joints 3
Mixture of Expansion and Contraction Joints 4

6 WERE OLD JOINTS MATCHED? 2
Yes 1 No 2

PREPARER [signature] EMPLOYER BRE DATE 7/8/97

RECEIVED JUL - 9 1997 October 1990 (Heading revised October 1992)

SPS-6 CONSTRUCTION DATA SHEET 2 REVISED LAYER DESCRIPTIONS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 4]

1 LAYER NUMBER	2 LAYER DESCRIPTION	3. MATERIAL TYPE CLASS	4 LAYER THICKNESSES (Inches)			
			AVERAGE	MINIMUM	MAXIMUM	STD DEV
1	SUBGRADE(7)	[5 3]				
2	[5]	[2 7]	[6 0]	- - - -	- - - -	- - - -
3	[3]	[0 4]	[1 0 0]	- - - -	- - - -	- - - -
4	[1]	[0 1]	[4 2]	3 1	5 1	0 6
5	[ ]	[ ]	[- - -]	- - - -	- - - -	- - - -
6	[ ]	[ ]	[- - -]	- - - -	- - - -	- - - -
7	[ ]	[ ]	[- - -]	- - - -	- - - -	- - - -
8	[ ]	[ ]	[- - -]	- - - -	- - - -	- - - -
9	[ ]	[ ]	[- - -]	- - - -	- - - -	- - - -
10	[ ]	[ ]	[- - -]	- - - -	- - - -	- - - -
11	[ ]	[ ]	[- - -]	- - - -	- - - -	- - - -
12	[ ]	[ ]	[- - -]	- - - -	- - - -	- - - -
13	[ ]	[ ]	[- - -]	- - - -	- - - -	- - - -
14	[ ]	[ ]	[- - -]	- - - -	- - - -	- - - -
15	[ ]	[ ]	[- - -]	- - - -	- - - -	- - - -

NOTES

1 Layer 1 is subgrade soil, the highest numbered layer is the pavement surface

2 Layer description codes

Overlay	01	Base Layer	05	Porous Friction Course	09
Seal/Tack Coat w/overlay	02	Subbase Layer	06	Surface Treatment	10
Original Surface	03	Subgrade	07	Embankment (Fill)	11
HMAC Layer (Subsurface)	04	Interlayer	08		

If milling was performed, the layers which were milled shall be assigned their previous layer number and material type If the layer was completely removed by milling, it shall still be shown as a layer with a zero thickness

3 Enter the material type classification codes from Tables A 5, A 6, A 7 and A 8 which best describes the material in each layer If the layer was milled, enter the material classification code corresponding to the type material which was removed

4 Enter the average thickness of each layer and the maximum, minimum, and standard deviation of the thickness measurements, if known. If a layer was partially milled, the remaining thickness of the layer shall be indicated

PREPARER [signature] EMPLOYER BRE DATE 5-12-97

October 1990 (Heading revised October 1992)

SPS-6 CONSTRUCTION DATA SHEET 3 PRE-OVERLAY SURFACE PREPARATION SKETCH	* STATE CODE [05] * SPS PROJECT CODE [A6] * TEST SECTION NO [04]

No Sketch

PREPARER [illegible] EMPLOYER BRE DATE 5-12-~~96~~ 97

SPS-6 CONSTRUCTION DATA SHEET 4 OVERLAY PLACEMENT OPERATIONS	* STATE CODE [0 5] * SPS PROJECT CODE [4 6] * TEST SECTION NO [0 4]

1. DATE SURFACE PREPARATION BEGAN (Month-Day-Year) [1 0-1 5-9 6]
2. DATE SURFACE PREPARATION COMPLETED [1 2-1 7-9 6]

3. SURFACE PREPARATION PRIOR TO PLACEMENT OF OVERLAY [3]
   None 1 Broomed . 2 Broomed + Asphaltic Tack Coat 3
   Asphaltic Tack Coat (only) 4

4. TACK COAT
   Layer Numbers [_ ■] [_ 4]
   Material Type None 1 SS-1 2 SS-1H 3 CRS-1 4 [_ 2]
   CRS-2 5 CMS-2 6 CMS-2H 7 CSS-1 8 CSS-1H 9
   Other 10 (Specify) _____
5 TACK COAT DILUTION
   (Percent) [5 0]
   Mixing Rate Parts Diluent ___ TO Parts Asphalt ___
6 TACK COAT APPLICATION RATE (Gal/Sq Yd) [0 0 3]

7 ASPHALT CONCRETE PLANT AND HAUL

	Type	Name	Haul Distance (Mi)	Time (Min)	Layer Numbers		
Plant 1	[2]	EC Rowlett	[_ 3 3]	[3 5]	[4]	[_]	[_]
Plant 2	[_]	_____	[_ _ _]	[_ _]	[_]	[_]	[_]
Plant 3	[_]	_____	[_ _ _]	[_ _]	[_]	[_]	[_]

Plant Type Batch 1 Drum Mix 2 Other 3 Specify _____

8 MANUFACTURER OF ASPHALT CONCRETE PAVER Blaw-Knox

9 MODEL DESIGNATION OF ASPHALT CONCRETE PAVER PF 5510

10 SINGLE PASS LAYDOWN WIDTH (Feet) [1 3 0]

11 AC BINDER COURSE
   Layer Number [_ 4]
   Nominal First Lift Placement Thickness - Uncompacted (Inches) [1 5]
   Nominal Second Lift Placement Thickness - Uncompacted (Inches) [_ _]
12 AC SURFACE COURSE
   Layer Number [_ 4]
   Nominal First Lift Placement Thickness - Uncompacted (Inches) [3 2]
   Nominal Second Lift Placement Thickness - Uncompacted (Inches) [_ _]
13 SURFACE FRICTION COURSE
   Layer Number [_ _]
   Nominal Placement Thickness - Uncompacted (Inches) [_ _]
14 TEST SECTION STATION OF TRANSVERSE JOINTS (within test section)
   Binder Course [_ + _ _]
   Surface Course [_ + _ _]
   Surface-Friction Course [_ + _ _]
15 LOCATION OF LONGITUDINAL SURFACE JOINT [1]
   Between lanes 1 Within lane 2 [1 2 _]
   (specify offset from outside edge of lane in feet)
16. SIGNIFICANT EVENTS DURING CONSTRUCTION(disruptions, rain, equip problems, etc)

_____

_____

PREPARER [signature] EMPLOYER BRE DATE 5-12-97

SPS-6 CONSTRUCTION DATA SHEET 5 OVERLAY COMPACTION DATA	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO. [0 4]

1 DATE PAVING OPERATIONS BEGAN (Month-Day-Year) [1 0-1 5-9 6]
2 DATE PAVING OPERATIONS COMPLETED [1 2-1 7-9 6]

3 LAYER NUMBER [4]

4 MIXING TEMPERATURE (°F) [3 1 0]
5 LAYDOWN TEMPERATURES (°F)
Mean. 2 8 5
Minimum 2 8 5
Standard Deviation — 0 0

Number of Tests . . — 1
Maximum . . 2 8 5.

ROLLER DATA

	Roller Code #	Roller Description	Gross Wt (Tons)	Tire Press (psi)	Frequency (Vibr /Min)	Amplitude (Inches)	Speed (mph)
6	A	Steel-Whl Tandem	— — —				
7	B	Steel-Whl Tandem	— — —				
8	C	Steel-Whl Tandem	— — —				
9	D	Steel-Whl Tandem	— — —				
10	E	Pneumatic-Tired	— — —	— — — —			
11	F	Pneumatic-Tired	— — —	— — — —			
12	G	Pneumatic-Tired	— — —	— — — —			
13	H	Pneumatic-Tired	— — —				
14	I	Single-Drum Vibr	— — —		— — — —	— — —	— — —
15	J	Single-Drum Vibr	— — —		— — — —	— — —	— — —
16	K	Single-Drum Vibr	— — —		— — — —	— — —	— — —
17	L	Single-Drum Vibr	— — —		— — — —	— — —	— — —
18	M	Double-Drum Vibr	1 1 8		— — — —	— — —	— — —
19	N	Double-Drum Vibr	— — —		— — — —	— — —	— — —
20	O	Double-Drum Vibr	— — —		— — — —	— — —	— — —
21	P	Double-Drum Vibr	— — —		— — — —	— — —	— — —
22	Q	Other	Combination Steel (Static drum) + Rubber Tires				

	COMPACTION DATA	First Lift	Second Lift	Third Lift	Fourth Lift
	BREAKDOWN				
23	Roller Code (A-Q)	M	—	—	—
24	Coverages	— 4	— —	— —	— —
	INTERMEDIATE				
25	Roller Code (A-Q)	—	—	—	—
26	Coverages	— —	— —	— —	— —
	FINAL				
27	Roller Code (A-Q)	Q	—	—	—
28	Coverages	— 2	— —	— —	— —
29	Air Temperature (°F)	— 6 5	— — —	— — —	— — —
30	Compacted Thickness (In)	4 2	— —	— —	— —
31	Curing Period (Days)	— — —	— — —	— — —	— — —

PREPARER [signature] EMPLOYER BRE DATE 5-12-97

SPS-6 CONSTRUCTION DATA SHEET 6 CONSTRUCTION QUALITY CONTROL MEASUREMENTS	* STATE CODE [05] * SPS PROJECT CODE [A6] * TEST SECTION NO [04]

1 DATE MEASUREMENTS BEGAN (Month-Day-Year) [12-17-96]
2 DATE MEASUREMENTS COMPLETED [12-19-96]

3 NUCLEAR DENSITY MEASUREMENTS (Wet Density)

LAYER TYPE	Rut Level-Up	Mill Replacement	Binder Course	Surface Course	Surface Friction
Measurement Method (A, B, C)[1]				A	
Rod Depth (Inches)					
Number of Measurements				12	
Average (pcf)				1297	
Maximum (pcf)				1364	
Minimum (pcf)				1259	
Standard Deviation (pcf)				37	
Layer Number				4	

[1]Measurement Method Backscatter A Direct Transmission B Air Gap C

4 MANUFACTURER OF NUCLEAR DENSITY GAUGE Troxler

5 NUCLEAR DENSITY GAUGE MODEL NUMBER

6 NUCLEAR DENSITY GAUGE IDENTIFICATION NUMBER #24

7 NUCLEAR GAUGE DENSITY COUNT RATE FOR STANDARDIZATION

8 PROFILOGRAPH MEASUREMENTS
Profilograph Type California.. 1 Rainhart 2 ~~3~~
Profile Index (Inches/Mile)
Interpretation Method Manual 1 Mechanical 2 Computer 3 ~~3~~
Height of Blanking Band (Inches)
Cutoff Height (Inches)

9. SURFACE PROFILE USED AS BASIS OF INCENTIVE PAYMENT? (YES, NO) No

PREPARER [signature] EMPLOYER BRE DATE 5-13-97

SPS-6 CONSTRUCTION DATA SHEET 7 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 4]

1 DATE MEASUREMENTS BEGAN (Month-Day-Year) [1 0 - 1 1 - 9 6]
2 DATE MEASUREMENTS COMPLETED [1 2 - 1 1 - 9 6]

SHEET 1 OF 2

LAYER THICKNESS MEASUREMENTS (Inches)

STATION NUMBER	OFFSET (Inches)	RUT LEVEL-UP	MILL REPLACEMENT	BINDER COURSE	SURFACE COURSE	SURFACE FRICTION
0+00	0				50	
	36				54	
	72				52	
	108				52	
	144				50	
0+50	0				53	
	36				50	
	72				48	
	108				50	
	144				49	
1+00	0				48	
	36				46	
	72				45	
	108				47	
	144				39	
1+50	0				51	
	36				47	
	72				46	
	108				48	
	144				42	
2+00	0				56	
	36				54	
	72				52	
	108				53	
	144				53	
2+50	0				61	
	36				56	
	72				55	
	108				55	
	144				54	
3+00	0				58	
	36				53	
	72				50	
	108				50	
	144				50	
LAYER NUMBER					4	

PREPARER [signature] EMPLOYER BRE DATE 5-13-97

SPS-6 CONSTRUCTION DATA SHEET 7 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 4]

1 DATE MEASUREMENTS BEGAN (Month-Day-Year) [1 0-1 1-9 6]
2. DATE MEASUREMENTS COMPLETED [1 2-1 1-9 6]

LAYER THICKNESS MEASUREMENTS (Inches)

SHEET 2 OF 2

STATION NUMBER	OFFSET (Inches)	RUT LEVEL-UP	MILL REPLACEMENT	BINDER COURSE	SURFACE COURSE	SURFACE FRICTION
3+50	0				55	
	36				50	
	72				48	
	108				48	
	144				48	
4+00	0				48	
	36				46	
	72				43	
	108				45	
	144				45	
4+50	0				47	
	36				43	
	72				41	
	108				40	
	144				40	
5+00	0				41	
	36				38	
	72				35	
	108				34	
	144				37	
+	0					
	36					
	72					
	108					
	144					
+	0					
	36					
	72					
	108					
	144					
+	0					
	36					
	72					
	108					
	144					
LAYER NUMBER					4	

PREPARER [signature] EMPLOYER BRE DATE 5-13-97

SPS-6 CONSTRUCTION DATA SHEET 8 MISCELLANEOUS CONSTRUCTION NOTES AND COMMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 4]

Provide any miscellaneous comments and notes concerning construction operations which may have an influence on the ultimate performance of the test sections or which may cause undesired performance differences to occur between test sections Also include any quality control measurements or data for which space is not provided on other forms Provide an indication of the basis for such measurements, such as an ASTM, AASHTO, or Agency standard test designation

PREPARER [illegible] EMPLOYER BRE DATE 5-13-97

SPS-6 CONSTRUCTION DATA SHEET 9 PARTIAL DEPTH PATCHING FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 4]

1 DATE PATCHING OPERATIONS BEGAN (Month-Day-Year) [1 0-0 1-9 6]

2 DATE PATCHING OPERATIONS COMPLETED [1 2-0 1-9 6]

3 PRIMARY DISTRESS OCCURRENCE PATCHED (code from Table A 22) [2 5]
Other (Specify) _____

4. SECONDARY DISTRESS OCCURRENCE PATCHED (code from Table A 22) [3 4]
Other (Specify) _____

5. PATCHES
Total Square Feet [_ 1 4 3]
Number [2 2]
Average Depth, Inches [_ 4 0]

6 METHOD USED FOR PATCH BOUNDARY DETERMINATION 1
Visual 1 Ball Peen Hammer, Steel Rod, Chain or Equivalent 2
Delam-Tech 3 Other (Specify) 4 _____

7 METHOD USED TO CUT BOUNDARIES 1
Diamond Blade Saw 1 Carbide Blade Saw 2 None 3 Air Hammer 4
Cold Milling 5 Other (Specify) 6 _____

8 METHOD USED TO BREAK UP AND/OR REMOVE DETERIORATED CONCRETE 1
Jackhammer 1 Cold Milling 2
Other (Specify) 3 _____

9 METHOD FOR FINAL CLEANING OF PATCH AREA 4
None 1 Sandblasting 2 Waterblasting 3
Other (Specify) 4 Only Air-Blast

PREPARER [signature] EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 10 PARTIAL DEPTH PATCHING FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO. [0 4]

1. PATCH MATERIAL USED [1]
   Portland Cement Concrete... 1 Polymer Concrete... 2 Epoxy Mortar... 3
   Other (Specify)... 5 _____

2. BONDING AGENT [1]
   None... 1 Cement Grout... 2 Epoxy Resin... 3
   Other (Specify)... 5 _____

3. MIXTURE DESIGN FOR PATCH MATERIAL, LB./CUBIC YARD
   Coarse Aggregate [1 8 7 2.]
   Fine Aggregate [1 3 9 4.]
   Cement [_ 7 6 4.]
   Water (Gallons/Cubic yd.) [_ _ 3 6.]

