

ORGANIZATION AND ANALYSIS OF 1987 HMAC FIELD CONSTRUCTION DATA: VOLUME TWO

Maghsoud Tahmoressi and
Thomas W. Kennedy

RESEARCH REPORT 1197-1F

PROJECT 3-9-88-1197

CENTER FOR TRANSPORTATION RESEARCH
BUREAU OF ENGINEERING RESEARCH
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16. Abstract <u>Volume Two: Appendices, Continued</u> This report contains the 1987 HMAC field construction data and an explanation of the methods used to organize the data into several computer files. Statistical summaries of parameters such as relative density, asphalt content, voids in mineral aggregates, and percent voids filled with asphalt are included. Gradation data plotted on a 0.45 power curve are included for each project.			
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**ORGANIZATION AND ANALYSIS OF 1987
HMAC FIELD CONSTRUCTION DATA
*VOLUME TWO: APPENDICES, CONTINUED***

by

Maghsoud Tahmoressi
Thomas W. Kennedy

Research Report Number 1197-1F

Research Project 3-9-88-1197

Organization and Analysis of 1987 HMAC Field Construction Data

conducted for

**Texas State Department of Highways
and Public Transportation**

in cooperation with the

**U.S. Department of Transportation
Federal Highway Administration**

by the

CENTER FOR TRANSPORTATION RESEARCH

Bureau of Engineering Research
THE UNIVERSITY OF TEXAS AT AUSTIN

November 1988

The contents of this report reflect the views of the authors, who are responsible for the facts and the accuracy of the data presented herein. The contents do not necessarily represent the official views or policies of the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.

There was no invention or discovery conceived or first actually reduced to practice in the course of or under this contract, including any art, method, process, machine, manufacture, design or composition of matter, or any new and useful improvement thereof, or any variety of plant which is or may be patentable under the patent laws of the United States of America or any foreign country.

APPENDIX C

Level 1 Data for all Projects


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*****
* DISTRICT: 1 COUNTY: HUNT HIGHWAY: SH 50 *
* TYPE: D COURSE: SURFACE *
* PROJECT: MAP 188(12) CONTROL: 0768-01-030 *
*****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5 ROLLERS: WEIGHT SPEED #PASS IN TRAIN
* UNDERLAIN LAYER: FLEXIBLE BASE (TON) (MPH) POSITION
* MIX DISCHARGE TEMP 285 F 3-WHEEL
* TEMP @ 1st PASS: 260 F VIBRATORY 3 3 1
* TEMP @ 2nd PASS: 180 F PNEUMATIC 3 4 2
* EXISTING PVT.: SMOOTH TANDEM 3 2 3
* PLANT: DRUM
* PLANT CAP.,TPH: 250
* SILO CAP.,TON: 80
* NO. OF BINS: 4 (COLD)
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS
*
* X X (LOW) 40 2
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W PRE- RICE Gt
* TRAILER TRAILER LOADER (227 F) (207 F)
* X X
*
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN SAME DAY NEXT DAY
* PATH W. PATH PLACED OR LATER
*
* X X X X X X
*****

```

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* *****
* DISTRICT: 1 COUNTY: HUNT HIGHWAY: SH 50
* TYPE: D COURSE: SURFACE
* PROJECT: MAF 188(12) CONTROL: 0768-01-030
* *****

```

DENSITY INFORMATION
DESIGN AC #DS3

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1			95.2	1	5.8	5.6	-0.2
					5.0	5.6	0.6
					4.8	5.6	0.8
2	90.4		96.4	2	5.2	5.6	0.4
					5.1	5.6	0.5
					5.0	5.6	0.6
3			94.5	3	5.2	5.6	0.4
6	89.1			6	6.0	5.6	-0.4
	92.1		96.6		5.4	5.6	0.2
12	94.1		98.2	12	5.5	5.6	0.1
13	91.8		98.3	13	5.3	5.6	0.3
					5.5	5.6	0.1
14	92.8		98.4	14	5.7	5.6	-0.1
					5.5	5.6	0.1
15			98.3	15	5.1	5.6	0.5
					5.1	5.6	0.5
16			98.6	16	5.1	5.6	0.5
19			98.0	19	5.2	5.6	0.4
					5.2	5.6	0.4
20	92.9		98.5	20	5.2	5.6	0.4
					5.2	5.6	0.4
21	94.8		98.0	21	5.4	5.6	0.2
					5.6	5.6	0.0
22			98.8	22	5.4	5.6	0.2
23			98.7	23	5.6	5.6	0.0
					5.3	5.6	0.3
27	93.6		98.8	27	5.4	5.6	0.2
					5.1	5.6	0.5
					5.1	5.6	0.5

COUNT=	9		15		29	29	29
AVG=	92.4		97.7		5.3	5.6	0.3
STD=	1.69		1.31		0.26	0.00	0.26
MAX=	94.8		98.8		6.0	5.6	0.8
MIN=	89.1		94.5		4.8	5.6	-0.4
STD N-1=	1.80		1.36		0.27	0.00	0.27

```

*****
* DISTRICT: 1 COUNTY: FANNIN HIGHWAY: US 82
* TYPE: D COURSE: LEVEL UP
* PROJECT: CSR-45-5-33 CONTROL: 0045-05-033
*****
*
* GENERAL INFORMATION
*
* THICKNESS 1.5-2 ROLLERS: WEIGHT SPEED #PASS IN TRAIN
* UNDERLAIN LAYER: OLD ACP (TON) (MPH) POSITION
* MIX DISCHARGE TEMP 300 F 3-WHEEL
* TEMP @ 1st PASS: 265 F VIBRATORY 15 2.5 2 1
* TEMP @ 2nd PASS: 195 F PNEUMATIC 6 3.5 2 2
* EXISTING PVT.: WARPED AND PATCHED TANDEM 12 3 1 3
* PLANT: DRUM
* PLANT CAP.,TPH: 700
* SILO CAP.,TON: 70
* NO. OF BINS: 4 (COLD)
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS
*
* X X HIGH 40 2
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W PRE- RICE Gt
* TRAILER TRAILER LOADER (227 F) (207 F)
* X X X
*
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN SAME DAY NEXT DAY
* PATH W. PATH PLACED OR LATER
*
* X X X X
*****

```

```

* *****
* DISTRICT: 1 COUNTY: FANNIN HIGHWAY: US 82
* TYPE: D COURSE: LEVEL UP
* PROJECT: CSR-45-5-33 CONTROL: 0045-05-033
* *****

```

DENSITY INFORMATION
DESIGN AC #DS3

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1			98.0	1	5.6	5.8	0.2
					5.7	5.8	0.1
					6.0	5.8	-0.2
2			98.0	2	5.7	5.8	0.1
					5.8	5.8	0.0
					6.1	5.8	-0.3
3			97.9	3	5.8	5.8	0.0
					5.7	5.8	0.1
					5.8	5.8	0.0
8			98.2	8	5.2	5.7	0.5
					5.8	5.7	-0.1
					5.8	5.7	-0.1
9			98.6	9	5.5	5.7	0.2
					5.9	5.7	-0.2
					5.3	5.7	0.4
10	95.2		98.2	10	5.7	5.7	0.0
			99.5		5.8	5.7	-0.1
					5.6	5.7	0.1
					6.1	5.7	-0.4
11	94.3		98.1	11	5.9	5.7	-0.2
					6.1	5.7	-0.4
					5.5	5.7	0.2
12	90.1		98.3	12	5.8	5.7	-0.1
					5.9	5.7	-0.2
					5.6	5.7	0.1
16	96.9		98.1	16	5.2	5.7	0.5
					5.6	5.7	0.1
					5.3	5.7	0.4
17	95.0		98.0	17	5.1	5.7	0.6
					5.3	5.7	0.4
					5.6	5.7	0.1
19				19	5.0	5.7	0.7
					5.4	5.7	0.3
					5.3	5.7	0.4
20			98.4	20	5.9	5.7	-0.2
22	94.6		98.2	22	5.5	5.5	0.0
					5.3	5.5	0.2
24	96.4		97.8	24	5.9	5.5	-0.4
					6.1	5.5	-0.6

```

* ***** *
* DISTRICT: 1 COUNTY: FANNIN HIGHWAY: US 82 *
* TYPE: D COURSE: LEVEL UP *
* PROJECT: CSR-45-5-33 CONTROL: 0045-05-033 *
* ***** *

```

DENSITY INFORMATION (cont.)
DESIGN AC #DS3

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
25	96.3		97.9	25	5.0	5.5	0.5
					5.0	5.5	0.5
					5.9	5.5	-0.4
29	94.9		97.2	29	4.6	5.5	0.9
					5.4	5.5	0.1
					5.7	5.5	-0.2
30	97.3		97.4	30	5.8	5.5	-0.3
					5.8	5.5	-0.3
31	96.8		97.4	31	5.1	5.5	0.4
					5.3	5.5	0.2
					5.1	5.5	0.4
32	94.7		97.6	32	5.2	5.5	0.3
					5.5	5.5	0.0
					5.4	5.5	0.1
33	95.3		97.5	33	5.6	5.5	-0.1
					5.2	5.5	0.3
					5.3	5.5	0.2
34	96.1		97.2	34	5.1	5.5	0.4
COUNT=	14		21		57	57	57
AVG=	95.3		98.0		5.5	5.6	0.1
STD=	1.71		0.51		0.34	0.12	0.31
MAX=	97.3		99.5		6.1	5.8	0.9
MIN=	90.1		97.2		4.6	5.5	-0.6
STD N-1=	1.77		0.52		0.34	0.12	0.31

```

*****
* DISTRICT: 1 COUNTY: LAMAR HIGHWAY: SH 19
* TYPE: C COURSE: SURFACE
* PROJECT: MAF 381(12) CONTROL: 0136-05-037
*****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5 OLD ACP & ROLLERS: WEIGHT SPEED #PASS IN TRAIN
* UNDERLAIN LAYER: STAB FLEX BASE (TON) (MPH) POSITION
* MIX DISCHARGE TEMP 340 F 3-WHEEL
* TEMP @ 1st PASS: 280 F VIBRATORY 3 3 1
* TEMP @ 2nd PASS: 200 F PNEUMATIC 4 6 2
* EXISTING PVT.: SMOOTH TANDEM 3 6 3
* PLANT: DRUM
* PLANT CAP.,TPH: 700
* SILO CAP.,TON: 70
* NO. OF BINS: 4 (COLD)
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS
*
* X X (LOW) 44 2
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W PRE- RICE Gt
* TRAILER TRAILER LOADER (227 F) (207 F)
* X X X
*
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN SAME DAY NEXT DAY
* PATH W. PATH PLACED OR LATER
*
* X X X X X X
*****

```

```

* ***** *
* DISTRICT: 1 COUNTY: LAMAR HIGHWAY: SH 19 *
* TYPE: C COURSE: SURFACE *
* PROJECT: MAF 381(12) CONTROL: 0136-05-037 *
* ***** *

```

DENSITY INFORMATION
DESIGN AC #DS3

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.

1	92.6		97.6	1	5.2	5.3	0.1
					5.2	5.3	0.1
					5.2	5.3	0.1
2				2	5.1	5.3	0.2
3	92.3		97.7	3	5.2	5.3	0.1
					5.4	5.3	-0.1
					5.3	5.3	0.0
4	94.6		97.5	4	5.4	5.3	-0.1
					5.4	5.3	-0.1
					5.3	5.3	0.0
6	92.6		97.9	6	5.4	5.3	-0.1
					5.3	5.3	0.0
					5.3	5.3	0.0
7			97.6	7	5.4	5.3	-0.1
					5.2	5.3	0.1
8	95.3		97.6	8	5.3	5.3	0.0
					5.2	5.3	0.1
					5.3	5.3	0.0
9			97.8	9	5.3	5.3	0.0
					5.3	5.3	0.0
					5.2	5.3	0.1
10	92.8		97.7	10	5.2	5.3	0.1
	93.2				5.3	5.3	0.0
					5.2	5.3	0.1
11				11	5.2	5.3	0.1
15				15	5.2	5.3	0.1

COUNT=	7		8		26	26	26
AVG=	93.3		97.7		5.3	5.3	0.0
STD=	1.06		0.12		0.08	0.00	0.08
MAX=	95.3		97.9		5.4	5.3	0.2
MIN=	92.3		97.5		5.1	5.3	-0.1
STD N-1=	1.15		0.13		0.08	0.00	0.08

```

*****
* DISTRICT: 1 COUNTY: LAMAR HIGHWAY: US 82 *
* TYPE: D COURSE: SURFACE *
* PROJECT: CSB-45-11-22 CONTROL: 0045-11-022 *
*****
*
* GENERAL INFORMATION *
*
* THICKNESS 1-1.5 ROLLERS: WEIGHT SPEED #PASS IN TRAIN *
* UNDERLAIN LAYER: OLD ACP (TON) (MPH) POSITION *
* MIX DISCHARGE TEMP 300 F 3-WHEEL 4 2 1 *
* TEMP @ 1st PASS: 275 F VIBRATORY *
* TEMP @ 2nd PASS: 180 F PNEUMATIC 3 2 2 *
* EXISTING PVT.: TANDEM 2 4 3 *
* PLANT: BATCH *
* PLANT CAP.,TPH: 150 *
* SILO CAP.,TON: *
* NO. OF BINS: 3 (HOT), 3 (COLD) *
*
* VIBRATORY ROLLER INFORMATION *
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF *
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS *
*
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY *
* BOBTAIL SEMI- BOBTAIL/W PRE- RICE Gt *
* TRAILER TRAILER LOADER (227 F) (207 F) *
* X X *
*
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST *
* CORES NUCLEAR IN WHEEL BETWEEN SAME DAY NEXT DAY *
* PATH W. PATH PLACED OR LATER *
* X X X X X X *
*****

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```

*****
* DISTRICT: 1 COUNTY: LAMAR HIGHWAY: US 82 *
* TYPE: D COURSE: SURFACE *
* PROJECT: CSB-45-11-22 CONTROL: 0045-11-022 *
*****

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DENSITY INFORMATION
DESIGN AC #1

WORKING DAY	DESIGN NO.	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	1	93.4		97.1	1	5.4	5.8	0.4
2	1	92.6		96.6	2	5.6	5.8	0.2
3	1	92.6		97.7	3	5.6	5.8	0.2
4	1	93.5		97.4	4	5.8	5.8	0.0
5	1			97.2	5	5.7	5.8	0.1
COUNT=		4		5		5	5	5
AVG=		93.0		97.2		5.6	5.8	0.2
STD=		0.43		0.36		0.13	0.00	0.13
MAX=		93.5		97.7		5.8	5.8	0.4
MIN=		92.6		96.6		5.4	5.8	0.0
STD N-1=		0.49		0.41		0.15	0.00	0.15

```

*****
* DISTRICT: 2 COUNTY: TARRANT HIGHWAY: FM 1886 *
* TYPE: G Gr2 COURSE: SURFACE *
* PROJECT: CSB 1605-2-14 CONTROL: 1605-2-14 *
*****
*
* GENERAL INFORMATION *
*
* THICKNESS 2-2.5 ROLLERS: WEIGHT SPEED #PASS IN TRAIN *
* UNDERLAIN LAYER: OLD ACP (TON) (MPH) POSITION *
* MIX DISCHARGE TEMP 320 F 3-WHEEL *
* TEMP @ 1st PASS: 318 F VIBRATORY 11 3 2 1 *
* TEMP @ 2nd PASS: 290 F PNEUMATIC 14 3 2 2 *
* EXISTING PVT.: RUTTED TANDEM 9 3 1 3 *
* PLANT: DRUM *
* PLANT CAP.,TPH: 500 *
* SILO CAP.,TON: 600 *
* NO. OF BINS: 3(HOT), 6(COLD) *
*
* VIBRATORY ROLLER INFORMATION *
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF *
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS *
* X X .016 42 2 *
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY *
* BOBTAIL SEMI- BOBTAIL/W PRE- RICE Gt *
* TRAILER TRAILER LOADER (227 F) (207 F) *
* X X *
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST *
* CORES NUCLEAR IN WHEEL BETWEEN SAME DAY NEXT DAY *
* PATH W. PATH PLACED OR LATER *
* X X X X *
*****

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*****
* DISTRICT: 2 COUNTY: TARRANT HIGHWAY: FM 1886 *
* TYPE: G Gr2 COURSE: SURFACE *
* PROJECT: CSB 1605-2-14 CONTROL: 1605-2-14 *
*****

```

*DENSITY INFORMATION
DESIGN AC #631

WORKING DAY	CORE DEN., %	NUCLEAR DENSITY %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. = EXT.
1			97.4	1	8.3	7.6	-0.7
					7.8	7.6	-0.2
3			95.6	3	7.5	7.6	0.1
					7.7	7.6	-0.1
4			95.6	4	7.6	7.6	0.0
					7.5	7.6	0.1
7			96.3	7	7.3	7.6	0.3
					7.1	7.6	0.5
14			95.4	14	7.2	7.6	0.4
					7.4	7.6	0.2
COUNT=			5		10	10	10
AVG=			96.06		7.54	7.60	0.06
STD=			0.74		0.33	0.00	0.33
MAX=			97.4		8.3	7.6	0.5
MIN=			95.4		7.1	7.6	-0.7
STD N-1=			0.82		0.34	0.00	0.34

*ALL ROAD DENSITIES REPORTED WERE NUCLEAR, THEREFORE NOT USED.

```

*****
* DISTRICT: 2 COUNTY: TARRANT HIGHWAY: IH-20 *
* TYPE: G Gr2 COURSE: SURFACE *
* PROJECT: MA-IR-20-4(193)439 CONTROL: 0008-13-097 *
*****
* GENERAL INFORMATION *
*
* THICKNESS 1.5-2.5+ ROLLERS: WEIGHT SPEED #PASS IN TRAIN *
* UNDERLAIN LAYER: ACP/PCC (TON) (MPH) POSITION *
* MIX DISCHARGE TEMP 300-350 F 3-WHEEL 14.0 2.0 3 1 *
* TEMP @ 1st PASS: 275-330 F VIBRATORY 8.5 2.0 1 2 *
* TEMP @ 2nd PASS: 176-200 F PNEUMATIC 4.87 2.0 3 3 *
* EXISTING PVT.: RUTTED/SMOOTH TANDEM 8.5 2.0 2 4 *
* PLANT: DRUM MIXER *
* PLANT CAP.,TPH: 500 *
* SILO CAP.,TON: 200 *
* NO. OF BINS: 3 (HOT), *
*
* VIBRATORY ROLLER INFORMATION *
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF *
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS *
* X X VAR. 37 2 *
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY *
* BOBTAIL SEMI- BOBTAIL/W PRE- RICE Gt *
* TRAILER TRAILER LOADER (227 F) (207 F) *
* X X *
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST *
* CORES NUCLEAR IN WHEEL BETWEEN SAME DAY NEXT DAY *
* PATH W. PATH PLACED OR LATER *
* X X X X X *
*****

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```

*****
* DISTRICT: 2 COUNTY: TARRANT HIGHWAY: IH-20 *
* TYPE: G Gr2 COURSE: SURFACE *
* PROJECT: MA-IR-20-4(193)439 CONTROL: 0008-13-097 *
*****

```

*DENSITY INFORMATION
DESIGN AC #662

WORKING DAY	CORE DEN., %	NUCEAR DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DESIGN - EXT.
1		93.7	97.2	1	5.1	5.4	0.3
2		93.1	97.9	2	4.9	5.4	0.5
5		93.1	98.2	5	5.1	5.4	0.3
		94.0	98.2		5.6	5.4	-0.2
					4.9	5.4	0.5
15		95.6	98.2	15	5.2	5.4	0.2
		94.5	98.2		5.3	5.4	0.1
		92.4	98.2		5.4	5.4	0.0
25			98.3	25	5.1	5.4	0.3
					5.0	5.4	0.4
					5.3	5.4	0.1

COUNT=		7	5		11	11	11
AVG=		93.8	98.0		5.2	5.4	0.2
STD=		0.98	0.40		0.20	0.00	0.20
MAX=		95.6	98.3		5.6	5.4	0.5
MIN=		92.4	97.2		4.9	5.4	-0.2
STD N-1=		1.06	0.45		0.21	0.00	0.21

*ALL ROAD DENSITIES REPEORTED WERE NUCLEAR, THEREFORE NOT USED.