4. MAXIMUM SIZE OF COARSE AGGREGATE, INCHES 1.5

5. CEMENT TYPE USED [4 1]
   (See Cement Type Codes, Tables A.11)

6. AIR CONTENT, PERCENT BY VOLUME
   Mean [_ 6.0]
   Range Min [_ 4.5]
   Max [_ 7.5]

7. ADMIXTURES
   (See Cement Additive Codes, Table A.12) None [_ _] [_ _]

8. SLUMP, INCHES
   Mean [1.2]
   Range Min [_.0]
   Max [2.0]

9. COMPRESSIVE STRENGTH OF PATCH MATERIAL, PSI [3 5 0 0.]
   Curing Time, Days [2 8]
   If Unavailable, and Other Strength Test Conducted,
   Alternate Test [N/Available]
   Type of Loading [_____]
   Age, Days [_ _]; Strength, PSI [_ _ _ _.]

PREPARER Timothy J. Martin EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 11 PARTIAL DEPTH PATCHING FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 4]

1 CURING METHOD METHOD 1 [0 2]
METHOD 2 [_ _]

None 1 Membrane Curing Compound 2 Burlap Curing Blankets 3
Waterproof Paper Blankets 4 White Polyethylene Sheeting 5
Burlap-Polyethylene Blankets 6 Insulating Layers 7
Cotton Mat Curing 8 Hay 9
Other (Specify) 10 _____

2 APPROXIMATE TIME BETWEEN PATCHING AND OPENING TO TRAFFIC, HOURS 720 [_ 1] Month

3 AMBIENT CONDITIONS AT TIME OF PATCHING LOW [_ 3 0]
Air Temperature °F HIGH [_ 7 0]
Surface Moisture - Dry = 1, Wet = 2 [1]

4 METHOD OF CONSOLIDATING MATERIALS 1
Vibrators 1 Vibrating Screeds 2 Troweling 3
Rodding/Tamping 4 Rolling 5
Other (Specify) 6 _____

5 FINISHING METHOD 2
Screeding 1 Hand-Troweling 2 Machine-Troweling 3
Other (Specify) 4 _____

6 JOINT FORMING METHOD
Shoulder 5
Transverse 5
Longitudinal 5

None 1 Polyethylene Strip Insert 2 Styrofoam Insert 3
Fiberboard Insert 4 Sawing 5 Forms 6
Other (Specify) 7 _____

PREPARER Timothy J. Martin EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 12 JOINT RESEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO. [0 4]

1. DATE JOINT SEALANT OPERATIONS BEGAN (Month-Day-Year) [1 0-0 1-9 6]

2. DATE JOINT SEALANT OPERATIONS COMPLETED [1 1-0 1-9 6]

3. METHOD OF REMOVING OLD SEALANT [9]
   Not Removed... 1 Joint Plow - V-Shaped... 2 Joint Plow - Rectangular.... 3
   High Pressure Water Blasting... 4 Diamond Blade Saw... 5
   Carbide Blade Saw... 6 Pull-Out of Old Compression Sealant... 7
   Not Previously Sealed... 8
   Other (Specify)... 9 Air Blast

4. NEW SEALANT RESERVOIR DIMENSIONS, INCHES
   Width [0 .3]
   Depth (From Top of Slab to Top of Backer Rod or Tape) [1 .3]

5. BOND BREAKER UNDER SEALANT [3]
   None... 1 Nonreactive Adhesive Backed Tape... 2 Backer Rod... 3
   Other (Specify)... 4 _____

6. WERE JOINT SIDEWALLS REFACED? 1
   No... 1 Yes - One-Blade... 2 Yes - Two-Blade... 3
   Other (Specify)... 4 _____

7. CLEANING OF SIDEWALLS [2]
   None... 1 Air Blast... 2 Sand Blast... 3 Water Blast ... 4
   Other (Specify)... 4 _____

PREPARER Timothy J. Martz EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 13 JOINT RESEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 4]

1. TYPE OF CONTRACTION JOINT SEALANT [7]
(AASHTO OR ASTM SPECIFICATIONS)

D1850 (ASTM) Concrete Joint Sealer, Cold-Application Type 1
D1190 (ASTM) - M173 (AASHTO) Concrete Joint Sealer, Hot-Poured Elastic Type 2
D3406 (ASTM) - M282 (AASHTO) Joint Sealants, Hot-Poured, Elastomeric-Type, for PCC Pavements 3
D3405 (ASTM) - M301 (AASHTO) Joint Sealants, Hot-Poured for Concrete and Asphalt Pavements 4
D3542 (ASTM) Preformed Polychloroprene Elastomeric Joint Seals for Bridges 5
D2628 (ASTM) Preformed Polychloroprene Elastomeric Joint Seals for Concrete Pavements 6
Other (Describe - if Silicone Material is Used Federal Spec TT-S-001543A, Georgia D O T Spec 833 06, or Equal Applies, 7
Dow Corning 890, Silicon Sealant

Manufacturer Information on Type of Pressure Relief Joint Sealant
Manufacturer Name [ ]
Manufacturer Sealant Name [ ]

2 AVERAGE DEPTH OF TOP OF SEALANT PLACEMENT BELOW PAVEMENT SURFACE, INCHES [0 8]

3 ARE EXPANSION JOINTS SEALED DIFFERENTLY THAN CONTRACTION JOINTS? [2]
Yes 1 No 2

If Yes, Enter the code from Item 1, or describe below [ ]

Other [There were no expansion joints used.]

4 TOTAL LINEAR FEET OF JOINTS SEALED
Transverse Joints [3 8 4 0]
Longitudinal Joints [5 0 0 0]

NOTE IF DIFFERENT MATERIALS OR METHODS ARE USED REPEAT SHEETS 15 AND 16 FOR EACH RECORDING THEIR LENGTHS IN ITEM NO 4

PREPARER Timothy J Martin EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 14 CRACK SEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO. [0 4]

1. DATE CRACK SEALING OPERATIONS BEGAN (Month-Day-Year) [1 0-0 1-9 6]

2. DATE CRACK SEALING OPERATIONS COMPLETED [1 1-0 1-9 6]

3. NEW SEALANT RESERVOIR DIMENSIONS, INCHES, If Used
   Width
   Depth (From Top of Slab to Top of Backer Rod or Tape) [_ _ . _]

4. BOND BREAKER UNDER SEALANT, If Used [1]
   None... 1 Nonreactive Adhesive Backed Tape... 2 Backer Rod... 3
   Other (Specify)... 4 _____

5. CLEANING OF CRACKS [1]
   None... 1 Routing... 2 Air Blast... 3 Steel Wire Brush... 4
   Brooming... 5 Other (Specify)... 4 _____

No cracks were sealed during construction.

PREPARER Timothy J. Martin EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 15 CRACK SEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 4]

1 TYPE OF SEALANT [7]
(AASHTO OR ASTM SPECIFICATIONS)

D1850 (ASTM) Concrete Joint Sealer, Cold-Application Type 1
D1190 (ASTM) - M173 (AASHTO) Concrete Joint Sealer, Hot-Poured Elastic Type 2
D3406 (ASTM) - M282 (AASHTO) Joint Sealants, Hot-Poured, Elastomeric-Type, for PCC Pavements 3
D3405 (ASTM) - M301 (AASHTO) Joint Sealants, Hot-Poured for Concrete and Asphalt Pavements 4
D3542 (ASTM) Preformed Polychloroprene Elastomeric Joint Seals for Bridges 5
D2628 (ASTM) Preformed Polychloroprene Elastomeric Joint Seals for Concrete Pavements 6
Other (Describe - if Silicone Material is Used Federal Spec TT-S-001543A, Georgia D O T Spec 833 06, or Equal Applies 7
Dow Corning 890 - Silicon Sealant

Manufacturer Information on Type of Pressure Relief Crack Sealant
Manufacturer Name [ ]
Manufacturer Sealant Name [ ]

2 AVERAGE DEPTH OF TOP OF SEALANT PLACEMENT
Below Pavement Surface, Inches varies [1 0]

3 TOTAL LINEAR FEET OF CRACKS SEALED [5 2 1 4]

NOTE IF DIFFERENT MATERIALS OR METHODS ARE USED REPEAT SHEETS 17 AND 18 FOR EACH RECORDING THEIR LENGTHS IN ITEM NO 3

PREPARER Timothy J. Martin EMPLOYER BRE/SRCO DATE 7/8/97

April 1991 (Heading revised October 1992)

SPS-6 CONSTRUCTION DATA SHEET 17 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 4]

1 DATE PATCHING OPERATIONS BEGAN (Month-Day-Year) [1 0-0 1-9 6]

2. DATE PATCHING OPERATIONS COMPLETED [1 2-0 1-9 6]

3. PRIMARY DISTRESS OCCURRENCE PATCHED OR REPLACED WITH NEW SLAB [3 4]
(See Table A 22 for Type Codes)
Other (Specify) _____

4 SECONDARY DISTRESS OCCURRENCE PATCHED OR REPLACED WITH NEW SLAB 2 5
(See Table A 22 for Type Codes)
Other (Specify) _____

5 PATCHES

	NUMBER	SQ FEET
SLAB ONLY	[4]	[3 2 2]
SLAB AND BASE	[0]	[0]

6 PATCH MATERIAL USED [1]
Portland Cement Concrete 1 Polymer Concrete 2 Epoxy Mortar 4
Other (Specify) 5 _____

7. SLABS REPLACED

	NUMBER	SQ FEET
SLAB ONLY	[0]	[0]
SLAB AND BASE	[0]	[0]

8 METHOD FOR PATCH BOUNDARY DETERMINATION 1
Visual 1 Coring 2 Deflection 3
State Standard or Specification 4
Other (Specify) 5 _____ _____

9 CUTTING INSTRUMENT 1
Diamond Blade Saw 1 Carbide Blade Saw 2 Wheel Saw 3
Air Hammer 4
Other (Specify) 5 _____

PREPARER [signature] EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 18 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 4]

1 SECURING LOAD TRANSFER DEVICES [1]
None . 1 Grout Filler 2 Epoxy filler . 3
Other 4 _____

2 REINFORCING STEEL PLACED IN PATCH [2]
No 1 Yes 2

		TEMPERATURE STEEL Transverse	TEMPERATURE STEEL Longitudinal
3	REBAR NUMBER	[8]	[ ]
4	BAR LENGTHS, INCHES	[1 3 0]	[ ]
5	BAR SPACING, INCHES	[1 2 0]	[ ]

		Dowel Bars	Tie Bars
6	REBAR NUMBER	[8]	[ ]
7	BAR LENGTHS, INCHES	[1 9]	[ ]
8	BAR SPACING, INCHES	[1 2]	[ ]

9 DOWEL COATINGS [2]
None 1 Paint and/or Grease 2 Plastic 3
Monel 4 Stainless Steel 5 Epoxy 6
Other (Specify) 7 _____

10 NUMBER OF SAW CUTS PER PATCH (If Sawed) 4

11 DEPTH OF TYPICAL BOUNDARY SAW CUT, INCHES 1 0 0

12 CONCRETE BREAKUP 2
None 1 Pneumatic Air Hammer 2 Gravity Drop Hammer 3
Sawing 4
Other (Specify) 5 _____

13 REMOVAL OF CONCRETE 1
Concrete Breakup and Cleanout 1 Lift Out Intact Slab Section 2
Other (Specify) 3 _____

PREPARER Timothy J. Martin EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 19 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 4]

1 METHOD OF REINFORCING STEEL PLACEMENT [1]
Chairs 1 Between Layers of Concrete 2

2 MIXTURE DESIGN FOR PATCH MATERIAL, LB /CUBIC YARD
Coarse Aggregate [1 8 7 2]
Fine Aggregate [1 3 9 4]
Cement [7 6 4]
Water (Gallons/Cubic Yard) [3 6]

3 CEMENT TYPE USED [4 1]
(See Type Codes, Tables A 11)

4 AIR CONTENT, PERCENT BY VOLUME
Mean
Range [4 5] to [6 0]
[7 5]

5 ADMIXTURES
(See Cement Additive Codes, Table A 12) None [ ]
[ ]

6 SLUMP, INCHES
Mean
Range [0] to [1 .]
[2]

7 FLEXURAL STRENGTH (MODULUS OF RUPTURE), PSI [ ]
(Based on 3rd Point Loading) Curing Time, Days [ ]
If Unavailable, and Other Strength Test Conducted,
Enter Alternate Test [Compressive]
Type of Loading [ ]
Age, Days [2 8], Strength, PSI [3 5 0 0]

8 AMBIENT CONDITIONS AT TIME OF PATCHING LOW [3 0]
Air Temperature °F HIGH [7 0]
Surface Moisture - Dry = 1, Wet = 2 [1]

9 MAXIMUM SIZE OF COARSE AGGREGATE, INCHES 1 5

10 CONSOLIDATION OF MATERIALS 1
Internal Vibrators 1 Vibrating Screeds 2 Troweling 3
Rolling 4 Tamping 5
Other (Specify) 6 _____

12 FINISHING 2
Screeding 1 Hand-Troweling 2 Machine-Troweling 3
Other (Specify) 4 _____

PREPARER Timothy J. Martin EMPLOYER BRE DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 20 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 4]

1 JOINT FORMING METHOD — SHOULDER [5] — TRANSVERSE [5] — LONGITUDINAL [5]

None 1 Polyethylene Strip Insert 2 Styrofoam Insert 3
Fiberboard Insert 4 Sawing 5 Forms 6
Other (Specify) 7 _____

2 WAS BOND BREAKER USED BETWEEN ADJACENT LANES? [2]
Yes 1 No 2

3 CURING METHOD — METHOD 1 [2] METHOD 2 [ ]

None 1 Membrane Curing Compound 2 Burlap Curing Blankets 3
Waterproof Paper Blankets 4 White Polyethylene Sheeting 6
Burlap-Polyethylene Blankets . 6 Insulating Layers 7
Cotton Mat Curing 8 Hay 9
Other (Specify) 10 _____

4 APPROXIMATE TYPICAL TIME BETWEEN PATCHING AND OPENING TO TRAFFIC, HOURS 720 [1] Month

5 TYPE OF TRANSVERSE JOINTS IN PATCHES 1 OR SLABS 1
None 1 All Expansion Joints 2 All Contraction Joints 3
Mixture of Expansion and Contraction Joints 4

6 WERE OLD JOINTS MATCHED? 2
Yes 1 No 2

PREPARER Timothy J. Martin EMPLOYER BRE DATE Timothy J. Martin

SPS-6 CONSTRUCTION DATA SHEET 27 SAW AND SEAL DATA FOR PORTLAND CEMENT CONCRETE SURFACES WITH ASPHALT CONCRETE OVERLAYS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO. [0 4]

1. DATE SAW AND SEAL OPERATION BEGAN (Month-Day-Year) [1 2-0 6-9 6]
2. DATE SAW AND SEAL OPERATION COMPLETED [1 2-0 6-9 6]
3. NUMBER OF JOINTS SAWED [_ 4 2.]
4. NUMBER OF DAYS AFTER PLACEMENT OF OVERLAY BEFORE SAWING AND SEALING OPERATION BEGAN [_ 4.]
5. AVERAGE EXTENT OF SAW CUT INTO SHOULDER, INCHES [3 0 .0]
6. AVERAGE DEPTH OF SAW CUT, INCHES [1 .5 0]
7. AVERAGE WIDTH OF SAW CUT, INCHES [0 .3 8]
8. AVERAGE SHAPE FACTOR OF JOINT [_ . _ _]

PREPARER Timothy J. Martin EMPLOYER BRE DATE 7/2/97

RECEIVED JUL - 9 1997

October 1990 (Heading revised October 1992)

SPS-6 CONSTRUCTION DATA SHEET 3 PRE-OVERLAY SURFACE PREPARATION SKETCH	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO. [0 5]

No sketch

PREPARER [illegible] EMPLOYER BRE DATE 5-12-97

October 1990 (Heading revised October 1992)

SPS-6 CONSTRUCTION DATA SHEET 8 MISCELLANEOUS CONSTRUCTION NOTES AND COMMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 5]

Provide any miscellaneous comments and notes concerning construction operations which may have an influence on the ultimate performance of the test sections or which may cause undesired performance differences to occur between test sections Also include any quality control measurements or data for which space is not provided on other forms Provide an indication of the basis for such measurements, such as an ASTM, AASHTO, or Agency standard test designation.

Full-Depth patching, as indicated in sheets 17-20, was the treatment chosen to restore load transfer, as indicated in sheets 21+22 Load transfer deficiencies were determined visually and w/ a hammer by ARSHTO

PREPARER Timothy J Martin EMPLOYER BRE DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 9 PARTIAL DEPTH PATCHING FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [4 6] * TEST SECTION NO [0 5]

1 DATE PATCHING OPERATIONS BEGAN (Month-Day-Year) [1 0-0 8-9 6]

2 DATE PATCHING OPERATIONS COMPLETED [1 2-2 6-9 6]

3 PRIMARY DISTRESS OCCURRENCE PATCHED (code from Table A 22) [25
Other (Specify) _____

4 SECONDARY DISTRESS OCCURRENCE PATCHED (code from Table A 22) [3 4
Other (Specify) _____

5 PATCHES
Total Square Feet [2 9 3]
Number [4 9]
Average Depth, Inches [4 0]

6 METHOD USED FOR PATCH BOUNDARY DETERMINATION 1
Visual 1 Ball Peen Hammer, Steel Rod, Chain or Equivalent 2
Delam-Tech 3 Other (Specify) 4 _____

7 METHOD USED TO CUT BOUNDARIES 1
Diamond Blade Saw 1 Carbide Blade Saw 2 None 3 Air Hammer 4
Cold Milling 5 Other (Specify) 6 _____

8 METHOD USED TO BREAK UP AND/OR REMOVE DETERIORATED CONCRETE 1
Jackhammer 1 Cold Milling 2
Other (Specify) 3 _____

9 METHOD FOR FINAL CLEANING OF PATCH AREA 4
None 1 Sandblasting 2 Waterblasting 3
Other (Specify) 4 Only air-blasting

PREPARER [signature] EMPLOYER BRE DATE 5-12-97

SPS-6 CONSTRUCTION DATA SHEET 10 PARTIAL DEPTH PATCHING FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO. [0 5]

1. PATCH MATERIAL USED [1]
   Portland Cement Concrete... 1 Polymer Concrete... 2 Epoxy Mortar... 3
   Other (Specify)... 5 _____

2. BONDING AGENT [1]
   None... 1 Cement Grout... 2 Epoxy Resin... 3
   Other (Specify)... 5 _____

3. MIXTURE DESIGN FOR PATCH MATERIAL, LB./CUBIC YARD
   Coarse Aggregate [1 8 7 2.]
   Fine Aggregate [1 3 9 4.]
   Cement [7 6 4.]
   Water (Gallons/Cubic yd.) [3 6.]

4. MAXIMUM SIZE OF COARSE AGGREGATE, INCHES 1.5

5. CEMENT TYPE USED [4 1]
   (See Cement Type Codes, Tables A.11)

6. AIR CONTENT, PERCENT BY VOLUME
   Mean [6.0]
   Range Min [4.5]
   Max [7.5]

7. ADMIXTURES
   (See Cement Additive Codes, Table A.12) None [ ] [ ]

8. SLUMP, INCHES
   Mean [1.2]
   Range Min [.0]
   Max [2.0]

9. COMPRESSIVE STRENGTH OF PATCH MATERIAL, PSI [3500.]
   Curing Time, Days [28]
   If Unavailable, and Other Strength Test Conducted,
   Alternate Test [N/Available]
   Type of Loading [ ]
   Age, Days [ ]; Strength, PSI [ ]

PREPARER [signature] EMPLOYER BRE DATE 5-12-97

SPS-6 CONSTRUCTION DATA SHEET 11 PARTIAL DEPTH PATCHING FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 5]

1 CURING METHOD — METHOD 1 [0 2] METHOD 2 [_ _]

None 1 Membrane Curing Compound . 2 Burlap Curing Blankets 3
Waterproof Paper Blankets 4 White Polyethylene Sheeting 5
Burlap-Polyethylene Blankets 6 Insulating Layers 7
Cotton Mat Curing 8 Hay 9
Other (Specify) 10 _____

2 APPROXIMATE TIME BETWEEN PATCHING AND OPENING TO TRAFFIC, HOURS 720 [_ 1] month

3 AMBIENT CONDITIONS AT TIME OF PATCHING — LOW [_ 3 0] HIGH [_ 7 0]
Air Temperature °F
Surface Moisture - Dry = 1, Wet = 2 [1]

4 METHOD OF CONSOLIDATING MATERIALS 1
Vibrators 1 Vibrating Screeds 2 Troweling 3
Rodding/Tamping 4 Rolling 5
Other (Specify) 6 _____

5 FINISHING METHOD 2
Screeding 1 Hand-Troweling 2 Machine-Troweling 3
Other (Specify) 4 _____

6 JOINT FORMING METHOD
Shoulder 5
Transverse 5
Longitudinal 5

None 1 Polyethylene Strip Insert 2 Styrofoam Insert 3
Fiberboard Insert 4 Sawing 5 Forms 6
Other (Specify) 7 _____

PREPARER [signature] EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 12 JOINT RESEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 5]

1 DATE JOINT SEALANT OPERATIONS BEGAN (Month-Day-Year) [1 0-0 1-9 6]

2 DATE JOINT SEALANT OPERATIONS COMPLETED [1 1-0 1-9 6]

3 METHOD OF REMOVING OLD SEALANT [9]
Not Removed 1 Joint Plow - V-Shaped 2 Joint Plow - Rectangular 3
High Pressure Water Blasting 4 Diamond Blade Saw 5
Carbide Blade Saw 6 Pull-Out of Old Compression Sealant 7
Not Previously Sealed 8
Other (Specify) 9 Air blast

4 NEW SEALANT RESERVOIR DIMENSIONS, INCHES
Width [0 3]
Depth (From Top of Slab to Top of Backer Rod or Tape) [1 5]

5 BOND BREAKER UNDER SEALANT [3]
None 1 Nonreactive Adhesive Backed Tape 2 Backer Rod 3
Other (Specify) 4 _____

6 WERE JOINT SIDEWALLS REFACED? 1
No 1 Yes - One-Blade 2 Yes - Two-Blade 3
Other (Specify) 4 _____

7 CLEANING OF SIDEWALLS [2]
None 1 Air Blast 2 Sand Blast 3 Water Blast 4
Other (Specify) 4 _____

PREPARER [signature] EMPLOYER BRE DATE 7/2/97

SPS-6 CONSTRUCTION DATA SHEET 13 JOINT RESEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [4 6] * TEST SECTION NO [0 5]

1 TYPE OF CONTRACTION JOINT SEALANT (AASHTO OR ASTM SPECIFICATIONS) [7]

D1850 (ASTM) Concrete Joint Sealer, Cold-Application Type 1
D1190 (ASTM) - M173 (AASHTO) Concrete Joint Sealer, Hot-Poured Elastic Type 2
D3406 (ASTM) - M282 (AASHTO) Joint Sealants, Hot-Poured, Elastomeric-Type, for PCC Pavements 3
D3405 (ASTM) - M301 (AASHTO) Joint Sealants, Hot-Poured for Concrete and Asphalt Pavements 4
D3542 (ASTM) Preformed Polychloroprene Elastomeric Joint Seals for Bridges 5
D2628 (ASTM) Preformed Polychloroprene Elastomeric Joint Seals for Concrete Pavements 6
Other (Describe - if Silicone Material is Used Federal Spec TT-S-001543A, Georgia D O T Spec 833 06, or Equal Applies 7
Dow Corning 890, Silicon Sealant

Manufacturer Information on Type of Pressure Relief Joint Sealant
Manufacturer Name [ ]
Manufacturer Sealant Name [ ]

2 AVERAGE DEPTH OF TOP OF SEALANT PLACEMENT BELOW PAVEMENT SURFACE, INCHES [0 8]

3 ARE EXPANSION JOINTS SEALED DIFFERENTLY THAN CONTRACTION JOINTS? N [2]
Yes 1 No 2

If Yes, Enter the code from Item 1, or describe below [ ]

Other [There were no expansion joints used]

4 TOTAL LINEAR FEET OF JOINTS SEALED
Transverse Joints [8 0 4 0]
Longitudinal Joints [1 0 0 0 0]

NOTE IF DIFFERENT MATERIALS OR METHODS ARE USED REPEAT SHEETS 15 AND 16 FOR EACH RECORDING THEIR LENGTHS IN ITEM NO 4

PREPARER Timothy J Martin EMPLOYER BRE DATE 7/2/97

SPS-6 CONSTRUCTION DATA SHEET 14 CRACK SEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO. [0 5]

1. DATE CRACK SEALING OPERATIONS BEGAN (Month-Day-Year) [1 0-0 1-9 6]

2. DATE CRACK SEALING OPERATIONS COMPLETED [1 1-0 1-9 6]

3. NEW SEALANT RESERVOIR DIMENSIONS, INCHES, If Used
   Width
   Depth (From Top of Slab to Top of Backer Rod or Tape) [_ _ . _]

4. BOND BREAKER UNDER SEALANT, If Used [1]
   None... 1 Nonreactive Adhesive Backed Tape... 2 Backer Rod... 3
   Other (Specify)... 4 _____

5. CLEANING OF CRACKS [1]
   None... 1 Routing... 2 Air Blast... 3 Steel Wire Brush... 4
   Brooming... 5 Other (Specify)... 4 _____

No cracks were sealed during construction.

PREPARER Tom W. Parman EMPLOYER BRE DATE 5-12-97

SPS-6 CONSTRUCTION DATA SHEET 15 CRACK SEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 5]

1 TYPE OF SEALANT [7]
(AASHTO OR ASTM SPECIFICATIONS)

D1850 (ASTM) Concrete Joint Sealer, Cold-Application Type 1
D1190 (ASTM) - M173 (AASHTO) Concrete Joint Sealer, Hot-Poured Elastic Type 2
D3406 (ASTM) - M282 (AASHTO) Joint Sealants, Hot-Poured, Elastomeric-Type, for PCC Pavements 3
D3405 (ASTM) - M301 (AASHTO) Joint Sealants, Hot-Poured for Concrete and Asphalt Pavements 4
D3542 (ASTM) Preformed Polychloroprene Elastomeric Joint Seals for Bridges 5
D2628 (ASTM) Preformed Polychloroprene Elastomeric Joint Seals for Concrete Pavements 6
Other (Describe - if Silicone Material is Used Federal Spec TT-S-001543A, Georgia D O T Spec 833 06 or Equal Applies 7
Dow Corning - 890 Silicon Sealant

Manufacturer Information on Type of Pressure Relief Crack Sealant
Manufacturer Name [ ]
Manufacturer Sealant Name [ ]

2 AVERAGE DEPTH OF TOP OF SEALANT PLACEMENT
Below Pavement Surface, Inches Varies [1 0]

3 TOTAL LINEAR FEET OF CRACKS SEALED [4 8 6 3]

NOTE IF DIFFERENT MATERIALS OR METHODS ARE USED REPEAT SHEETS 17 AND 18 FOR EACH RECORDING THEIR LENGTHS IN ITEM NO 3

PREPARER Timothy J. Martin EMPLOYER BRE DATE 7/2/97

SPS-6 CONSTRUCTION DATA SHEET 16 DIAMOND GRINDING FOR PORTLAND CEMENT CONCRETE PAVEMENT SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO. [0 5]

1 DATE DIAMOND GRINDING OPERATIONS BEGAN (Month-Day-Year) [1 0-0 1-9 6]

2. DATE DIAMOND GRINDING OPERATIONS COMPLETED [1 1-0 1-9 6]

3 REASON FOR GRINDING [1]
Elimination of Faulting 1 Elimination of Slab Warping 2
Improve Skid Resistance 3
Restoration of Transverse Drainage Slope 4
Other (Specify) 5 _____

4 AVERAGE DEPTH OF CUT, INCHES [0 2 5]

5 CUTTING HEAD WIDTH, INCHES 3 6 0 0

6 AVERAGE GROOVE WIDTH, INCHES 0 2

7 AVERAGE SPACING BETWEEN BLADES, INCHES 2

PREPARER [signature] EMPLOYER BRE DATE 7/2/97

SPS-6 CONSTRUCTION DATA SHEET 17 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [0 6] * TEST SECTION NO [0 5]

1 DATE PATCHING OPERATIONS BEGAN (Month-Day-Year) [1 0 0 1 - 9 6]

2 DATE PATCHING OPERATIONS COMPLETED [1 2 - 0 1 - 9 6]

3 PRIMARY DISTRESS OCCURRENCE PATCHED OR REPLACED WITH NEW SLAB [3 1]
(See Table A 22 for Type Codes)
Other (Specify) _____

4 SECONDARY DISTRESS OCCURRENCE PATCHED OR REPLACED WITH NEW SLAB 25
(See Table A 22 for Type Codes)
Other (Specify) _____

5 PATCHES

	NUMBER	SQ FEET
SLAB ONLY	[7]	[5 6 4]
SLAB AND BASE	[0]	[0]

6 PATCH MATERIAL USED [1]
Portland Cement Concrete 1 Polymer Concrete 2 Epoxy Mortar 4
Other (Specify) 5 _____

7 SLABS REPLACED

	NUMBER	SQ FEET
SLAB ONLY	[0]	[0]
SLAB AND BASE	[0]	[0]

8 METHOD FOR PATCH BOUNDARY DETERMINATION 1
Visual 1 Coring 2 Deflection 3
State Standard or Specification 4
Other (Specify) 5 _____

9 CUTTING INSTRUMENT 1
Diamond Blade Saw 1 Carbide Blade Saw 2 Wheel Saw 3
Air Hammer 4
Other (Specify) 5 _____

PREPARER [signature] EMPLOYER BRE DATE 5-12-97

SPS-6 CONSTRUCTION DATA SHEET 18 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO. [0 5]

1. SECURING LOAD TRANSFER DEVICES [1]
   None... 1 Grout Filler... 2 Epoxy filler...3
   Other... 4 _____

2. REINFORCING STEEL PLACED IN PATCH [2]
   No... 1 Yes... 2

	TEMPERATURE STEEL Transverse	TEMPERATURE STEEL Longitudinal
3. REBAR NUMBER	[8]	[ ]
4. BAR LENGTHS, INCHES	[1 3 . 0]	[.]
5. BAR SPACING, INCHES	[1 2 . 0]	[.]

	Dowel Bars	Tie Bars
6. REBAR NUMBER	[8]	[ ]
7. BAR LENGTHS, INCHES	[1 3 . 0]	[.]
8. BAR SPACING, INCHES	[1 2 . 0]	[.]