```

*****
* DISTRICT:      3 COUNTY: CLAY          HIGHWAY: US 287
*   TYPE: D      COURSE: LEVEL UP
* PROJECT: CSR-44-2-59          CONTROL: 0044-02-059
* *****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5          ROLLERS: WEIGHT   SPEED   #PASS IN TRAIN
* UNDERLAIN LAYER: ACP/PCC          (TON)   (MPH)   POSITION
* MIX DISCHARGE TEMP 315 F          3-WHEEL
* TEMP @ 1st PASS: 305 F          VIBRATORY 11.05   5       1       2
* TEMP @ 2nd PASS: 290 F          PNEUMATIC 15.91   5       2       2
* EXISTING PVT.: RUTTED/PATCHED    TANDEM    12.75   8       3       2
* PLANT:          DRUM MIXER
* PLANT CAP.,TPH: 800
* SILO CAP.,TON: 70
* NO. OF BINS:    4(COLD)
*
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE      FREQ NO. OF
* FORWARD BACK. (IN.)           (CPS) VIB. DRUMS
*
*          X          .036          40          2
*
*
* HAULING & LOADING EQUIPMENT:          MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W PRE-          RICE          Gt
* TRAILER TRAILER LOADER          (227 F)          (207 F)
*   X          X
*
* DENSITY MEASUREMENT TECHNIQUE          DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN          SAME DAY          NEXT DAY
*          PATH W. PATH          PLACED          OR LATER
*   X          X          X          X          X
*
*****

```

```

*****
* DISTRICT:      3 COUNTY: CLAY          HIGHWAY: US 287      *
*   TYPE: D      COURSE: LEVEL UP      *
* PROJECT: CSR-44-2-59          CONTROL: 0044-02-059      *
*****

```

DENSITY INFORMATION

DESIGN AC #1

WORKING DAY	CORE DEN., %	NUCLEAR DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.

1	92.9		97.9	1	5.0	5.0	0.0
2			97.9	2	4.9	5.0	0.1
					5.1	5.0	-0.1
3	94.9		97.9	3	4.9	4.8	-0.1
6			98.3	6	5.0	4.8	-0.2
					4.9	4.8	-0.1
					4.7	4.8	0.1
7			98.0	7	4.7	4.8	0.1
					4.8	4.8	0.0
					4.9	4.8	-0.1
8	93.9		98.4	8	4.9	4.8	-0.1
					4.8	4.8	0.0
					4.7	4.8	0.1
9			96.9	9	4.2	4.6	0.4
					4.5	4.6	0.1

COUNT=	3		7		15	15	15
AVG=	93.9		97.9		4.8	4.8	0.0
STD=	0.82		0.45		0.22	0.11	0.14
MAX=	94.9		98.4		5.1	5.0	0.4
MIN=	92.9		96.9		4.2	4.6	-0.2
STD N-1=	1.00		0.49		0.22	0.12	0.15

```

*****
* DISTRICT:      3 COUNTY: WHICHITA & ARCHER HIGHWAY: US 82
* TYPE: D        COURSE: SURFACE
* PROJECT: CD156-4-61 & ETC CONTROL: 0156-04-061
*****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5 ROLLERS: WEIGHT SPEED #PASS IN TRAIN
* UNDERLAIN LAYER: OLD AC/FL. BSE (TON) (MPH) POSITION
* MIX DISCHARGE TEMP 275 F 3-WHEEL
* TEMP @ 1st PASS: 270 F VIBRATORY 10.03 3 2 1
* TEMP @ 2nd PASS: 225 F PNEUMATIC 13.34 5 4 2
* EXISTING PVT.: RUT/PATCH TANDEM 15.69 3 4 3
* PLANT: DRUM MIXER
* PLANT CAP.,TPH: 400
* SILO CAP.,TON: 50
* NO. OF BINS: 4(COLD)
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS
*
* X X .025 31 2
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W PRE- RICE Gt
* TRAILER TRAILER LOADER (227-F) (207-F)
* X X
*
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN OTHER SAME DAY NEXT DAY
* PATH W. PATH PLACED OR LATER
*
* X X X X X X
*****

```

 * DISTRICT: 3 COUNTY: WHICHITA & ARCHER HIGHWAY: US 82 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CD156-4-61 & ETC CONTROL: 0156-04-061 *
 * *****

*DENSITY INFORMATION
 DESIGN AC #4

WORKING DAY	DESIGN NO.	CORE DEN., %	NUCLEAR DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	4	93.8		97.6	1	4.7	5.1	0.4
2	4	93.7		95.9	2	4.7	5.1	0.4
						4.7	5.1	0.4
5	4	93.8		96.5	5	5.0	5.1	0.1
						5.0	5.1	0.1
						4.9	5.1	0.2
6	4	92.7		95.7	6	4.6	5.1	0.5
						5.0	5.1	0.1
						4.8	5.1	0.3
7	4	92.8		96.9	7	5.1	5.1	0.0
						5.0	5.1	0.1
						4.9	5.1	0.2
8	4	97.2		96.3	8	4.8	5.1	0.3
						4.7	5.1	0.4
9	4	93.6		96.4	9	5.1	5.1	0.0
						5.1	5.1	0.0
						4.9	5.1	0.2
12	4			96.4	12	5.0	5.1	0.1

COUNT=	7	8	18	18	18
AVG=	93.9	96.5	4.9	5.1	0.2
STD=	1.40	0.55	0.16	0.00	0.16
MAX=	97.2	97.6	5.1	5.1	0.5
MIN=	92.7	95.7	4.6	5.1	0.0
STD N-1=	1.51	0.59	0.16	0.00	0.16

* % DENSITIES ARE BASED ON Gt AND NOT ON RICE

```

*****
* DISTRICT:      4 COUNTY: CARSON          HIGHWAY: US 60
* TYPE: D        COURSE: SURFACE
* PROJECT: CSR 169-2-45                    CONTROL: 169-3-26
*****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5          ROLLERS: WEIGHT SPEED #PASS IN TRAIN
* UNDERLAIN LAYER: OLD ACP          (TON) (MPH) POSITION
* MIX DISCHARGE TEMP 295 F          3-WHEEL
* TEMP @ 1st PASS: 225 F          VIBRATORY 8 3 4 1
* TEMP @ 2nd PASS: 181 F          PNEUMATIC 12.5 5 4 2
* EXISTING PVT.: RUTTED&FLUSHED TANDEM 12 3 2 3
* PLANT: BATCH
* PLANT CAP.,TPH: 150
* SILO CAP.,TON:
* NO. OF BINS: 4 (HOT),3(COLD)
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS
*
* X 0.016 35 2
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W PRE- RICE Gt
* TRAILER TRAILER LOADER (227 F) (207 F)
* X X X
*
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN SAME DAY NEXT DAY
* PATH W. PATH PLACED OR LATER
* X X X
*****

```

```

* *****
* DISTRICT:      4 COUNTY: CARSON      HIGHWAY: US 60
* TYPE: D        COURSE: SURFACE
* PROJECT: CSR 169-2-45                CONTROL: 169-3-26
* *****

```

DENSITY INFORMATION

DESIGN AC #1

WORKING DAY	CORE DEN., %	NUCLEAR DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1		92.7	97.9	1	4.8	4.8	0.0
2		93.7	98.2	2	4.8	4.8	0.0
5		93.4	98.1	5	4.8	4.8	0.0
6		93.4	97.0	6	4.6	4.8	0.2
7		95.7	97.6	7	4.8	4.8	0.0
8		94.5	97.7	8	4.9	4.8	-0.1
11		99.9	97.8	11	4.7	4.8	0.1
14		93.5	98.0	14	4.8	4.8	0.0

COUNT=		8	8		8	8	8
AVG=		94.6	97.8		4.8	4.8	0.0
STD=		2.17	0.35		0.08	0.00	0.08
MAX=		99.9	98.2		4.9	4.8	0.2
MIN=		92.7	97.0		4.6	4.8	-0.1
STD N-1=		2.32	0.38		0.09	0.00	0.09

```

*****
* DISTRICT:      4 COUNTY: CARSON          HIGHWAY: US 60
* TYPE: D        COURSE: LEVEL UP
* PROJECT: CSR 169-2-45                    CONTROL: 169-4-29
*****
*
* GENERAL INFORMATION
*
* THICKNESS < 1
* UNDERLAIN LAYER: OLD ACP
* MIX DISCHARGE TEMP 295 F
* TEMP @ 1st PASS: 225 F
* TEMP @ 2nd PASS: 181 F
* EXISTING PVT.: RUTTED&FLUSHED
* PLANT: BATCH
* PLANT CAP.,TPH: 150
* SILO CAP.,TON:
* NO. OF BINS: 4 (HOT),3(COLD)
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE      FREQ      NO. OF
* FORWARD BACK. (IN.)           (CPS)     VIB. DRUMS
*
* X              0.016           35         2
*
* HAULING & LOADING EQUIPMENT:
*
* BOBTAIL SEMI- BOBTAIL/W PRE-
* TRAILER TRAILER LOADER
* X
*
* DENSITY MEASUREMENT TECHNIQUE
*
* CORES NUCLEAR IN WHEEL BETWEEN
* PATH W. PATH
* X X
*
*****

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```

*****
* DISTRICT:      4 COUNTY: CARSON          HIGHWAY: US 60      *
* TYPE: D        COURSE: LEVEL UP        *
* PROJECT: CSR 169-2-45                  CONTROL: 169-4-29   *
*****

```

DENSITY INFORMATION
DESIGN AC #9

WORKING DAY	CORE DEN., %	NUCLEAR DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1		96.0	98.0	1	5.8	5.3	-0.5
2			96.7	2	5.3	5.3	0.0
3		95.2	95.0	3	5.0	5.3	0.3
4		96.2	98.4	4	5.3	5.3	0.0
7		95.9	97.8	7	5.2	5.1	-0.1
8		95.5	97.9	8	4.9	5.1	0.2
COUNT=		5	6		6	6	6
AVG=		95.8	97.3		5.3	5.2	-0.0
STD=		0.36	1.15		0.29	0.09	0.25
MAX=		96.2	98.4		5.8	5.3	0.3
MIN=		95.2	95.0		4.9	5.1	-0.5
STD N-1=		0.40	1.26		0.31	0.10	0.28