9. DOWEL COATINGS [2]
   None... 1 Paint and/or Grease... 2 Plastic... 3
   Monel... 4 Stainless Steel... 5 Epoxy.... 6
   Other (Specify)... 7 _____

10. NUMBER OF SAW CUTS PER PATCH (If Sawed) 4

11. DEPTH OF TYPICAL BOUNDARY SAW CUT, INCHES 1 0 . 0

12. CONCRETE BREAKUP 2
    None... 1 Pneumatic Air Hammer... 2 Gravity Drop Hammer... 3
    Sawing... 4
    Other (Specify)... 5 _____

13. REMOVAL OF CONCRETE 1
    Concrete Breakup and Cleanout... 1 Lift Out Intact Slab Section... 2
    Other (Specify)... 3 _____

PREPARER Leo W. Duncan EMPLOYER BRE DATE 5-12-97

SPS-6 CONSTRUCTION DATA SHEET 19 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [4 6] * TEST SECTION NO [0 5]

1 METHOD OF REINFORCING STEEL PLACEMENT [1]
Chairs 1 Between Layers of Concrete 2

2 MIXTURE DESIGN FOR PATCH MATERIAL, LB /CUBIC YARD
Coarse Aggregate [1 8 7 2]
Fine Aggregate [1 3 9 4]
Cement [7 6 4]
Water (Gallons/Cubic Yard) [3 6]

3 CEMENT TYPE USED [4 1]
(See Type Codes, Tables A 11)

4 AIR CONTENT, PERCENT BY VOLUME
Mean [6 0]
Range [4 5] to [7 5]

5 ADMIXTURES
(See Cement Additive Codes, Table A 12) None [ ]
[ ]

6 SLUMP, INCHES
Mean [1]
Range [0] to [2]

7 FLEXURAL STRENGTH (MODULUS OF RUPTURE), PSI [ ]
(Based on 3rd Point Loading) Curing Time, Days [ ]
If Unavailable, and Other Strength Test Conducted,
Enter Alternate Test [Compressive]
Type of Loading [ ]
Age, Days [2 8], Strength, PSI [3500]

8 AMBIENT CONDITIONS AT TIME OF PATCHING LOW [30]
Air Temperature °F HIGH [70]
Surface Moisture - Dry = 1, Wet = 2 [1]

9 MAXIMUM SIZE OF COARSE AGGREGATE, INCHES 1 5

10 CONSOLIDATION OF MATERIALS 1
Internal Vibrators 1 Vibrating Screeds 2 Troweling 3
Rolling 4 Tamping 5
Other (Specify) . 6 _____

12 FINISHING 2
Screeding 1 Hand-Troweling 2 Machine-Troweling 3
Other (Specify) . 4 _____

PREPARER [signature] EMPLOYER BRE DATE 7/2/97

SPS-6 CONSTRUCTION DATA SHEET 20 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [e 5]

1 JOINT FORMING METHOD — SHOULDER [5] — TRANSVERSE [5] — LONGITUDINAL [5]

None 1 Polyethylene Strip Insert 2 Styrofoam Insert 3
Fiberboard Insert 4 Sawing 5 Forms 6
Other (Specify) . 7 _____

2 WAS BOND BREAKER USED BETWEEN ADJACENT LANES? [2]
Yes 1 No 2

3 CURING METHOD — METHOD 1 [2] — METHOD 2 [ ]

None 1 Membrane Curing Compound 2 Burlap Curing Blankets 3
Waterproof Paper Blankets 4 White Polyethylene Sheeting 6
Burlap-Polyethylene Blankets 6 Insulating Layers 7
Cotton Mat Curing 8 Hay 9
Other (Specify) 10 _____

4 APPROXIMATE TYPICAL TIME BETWEEN PATCHING AND OPENING TO TRAFFIC, HOURS [1] month 720

5 TYPE OF TRANSVERSE JOINTS IN PATCHES 1 OR SLABS 1
None 1 All Expansion Joints 2 All Contraction Joints 3
Mixture of Expansion and Contraction Joints 4

6 WERE OLD JOINTS MATCHED? 1
Yes 1 No 2

PREPARER [signature] EMPLOYER RRE DATE 5-12-97

SPS-6 CONSTRUCTION DATA SHEET 21 LOAD TRANSFER RESTORATION DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 3]

1 DATE LOAD TRANSFER RESTORATION BEGAN (Month-Day-Year) [10-01-96]

2 DATE LOAD TRANSFER RESTORATION COMPLETED [12-01-96]

3 NUMBER OF JOINTS IN TEST SECTION [67]

4 NUMBER OF JOINT LOAD TRANSFER RESTORATION LOCATIONS [7]

5 NUMBER OF DEVICES PER JOINT [11]

6 LOCATION OF DOWELS OR SHEAR DEVICES (INCHES)

(DISTANCE FROM THE OUTER LANE EDGE TO THE CENTER OF EACH DEVICE)

1st	[12]
2nd	[24]
3rd	[36]
4th	[48]
5th	[60]
6th	[72]
7th	[84]
8th	[96]
9th	[108]
10th	[120]
11th	[132]
12th	[ ]
13th	[ ]
14th	[ ]

7 DIAMETER OF RETROFIT DOWEL BARS, INCHES [1 00]

8 MATERIAL USED TO BACKFILL SLOT/CORE HOLE [4]
Cement Based Grout 1 Polymer Concrete 2
Epoxy Resin Grout 3
Other (Specify) 4 Type I - Concrete

9 BONDING AGENT USED BETWEEN EXISTING PCC AND BACKFILL MATERIAL [3]
None 1 Epoxy 2 Cement/Water 3
Other (Specify) . 4 _____

PREPARER [signature] EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 22 LOAD TRANSFER RESTORATION DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO. [0 5]

1. LOAD TRANSFER EFFICIENCY BEFORE AND AFTER RESTORATION

POINT DISTANCE (FEET)	LOAD TRANSFER EFFICIENCY (%) BEFORE RESTORATION APPROACH	BEFORE RESTORATION LEAVE	AFTER RESTORATION APPROACH	AFTER RESTORATION LEAVE
[_ _ _ _ .]	[_ _ _.]	[_ _ _.]	[_ _ _.]	[_ _ _.]
[_ _ _ _ .]	[_ _ _.]	[_ _ _.]	[_ _ _.]	[_ _ _.]
[_ _ _ _ .]	[_ _ _.]	[_ _ _.]	[_ _ _.]	[_ _ _.]
[_ _ _ _ .]	[_ _ _.]	[_ _ _.]	[_ _ _.]	[_ _ _.]
[_ _ _ _ .]	[_ _ _.]	[_ _ _.]	[_ _ _.]	[_ _ _.]
[_ _ _ _ .]	[_ _ _.]	[_ _ _.]	[_ _ _.]	[_ _ _.]
[_ _ _ _ .]	[_ _ _.]	[_ _ _.]	[_ _ _.]	[_ _ _.]
[_ _ _ _ .]	[_ _ _.]	[_ _ _.]	[_ _ _.]	[_ _ _.]
[_ _ _ _ .]	[_ _ _.]	[_ _ _.]	[_ _ _.]	[_ _ _.]
[_ _ _ _ .]	[_ _ _.]	[_ _ _.]	[_ _ _.]	[_ _ _.]

2. DATE OF LOAD TRANSFER EFFICIENCY TESTS
   BEFORE RESTORATION (Month-Day-Year) [_ 9-_ _-9 6]
   AFTER RESTORATION [_ _-_ _-_ _]

Load transfer deficiencies were determined visually and w/ hammer by ARSHTD.

PREPARER [signature] EMPLOYER BRE/SRCO DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 25 SUBDRAINAGE RETROFIT FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [2 5]

DATE SUBDRAINAGE PLACEMENT BEGAN (Month-Day-Year) [1 1-1 1-9 6]

DATE SUBDRAINAGE PLACEMENT COMPLETED [1 2-1 1-9 6]

TYPE OF DRAINAGE PIPE [6]
Clay Tile 1 Concrete Tile 2 Vitrified Clay 3
Perforated Plastic Bituminous Fiber 4 Perforated Corrugated Metal 5
Corrugated Plastic Tubing 6 Drainage Mat. 7
Other (Specify) 8 _____

DIAMETER OF PIPE (INCHES) [4 0]

DEPTH OF PIPE BELOW TOP OF PAVEMENT SURFACE (INCHES) [1 2 0]

HORIZONTAL PLACEMENT OF PIPE FROM OUTER EDGE OF PAVEMENT (INCHES) [1 8 0]

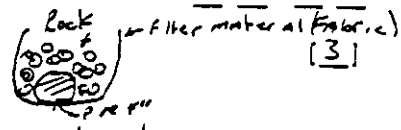
TYPE OF PRIMARY FILTER USED [2]
Graded Aggregate 1 Uniformly Graded Aggregate (One Size) 2
Woven Fabric 3 Non-Woven Fabric 4 Porous PCC 5
Porous Bituminous Concrete 6
Other (Specify) . 7 _____

MAXIMUM PARTICLE SIZE OF PRIMARY FILTER MATERIAL (INCHES) [1 0]

GRADATION OF PRIMARY FILTER MATERIAL
% Passing #4 Sieve [0 0] % Passing #40 Sieve [0 0]
% Passing #10 Sieve [0 0] % Passing #100 Sieve [0 0]

PERMEABILITY OF PRIMARY FILTER MATERIAL (FT/DAY)

TYPE AND LOCATION OF SECONDARY FILTER MATERIAL [3]
Fabric Encapsulating the Primary Filter Material 1
Fabric Encapsulating the Drainage Pipe 2
Other (Specify) 3 Fabric encapsulating primary filter material + drainage pipe



AVERAGE OUTLET INTERVAL (FEET) [ ] 250'

PRIMARY PURPOSE OF SUBDRAINAGE INSTALLATION [1]
Remove Free Water From Pavement Layers 1
Cut Off Side-Hill/Through Hill Seepage 2
Lower Water Table 3
Other (Specify) 4 _____

PREPARER [signature] EMPLOYER BRE DATE 5-13-97

October 1990 (Heading revised October 1992)

RECEIVED JUL - 9 1997

SPS-6 CONSTRUCTION DATA SHEET 2 REVISED LAYER DESCRIPTIONS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 6]

1 LAYER NUMBER	2 LAYER DESCRIPTION	3 MATERIAL TYPE CLASS	4 LAYER THICKNESSES (Inches)			
			AVERAGE	MINIMUM	MAXIMUM	STD DEV
1	SUBGRADE(7)	[5 3]				
2	[0 5]	[2 7]	[_ _6 0]	_ _ _ _	_ _ _ _	_ _ _ _
3	[0 3]	[0 4]	[_10 0]	_ _ _ _	_ _ _ _	_ _ _ _
4	[0 1]	[0 1]	[_ _5 1]	_ _4 6	_ _5 5	_ _0 3
5	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
6	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
7	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
8	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
9	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
10	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
11	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
12	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
13	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
14	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
15	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _

NOTES

1 Layer 1 is subgrade soil, the highest numbered layer is the pavement surface

2 Layer description codes

Overlay	01	Base Layer	05	Porous Friction Course	09
Seal/Tack Coat w/overlay	02	Subbase Layer	06	Surface Treatment	10
Original Surface	03	Subgrade	07	Embankment (Fill)	11
HMAC Layer (Subsurface)	04	Interlayer	08		

If milling was performed, the layers which were milled shall be assigned their previous layer number and material type If the layer was completely removed by milling, it shall still be shown as a layer with a zero thickness

3 Enter the material type classification codes from Tables A 5, A 6, A 7 and A 8 which best describes the material in each layer If the layer was milled, enter the material classification code corresponding to the type material which was removed

4 Enter the average thickness of each layer and the maximum, minimum, and standard deviation of the thickness measurements, if known If a layer was partially milled, the remaining thickness of the layer shall be indicated

PREPARER [signature] EMPLOYER BRE DATE 5-12-97

October 1990 (Heading revised October 1992)

SPS-6 CONSTRUCTION DATA SHEET 3 PRE-OVERLAY SURFACE PREPARATION SKETCH	* STATE CODE [05] * SPS PROJECT CODE [A6] * TEST SECTION NO. [06]

No Sketch

PREPARER [signature] EMPLOYER BRE DATE 5-12-97

October 1990 (Heading revised October 1992)

SPS-6 CONSTRUCTION DATA SHEET 4 OVERLAY PLACEMENT OPERATIONS	* STATE CODE [0 5] * SPS PROJECT CODE [9 6] * TEST SECTION NO. [0 6]

1. DATE SURFACE PREPARATION BEGAN (Month-Day-Year) [1 0 - 1 5 - 9 6]
2. DATE SURFACE PREPARATION COMPLETED [1 2 - 1 7 - 9 6]

3. SURFACE PREPARATION PRIOR TO PLACEMENT OF OVERLAY [3]
   None..... 1 Broomed..... 2 Broomed + Asphaltic Tack Coat.... 3
   Asphaltic Tack Coat (only).... 4

4. TACK COAT
   Layer Numbers [ ] [4]
   Material Type None..... 1 SS-1.... 2 SS-1H.... 3 CRS-1.... 4 [2]
   CRS-2.... 5 CMS-2.... 6 CMS-2H.. 7 CSS-1.... 8 CSS-1H... 9
   Other.... 10 (Specify) _____
5. TACK COAT DILUTION
   (Percent) [5 0]
   Mixing Rate Parts Diluent ___ TO Parts Asphalt ___
6. TACK COAT APPLICATION RATE (Gal/Sq. Yd.) [0 . 0 3]

7. ASPHALT CONCRETE PLANT AND HAUL

	Type	Name	Haul Distance (Mi)	Time (Min)	Layer Numbers		
Plant 1	[2]	E.C. Rowlett	[3 3]	[35]	[4]	[ ]	[ ]
Plant 2	[ ]		[ ]	[ ]	[ ]	[ ]	[ ]
Plant 3	[ ]		[ ]	[ ]	[ ]	[ ]	[ ]

   Plant Type: Batch..... 1 Drum Mix.... 2 Other...3 Specify _____

8. MANUFACTURER OF ASPHALT CONCRETE PAVER Blaw-Knox
9. MODEL DESIGNATION OF ASPHALT CONCRETE PAVER PF 5510
10. SINGLE PASS LAYDOWN WIDTH (Feet) [1 3 . 0]

11. AC BINDER COURSE
    Layer Number [4]
    Nominal First Lift Placement Thickness - Uncompacted (Inches) [1 . 5]
    Nominal Second Lift Placement Thickness - Uncompacted (Inches) [.]
12. AC SURFACE COURSE
    Layer Number [4]
    Nominal First Lift Placement Thickness - Uncompacted (Inches) [3 . 2]
    Nominal Second Lift Placement Thickness - Uncompacted (Inches) [.]
13. SURFACE FRICTION COURSE
    Layer Number [ ]
    Nominal Placement Thickness - Uncompacted (Inches) [.]
14. TEST SECTION STATION OF TRANSVERSE JOINTS (within test section)
    Binder Course [+]
    Surface Course [+]
    Surface-Friction Course [+]
15. LOCATION OF LONGITUDINAL SURFACE JOINT [1]
    Between lanes.. 1 Within lane.. 2 [1 2 .]
    (specify offset from outside edge of lane in feet)
16. SIGNIFICANT EVENTS DURING CONSTRUCTION(disruptions, rain, equip. problems, etc.)

PREPARER [signature] EMPLOYER BRE DATE 5-12-97

SPS-6 CONSTRUCTION DATA SHEET 5 OVERLAY COMPACTION DATA	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO. [0 6]

1. DATE PAVING OPERATIONS BEGAN (Month-Day-Year) [1 0-1 5-9 6]
2. DATE PAVING OPERATIONS COMPLETED [1 2-1 7-9 6]
3. LAYER NUMBER [4]
4. MIXING TEMPERATURE (°F) [3 1 0.]
5. LAYDOWN TEMPERATURES (°F)
   - Mean..... 2 8 5.
   - Minimum..... 2 8 5.
   - Standard Deviation... 0.0
   - Number of Tests ..... 1.
   - Maximum..... 3 3 5.

ROLLER DATA

	Roller Code #	Roller Description	Gross Wt (Tons)	Tire Press. (psi)	Frequency (Vibr./Min)	Amplitude (Inches)	Speed (mph)
6	A	Steel-Whl Tandem					
7	B	Steel-Whl Tandem					
8	C	Steel-Whl Tandem					
9	D	Steel-Whl Tandem					
10	E	Pneumatic-Tired					
11	F	Pneumatic-Tired					
12	G	Pneumatic-Tired					
13	H	Pneumatic-Tired					
14	I	Single-Drum Vibr.					
15	J	Single-Drum Vibr.					
16	K	Single-Drum Vibr.					
17	L	Single-Drum Vibr.					
18	M	Double-Drum Vibr.	1 1.8				
19	N	Double-Drum Vibr.					
20	O	Double-Drum Vibr.					
21	P	Double-Drum Vibr.					
22	Q	Other	Combination Steel (Static drum) + Rubber Tires				

	COMPACTION DATA	First Lift	Second Lift	Third Lift	Fourth Lift
	BREAKDOWN				
23	Roller Code (A-Q)	M			
24	Coverages	4.			
	INTERMEDIATE				
25	Roller Code (A-Q)				
26	Coverages				
	FINAL				
27	Roller Code (A-Q)	Q			
28	Coverages	2.			
29	Air Temperature (°F)	65.			
30	Compacted Thickness (In)	5.1			
31	Curing Period (Days)				

PREPARER [signature] EMPLOYER BRE DATE 5-12-97

October 1990 (Heading revised October 1992)

SPS-6 CONSTRUCTION DATA SHEET 6 CONSTRUCTION QUALITY CONTROL MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO. [0 6]

1. DATE MEASUREMENTS BEGAN (Month-Day-Year) [1 2-1 7-9 6]
2. DATE MEASUREMENTS COMPLETED [1 2-1 9-9 6]

3. NUCLEAR DENSITY MEASUREMENTS (Wet Density)

LAYER TYPE	Rut Level-Up	Mill Replacement	Binder Course	Surface Course	Surface Friction
Measurement Method (A, B, C)[1]				A	
Rod Depth (Inches)					
Number of Measurements				12	
Average (pcf)				126.4	
Maximum (pcf)				129.5	
Minimum (pcf)				123.2	
Standard Deviation (pcf)				2.2	
Layer Number				4	

[1]Measurement Method Backscatter... A Direct Transmission... B Air Gap... C

4. MANUFACTURER OF NUCLEAR DENSITY GAUGE Troxler
5. NUCLEAR DENSITY GAUGE MODEL NUMBER
6. NUCLEAR DENSITY GAUGE IDENTIFICATION NUMBER #24
7. NUCLEAR GAUGE DENSITY COUNT RATE FOR STANDARDIZATION
8. PROFILOGRAPH MEASUREMENTS
   Profilograph Type California... 1 Rainhart... 2 ~~3~~
   Profile Index (Inches/Mile)
   Interpretation Method Manual.. 1 Mechanical.. 2 Computer.. 3 ~~3~~
   Height of Blanking Band (Inches)
   Cutoff Height (Inches)
9. SURFACE PROFILE USED AS BASIS OF INCENTIVE PAYMENT? (YES, NO) NO

PREPARER [signature] EMPLOYER BRE DATE 5-13-97

SPS-6 CONSTRUCTION DATA SHEET 7 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO. [0 6]

1. DATE MEASUREMENTS BEGAN (Month-Day-Year) [1 0 - 1 1 - 9 6]
2. DATE MEASUREMENTS COMPLETED [1 2 - 1 1 - 9 6]

LAYER THICKNESS MEASUREMENTS (Inches) SHEET 1 OF 2

STATION NUMBER	OFFSET (Inches)	RUT LEVEL-UP	MILL REPLACEMENT	BINDER COURSE	SURFACE COURSE	SURFACE FRICTION
0+00	0				5.4	
	36				5.3	
	72				5.0	
	108				5.4	
	144				5.4	
0+50	0				4.6	
	36				4.6	
	72				4.6	
	108				4.7	
	144				4.8	
1+00	0				5.4	
	36				5.4	
	72				5.4	
	108				5.5	
	144				5.5	
1+50	0				4.9	
	36				4.7	
	72				4.8	
	108				4.8	
	144				4.8	
2+00	0				5.0	
	36				4.8	
	72				4.6	
	108				4.8	
	144				4.9	
2+50	0				5.5	
	36				5.2	
	72				5.2	
	108				5.3	
	144				5.4	
3+00	0				4.7	
	36				4.9	
	72				4.7	
	108				4.8	
	144				4.7	
LAYER NUMBER					4	

PREPARER [signature] EMPLOYER BRE DATE 5-13-97

SPS-6 CONSTRUCTION DATA SHEET 7 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 6]

1. DATE MEASUREMENTS BEGAN (Month-Day-Year) [1 0-1 1-9 6]
2. DATE MEASUREMENTS COMPLETED [1 2-1 1-9 6]

SHEET 2 OF 2

LAYER THICKNESS MEASUREMENTS (Inches)

STATION NUMBER	OFFSET (Inches)	RUT LEVEL-UP	MILL REPLACEMENT	BINDER COURSE	SURFACE COURSE	SURFACE FRICTION
3+50	0				47	
	36				49	
	72				4.7	
	108				48	
	144				47	
4+00	0				56	
	36				55	
	72				55	
	108				56	
	144				54	
4+50	0				53	
	36				52	
	72				50	
	108				48	
	144				52	
5+00	0				53	
	36				52	
	72				53	
	108				53	
	144				54	
+00	0					
	36					
	72					
	108					
	144					
+00	0					
	36					
	72					
	108					
	144					
+00	0					
	36					
	72					
	108					
	144					
LAYER NUMBER					4	

PREPARER [signature] EMPLOYER BRE DATE 5-13-97

SPS-6 CONSTRUCTION DATA SHEET 8 MISCELLANEOUS CONSTRUCTION NOTES AND COMMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 6]

Provide any miscellaneous comments and notes concerning construction operations which may have an influence on the ultimate performance of the test sections or which may cause undesired performance differences to occur between test sections Also include any quality control measurements or data for which space is not provided on other forms Provide an indication of the basis for such measurements, such as an ASTM, AASHTO, or Agency standard test designation

Full-Depth patching, as indicated in sheets 17-20, was the treatment chosen to restore load transfer, as indicated in sheets 21+22 Load transfer deficiencies were determined visually and w/a hammer by ARSHTD.

PREPARER [signature] EMPLOYER BRE DATE 5/13/97

April 1991 (Heading revised October 1992)

SPS-6 CONSTRUCTION DATA SHEET 9 PARTIAL DEPTH PATCHING FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 6]

1 DATE PATCHING OPERATIONS BEGAN (Month-Day-Year) [1 0-0 1-9 6]

2 DATE PATCHING OPERATIONS COMPLETED [1 2-0 1-9 6]

3 PRIMARY DISTRESS OCCURRENCE PATCHED (code from Table A 22) [2 5]
Other (Specify) _____

4 SECONDARY DISTRESS OCCURRENCE PATCHED (code from Table A 22) [3 4]
Other (Specify) _____

5 PATCHES
Total Square Feet [_ _ 9 3]
Number [1 7]
Average Depth, Inches [_ 4 0]

6 METHOD USED FOR PATCH BOUNDARY DETERMINATION 1
Visual 1 Ball Peen Hammer, Steel Rod, Chain or Equivalent 2
Delam-Tech 3 Other (Specify) 4 _____

7 METHOD USED TO CUT BOUNDARIES 1
Diamond Blade Saw 1 Carbide Blade Saw 2 None 3 Air Hammer 4
Cold Milling 5 Other (Specify) 6 _____

8 METHOD USED TO BREAK UP AND/OR REMOVE DETERIORATED CONCRETE 1
Jackhammer 1 Cold Milling 2
Other (Specify) 3 _____

9. METHOD FOR FINAL CLEANING OF PATCH AREA 4
None 1 Sandblasting 2 Waterblasting . 3
Other (Specify) 4 Air Blast

PREPARER Timothy J. Martin EMPLOYER BRE DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 12 JOINT RESEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO. [0 6]

1. DATE JOINT SEALANT OPERATIONS BEGAN (Month-Day-Year) [1 0-0 1-9 6]

2. DATE JOINT SEALANT OPERATIONS COMPLETED [1 1-0 1-9 6]

3. METHOD OF REMOVING OLD SEALANT [9]
   Not Removed... 1 Joint Plow - V-Shaped... 2 Joint Plow - Rectangular.... 3
   High Pressure Water Blasting... 4 Diamond Blade Saw... 5
   Carbide Blade Saw... 6 Pull-Out of Old Compression Sealant... 7
   Not Previously Sealed... 8
   Other (Specify)... 9 Air Blast

4. NEW SEALANT RESERVOIR DIMENSIONS, INCHES
   Width [0 .3]
   Depth (From Top of Slab to Top of Backer Rod or Tape) [1 .5]

5. BOND BREAKER UNDER SEALANT [3]
   None... 1 Nonreactive Adhesive Backed Tape... 2 Backer Rod... 3
   Other (Specify)... 4 _____

6. WERE JOINT SIDEWALLS REFACED? 1
   No... 1 Yes - One-Blade... 2 Yes - Two-Blade... 3
   Other (Specify)... 4 _____

7. CLEANING OF SIDEWALLS [2]
   None... 1 Air Blast... 2 Sand Blast... 3 Water Blast ... 4
   Other (Specify)... 4 _____

PREPARER Timothy J. Martin EMPLOYER BRE DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 13 JOINT RESEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO. [0 6]

1. TYPE OF CONTRACTION JOINT SEALANT [7]
   (AASHTO OR ASTM SPECIFICATIONS)

   D1850 (ASTM) Concrete Joint Sealer, Cold-Application Type... 1
   D1190 (ASTM) - M173 (AASHTO) Concrete Joint Sealer, Hot-Poured Elastic Type... 2
   D3406 (ASTM) - M282 (AASHTO) Joint Sealants, Hot-Poured, Elastomeric-Type, for PCC Pavements... 3
   D3405 (ASTM) - M301 (AASHTO) Joint Sealants, Hot-Poured for Concrete and Asphalt Pavements... 4
   D3542 (ASTM) Preformed Polychloroprene Elastomeric Joint Seals for Bridges... 5
   D2628 (ASTM) Preformed Polychloroprene Elastomeric Joint Seals for Concrete Pavements... 6
   Other (Describe - if Silicone Material is Used Federal Spec. TT-S-001543A, Georgia D.O.T. Spec 833.06, or Equal Applies....7
   Dow Corning 890, Silicon Sealant

   Manufacturer Information on Type of Pressure Relief Joint Sealant
   Manufacturer Name [ ]
   Manufacturer Sealant Name [ ]

2. AVERAGE DEPTH OF TOP OF SEALANT PLACEMENT BELOW PAVEMENT SURFACE, INCHES [0 .5]

3. ARE EXPANSION JOINTS SEALED DIFFERENTLY THAN CONTRACTION JOINTS? [2]
   Yes... 1 No... 2

   If Yes, Enter the code from Item 1, or describe below [ ]

   Other [There were no expansion joints]

4. TOTAL LINEAR FEET OF JOINTS SEALED
   Transverse Joints [3 9 6 .0]
   Longitudinal Joints [5 0 0 .0]

NOTE: IF DIFFERENT MATERIALS OR METHODS ARE USED REPEAT SHEETS 15 AND 16 FOR EACH RECORDING THEIR LENGTHS IN ITEM NO. 4.

PREPARER Timothy J. Martin EMPLOYER BRE DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 14 CRACK SEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 6]

1 DATE CRACK SEALING OPERATIONS BEGAN (Month-Day-Year) [1 0-0 1-9 6]

2 DATE CRACK SEALING OPERATIONS COMPLETED [1 1-0 1-9 6]

3 NEW SEALANT RESERVOIR DIMENSIONS, INCHES, If Used
Width
Depth (From Top of Slab to Top of Backer Rod or Tape) [_ _ _]

4 BOND BREAKER UNDER SEALANT, If Used [1]
None 1 Nonreactive Adhesive Backed Tape 2 Backer Rod 3
Other (Specify) 4 _____

5 CLEANING OF CRACKS [1]
None . 1 Routing 2 Air Blast 3 Steel Wire Brush. 4
Brooming 5 Other (Specify) 4 _____

No cracks were sealed during construction.

PREPARER Timothy J Martin EMPLOYER BRE DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 15 CRACK SEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 6]

1 TYPE OF SEALANT [Z]
(AASHTO OR ASTM SPECIFICATIONS)

D1850 (ASTM) Concrete Joint Sealer, Cold-Application Type 1
D1190 (ASTM) - M173 (AASHTO) Concrete Joint Sealer, Hot-Poured Elastic Type 2
D3406 (ASTM) - M282 (AASHTO) Joint Sealants, Hot-Poured, Elastomeric-Type, for PCC Pavements. 3
D3405 (ASTM) - M301 (AASHTO) Joint Sealants, Hot-Poured for Concrete and Asphalt Pavements . 4
D3542 (ASTM) Preformed Polychloroprene Elastomeric Joint Seals for Bridges 5
D2628 (ASTM) Preformed Polychloroprene Elastomeric Joint Seals for Concrete Pavements 6
Other (Describe - if Silicone Material is Used Federal Spec TT-S-001543A, Georgia D O T Spec 833 06, or Equal Applies 7
Dow Corning 890 - Silicon Sealant

Manufacturer Information on Type of Pressure Relief Crack Sealant
Manufacturer Name [ ]
Manufacturer Sealant Name [ ]

2 AVERAGE DEPTH OF TOP OF SEALANT PLACEMENT
Below Pavement Surface, Inches varies [1 0]

3 TOTAL LINEAR FEET OF CRACKS SEALED [3 9 0 0]

NOTE IF DIFFERENT MATERIALS OR METHODS ARE USED REPEAT SHEETS 17 AND 18 FOR EACH RECORDING THEIR LENGTHS IN ITEM NO 3

PREPARER [signature] EMPLOYER BRE DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 17 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 6]

1. DATE PATCHING OPERATIONS BEGAN (Month-Day-Year) [1 0 - 0 1 - 9 6]

2 DATE PATCHING OPERATIONS COMPLETED [1 2 - 0 1 - 9 6]

3 PRIMARY DISTRESS OCCURRENCE PATCHED OR REPLACED WITH NEW SLAB [3 1]
(See Table A 22 for Type Codes)
Other (Specify) _____

4 SECONDARY DISTRESS OCCURRENCE PATCHED OR REPLACED WITH NEW SLAB 25
(See Table A 22 for Type Codes)
Other (Specify) _____

5 PATCHES

	NUMBER	SQ FEET
SLAB ONLY	[6]	[4 3 4]
SLAB AND BASE	[0]	[0]

6 PATCH MATERIAL USED [1]
Portland Cement Concrete 1 Polymer Concrete 2 Epoxy Mortar 4
Other (Specify) 5 _____

7 SLABS REPLACED

	NUMBER	SQ FEET
SLAB ONLY	[3]	[8 1 5]
SLAB AND BASE	[0]	[0]

8 METHOD FOR PATCH BOUNDARY DETERMINATION 1
Visual 1 Coring 2 Deflection 3
State Standard or Specification 4
Other (Specify) 5 _____

9 CUTTING INSTRUMENT 1
Diamond Blade Saw 1 Carbide Blade Saw 2 Wheel Saw 3
Air Hammer 4
Other (Specify) 5 _____

PREPARER [signature] EMPLOYER BRE DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 18 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 6]

1 SECURING LOAD TRANSFER DEVICES [1]
None 1 Grout Filler 2 Epoxy filler 3
Other 4 _____

2 REINFORCING STEEL PLACED IN PATCH [2]
No 1 Yes 2

	TEMPERATURE STEEL Transverse	TEMPERATURE STEEL Longitudinal
3 REBAR NUMBER	[3]	[ ]
4 BAR LENGTHS, INCHES	[13 0]	[ ]
5 BAR SPACING, INCHES	[12 0]	[ ]