```

*****
* DISTRICT:      5 COUNTY: GARZA      HIGHWAY: FM 651
*   TYPE: D      COURSE: LEVEL-UP
* PROJECT: CD 806-04-010      CONTROL: 806-4-10
* *****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5      ROLLERS: WEIGHT SPEED #PASS IN TRAIN
* UNDERLAIN LAYER: OLD ACP&RECENT      (TON) (MPH) POSITION
*           ACP& PETROMAT      3-WHEEL
* MIX DISCHARGE TEMP 325 F      VIBRATORY 12 7 6 1
* TEMP @ 1st PASS: 295 F      PNEUMATIC 18 7 10 2
* TEMP @ 2nd PASS: 135 F      TANDEM 12 7 6 3
* EXISTING PVT.: RUTTED&WARPED      PNEUMATIC 18 7 10 4
* PLANT: DRUM MIXER
* PILE CAP, 150
* SILO CAP.,TON: 22
* NO. OF BINS: 4(COLD)
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS
*
* X X 0.016 1
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W TANDEM RICE Gt
* TRAILER TRAILER (227-F) (207-F)
* X X
*
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN SAME DAY NEXT DAY
* PATH W. PATH PLACED OR LATER
* X X X X
*
*****

```

* ***** *
 * DISTRICT: 5 COUNTY: GARZA HIGHWAY: FM 651 *
 * TYPE: D COURSE: LEVEL-UP *
 * PROJECT: CD 806-04-010 CONTROL: 806-4-10 *
 * ***** *

DENSITY INFORMATION
DESIGN AC #3

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1				1	3.9	4.4	0.5
					4.2	4.4	0.2
3			95.6	3	3.9	4.4	0.5
					4.0	4.4	0.4
4			96.1	4	3.9	4.4	0.5
					4.0	4.4	0.4
8			96.7	8	3.9	4.4	0.5
					4.0	4.4	0.4
10			97.8	10	4.7	4.4	-0.3
					4.8	4.4	-0.4
11			96.6	11	4.3	4.2	-0.1
					4.4	4.2	-0.2
16			97.6	16	4.4	4.2	-0.2
					4.4	4.2	-0.2
					4.2	4.2	0.0
17			96.2	17	4.2	4.2	0.0
					4.5	4.2	-0.3
					4.3	4.2	-0.1
21			96.7	21	4.5	4.2	-0.3
					4.3	4.2	-0.1
22			97.1	22	4.1	4.2	0.1
					4.4	4.2	-0.2
					4.1	4.2	0.1
23	91.9		96.0	23	4.0	4.2	0.2
					4.2	4.2	0.0
24	93.1		97.1	24	4.4	4.2	-0.2
25	92.4		96.5	25	4.2	4.2	0.0
					4.4	4.2	-0.2
					4.1	4.2	0.1
28	92.4		96.5	28	4.0	4.2	0.2
					4.1	4.2	0.1
					4.2	4.2	0.0
29	92.1		97.6	29	4.5	4.2	-0.3
30	92.0		97.7	30	4.5	4.2	-0.3
31	92.1		96.5	31	4.2	4.2	0.0
					4.0	4.2	0.2
32	91.8		96.6	32	4.1	4.2	0.1
35	92.2		96.6	35	4.5	4.2	-0.3
					4.4	4.2	-0.2
37	92.5		97.3	37	4.6	4.2	-0.4
					4.4	4.2	-0.2

```

* *****
* DISTRICT:      5 COUNTY: GARZA          HIGHWAY: FM 651
* TYPE: D        COURSE: LEVEL-UP
* PROJECT: CD 806-04-010                 CONTROL: 806-4-10
* *****

```

DENSITY INFORMATION (cont.)

DESIGN AC #3

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
38	91.7		97.0	38	4.5	4.2	-0.3
					4.3	4.2	-0.1
42	92.3		97.0	42	4.5	4.2	-0.3
					4.3	4.2	-0.1
43			97.0	43	4.6	4.2	-0.4
					4.3	4.2	-0.1
44			97.5	44	4.4	4.2	-0.2

COUNT=	12		23		48	48	48
AVG=	92.2		96.8		4.3	4.2	-0.0
STD=	0.36		0.57		0.22	0.08	0.26
MAX=	93.1		97.8		4.8	4.4	0.5
MIN=	91.7		95.6		3.9	4.2	-0.4
STD N-1=	0.38		0.58		0.22	0.08	0.26

```

*****
* DISTRICT:      5 COUNTY: HOCKLEY      HIGHWAY: F.M. 300 & LOOP 44
* TYPE: D        COURSE: SURFACE
* PROJECT: M D301(1) & M D302(1)      CONTROL: 130-07-019
*****
*
* GENERAL INFORMATION
*
* THICKNESS      1.5                ROLLERS:  WEIGHT   SPEED   #PASS IN TRAIN
* UNDERLAIN LAYER: NEW A.S.B.      (TON)    (MPH)   POSITION
* MIX DISCHARGE TEMP 335 F          3-WHEEL  12-14   2-3     2     1
* TEMP @ 1st PASS:   320 F          VIBRATORY 15(MAX) 2-3     2     2
* TEMP @ 2nd PASS:   160 F          PNEUMATIC 25     5-10   20    3&4
* EXISTING PVT.:    SMOOTH          TANDEM    8-10   2-3     1     5
* PLANT:           DRUM MIXER
* PILE CAP,        300
* SILO CAP.,TON:   85
* NO. OF BINS:    4(COLD)
*
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE      FREQ      NO. OF
* FORWARD BACK. (IN.)           (CPS)     VIB. DRUMS
*
*
*
*
*
*
*
*
*
*
* HAULING & LOADING EQUIPMENT:      MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W TANDEM      RICE      Gt
* TRAILER TRAILER      (227-F)   (207-F)
* X                      X
*
* DENSITY MEASUREMENT TECHNIQUE      DAY OF DENSITY TEST
*
* CORES  NUCLEAR IN WHEEL BETWEEN OTHER  SAME DAY      NEXT DAY
* PATH   W. PATH  OTHER  PLACED          OR LATER
* X                      X                      X
*
*****

```

```

* *****
* DISTRICT:      5 COUNTY:  HOCKLEY          HIGHWAY: F.M. 300 & LOOP 44
*   TYPE: D      COURSE: SURFACE
* PROJECT: M D301(1) & M D302(1)          CONTROL: 130-07-019
* *****

```

DENSITY INFORMATION

DESIGN AC #2

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.

1			95.5	1	4.8	4.6	-0.2
2			95.4	2	4.9	4.6	-0.3
					4.8	4.6	-0.2
27		93.3	97.0	27	5.2	4.8	-0.4
					5.3	4.8	-0.5
28		93.6	96.9	28	5.0	4.8	-0.2
					5.1	4.8	-0.3
29		93.1	96.5	29	5.2	4.8	-0.4
					5.0	4.8	-0.2
30		95.7	96.7	30	5.2	4.8	-0.4
					5.1	4.8	-0.3
33		94.6	96.6	33	5.2	4.8	-0.4
34			96.6	34	5.2	4.8	-0.4
				35	5.2	4.8	-0.4
				36	5.2	4.8	-0.4

COUNT=		5	8		15	15	15
AVG=		94.1	96.4		5.1	4.8	-0.3
STD=		0.97	0.57		0.15	0.08	0.09
MAX=		95.7	97.0		5.3	4.8	-0.2
MIN=		93.1	95.4		4.8	4.6	-0.5
STD N-1=		1.08	0.61		0.16	0.08	0.10

```

*****
* DISTRICT:      5 COUNTY: LUBBOCK      HIGHWAY: US 84 & SPUR 326
*   TYPE: D      COURSE: LEVEL UP
* PROJECT: MRD001(2) & MDR021(2)      CONTROL: 52-7-45 & 67-7-66
* *****
*
* GENERAL INFORMATION
*
* THICKNESS 1.5-2      ROLLERS: WEIGHT      SPEED      #PASS IN TRAIN
* UNDERLAIN LAYER: A.S.B.      (TON)      (MPH)      POSITION
* MIX DISCHARGE TEMP 300 F      3-WHEEL      13.4      3-5      (BULL      1
* TEMP @ 1st PASS: 290 F      VIBRATORY      WHEEL)
* TEMP @ 2nd PASS: 175 F      PNEUMATIC      21      5-7      9      3 & 4
* EXISTING PVT.: SMOOTH      TANDEM      10.8      3-5      1      2
* PLANT: DRUM MIXER
* PILE CAP, 170
* SILO CAP.,TON: 100
* NO. OF BINS: 4(COLD)
*
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE      FREQ      NO. OF
* FORWARD BACK. (IN.)      (CPS)      VIB. DRUMS
*
*
* HAULING & LOADING EQUIPMENT:      MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W TANDEM      RICE      Gt
* TRAILER TRAILER      (227-F)      (207-F)
* X X
*
* DENSITY MEASUREMENT TECHNIQUE      DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN      SAME DAY      NEXT DAY
* PATH W. PATH      PLACED      OR LATER
* X X X X
*
*****

```

 * DISTRICT: 5 COUNTY: LUBBOCK HIGHWAY: US 84 & SPUR 326 *
 * TYPE: D COURSE: LEVEL UP *
 * PROJECT: MRD001(2) & MDRO21(2) CONTROL: 52-7-45 & 67-7-66 *

DENSITY INFORMATION
 DESIGN AC #1

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1			96.4	1	6.9	6.9	0.0
					6.8	6.9	0.1
					6.8	6.9	0.1
6	92.7		97.4	6	6.4	6.7	0.3
9	92.3		96.3	9	6.8	6.7	-0.1
					6.7	6.7	0.0
12	92.9		96.8	12	6.5	6.7	0.2
13				13	6.4	6.7	0.3
15			96.3	15	6.5	6.7	0.2
16				16	6.7	6.7	0.0
28			96.0	28	6.6	6.7	0.1
29			96.5	29	6.6	6.7	0.1
33	95.1		97.0	33	6.7	6.7	0.0
34	92.3		95.6	34	6.4	6.7	0.3

COUNT=	5		9		14	14	14
AVG=	93.1		96.5		6.6	6.7	0.1
STD=	1.05		0.51		0.16	0.08	0.12
MAX=	95.1		97.4		6.9	6.9	0.3
MIN=	92.3		95.6		6.4	6.7	-0.1
STD N-1=	1.17		0.54		0.17	0.09	0.13

```

*****
* DISTRICT:      5 COUNTY: LUBBOCK      HIGHWAY: US 84
*   TYPE: D      COURSE: SURFACE
* PROJECT: CSR 53-18-24      CONTROL: 53-18-24
*****
*
* GENERAL INFORMATION
*
* THICKNESS 2-2.5      ROLLERS: WEIGHT   SPEED   #PASS IN TRAIN
* UNDERLAIN LAYER: OLD ACP &      (TON)   (MPH)   POSITION
*   SURFACE TREATMENT 3-WHEEL
* MIX DISCHARGE TEMP 320 F      VIBRATORY 15.7   2-3     4       1
* TEMP @ 1st PASS: 280 F      PNEUMATIC 25     2-3     8,10    2,4
* TEMP @ 2nd PASS: 180 F      TANDEM
* EXISTING PVT.: RUTTED & WARPED VIBRATORY 7     2-3     6,6     3,5
* PLANT: DRUM MIXER
* PILE CAP, 700+
* SILO CAP.,TON: 50
* NO. OF BINS: 4(COLD)
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE      FREQ      NO. OF
* FORWARD BACK. (IN.)      (CPS)     VIB. DRUMS
*
*           X           0.016           40           2
*                               33           1
*
* HAULING & LOADING EQUIPMENT:      MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W TANDEM      RICE      Gt
* TRAILER TRAILER      (227-F)   (207-F)
*           X           X
*
* DENSITY MEASUREMENT TECHNIQUE      DAY OF DENSITY TEST
*
* CORES   NUCLEAR IN WHEEL BETWEEN      SAME DAY      NEXT DAY
*         PATH   W. PATH      PLACED      OR LATER
*   X     X           X           X           X
*****

```