	Dowel Bars	Tie Bars
6 REBAR NUMBER	[3]	[ ]
7 BAR LENGTHS, INCHES	[13 0]	[ ]
8 BAR SPACING, INCHES	[12 0]	[ ]

9 DOWEL COATINGS [2]
None 1 Paint and/or Grease 2 Plastic 3
Monel 4 Stainless Steel 5 Epoxy 6
Other (Specify) 7 _____

10 NUMBER OF SAW CUTS PER PATCH (If Sawed) 4

11 DEPTH OF TYPICAL BOUNDARY SAW CUT, INCHES 100

12 CONCRETE BREAKUP 2
None 1 Pneumatic Air Hammer 2 Gravity Drop Hammer 3
Sawing 4
Other (Specify) 5 _____

13 REMOVAL OF CONCRETE 1
Concrete Breakup and Cleanout 1 Lift Out Intact Slab Section 2
Other (Specify) 3 _____

PREPARER Timothy J. Martz EMPLOYER BRE DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 19 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 6]

1 METHOD OF REINFORCING STEEL PLACEMENT [1]
Chairs 1 Between Layers of Concrete 2

2 MIXTURE DESIGN FOR PATCH MATERIAL, LB /CUBIC YARD
Coarse Aggregate [1 8 7 2]
Fine Aggregate [1 3 9 4]
Cement [7 6 4]
Water (Gallons/Cubic Yard) [3 6]

3 CEMENT TYPE USED [4 1]
(See Type Codes, Tables A 11)

4 AIR CONTENT, PERCENT BY VOLUME
Mean [6 0]
Range [4 5] to [7 5]

5 ADMIXTURES
(See Cement Additive Codes, Table A 12) None [ ] [ ]

6 SLUMP, INCHES
Mean [1]
Range [0] to [2]

7 FLEXURAL STRENGTH (MODULUS OF RUPTURE), PSI [ ]
(Based on 3rd Point Loading) Curing Time, Days [ ]
If Unavailable, and Other Strength Test Conducted,
Enter Alternate Test [Compressive]
Type of Loading [ ]
Age, Days [2 8], Strength, PSI [3 5 0 0]

8 AMBIENT CONDITIONS AT TIME OF PATCHING LOW [3 0]
Air Temperature °F HIGH [7 0]
Surface Moisture - Dry = 1, Wet = 2 [1]

9 MAXIMUM SIZE OF COARSE AGGREGATE, INCHES 1 5

10 CONSOLIDATION OF MATERIALS 1
Internal Vibrators 1 Vibrating Screeds 2 Troweling 3
Rolling 4 Tamping 5
Other (Specify) 6 _____

12 FINISHING 2
Screeding 1 Hand-Troweling 2 Machine-Troweling 3
Other (Specify) 4 _____

PREPARER [signature] EMPLOYER BRE DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 20 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 6]

1. JOINT FORMING METHOD — SHOULDER [5] TRANSVERSE [5] LONGITUDINAL [5]

None 1 Polyethylene Strip Insert 2 Styrofoam Insert 3
Fiberboard Insert 4 Sawing 5 Forms 6
Other (Specify) 7 _____

2 WAS BOND BREAKER USED BETWEEN ADJACENT LANES? [2]
Yes 1 No 2

3 CURING METHOD — METHOD 1 [2] METHOD 2 [ ]

None 1 Membrane Curing Compound 2 Burlap Curing Blankets 3
Waterproof Paper Blankets 4 White Polyethylene Sheeting 6
Burlap-Polyethylene Blankets 6 Insulating Layers 7
Cotton Mat Curing 8 Hay 9
Other (Specify) 10 _____

4 APPROXIMATE TYPICAL TIME BETWEEN PATCHING AND OPENING TO TRAFFIC, HOURS [720] / 1 Month

5 TYPE OF TRANSVERSE JOINTS IN PATCHES 1 OR SLABS 1
None 1 All Expansion Joints 2 All Contraction Joints 3
Mixture of Expansion and Contraction Joints 4

6 WERE OLD JOINTS MATCHED? 2
Yes 1 No 2

PREPARER [signature] EMPLOYER BRE DATE 7/8/97

April 1991 (Heading revised October 1992)

SPS-6 CONSTRUCTION DATA SHEET 21 LOAD TRANSFER RESTORATION DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 6]

1. DATE LOAD TRANSFER RESTORATION BEGAN (Month-Day-Year) [1 0-0 1-9 6]

2 DATE LOAD TRANSFER RESTORATION COMPLETED [1 2-0 1-9 6]

3 NUMBER OF JOINTS IN TEST SECTION [_ 3 3]

4 NUMBER OF JOINT LOAD TRANSFER RESTORATION LOCATIONS [_ _ 7]

5 NUMBER OF DEVICES PER JOINT [_ 1 1]

6 LOCATION OF DOWELS OR SHEAR DEVICES (INCHES)

(DISTANCE FROM THE OUTER LANE EDGE TO THE CENTER OF EACH DEVICE)

1st	[_ 1 2]
2nd	[_ 2 4]
3rd	[_ 3 6]
4th	[_ 4 8]
5th	[_ 6 0]
6th	[_ 7 2]
7th	[_ 8 4]
8th	[_ 9 6]
9th	[1 0 8]
10th	[1 2 0]
11th	[1 3 2]
12th	[_ _ _]
13th	[_ _ _]
14th	[_ _ _]

7 DIAMETER OF RETROFIT DOWEL BARS, INCHES [1 0 0]

8 MATERIAL USED TO BACKFILL SLOT/CORE HOLE [4]
Cement Based Grout 1 Polymer Concrete 2
Epoxy Resin Grout. 3
Other (Specify) 4 Type I - Concrete

9 BONDING AGENT USED BETWEEN EXISTING PCC AND BACKFILL MATERIAL [3]
None 1 Epoxy 2 Cement/Water 3
Other (Specify) .. 4 _____

PREPARER Timothy J. Martes EMPLOYER BRE DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 22 LOAD TRANSFER RESTORATION DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 6]

1 LOAD TRANSFER EFFICIENCY BEFORE AND AFTER RESTORATION

POINT DISTANCE (FEET)	LOAD TRANSFER EFFICIENCY (%) BEFORE RESTORATION APPROACH	BEFORE RESTORATION LEAVE	AFTER RESTORATION APPROACH	AFTER RESTORATION LEAVE
[_ _ _ _]	[_ _ _]	[_ _ _]	[_ _ _]	[_ _ _]
[_ _ _ _]	[_ _ _]	[_ _ _]	[_ _ _]	[_ _ _]
[_ _ _ _]	[_ _ _]	[_ _ _]	[_ _ _]	[_ _ _]
[_ _ _ _]	[_ _ _]	[_ _ _]	[_ _ _]	[_ _ _]
[_ _ _ _]	[_ _ _]	[_ _ _]	[_ _ _]	[_ _ _]
[_ _ _ _]	[_ _ _]	[_ _ _]	[_ _ _]	[_ _ _]
[_ _ _ _]	[_ _ _]	[_ _ _]	[_ _ _]	[_ _ _]
[_ _ _ _]	[_ _ _]	[_ _ _]	[_ _ _]	[_ _ _]
[_ _ _ _]	[_ _ _]	[_ _ _]	[_ _ _]	[_ _ _]
[_ _ _ _]	[_ _ _]	_ _ _]	[_ _ _]	[_ _ _]

2 DATE OF LOAD TRANSFER EFFICIENCY TESTS
BEFORE RESTORATION (Month-Day-Year) [_ 9-_ _-9 6]
AFTER RESTORATION [_ _-_ _-_ _]

Load transfer deficiencies were determined visually and w/ a hammer by ARSHTD.

PREPARER Timothy J. Martin EMPLOYER BRE DATE 7/8/97

SPS-6 CONSTRUCTION DATA SHEET 25 SUBDRAINAGE RETROFIT FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [2 6]

DATE SUBDRAINAGE PLACEMENT BEGAN (Month-Day-Year) [1 1-1 1-9 6]

DATE SUBDRAINAGE PLACEMENT COMPLETED [1 2-1 1-9 6]

TYPE OF DRAINAGE PIPE [6]
Clay Tile 1 Concrete Tile 2 Vitrified Clay 3
Perforated Plastic Bituminous Fiber 4 Perforated Corrugated Metal 5
Corrugated Plastic Tubing 6 Drainage Mat 7
Other (Specify) 8 _____

DIAMETER OF PIPE (INCHES) [4 0]

DEPTH OF PIPE BELOW TOP OF PAVEMENT SURFACE (INCHES) [1 2 0]

HORIZONTAL PLACEMENT OF PIPE FROM OUTER EDGE OF PAVEMENT (INCHES) [1 8 0]

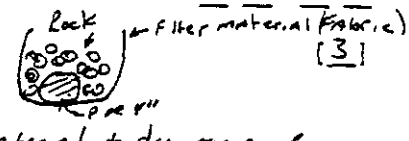
TYPE OF PRIMARY FILTER USED [2]
Graded Aggregate 1 Uniformly Graded Aggregate (One Size) 2
Woven Fabric 3 Non-Woven Fabric 4 Porous PCC 5
Porous Bituminous Concrete 6
Other (Specify) 7 _____

MAXIMUM PARTICLE SIZE OF PRIMARY FILTER MATERIAL (INCHES) [1 0]

GRADATION OF PRIMARY FILTER MATERIAL
% Passing #4 Sieve [0 0] % Passing #40 Sieve [0 0]
% Passing #10 Sieve [0 0] % Passing #100 Sieve [0 0]

PERMEABILITY OF PRIMARY FILTER MATERIAL (FT/DAY)

TYPE AND LOCATION OF SECONDARY FILTER MATERIAL [3]



Fabric Encapsulating the Primary Filter Material 1
Fabric Encapsulating the Drainage Pipe 2
Other (Specify) 3 Fabric encapsulating primary filter material + drainage pipe

AVERAGE OUTLET INTERVAL (FEET) [ ] 250'

PRIMARY PURPOSE OF SUBDRAINAGE INSTALLATION [1]
Remove Free Water From Pavement Layers 1
Cut Off Side-Hill/Through Hill Seepage 2
Lower Water Table 3
Other (Specify) 4 _____

PREPARER [signature] EMPLOYER BRE DATE 5-13-97

RECEIVED JUL - 9 1997 October 1990 (Heading revised October 1992)

SPS-6 CONSTRUCTION DATA SHEET 2 REVISED LAYER DESCRIPTIONS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 7]

1 LAYER NUMBER	2 LAYER DESCRIPTION	3 MATERIAL TYPE CLASS	4 LAYER THICKNESSES (Inches)			
			AVERAGE	MINIMUM	MAXIMUM	STD DEV
1	SUBGRADE(7)	[5 3]				
2	[0 5]	[2 7]	[_ _6 0]	_ _ _ _	_ _ _ _	_ _ _ _
3	[0 3]	[0 4]	[_ 1 0 0]	_ _ _ _	_ _ _ _	_ _ _ _
4	[0 1]	[0 1]	[_ _4 9]	_ _4 1	_ _5 5	_ _0 4
5	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
6	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
7	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
8	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
9	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
10	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
11	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
12	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
13	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
14	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _
15	[_ _]	[_ _]	[_ _ _ _]	_ _ _ _	_ _ _ _	_ _ _ _

NOTES

1 Layer 1 is subgrade soil, the highest numbered layer is the pavement surface

2 Layer description codes

Overlay	01	Base Layer	05	Porous Friction Course	09
Seal/Tack Coat w/overlay	02	Subbase Layer	06	Surface Treatment	10
Original Surface	03	Subgrade	07	Embankment (Fill)	11
HMAC Layer (Subsurface)	04	Interlayer	08		

If milling was performed, the layers which were milled shall be assigned their previous layer number and material type If the layer was completely removed by milling, it shall still be shown as a layer with a zero thickness

3 Enter the material type classification codes from Tables A 5, A 6, A 7 and A 8 which best describes the material in each layer If the layer was milled, enter the material classification code corresponding to the type material which was removed

4 Enter the average thickness of each layer and the maximum, minimum, and standard deviation of the thickness measurements, if known If a layer was partially milled, the remaining thickness of the layer shall be indicated

PREPARER [signature] EMPLOYER BRE DATE 5-12-97

October 1990 (Heading revised October 1992)

SPS-6 CONSTRUCTION DATA SHEET 3 PRE-OVERLAY SURFACE PREPARATION SKETCH	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 7]

No Sketch

PREPARER [signature] EMPLOYER BRE DATE 5-12-97

SPS-6 CONSTRUCTION DATA SHEET 4 OVERLAY PLACEMENT OPERATIONS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 7]

1 DATE SURFACE PREPARATION BEGAN (Month-Day-Year) [1 0-1 5-9 6]
2 DATE SURFACE PREPARATION COMPLETED [1 2-1 7-9 6]

3 SURFACE PREPARATION PRIOR TO PLACEMENT OF OVERLAY [3]
None 1 Broomed 2 Broomed + Asphaltic Tack Coat 3
Asphaltic Tack Coat (only) . 4

4. TACK COAT [_ 2] [_ 4]
Layer Numbers [_ 2]
Material Type None 1 SS-1 2 SS-1H 3 CRS-1 4
CRS-2 5 CMS-2 6 CMS-2H 7 CSS-1 8 CSS-1H . 9
Other 10 (Specify) _____

5 TACK COAT DILUTION [5 0]
(Percent)
Mixing Rate Parts Diluent ___ TO Parts Asphalt ___

6 TACK COAT APPLICATION RATE (Gal/Sq Yd) [0 0 3]

7 ASPHALT CONCRETE PLANT AND HAUL

	Type	Name	Haul Distance (Mi)	Time (Min)	Layer Numbers		
Plant 1	[2]	E C. Rowlett	[_ 3 3]	[3 5]	[4]	[_]	[_]
Plant 2	[_]	_____	[_ _ _]	[_ _]	[_]	[_]	[_]
Plant 3	[_]	_____	[_ _ _]	[_ _]	[_]	[_]	[_]

Plant Type Batch 1 Drum Mix 2 Other 3 Specify_____

8 MANUFACTURER OF ASPHALT CONCRETE PAVER Blaw-Knox

9 MODEL DESIGNATION OF ASPHALT CONCRETE PAVER PF 5510

10 SINGLE PASS LAYDOWN WIDTH (Feet) [1 3 0]

11 AC BINDER COURSE [_ 4]
Layer Number [1 5]
Nominal First Lift Placement Thickness - Uncompacted (Inches) [_ _]
Nominal Second Lift Placement Thickness - Uncompacted (Inches)

12 AC SURFACE COURSE [_ 4]
Layer Number [3 2]
Nominal First Lift Placement Thickness - Uncompacted (Inches) [_ _]
Nominal Second Lift Placement Thickness - Uncompacted (Inches)

13. SURFACE FRICTION COURSE [_ _]
Layer Number [_ _]
Nominal Placement Thickness - Uncompacted (Inches)

14 TEST SECTION STATION OF TRANSVERSE JOINTS (within test section) [_ + _ _]
Binder Course Cold joint [4 + 2 9]
Surface Course [_ + _ _]
Surface-Friction Course [1]

15 LOCATION OF LONGITUDINAL SURFACE JOINT [1 2 0]
Between lanes 1 Within lane 2
(specify offset from outside edge of lane in feet)

16 SIGNIFICANT EVENTS DURING CONSTRUCTION(disruptions, rain, equip problems, etc)

PREPARER [signature] EMPLOYER BRE DATE 5-12-97

October 1990 (Heading revised October 1992)

SPS-6 CONSTRUCTION DATA SHEET 5 OVERLAY COMPACTION DATA	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO. [0 7]

1. DATE PAVING OPERATIONS BEGAN (Month-Day-Year) [1 0-1 5-9 6]
2. DATE PAVING OPERATIONS COMPLETED [1 2-1 7-9 6]
3. LAYER NUMBER [_ 4]
4. MIXING TEMPERATURE (°F) [3 1 0.]
5. LAYDOWN TEMPERATURES (°F)
   - Mean..... 2 8 5.
   - Minimum..... 2 8 5.
   - Standard Deviation... _ 0.0
   - Number of Tests ..... _ 1.
   - Maximum..... 2 8 5.