```

*****
* DISTRICT:      5 COUNTY: LUBBOCK      HIGHWAY: US 84      *
*   TYPE: D      COURSE: SURFACE      *
* PROJECT: CSR 53-18-24      CONTROL: 53-18-24      *
*****

```

DENSITY INFORMATION
DESIGN AC #1

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	91.3		95.6	1	4.7	4.7	0.0
					4.7	4.7	0.0
2	92.0		95.0	2	4.4	4.7	0.3
					4.5	4.7	0.2
3	92.2		95.2	3	4.6	4.7	0.1
					4.6	4.7	0.1
4	92.0		96.1	4	5	4.7	-0.3
8	94.5		96.5	8	4.8	4.7	-0.1
					4.7	4.7	0.0
9	92.7		96.1	9	4.5	4.7	0.2
					4.5	4.7	0.2
10	93.0		96.2	10	4.5	4.7	0.2
11	92.2		96.3	11	4.5	4.7	0.2
16	93.3		96.8	16	4.8	4.7	-0.1
					4.8	4.7	-0.1
19	92.0		96.4	19	4.7	4.7	0.0
					4.6	4.7	0.1
25	94.7		96.3	25	4.6	4.7	0.1
26	92.7		96.6	26	4.3	4.7	0.4

COUNT=	12		12		19	19	19
AVG=	92.7		96.1		4.6	4.7	0.1
STD=	0.98		0.53		0.16	0.00	0.16
MAX=	94.7		96.8		5.0	4.7	0.4
MIN=	91.3		95.0		4.3	4.7	-0.3
STD N-1=	1.03		0.55		0.17	0.00	0.17

```

*****
* DISTRICT:      5 COUNTY: LUBBOCK      HIGHWAY: US 84
* TYPE: C        COURSE: SURFACE
* PROJECT: CSR 53-18-24                CONTROL: 53-18-24
*****
*
* GENERAL INFORMATION
*
* THICKNESS 2-2.5                      ROLLERS: WEIGHT SPEED #PASS IN TRAIN
* UNDERLAIN LAYER: OLD ACP &           (TON) (MPH) POSITION
* SURFACE TREATMENT 3-WHEEL
* MIX DISCHARGE TEMP 320 F             VIBRATORY 15.7 2-3 4 1
* TEMP @ 1st PASS: 280 F               PNEUMATIC 25 2-3 8,10 2,4
* TEMP @ 2nd PASS: 180 F              TANDEM
* EXISTING PVT.: ROTTED & WARPED VIBRATORY 7 2-3 6,6 3,5
* PLANT: DRUM MIXER
* PILE CAP, 700+
* SILO CAP.,TON: 50
* NO. OF BINS: 4(COLD)
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS
*
* X 0.016 40 2
* 33 1
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W TANDEM RICE Gt
* TRAILER TRAILER (227-F) (207-F)
* X X
*
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN SAME DAY NEXT DAY
* PATH W. PATH PLACED OR LATER
* X X X X X
*
*****

```

```

* *****
* DISTRICT:      5 COUNTY: LUBBOCK      HIGHWAY: US 84
*   TYPE: C      COURSE: SURFACE
* PROJECT: CSR 53-18-24      CONTROL: 53-18-25
* *****

```

DENSITY INFORMATION
DESIGN AC #1

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.

1	94.0		95.4	1	4.1	4.5	0.4
5	93.8		96.2	5	4.7	4.5	-0.2
6	91.8		95.9	6	4.4	4.5	0.1
7	94.3		96.4	7	4.8	4.5	-0.3
8	92.6		95.8	8	4.2	4.5	0.3
12				12	4.3	4.5	0.2
15			96.8	15	4.1	4.5	0.4
22			96.7	22	4.4	4.5	0.1
37	94.6		97.3	37	4.5	4.5	0.0

COUNT=	6		8		9	9	9
AVG=	93.5		96.3		4.4	4.5	0.1
STD=	0.99		0.58		0.23	0.00	0.23
MAX=	94.6		97.3		4.8	4.5	0.4
MIN=	91.8		95.4		4.1	4.5	-0.3
STD N-1=	1.09		0.62		0.25	0.00	0.25

```

*****
* DISTRICT:      5 COUNTY: LUBBOCK      HIGHWAY: US 84
* TYPE: D        COURSE: LEVEL-UP
* PROJECT: CSR 53-18-24      CONTROL: 53-18-24
*****
*
* GENERAL INFORMATION
*
* THICKNESS 2-2.5      ROLLERS: WEIGHT  SPEED  #PASS IN TRAIN
* UNDERLAIN LAYER: OLD ACP &      (TON)  (MPH)      POSITION
* SURFACE TREATMENT 3-WHEEL
* MIX DISCHARGE TEMP 320 F      VIBRATORY 15.7  2-3  4  1
* TEMP @ 1st PASS: 280 F      PNEUMATIC 25  2-3  8,10  2,4
* TEMP @ 2nd PASS: 180 F      TANDEM
* EXISTING PVT.: RUTTED & WARPED VIBRATORY 7  2-3  6,6  3,5
* PLANT: DRUM MIXER
* PILE CAP, 700+
* SILO CAP.,TON: 50
* NO. OF BINS: 4(COLD)
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE      FREQ      NO. OF
* FORWARD BACK. (IN.)      (CPS)      VIB. DRUMS
*
* X 0.016 40 2
* 33 1
*
* HAULING & LOADING EQUIPMENT:      MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W TANDEM      RICE      Gt
* TRAILER TRAILER      (227-F)      (207-F)
* X X X X
*
* DENSITY MEASUREMENT TECHNIQUE      DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN      SAME DAY      NEXT DAY
* PATH W. PATH PLACED OR LATER
* X X X X X
*****

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* *****
* DISTRICT:      5 COUNTY: LUBBOCK          HIGHWAY: US 84
*   TYPE: D      COURSE: LEVEL-UP
* PROJECT: CSR 53-18-24                    CONTROL: 53-18-24
* *****

```

DENSITY INFORMATION
DESIGN AC #3

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	95.1		96.1	1	4.8	5.0	0.2
					4.8	5.0	0.2
4	91.4		96.6	4	4.8	5.0	0.2
					4.7	5.0	0.3
					4.8	5.0	0.2
5	93.2		96.2	5	4.8	5.0	0.2
					4.7	5.0	0.3
6	94.1		96.5	6	5.0	5.0	0.0
					5.0	5.0	0.0
7	92.9		96.9	7	4.9	5.0	0.1
					4.8	5.0	0.2
8	92.8		96.5	8	4.9	5.0	0.1
COUNT=	6		6		12	12	12
AVG=	93.3		96.5		4.8	5.0	0.2
STD=	1.15		0.26		0.09	0.00	0.09
MAX=	95.1		96.9		5.0	5.0	0.3
MIN=	91.4		96.1		4.7	5.0	0.0
STD N-1=	1.74		0.29		0.10	0.00	0.10

```

*****
* DISTRICT:      5 COUNTY: GARZA      HIGHWAY: US 84
* TYPE: D        COURSE: SURFACE
* PROJECT: BRF 635(11)                CONTROL: 53-5-37
* *****
*
* GENERAL INFORMATION
*
* THICKNESS 1.5-2                      ROLLERS: WEIGHT SPEED #PASS IN TRAIN
* UNDERLAIN LAYER: CONC BRDG&ASB      (TON) (MPH) POSITION
* MIX DISCHARGE TEMP 300-320 F        3-WHEEL 10 2-3 13 1
* TEMP @ 1st PASS: 285-300 F          VIBRATORY 10 2-3 3 2
* TEMP @ 2nd PASS: 170 F              PNEUMATIC 25 2-3 20-22 3
* EXISTING PVT.: SMOOTH                TANDEM 2 1 2 4
* PLANT: DRUM MIXER
* PILE CAP, 300
* SILO CAP.,TON: 85
* NO. OF BINS: 4(COLD)
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS
*
*
* HAULING & LOADING EQUIPMENT:          MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W TANDEM      RICE Gt
* TRAILER TRAILER (227-F) (207-F)
* X X
*
* DENSITY MEASUREMENT TECHNIQUE        DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN SAME DAY NEXT DAY
* PATH W. PATH PLACED OR LATER
* X X X
*
*****

```

* ***** *
 * DISTRICT: 5 COUNTY: GARZA HIGHWAY: US 84 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: BRF 635(11) CONTROL: 53-5-37 *
 * ***** *

DENSITY INFORMATION
DESIGN AC #1

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	94.6		98.0	1	5.9	5.8	-0.1
2	86.0		95.9	2	4.7	4.8	0.1
	93.8						
3	87.7		95.9	3	4.9	4.8	-0.1
41	92.1		97.1	41	5.2	4.8	-0.4
42	93.5		96.4	42	5.0	4.8	-0.2
	93.6		96.4		5.0	4.8	-0.2
COUNT=	7		6		7	7	7
AVG=	91.6		96.6		5.2	5.1	-0.1
STD=	3.12		0.74		0.43	0.45	0.15
MAX=	94.6		98.0		5.9	5.8	0.1
MIN=	86.0		95.9		4.7	4.8	-0.4
STD N-1=	3.37		0.81		0.46	0.49	0.16

```

*****
* DISTRICT:      7 COUNTY: TOM GREEN      HIGHWAY: F.M. 388 & SPUR 126
* TYPE: D        COURSE: SURFACE
* PROJECT: CSB2284-1-13                  CONTROL: 2284-01-013
*****
*
* GENERAL INFORMATION
*
* THICKNESS      <1                      ROLLERS:  WEIGHT  SPEED  #PASS IN TRAIN
* UNDERLAIN LAYER: OLD ACP                (TON)    (MPH)    POSITION
* MIX DISCHARGE TEMP 310 F                3-WHEEL
* TEMP @ 1st PASS:  290 F                VIBRATORY  11    5-6    2    1
* TEMP @ 2nd PASS:  180 F                PNEUMATIC  25     2    4    3
* EXISTING PVT.:    RUTTED,SMOOTH,      TANDEM     10     1    2
*                   WARP,PATCH,JOINT,FLUSH
* PLANT:           BATCH
* PILE CAP,        150
* SILO CAP.,TON:
* NO. OF BINS:    3(HOT),4(COLD)
*
*                   VIBRATORY ROLLER INFORMATION
*
*                   _____
*                   VIBRAT. VIBRAT. AMPLITUDE      FREQ      NO. OF
*                   FORWARD BACK.  (IN.)        (CPS)     VIB. DRUMS
*
*                   X      X      0.019           45           2
*
*
* HAULING & LOADING EQUIPMENT:              MAX. THEORETICAL DENSITY
*
*                   _____
* BOBTAIL SEMI- BOBTAIL/W TANDEM           RICE           Gt
*                   TRAILER TRAILER        (227-F)        (207-F)
*                   X                               X
*
* DENSITY MEASUREMENT TECHNIQUE              DAY OF DENSITY TEST
*
*                   _____
* CORES  NUCLEAR IN WHEEL BETWEEN OTHER SAME DAY NEXT DAY
*                   PATH  W. PATH  PLACED  OR LATER
*                   X           X                               X
*
*****

```