ROLLER DATA

	Roller Code #	Roller Description	Gross Wt (Tons)	Tire Press. (psi)	Frequency (Vibr./Min)	Amplitude (Inches)	Speed (mph)
6	A	Steel-Whl Tandem	_ _._				
7	B	Steel-Whl Tandem	_ _._				
8	C	Steel-Whl Tandem	_ _._				
9	D	Steel-Whl Tandem	_ _._				
10	E	Pneumatic-Tired	_ _._	_ _ _ _.			
11	F	Pneumatic-Tired	_ _._	_ _ _ _.			
12	G	Pneumatic-Tired	_ _._	_ _ _ _.			
13	H	Pneumatic-Tired	_ _._				
14	I	Single-Drum Vibr.	_ _._		_ _ _ _.	_ _ _	_ _._
15	J	Single-Drum Vibr.	_ _._		_ _ _ _.	_ _ _	_ _._
16	K	Single-Drum Vibr.	_ _._		_ _ _ _.	_ _ _	_ _._
17	L	Single-Drum Vibr.	_ _._		_ _ _ _.	_ _ _	_ _._
18	M	Double-Drum Vibr.	1 1.8		_ _ _ _.	_ _ _	_ _._
19	N	Double-Drum Vibr.	_ _._		_ _ _ _.	_ _ _	_ _._
20	O	Double-Drum Vibr.	_ _._		_ _ _ _.	_ _ _	_ _._
21	P	Double-Drum Vibr.	_ _._		_ _ _ _.	_ _ _	_ _._
22	Q	Other	Combination Steel (Static drum) + Rubber Tires				

	COMPACTION DATA	First Lift	Second Lift	Third Lift	Fourth Lift
	BREAKDOWN				
23	Roller Code (A-Q)	M	_	_	_
24	Coverages	_ 4.	_ _.	_ _.	_ _.
	INTERMEDIATE				
25	Roller Code (A-Q)	_	_	_	_
26	Coverages	_ _.	_ _.	_ _.	_ _.
	FINAL				
27	Roller Code (A-Q)	Q	_	_	_
28	Coverages	_ 2.	_ _.	_ _.	_ _.
29	Air Temperature (°F)	_ 6 5.	_ _ _.	_ _ _.	_ _ _.
30	Compacted Thickness (In)	4.9	_._	_._	_._
31	Curing Period (Days)	_ _._	_ _._	_ _._	_ _._

PREPARER [signature] EMPLOYER BRE DATE 5-12-97

SPS-6 CONSTRUCTION DATA SHEET 6 CONSTRUCTION QUALITY CONTROL MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 7]

1 DATE MEASUREMENTS BEGAN (Month-Day-Year) [1 2-1 7-9 6]
2 DATE MEASUREMENTS COMPLETED [1 2-1 9-9 6]

3. NUCLEAR DENSITY MEASUREMENTS

LAYER TYPE	Rut Level-Up	Mill Replacement	Binder Course	Surface Course	Surface Friction
Measurement Method (A, B, C)[1]				A	
Rod Depth (Inches)					
Number of Measurements				12	
Average (pcf)				1227	
Maximum (pcf)				1257	
Minimum (pcf)				1197	
Standard Deviation (pcf)				20	
Layer Number				4	

[1]Measurement Method Backscatter . A Direct Transmission B Air Gap C

4 MANUFACTURER OF NUCLEAR DENSITY GAUGE Troxler

5 NUCLEAR DENSITY GAUGE MODEL NUMBER

6 NUCLEAR DENSITY GAUGE IDENTIFICATION NUMBER #24

7 NUCLEAR GAUGE DENSITY COUNT RATE FOR STANDARDIZATION

8 PROFILOGRAPH MEASUREMENTS
Profilograph Type California 1 Rainhart 2 ~~KS Lau~~ ~~3~~
Profile Index (Inches/Mile)
Interpretation Method Manual 1 Mechanical 2 Computer . 3 ~~2~~
Height of Blanking Band (Inches)
Cutoff Height (Inches)

9 SURFACE PROFILE USED AS BASIS OF INCENTIVE PAYMENT? (YES, NO) NO

PREPARER [signature] EMPLOYER BRE DATE 5-13-97

SPS-6 CONSTRUCTION DATA SHEET 7 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 7]

1 DATE MEASUREMENTS BEGAN (Month-Day-Year) [1 0-1 1-9 6]
2 DATE MEASUREMENTS COMPLETED [1 2-1 1-9 6]

LAYER THICKNESS MEASUREMENTS (Inches)

SHEET 1 OF 2

STATION NUMBER	OFFSET (Inches)	RUT LEVEL-UP	MILL REPLACEMENT	BINDER COURSE	SURFACE COURSE	SURFACE FRICTION
0+00	0				53	
	36				54	
	72				54	
	108				56	
	144				59	
0+50	0				51	
	36				50	
	72				52	
	108				54	
	144				53	
1+00	0				43	
	36				42	
	72				45	
	108				48	
	144				50	
1+50	0				45	
	36				47	
	72				47	
	108				50	
	144				53	
2+00	0				45	
	36				42	
	72				45	
	108				48	
	144				49	
2+50	0				39	
	36				40	
	72				40	
	108				43	
	144				46	
3+00	0				45	
	36				46	
	72				54	
	108				50	
	144				52	
LAYER NUMBER					4	

PREPARER [signature] EMPLOYER BRE DATE 5-13-97

SPS-6 CONSTRUCTION DATA SHEET 7 LAYER THICKNESS MEASUREMENTS	* STATE CODE [05] * SPS PROJECT CODE [46] * TEST SECTION NO [07]

1 DATE MEASUREMENTS BEGAN (Month-Day-Year) [10-11-96]
2 DATE MEASUREMENTS COMPLETED [12-11-96]

SHEET 2 OF 2

LAYER THICKNESS MEASUREMENTS (Inches)

STATION NUMBER	OFFSET (Inches)	RUT LEVEL-UP	MILL REPLACEMENT	BINDER COURSE	SURFACE COURSE	SURFACE FRICTION
3+50	0				50	
	36				47	
	72				49	
	108				52	
	144				55	
4+00	0				40	
	36				45	
	72				45	
	108				50	
	144				52	
4+50	0				52	
	36				49	
	72				51	
	108				54	
	144				55	
5+00	0				47	
	36				46	
	72				45	
	108				48	
	144				50	
+	0					
	36					
	72					
	108					
	144					
+	0					
	36					
	72					
	108					
	144					
+	0					
	36					
	72					
	108					
	144					
LAYER NUMBER					4	

PREPARER [signature] EMPLOYER BRE DATE 5-13-97

SPS-6 CONSTRUCTION DATA SHEET 8 MISCELLANEOUS CONSTRUCTION NOTES AND COMMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 7]

Provide any miscellaneous comments and notes concerning construction operations which may have an influence on the ultimate performance of the test sections or which may cause undesired performance differences to occur between test sections Also include any quality control measurements or data for which space is not provided on other forms Provide an indication of the basis for such measurements, such as an ASTM, AASHTO, or Agency standard test designation

PREPARER [signature] EMPLOYER BRE DATE 5-13-97

SPS-6 CONSTRUCTION DATA SHEET 25 SUBDRAINAGE RETROFIT FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 7]

DATE SUBDRAINAGE PLACEMENT BEGAN (Month-Day-Year) [1 1-1 1-9 6]

DATE SUBDRAINAGE PLACEMENT COMPLETED [1 2-1 1-9 6]

TYPE OF DRAINAGE PIPE [6]
Clay Tile. 1 Concrete Tile 2 Vitrified Clay 3
Perforated Plastic Bituminous Fiber 4 Perforated Corrugated Metal 5
Corrugated Plastic Tubing 6 Drainage Mat 7
Other (Specify) 8 _____

DIAMETER OF PIPE (INCHES) [4 0]

DEPTH OF PIPE BELOW TOP OF PAVEMENT SURFACE (INCHES) [1 2 0]

HORIZONTAL PLACEMENT OF PIPE FROM OUTER EDGE OF PAVEMENT (INCHES) [1 8 0]

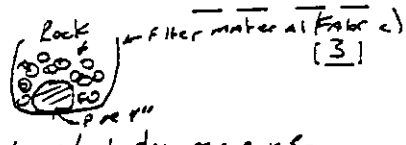
TYPE OF PRIMARY FILTER USED [2]
Graded Aggregate 1 Uniformly Graded Aggregate (One Size) 2
Woven Fabric 3 Non-Woven Fabric 4 Porous PCC 5
Porous Bituminous Concrete . 6
Other (Specify) 7 _____

MAXIMUM PARTICLE SIZE OF PRIMARY FILTER MATERIAL (INCHES) [1 0]

GRADATION OF PRIMARY FILTER MATERIAL
% Passing #4 Sieve [0 0] % Passing #40 Sieve [0 0]
% Passing #10 Sieve [0 0] % Passing #100 Sieve [0 0]

PERMEABILITY OF PRIMARY FILTER MATERIAL (FT/DAY) [ ]

TYPE AND LOCATION OF SECONDARY FILTER MATERIAL [3]
Fabric Encapsulating the Primary Filter Material 1
Fabric Encapsulating the Drainage Pipe 2
Other (Specify) 3 Fabric encapsulating primary filter material + drainage pipe



AVERAGE OUTLET INTERVAL (FEET) [ ] 250'

PRIMARY PURPOSE OF SUBDRAINAGE INSTALLATION [1]
Remove Free Water From Pavement Layers 1
Cut Off Side-Hill/Through Hill Seepage 2
Lower Water Table 3
Other (Specify) 4 _____

PARER [signature] EMPLOYER BRE DATE 5-13-97

SPS-6 CONSTRUCTION DATA SHEET 26 CRACK/BREAK AND SEAT DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 7]

1 DATE CRACK/BREAK AND SEAT OPERATION BEGAN (Month-Day-Year) [1 0-1 4-9 6]

2 DATE CRACK/BREAK AND SEAT OPERATION COMPLETED [1 0-1 5-9 6]

3 AVERAGE PCC BREAKAGE SIZE (INCHES)
Width
Length
Could not visibly detect — [ ] [ ]

4 PAVEMENT BREAKER PASSES/LANE [1]

5 PAVEMENT BREAKER TYPE [4]
Pile Driver Hammer 2 Guillotine Drop Hammer 4
Other (Specify) 7 _____

6 SEATING ROLLER WEIGHT (TONS) [5 0]

7 NUMBER OF SEATING ROLLER PASSES/LANE [1]

8 DEFLECTION MEASUREMENTS TAKEN
Yes 1 No 2
Before Breaking [1]
After Breaking (Prior to Seating) [~~1~~]2
After Seating (Prior to Overlay) [~~1~~]2
After Overlay [1]

9 BROKEN PAVEMENT SURFACE PREPARATION [3]
None 1 Sweeping 2 Tack Coat 3 Leveling Course 4
Full Depth Repair of Failed Areas 5
Other (Specify) 6 _____

PREPARER [signature] EMPLOYER BRE DATE 7/8/97

October 1990 (Heading revised October 1992)

RECEIVED JUL - 9 1997

SPS-6 CONSTRUCTION DATA SHEET 2 REVISED LAYER DESCRIPTIONS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 8]

1 LAYER NUMBER	2 LAYER DESCRIPTION	3 MATERIAL TYPE CLASS	4 LAYER THICKNESSES (Inches)			
			AVERAGE	MINIMUM	MAXIMUM	STD DEV
1	SUBGRADE(7)	[5 3]				
2	[0 5]	[2 7]	[6 0]	----	----	----
3	[0 3]	[0 4]	[10 0]	----	----	----
4	[0 1]	[0 1]	[94]	90	98	02
5	[ ]	[ ]	[ ]	----	----	----
6	[ ]	[ ]	[ ]	----	----	----
7	[ ]	[ ]	[ ]	----	----	----
8	[ ]	[ ]	[ ]	----	----	----
9	[ ]	[ ]	[ ]	----	----	----
10	[ ]	[ ]	[ ]	----	----	----
11	[ ]	[ ]	[ ]	----	----	----
12	[ ]	[ ]	[ ]	----	----	----
13	[ ]	[ ]	[ ]	----	----	----
14	[ ]	[ ]	[ ]	----	----	----
15	[ ]	[ ]	[ ]	----	----	----

NOTES

1 Layer 1 is subgrade soil, the highest numbered layer is the pavement surface

2 Layer description codes

Overlay	01	Base Layer	05	Porous Friction Course	09
Seal/Tack Coat w/overlay	02	Subbase Layer	06	Surface Treatment	10
Original Surface	03	Subgrade	07	Embankment (Fill)	11
HMAC Layer (Subsurface)	04	Interlayer	08		

If milling was performed, the layers which were milled shall be assigned their previous layer number and material type If the layer was completely removed by milling, it shall still be shown as a layer with a zero thickness

3 Enter the material type classification codes from Tables A 5, A 6, A 7 and A 8 which best describes the material in each layer If the layer was milled, enter the material classification code corresponding to the type material which was removed

4 Enter the average thickness of each layer and the maximum, minimum, and standard deviation of the thickness measurements, if known If a layer was partially milled, the remaining thickness of the layer shall be indicated

PREPARER [signature] EMPLOYER BRE DATE 5-12-97

October 1990 (Heading revised October 1992)

SPS-6 CONSTRUCTION DATA SHEET 3 PRE-OVERLAY SURFACE PREPARATION SKETCH	* STATE CODE [0 5] * SPS PROJECT CODE [4 6] * TEST SECTION NO [0 8]

No Sketch

PREPARER [signature] EMPLOYER BRE DATE 5-12-97

SPS-6 CONSTRUCTION DATA SHEET 4 OVERLAY PLACEMENT OPERATIONS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 2]

1. DATE SURFACE PREPARATION BEGAN (Month-Day-Year) [1 0-1 5-9 6]
2 DATE SURFACE PREPARATION COMPLETED [1 2-1 7-9 6]

3 SURFACE PREPARATION PRIOR TO PLACEMENT OF OVERLAY [3]
None 1 Broomed . . 2 Broomed + Asphaltic Tack Coat . 3
Asphaltic Tack Coat (only) . 4

4 TACK COAT [_ ■] [_ 4]
Layer Numbers [_ 2]
Material Type None 1 SS-1 2 SS-1H . 3 CRS-1. 4
CRS-2.. 5 CMS-2. 6 CMS-2H 7 CSS-1 8 CSS-1H 9
Other 10 (Specify) _____

5 TACK COAT DILUTION [5 0]
(Percent)
Mixing Rate Parts Diluent ___ TO Parts Asphalt ___
6. TACK COAT APPLICATION RATE (Gal/Sq Yd) [0 0 3]

7 ASPHALT CONCRETE PLANT AND HAUL

	Type	Name	Haul Distance (Mi)	Time (Min)	Layer Numbers		
Plant 1	[2]	E.C. Rowlett	[_ 3 3]	[3 5]	[4]	[_]	[_]
Plant 2	[_]	_____	[_ _ _]	[_ _]	[_]	[_]	[_]
Plant 3	[_]	_____	[_ _ _]	[_ _]	[_]	[_]	[_]