```

* *****
* DISTRICT:      7 COUNTY: TOM GREEN      HIGHWAY: F.M. 388 & SPUR 126
*   TYPE: D      COURSE: SURFACE
* PROJECT: CSB2284-1-13                  CONTROL: 2284-01-013
* *****

```

DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	96.9		97.0	1	5.2	5.5	0.3
2	95.2		96.5	2	5.6	5.5	-0.1
3	96.0		96.6	3	5.1	5.4	0.3
6	92.4		96.7	6	5.4	5.4	0.0
7			96.8	7	5.7	5.4	-0.3
COUNT=	4		5		5	5	5
AVG=	95.13		96.72		5.40	5.44	0.04
STD=	1.68		0.17		0.23	0.05	0.23
MAX=	96.9		97.0		5.7	5.5	0.3
MIN=	92.4		96.5		5.1	5.4	-0.3
STD N-1=	1.94		0.19		0.25	0.05	0.26

```

*****
* DISTRICT:      7 COUNTY: TOM GREEN      HIGHWAY: US 67
*   TYPE: D      COURSE: SURFACE
* PROJECT: F229(10)          CONTROL: 158-2-49
*****
*
* GENERAL INFORMATION
*
* THICKNESS      1-2          ROLLERS: WEIGHT   SPEED   #PASS IN TRAIN
* UNDERLAIN LAYER: FLEXIBLE BASE          (TON)   (MPH)   POSITION
* MIX DISCHARGE TEMP 310 F          3-WHEEL
* TEMP @ 1st PASS: 290-300 F          VIBRATORY 16-11   5-8     2     1
* TEMP @ 2nd PASS: 180 F          PNEUMATIC 25     2     4     2
* EXISTING PVT.: SEMI-SMOOTH          TANDEM          1     3
* PLANT: BATCH
* PILE CAP,      150
* SILO CAP.,TON:
* NO. OF BINS: 3(HOT), 4(COLD)
*
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE      FREQ      NO. OF
* FORWARD BACK. (IN.)          (CPS)     VIB. DRUMS
*
*           X     X  0.19-.029      45-37      2
*
*
* HAULING & LOADING EQUIPMENT:          MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W TANDEM          RICE          Gt
* TRAILER TRAILER          (227-F)        (207-F)
*   X
*
* DENSITY MEASUREMENT TECHNIQUE          DAY OF DENSITY TEST
*
* CORES  NUCLEAR IN WHEEL BETWEEN OHTER  SAME DAY      NEXT DAY
* PATH   W. PATH          PLACED          OR LATER
*   X
*
*****

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```

*****
* DISTRICT:      7 COUNTY: TOM GREEN      HIGHWAY: US 67      *
*   TYPE: D      COURSE: SURFACE         *
* PROJECT: FZ29(10)      CONTROL: 158-2-49      *
*****

```

DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	96.2			5.8	5.4	
2	92.7		95.9	4.9	5.4	0.5
3	92.8		96.4	5.3	5.4	0.1
6	94.0		96.1	5.5	5.4	0.1
7	96.9		95.3	5.7	5.4	-0.1
8	94.4		95.3	5.5	5.4	-0.3
10	93.5		96.3	5.8	5.4	-0.1
14	93.6		96.5	5.8	5.4	-0.4
48	94.6		95.6	5.7	5.4	-0.4
49	92.7		96.8	5.7	5.4	-0.3
50	93.9		96.2	5.4	5.4	-0.4
51	93.7		97.4	5.5	5.4	0.0
54	94.1		96.9	5.9	5.4	-0.1
55	94.1			5.8	5.4	-0.5
56	94.2		96.9	5.8	5.4	-0.4
57	92.3		97.0	5.9	5.4	-0.4
58	92.0		97.3	5.5	5.4	-0.5
74	94.8			5.2	5.4	-0.1

COUNT=	18		15	18	18	17
AVG=	93.92		96.39	5.59	5.40	-0.19
STD=	1.21		0.65	0.26	0.00	0.26
MAX=	96.9		97.4	5.9	5.4	0.5
MIN=	92.0		95.3	4.9	5.4	-0.5
STD N-1=	1.25		0.67	0.27	0.00	0.27

```

*****
* DISTRICT:      8 COUNTY: NOLAN          HIGHWAY: IH 20
* TYPE: D        COURSE: SURFACE
* PROJECT: IR 20-2(156)235              CONTROL: 0006-02-076
*****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5
* UNDERLAIN LAYER: OLD/RECENT ACP
* MIX DISCHARGE TEMP 290 F
* TEMP @ 1st PASS: 270 F
* TEMP @ 2nd PASS: 250 F
* EXISTING PVT.: RUTTED & PATCHED
* PLANT: DRUM
* PLANT CAP.,TPH: 500
* SILO CAP.,TON: 90
* NO. OF BINS: 4 COLD
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE      FREQ      NO. OF
* FORWARD BACK. (IN.)           (CPS)     VIB. DRUMS
*
*
* HAULING & LOADING EQUIPMENT:
*
* BOBTAIL SEMI- BOBTAIL/W PRE-      RICE      Gt
* TRAILER TRAILER LOADER          (227 F)   (207 F)
* X
*
* DENSITY MEASUREMENT TECHNIQUE      DAY OF DENSITY TEST
*
* CORES  NUCLEAR IN WHEEL BETWEEN  SAME DAY  NEXT DAY
*        PATH    W. PATH  PLACED    OR LATER
*        X
*
*****

```

```

* *****
* DISTRICT:      8 COUNTY: NOLAN          HIGHWAY: IH 20
*   TYPE: D      COURSE: SURFACE
* PROJECT: IR 20-2(156)235              CONTROL: 0006-02-076
* *****

```

DENSITY INFORMATION

DESIGN AC #1

WORKING DAY	CORE DEN., %	NUC DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.

1		94.3	97.0	1	5.3	5.5	0.2
		93.4			5.6	5.5	-0.1
					5.9	5.5	-0.4
2		93.0	96.5	2	5.7	5.4	-0.3
					5.8	5.4	-0.4
					5.5	5.4	-0.1
3			97.0	3			
8			95.9	8			
9			96.3	9			
10			96.1	10			
13			96.6	13			

COUNT=		3	7		6	6	6
AVG=		93.57	96.49		5.63	5.45	-0.18
STD=		0.54	0.39		0.20	0.05	0.21
MAX=		94.3	97.0		5.9	5.5	0.2
MIN=		93.0	95.9		5.3	5.4	-0.4
STD N-1=		0.67	0.42		0.22	0.05	0.23

```

*****
* DISTRICT:      8 COUNTY: NOLAN          HIGHWAY: IH 20
*   TYPE: D      COURSE: LEVEL UP
* PROJECT: IR 20-2(156)235          CONTROL: 0006-02-076
*****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5          ROLLERS: WEIGHT   SPEED   #PASS IN TRAIN
* UNDERLAIN LAYER: OLD ACP          (TON)   (MPH)   POSITION
* MIX DISCHARGE TEMP 290 F          3-WHEEL   15     3     1     1
* TEMP @ 1st PASS: 275 F          VIBRATORY
* TEMP @ 2nd PASS: 230 F          PNEUMATIC 25     3     2     2
* EXISTING PVT.: RUTT/FLUSH/PATCH  TANDEM    10     3     1     3
* PLANT: DRUM
* PLANT CAP.,TPH: 500
* SILO CAP.,TON: 90
* NO. OF BINS: 4 COLD
*
*
* VIBRATORY ROLLER INFORMATION
*
* _____
* VIBRAT. VIBRAT. AMPLITUDE   FREQ   NO. OF
* FORWARD BACK. (IN.)         (CPS)  VIB. DRUMS
*
*
*
*
*
*
*
*
*
*
* HAULING & LOADING EQUIPMENT:          MAX. THEORETICAL DENSITY
*
* _____
* BOBTAIL SEMI- BOBTAIL/W PRE-          RICE          Gt
* TRAILER TRAILER LOADER          (227 F)        (207 F)
* X X X X X X X X X X X X X X X X
*
* DENSITY MEASUREMENT TECHNIQUE          DAY OF DENSITY TEST
*
* _____
* CORES NUCLEAR IN WHEEL BETWEEN OTHER SAME DAY NEXT DAY
* PATH W. PATH PLACED OR LATER
* X X X X X X X X X X X X X X X X
*****

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*****
* DISTRICT:      8 COUNTY: NOLAN          HIGHWAY: IH 20
*   TYPE: D      COURSE: LEVEL UP
* PROJECT: IR 20-2(156)235          CONTROL: 0006-02-076
*****

```

DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	NUC DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1			97.4	1	6.0 5.5	5.6 5.6	-0.4 0.1
2			97.3	2			
5	94.3		97.3	5	6.0 6.0 5.2	5.5 5.5 5.5	-0.5 -0.5 0.3
7	93.4	94.3	97.0	7	5.3 5.6 5.9	5.5 5.5 5.5	0.2 -0.1 -0.4
8		93.4 93.0	96.5	8	5.7 5.8 5.5	5.4 5.4 5.4	-0.3 -0.4 -0.1
9		94.9	97.0	9	5.7 5.4 5.4	5.4 5.4 5.4	-0.3 0.0 0.0
12	94.9		95.8	12	5.4 5.5 5.2	5.4 5.4 5.4	0.0 -0.1 0.2
13			96.3	13	5.6 5.5 5.5	5.4 5.4 5.4	-0.2 -0.1 -0.1
COUNT=	3	4	8		20	20	20
AVG=	94.20	93.90	96.83		5.59	5.45	-0.13
STD=	0.62	0.74	0.53		0.25	0.07	0.23
MAX=	94.9	94.9	97.4		6.0	5.6	0.3
MIN=	93.4	93	95.8		5.2	5.4	-0.5
STD N-1=	0.75	0.86	0.57		0.25	0.07	0.24