Plant Type Batch . 1 Drum Mix 2 Other .3 Specify_____

8 MANUFACTURER OF ASPHALT CONCRETE PAVER Blaw-Knox

9 MODEL DESIGNATION OF ASPHALT CONCRETE PAVER PF5510

10 SINGLE PASS LAYDOWN WIDTH (Feet) [1 3 0]

11 AC BINDER COURSE [_ 4]
Layer Number [2 5]
Nominal First Lift Placement Thickness - Uncompacted (Inches) [2 5]
Nominal Second Lift Placement Thickness - Uncompacted (Inches)

12 AC SURFACE COURSE [_ 4]
Layer Number [2 5] 25
Nominal First Lift Placement Thickness - Uncompacted (Inches) [2 5]
Nominal Second Lift Placement Thickness - Uncompacted (Inches)

13 SURFACE FRICTION COURSE [_ _]
Layer Number [_ _]
Nominal Placement Thickness - Uncompacted (Inches)

14 TEST SECTION STATION OF TRANSVERSE JOINTS (within test section)
Binder Course [_ + _ _]
Surface Course [_ + _ _]
Surface Friction Course [_ + _ _]

15 LOCATION OF LONGITUDINAL SURFACE JOINT [1]
Between lanes 1 Within lane 2 [1 2 0]
(specify offset from outside edge of lane in feet)

16 SIGNIFICANT EVENTS DURING CONSTRUCTION(disruptions, rain, equip problems, etc)

PREPARER Zane N. Dunner EMPLOYER BRE DATE 5-12-97

SPS-6 CONSTRUCTION DATA SHEET 5 OVERLAY COMPACTION DATA	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 8]

1. DATE PAVING OPERATIONS BEGAN (Month-Day-Year) [1 0-1 5-9 6]
2. DATE PAVING OPERATIONS COMPLETED [1 2-1 7-9 6]

3 LAYER NUMBER [4]

4 MIXING TEMPERATURE (°F) [3 1 0]

5. LAYDOWN TEMPERATURES (°F)

Mean	2 8 5	Number of Tests	1
Minimum. .. .	2 8 5	Maximum .	2 8 5
Standard Deviation	0 0		

ROLLER DATA

	Roller Code #	Roller Description	Gross Wt (Tons)	Tire Press (psi)	Frequency (Vibr./Min)	Amplitude (Inches)	Speed (mph)
6	A	Steel-Whl Tandem					
7	B	Steel-Whl Tandem					
8	C	Steel-Whl Tandem					
9	D	Steel-Whl Tandem					
10	E	Pneumatic-Tired					
11	F	Pneumatic-Tired					
12	G	Pneumatic-Tired					
13	H	Pneumatic-Tired					
14	I	Single-Drum Vibr					
15	J	Single-Drum Vibr					
16	K	Single-Drum Vibr					
17	L	Single-Drum Vibr.					
18	M	Double-Drum Vibr	1 1 8				
19	N	Double-Drum Vibr					
20	O	Double-Drum Vibr					
21	P	Double-Drum Vibr					
22	Q	Other	Combination Steel (Static drum) + Rubber Tires				

	COMPACTION DATA	First Lift	Second Lift	Third Lift	Fourth Lift
	BREAKDOWN				
23	Roller Code (A-Q)	M			
24	Coverages	4			
	INTERMEDIATE				
25	Roller Code (A-Q)				
26	Coverages				
	FINAL				
27	Roller Code (A-Q)	Q			
28	Coverages	2			
29	Air Temperature (°F)	65			
30	Compacted Thickness (In)	4			
31	Curing Period (Days)				

PREPARER [signature] EMPLOYER BRE DATE 5-12-97

October 1990 (Heading revised October 1992)

SPS-6 CONSTRUCTION DATA SHEET 6 CONSTRUCTION QUALITY CONTROL MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 8]

1 DATE MEASUREMENTS BEGAN (Month-Day-Year) [1 2 - 1 7 - 9 6]
2 DATE MEASUREMENTS COMPLETED [1 2 - 1 9 - 9 6]

3 NUCLEAR DENSITY MEASUREMENTS

LAYER TYPE	Rut Level-Up	Mill Replacement	Binder Course	Surface Course	Surface Friction
Measurement Method (A, B, C)[1]				A	
Rod Depth (Inches)					
Number of Measurements				12	
Average (pcf)				1237	
Maximum (pcf)				1329	
Minimum (pcf)				1174	
Standard Deviation (pcf)				48	
Layer Number				4	

[1]Measurement Method Backscatter A Direct Transmission B Air Gap C

4 MANUFACTURER OF NUCLEAR DENSITY GAUGE Troxler

5 NUCLEAR DENSITY GAUGE MODEL NUMBER

6 NUCLEAR DENSITY GAUGE IDENTIFICATION NUMBER #24

7 NUCLEAR GAUGE DENSITY COUNT RATE FOR STANDARDIZATION

8 PROFILOGRAPH MEASUREMENTS
Profilograph Type California 1 Rainhart 2
Profile Index (Inches/Mile)
Interpretation Method Manual. 1 Mechanical 2 Computer 3
Height of Blanking Band (Inches)
Cutoff Height (Inches)

9 SURFACE PROFILE USED AS BASIS OF INCENTIVE PAYMENT? (YES, NO) No

PREPARER [signature] EMPLOYER BRE DATE 5-13-97

SPS-6 CONSTRUCTION DATA SHEET 7 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO. [0 8]

1. DATE MEASUREMENTS BEGAN (Month-Day-Year) [1 0 - 1 1 - 9 6]
2. DATE MEASUREMENTS COMPLETED [1 2 - 1 1 - 9 6]

LAYER THICKNESS MEASUREMENTS (Inches) SHEET 1 OF 2

STATION NUMBER	OFFSET (Inches)	RUT LEVEL-UP	MILL REPLACEMENT	BINDER COURSE	SURFACE COURSE	SURFACE FRICTION
0+00	0				8.9	
	36				8.8	
	72				8.9	
	108				9.5	
	144				9.5	
0+50	0				9.0	
	36				9.0	
	72				9.1	
	108				9.5	
	144				9.9	
1+00	0				9.1	
	36				9.2	
	72				9.5	
	108				10.0	
	144				10.2	
1+50	0				8.8	
	36				9.0	
	72				9.3	
	108				9.7	
	144				10.0	
2+00	0				8.9	
	36				8.9	
	72				9.0	
	108				9.3	
	144				9.6	
2+50	0				9.3	
	36				9.4	
	72				9.6	
	108				9.9	
	144				10.1	
3+00	0				9.3	
	36				9.3	
	72				9.6	
	108				9.9	
	144				10.2	
LAYER NUMBER					4	

PREPARER [signature] EMPLOYER BRE DATE 5-13-97

SPS-6 CONSTRUCTION DATA SHEET 7 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [4 6] * TEST SECTION NO [0 8]

1 DATE MEASUREMENTS BEGAN (Month-Day-Year) [1 0-1 1-9 6]
2 DATE MEASUREMENTS COMPLETED [1 2-1 1-9 6]

SHEET 2 OF 2

LAYER THICKNESS MEASUREMENTS (Inches)

STATION NUMBER	OFFSET (Inches)	RUT LEVEL-UP	MILL REPLACEMENT	BINDER COURSE	SURFACE COURSE	SURFACE FRICTION
3+50	0				90	
	36				91	
	72				95	
	108				100	
	144				102	
4+00	0				94	
	36				93	
	72				94	
	108				97	
	144				00	
4+50	0				89	
	36				90	
	72				91	
	108				93	
	144				95	
5+00	0				93	
	36				97	
	72				93	
	108				95	
	144				101	
+	0					
	36					
	72					
	108					
	144					
+	0					
	36					
	72					
	108					
	144					
+	0					
	36					
	72					
	108					
	144					
LAYER NUMBER					4	

PREPARER [signature] EMPLOYER BRE DATE 5-13-97

SPS-6 CONSTRUCTION DATA SHEET 8 MISCELLANEOUS CONSTRUCTION NOTES AND COMMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [A 6] * TEST SECTION NO [0 2]

Provide any miscellaneous comments and notes concerning construction operations which may have an influence on the ultimate performance of the test sections or which may cause undesired performance differences to occur between test sections Also include any quality control measurements or data for which space is not provided on other forms Provide an indication of the basis for such measurements, such as an ASTM, AASHTO, or Agency standard test designation

The temporary benchmark was destroyed. This invalidated elevations for the HMAC thickness. To try and recover the HMAC thicknesses, we cored at 0+00 (0' O/S). The core measured 8 7/8". From this measurement, we were able to get the HMAC thicknesses for the ~~[illegible]~~ test section. Accuracy will be slightly lower however

PREPARER [signature] EMPLOYER BRE DATE 5-13-97

SPS-6 CONSTRUCTION DATA SHEET 25 SUBDRAINAGE RETROFIT FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [4 6] * TEST SECTION NO [0 8]

DATE SUBDRAINAGE PLACEMENT BEGAN (Month-Day-Year) [1 1-1 1-9 6]

DATE SUBDRAINAGE PLACEMENT COMPLETED [1 2-1 1-9 6]

TYPE OF DRAINAGE PIPE [6]
Clay Tile 1 Concrete Tile 2 Vitrified Clay 3
Perforated Plastic Bituminous Fiber 4 Perforated Corrugated Metal 5
Corrugated Plastic Tubing 6 Drainage Mat 7
Other (Specify) 8 _____

DIAMETER OF PIPE (INCHES) [4 0]

DEPTH OF PIPE BELOW TOP OF PAVEMENT SURFACE (INCHES) [1 2 0]

HORIZONTAL PLACEMENT OF PIPE FROM OUTER EDGE OF PAVEMENT (INCHES) [1 8 0]

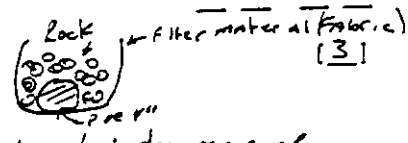
TYPE OF PRIMARY FILTER USED [2]
Graded Aggregate 1 Uniformly Graded Aggregate (One Size) 2
Woven Fabric 3 Non-Woven Fabric 4 Porous PCC 5
Porous Bituminous Concrete 6
Other (Specify) 7 _____

MAXIMUM PARTICLE SIZE OF PRIMARY FILTER MATERIAL (INCHES) [1 0]

GRADATION OF PRIMARY FILTER MATERIAL
% Passing #4 Sieve [0 0] % Passing #40 Sieve [0 0]
% Passing #10 Sieve [0 0] % Passing #100 Sieve [0 0]

PERMEABILITY OF PRIMARY FILTER MATERIAL (FT/DAY) [ ]

TYPE AND LOCATION OF SECONDARY FILTER MATERIAL [3]
Fabric Encapsulating the Primary Filter Material 1
Fabric Encapsulating the Drainage Pipe 2
Other (Specify) 3 Fabric encapsulating primary filter material + drainage pipe



AVERAGE OUTLET INTERVAL (FEET) [ ] 250'

PRIMARY PURPOSE OF SUBDRAINAGE INSTALLATION [1]
Remove Free Water From Pavement Layers 1
Cut Off Side-Hill/Through Hill Seepage 2
Lower Water Table 3
Other (Specify) 4 _____

PREPARER [signature] EMPLOYER BRE DATE 5-13-97

SPS-6 CONSTRUCTION DATA SHEET 26 CRACK/BREAK AND SEAT DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [0 5] * SPS PROJECT CODE [4 6] * TEST SECTION NO [0 8]

1 DATE CRACK/BREAK AND SEAT OPERATION BEGAN (Month-Day-Year) [1 0-1 4-9 6]

2 DATE CRACK/BREAK AND SEAT OPERATION COMPLETED [1 0-1 5-9 6]

3 AVERAGE PCC BREAKAGE SIZE (INCHES)
Width [_ _]
Length [_ _]
Could not visibly detect

4 PAVEMENT BREAKER PASSES/LANE [1]

5 PAVEMENT BREAKER TYPE [4]
Pile Driver Hammer 2 Guillotine Drop Hammer 4
Other (Specify) 7 _____

6 SEATING ROLLER WEIGHT (TONS) [5 0]

7 NUMBER OF SEATING ROLLER PASSES/LANE [1]

8 DEFLECTION MEASUREMENTS TAKEN
Yes 1 No 2
Before Breaking [1]
After Breaking (Prior to Seating) [2]
After Seating (Prior to Overlay) [2]
After Overlay [1]

9 BROKEN PAVEMENT SURFACE PREPARATION [3]
None 1 Sweeping 2 Tack Coat 3 Leveling Course 4
Full Depth Repair of Failed Areas 5
Other (Specify) 6 _____

PREPARER Timothy J. Martin EMPLOYER BRE DATE 7/8/97

APPENDIX F

PHOTOGRAPHS

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14	Level-up Between HMAC Layers, Section 05A607	F.8
15	Postconstruction Profilograph Measurements	F.9
16	Postconstruction 6″ Coring	F.9

Photo 1. Beginning of Section 05A601, Preconstruction

Photo 2. End of Section 05A601, Preconstruction

Photo 3. Trenching for Edge Drain Installation

Photo 4. Edge Drain and Filter Fabric

Photo 5. Edge Drain Covered with Rock

Photo 6. Jackhammer Used During Partial-Depth Patching

Photo 7. Sawing Operation with Full-Depth Patching

Photo 8. Full-depth Patches, Section 05A602

Photo 9. Close-up of Full-depth Patch, Section 05A602

Photo 10. Machine Used to Crack the Concrete Pavement

Photo 11. Hot-Mix Plant

Photo 12. Laydown Operations

Photo 13. Hot-Mix Compaction

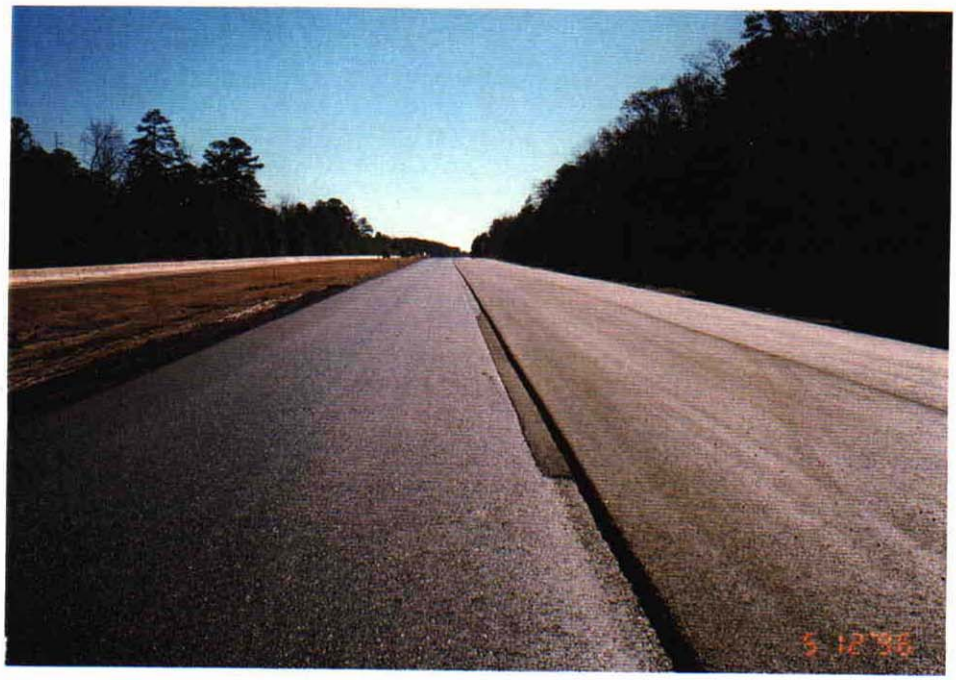

Photo 14. Level-up Between HMAC Layers, Section 05A607

Photo 15. Postconstruction Profilograph Measurements

Photo 16. Postconstruction 6″ Coring