```

*****
* DISTRICT:      8 COUNTY: TAYLOR          HIGHWAY: IH 20
*   TYPE: D      COURSE: SURFACE
* PROJECT: CSB6-6-66                      CONTROL: 0693-03-028
*****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5          ROLLERS: WEIGHT   SPEED   #PASS IN TRAIN
* UNDERLAIN LAYER: OLD/RECENT ACP          (TON)   (MPH)   POSITION
* MIX DISCHARGE TEMP 290 F          3-WHEEL   15      3      1
* TEMP @ 1st PASS: 270 F          VIBRATORY
* TEMP @ 2nd PASS: 250 F          PNEUMATIC 25      3      2
* EXISTING PVT.: RUTTED & PATCHED TANDEM    10      3      3
* PLANT: DRUM
* PLANT CAP.,TPH: 500
* SILO CAP.,TON: 90
* NO. OF BINS: 4 COLD
*
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE   FREQ   NO. OF
* FORWARD BACK. (IN.)         (CPS)  VIB. DRUMS
*
*
* HAULING & LOADING EQUIPMENT:          MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W PRE-          RICE          Gt
* TRAILER TRAILER LOADER          (227 F)       (207 F)
* X
*
* DENSITY MEASUREMENT TECHNIQUE          DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN          SAME DAY          NEXT DAY
* PATH W. PATH          PLACED          OR LATER
* X
*
*****

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* ***** *
* DISTRICT:      8 COUNTY: TAYLOR      HIGHWAY: IH 20      *
* TYPE: D        COURSE: SURFACE      *
* PROJECT: CSB6-6-66      CONTROL: 0693-03-028      *
* ***** *

```

DENSITY INFORMATION
DESIGN AC #1

WORKING DAY	CORE DEN., %	LAB. DEN., %	NUC DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1		96.0	95.5	1	5.8	5.8	0.0
					6.2	5.8	-0.4
7		95.9	94.6	7	5.8	5.8	0.0
					6.0	5.8	-0.2
8		96.6	93.1	8	5.6	5.8	0.2
					5.8	5.8	0.0
					5.5	5.8	0.3
9		97.0	94.6	9	5.7	5.8	0.1
					5.8	5.8	0.0
12		97.2	94.9	12			
13		97.4	95.7	13	5.8	5.8	0.0
					6.3	5.8	-0.5
14		97.4		14	5.9	5.8	-0.1

COUNT=		7	6		12	12	12
AVG=		96.8	94.7		5.9	5.8	-0.1
STD=		0.59	0.84		0.22	0.00	0.22
MAX=		97.4	95.7		6.3	5.8	0.3
MIN=		95.9	93.1		5.5	5.8	-0.5
STD N-1=		0.63	0.92		0.23	0.00	0.23

```

*****
* DISTRICT:      8 COUNTY: TAYLOR          HIGHWAY: US 83
* TYPE: D        COURSE: SURFACE
* PROJECT: CSR 33-6-76                     CONTROLL: 33-6-76
*****
*
* GENERAL INFORMATION
*
* THICKNESS 2-2.5                ROLLERS: WEIGHT  SPEED  #PASS IN TRAIN
* UNDERLAIN LAYER: OLD ACP      (TON)    (MPH)    POSITION
* MIX DISCHARGE TEMP 320 F      3-WHEEL          3     9     1
* TEMP @ 1st PASS: 300 F        VIBRATORY
* TEMP @ 2nd PASS:              PNEUMATIC    25    3    11    2
* EXISTING PVT.:  WARPED & FLUSHED TANDEM          3     7     3
* PLANT:          BATCH
* PLANT CAP.,TPH: 8000 LB.
* SILO CAP.,TON:  NONE
* NO. OF BINS:    3(HOT), 5(COLD)
*
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE  FREQ  NO. OF
* FORWARD BACK. (IN.)      (CPS)  VIB. DRUMS
*
*
*
* HAULING & LOADING EQUIPMENT:          MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W PRE-          RICE          Gt
* TRAILER TRAILER LOADER          (227 F)        (207 F)
* X                                  X
*
* DENSITY MEASUREMENT TECHNIQUE          DAY OF DENSITY TEST
*
* CORES  NUCLEAR IN WHEEL BETWEEN  SAME DAY  NEXT DAY
* PATH  W. PATH  PLACED  OR LATER
*
* X X X X
*****

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* *****
* DISTRICT:      8 COUNTY: TAYLOR          HIGHWAY: US 83
* TYPE: D        COURSE: SURFACE
* PROJECT: CSR 33-6-76                    CONTROLL: 33-6-76
* *****

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DENSITY INFORMATION

DESIGN AC #DS3		BASED ON					
		Gt					
WORKING	CORE	NUC.	LAB.	WORKING	EXT.	DESIGN	DES.
DAY	DEN.,	DEN.,	DEN.,	DAY	AC,	AC,	-
	%	%	%		%	%	EXT.
1		96.8	96.2	1	4.5	4.7	0.2
					4.7	4.7	0.0
					4.6	4.7	0.1
2		94.0	96.3	2	4.8	4.7	-0.1
					4.6	4.7	0.1
					4.8	4.7	-0.1
3		92.6	96.6	3	4.6	4.7	0.1
					5.0	4.7	-0.3
					5.0	4.7	-0.3
4		94.8	96.1	4	4.7	4.7	0.0
					4.9	4.7	-0.2
					4.9	4.7	-0.2
7		91.8	95.8	7	4.4	4.7	0.3
					4.8	4.7	-0.1
					5.1	4.7	-0.4
8		91.2	96.6	8	4.4	4.7	0.3
					4.3	4.7	0.4
					5.0	4.7	-0.3
9		94.2	95.8	9	4.6	4.7	0.1
					4.7	4.7	0.0
					4.9	4.7	-0.2
10		93.2	96.7	10	5.0	4.7	-0.3
					4.8	4.7	-0.1
					5.0	4.7	-0.3

COUNT=		8	8		24	24	24
AVG=		93.58	96.26		4.75	4.70	-0.05
STD=		1.67	0.33		0.22	0.00	0.22
MAX=		96.8	96.7		5.1	4.7	0.4
MIN=		91.2	95.8		4.3	4.7	-0.4
STD N-1=		1.79	0.35		0.22	0.00	0.22

```

*****
* DISTRICT:      10 COUNTY: ANDERSON      HIGHWAY: US 287
* TYPE: D        COURSE: SURFACE
* PROJECT: CSB 109-1-39                  CONTROL: 0109-01-039
*****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5          ROLLERS: WEIGHT  SPEED  #PASS IN TRAIN
* UNDERLAIN LAYER: OLD ACP/SEAL COAT      (TON)  (MPH)  POSITION
* MIX DISCHARGE TEMP 325 F      3-WHEEL  10     3     2     1
* TEMP @ 1st PASS: 275-300 F      VIBRATORY
* TEMP @ 2nd PASS: 180-200 F      PNEUMATIC  12    3     2     2
* EXISTING PVT.: RUT/PATCH/FLUSH/JOINT TANDEM  6     3     2     3
* PLANT:                BATCH
* PLANT CAP.,TPH:       90
* SILO CAP.,TON:
* NO. OF BINS:         3(HOT), 3(COLD)
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE  FREQ  NO. OF
* FORWARD BACK.  (IN.)      (CPS)  VIB. DRUMS
*
*
* HAULING & LOADING EQUIPMENT:          MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W FLOW-      RICE      Gt
* TRAILER TRAILER BOY          (227 F)   (207 F)
* X                X                X
*
* DENSITY MEASUREMENT TECHNIQUE          DAY OF DENSITY TEST
*
* CORES  NUCLEAR IN WHEEL BETWEEN  SAME DAY  NEXT DAY
*        PATH   W. PATH  PLACED    OR LATER
*
* X                X                X
*****

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* ***** *
* DISTRICT: 10 COUNTY: ANDERSON HIGHWAY: US 287 *
* TYPE: D COURSE: SURFACE *
* PROJECT: CSB 109-1-39 CONTROL: 0109-01-039 *
* ***** *

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DENSITY INFORMATION
DESIGN AC #DS3

WORKING DAY	CORE		LAB.		WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
	DEN., %	NUC. DEN., %	DEN., %	GL/Gt *				
1	89.8		97.0		1	5.4	5.4	0.0
						5.4	5.4	0.0
2	89.8		97.9		2	5.3	5.4	0.1
						5.3	5.4	0.1
5	92.2		97.3		5	5.4	5.4	0.0
6	93.1		97.8		6	5.3	5.4	0.1
7	90.7		97.6		7	5.4	5.4	0.0
8			97.0		8	5.3	5.4	0.1
9			97.4		9	5.3	5.4	0.1
12	94.1		97.5		12	5.1	5.4	0.3
13	93.0		97.4		13	5.2	5.4	0.2
14	93.3		97.3		14	5.4	5.4	0.0
15	92.6		98.4		15	5.7	5.4	-0.3
19	92.8		97.5		19	5.2	5.4	0.2
20	93.9		98.7		20	5.4	5.4	0.0
21	93.8		98.2		21	5.1	5.4	0.3
25	92.1		98.1		25	5.4	5.4	0.0
26	92.0		98.0		26	5.4	5.4	0.0
27	94.2		97.9		27	5.2	5.4	0.2
28	92.3		98.2		28	5.2	5.4	0.2
32	92.8		98.2		32	5.4	5.4	0.0
33	88.1		98.4		33	5.1	5.4	0.3
34	90.3		98.4		34	5.5	5.4	-0.1
35	93.1		98.4		35	5.6	5.4	-0.2
36	94.8		98.0		36	5.8	5.4	-0.4

COUNT=	21		23			25	25	25
AVG=	92.32		97.85			5.35	5.40	0.05
STD=	1.66		0.46			0.17	0.00	0.17
MAX=	94.8		98.7			5.8	5.4	0.3
MIN=	88.1		97.0			5.1	5.4	-0.4
STD N-1	1.70		0.47			0.17	0.00	0.17

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* *****
* DISTRICT: 12 COUNTY: GALVESTON & HARRISHIGHWAY: FM 1764
* TYPE: D COURSE: LEVEL UP
* PROJECT: CSR 1607-1-27 CONTROL: 1607-1-27
* *****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5 ROLLERS: WEIGHT SPEED #PASS IN TRAIN
* UNDERLAIN LAYER: CONC. PAV. (TON) (MPH) POSITION
* MIX DISCHARGE TEMP 320 F 3-WHEEL
* TEMP @ 1st PASS: 225 F VIBRATORY 9 4 1
* TEMP @ 2nd PASS: 180 F PNEUMATIC 25 4 2
* EXISTING PVT.: SMOOTH TANDEM 9 4 3
* PLANT: DRUM
* PLANT CAP.,TPH: 250
* SILO CAP.,TON: 80
* NO. OF BINS: 4 COLD
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS
* X 0.013 35 1
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY
* BOBTAIL SEMI- BOBTAIL/W PRE- RICE Gt
* TRAILER TRAILER LOADER (227 F) (207 F)
* X X X
*
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST
* CORES NUCLEAR IN WHEEL BETWEEN SAME DAY NEXT DAY
* PATH W. PATH PLACED OR LATER
* X X X X
*
* *****

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* *****
* DISTRICT: 12 COUNTY: GALVESTON & HARRISHIGHWAY: FM 1764
* TYPE: D COURSE: LEVEL UP
* PROJECT: CSR 1607-1-27 CONTROL: 1607-1-27
* *****

```

DENSITY INFORMATION
DESIGN AC #D1

CORE						
WORKING	DEN.,	LAB.	WORKING	EXT.	DESIGN	DES.
DAY	%	DEN.,	DAY	AC,	AC,	-
	Gc/Gt *	%		%	%	EXT.

1		97.7	1	4.8	5.2	0.4
2	94.6	98.2	2	5.4	5.2	-0.2
	94.8			4.9	5.2	0.3
3	92.8	97.1	3	4.8	5.2	0.4
	93.1			4.9	5.2	0.3
				4.9	5.2	0.3
4	93.6	97.9	4	4.9	5.2	0.3
	94.0			4.9	5.2	0.3
				4.9	5.2	0.3
7	95.0	98.3	7	4.3	5.2	0.9
	94.0			4.8	5.2	0.4
				4.8	5.2	0.4
8	91.6	97.5	8	4.5	5.2	0.7
	92.9			5.1	5.2	0.1
9	95.3	94.7	9	4.9	5.2	0.3
	93.1			5.5	5.2	-0.3
11	92.5	97.5	11	4.9	5.2	0.3
	93.6					
24	96.0	97.3	24	4.7	5.2	0.5
	92.9			5.9	5.2	-0.7

COUNT=	16	9		19	19	19
AVG=	93.74	97.36		4.94	5.20	0.26
STD=	1.13	1.01		0.34	0.00	0.34
MAX=	96.0	98.3		5.9	5.2	0.9
MIN=	91.6	94.7		4.3	5.2	-0.7
STD N-1=	1.17	1.07		0.35	0.00	0.35

* ***** *
 * DISTRICT: 12 COUNTY: GALVESTON & HARRISHIGHWAY: FM 1764 *
 * TYPE: D COURSE: LEVEL UP *
 * PROJECT: CSR 1607-1-27 CONTROL: 1607-1-27 *
 * ***** *

DENSITY INFORMATION
 DESIGN AC #D2-3

CORE						
WORKING	DEN.,	LAB.	WORKING	EXT.	DESIGN	DES.
DAY	%	DEN.,	DAY	AC,	AC,	-
	Gc/Gt *	%		%	%	EXT.
25		98.1	25	5.4	5.0	-0.4
				4.8	5.0	0.2
				4.8	5.0	0.2
28	92.4	97.7	28	4.8	4.8	0.0
	95.2			5.2	4.8	-0.4
				4.7	4.8	0.1
29		97.8	29	5.8	4.8	-1.0
				5.1	4.8	-0.3
34		98.1	34	4.8	4.8	0.0
35	92.5	97.6	35	4.8	4.8	0.0
	92.8			4.7	4.8	0.1

COUNT=	4	5		11	11	11
AVG=	93.23	97.86		4.99	4.85	-0.14
STD=	1.15	0.21		0.33	0.09	0.34
MAX=	95.2	98.1		5.8	5.0	0.2
MIN=	92.4	97.6		4.7	4.8	-1
STD N-1=	1.33	0.23		0.35	0.09	0.36

 * DISTRICT: 12 COUNTY: MONTGOMERY HIGHWAY: FM 1314 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CSR1986-1-18 CONTROL: 1986-1-18 *
 * *****

* GENERAL INFORMATION *

* THICKNESS 1-1.5 ROLLERS: WEIGHT SPEED #PASS IN TRAIN *
 * UNDERLAIN LAYER: BLACK BASE (TON) (MPH) POSITION *
 * MIX DISCHARGE TEMP 300 F 3-WHEEL *
 * TEMP @ 1st PASS: 270 F VIBRATORY 25 4 4 1 *
 * TEMP @ 2nd PASS: 200 F PNEUMATIC 25 8 2 *
 * EXISTING PVT.: SMOOTH TANDEM 25 4 3 *
 * PLANT: DRUM *
 * PLANT CAP.,TPH: 400 *
 * SILO CAP.,TON: 2-150 *
 * NO. OF BINS: 5 COLD *

* VIBRATORY ROLLER INFORMATION *

VIBRAT. FORWARD	VIBRAT. BACK.	AMPLITUDE (IN.)	FREQ (CPS)	NO. OF VIB. DRUMS
X		(LOW)	31	2

* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY *
 * BOBTAIL SEMI- BOBTAIL/W PRE- RICE Gt *
 * TRAILER TRAILER LOADER (227 F) (207 F) *
 * X X *

* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST *
 * CORES NUCLEAR IN WHEEL BETWEEN OTHER SAME DAY NEXT DAY *
 * PATH W. PATH PLACED OR LATER *
 * X X X X X *

 * DISTRICT: 12 COUNTY: MONTGOMERY HIGHWAY: FM 1314 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CSR1986-1-18 CONTROL: 1986-1-18 *
 * *****

DENSITY INFORMATION
 DESIGN AC #DS1

WORKING DAY	CORE DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.

1	91.1	98.7	1	5.8	5.3	-0.5
				5.6	5.3	-0.3
3	92.3	96.2	3	4.8	5.3	0.5
				5.7	5.3	-0.4
				5.4	5.3	-0.1
4	91.2	97.3	4	5.6	5.3	-0.3
				5.5	5.3	-0.2
6	90.3	95.6	6	5.0	5.3	0.3
13	92.5	97.5	13	5.4	5.3	-0.1
				5.0	5.3	0.3
14	92.1	97.3	14	5.5	5.3	-0.2
				5.0	5.3	0.3
				5.5	5.3	-0.2
15	91.1	96.9	15	4.9	5.3	0.4
				4.9	5.3	0.4
				5.3	5.3	0.0
17	91.8	96.6	17	4.9	5.3	0.4
18	91.9	95.6	18	4.9	5.3	0.4
				5.2	5.3	0.1
				5.3	5.3	0.0
20	91.1	96.8	20	5.2	5.3	0.1
				5.1	5.3	0.2
				5.2	5.3	0.1
21	92.0	97.0	21	5.3	5.3	0.0
				5.2	5.3	0.1
				5.3	5.3	0.0
22	91.8	97.0	22	5.3	5.3	0.0
27	90.8	96.9	27	5.3	5.3	0.0

COUNT=	13	13		28	28	28
AVG=	91.54	96.88		5.25	5.30	0.05
STD=	0.62	0.78		0.26	0.00	0.26
MAX=	92.5	98.7		5.8	5.3	0.5
MIN=	90.3	95.6		4.8	5.3	-0.5
STD N-1=	0.65	0.81		0.27	0.00	0.27

```

*****
* DISTRICT: 12 COUNTY: MONTGOMERY HIGHWAY: IH 45
* TYPE: D COURSE: SURFACE
* PROJECT: IR45-1(226)084 CONTROL: C675-08-48
*****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5 ROLLERS: WEIGHT SPEED #PASS IN TRAIN
* UNDERLAIN LAYER: RECENT ACP (TON) (MPH) POSITION
* MIX DISCHARGE TEMP 300 F 3-WHEEL
* TEMP @ 1st PASS: 285 F VIBRATORY 12 3 2 1
* TEMP @ 2nd PASS: PNEUMATIC 25 5 10 2
* EXISTING PVT.: SMOOTH TANDEM 12 3 1 3
* PLANT: DRUM
* PLANT CAP.,TPH: 350
* SILO CAP.,TON: 90
* NO. OF BINS: 4 COLD
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS
* X X 2
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY
* BOBTAIL SEMI- BOBTAIL/W PRE- RICE Gt
* TRAILER TRAILER LOADER (227 F) (207 F)
* X X
*
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST
* CORES NUCLEAR IN WHEEL BETWEEN SAME DAY NEXT DAY
* PATH W. PATH PLACED OR LATER
* X X X X
*****

```



```

*****
* DISTRICT: 12      COUNTY: MONTGOMERY      HIGHWAY: IH 45      *
*   TYPE: D        COURSE: SURFACE          *
* PROJECT: IR45-1(226)084                  CONTROL: C675-08-48 *
*****

```

DENSITY INFORMATION
DESIGN AC #DS1

WORKING DAY	CORE DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	94.9	94.6	1	5.3	5.6	0.3
				5.4	5.6	0.2
2	91.4	95.0	2	5.4	5.6	0.2
				5.2	5.6	0.4
				4.9	5.6	0.7
7	92.2	94.3	7	4.7	5.6	0.9
				4.3	5.6	1.3
10	93.4	96.0	10	5.4	5.6	0.2
				5.1	5.6	0.5
14	89.5	95.7	14	5.4	5.6	0.2
				4.5	5.6	1.1
				5.5	5.6	0.1
15		95.5	15	5.7	5.6	-0.1
16		95.6	16	5.9	5.6	-0.3
COUNT=	5	7		14	14	14
AVG=	92.28	95.24		5.19	5.60	0.41
STD=	1.82	0.58		0.44	0.00	0.44
MAX=	94.9	96.0		5.9	5.6	1.3
MIN=	89.5	94.3		4.3	5.6	-0.3
STD N-1=	2.04	0.62		0.45	0.00	0.45

```

* *****
* DISTRICT:      13 COUNTY: FAYETTE          HIGHWAY: US 77
*   TYPE: D      COURSE: SURFACE
* PROJECT: CSR 26-3-35                      CONTROL: 26-3-35
* *****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5          ROLLERS: WEIGHT   SPEED   #PASS IN TRAIN
* UNDERLAIN LAYER: RECENT ACP          (TON)   (MPH)   POSITION
* MIX DISCHARGE TEMP290-300 F          3-WHEEL
* TEMP @ 1st PASS: 280 F          VIBRATORY 10     2.36   4     1
* TEMP @ 2nd PASS: 185 F          PNEUMATIC 23     3     3     2
* EXISTING PVT.: SMOOTH          TANDEM
* PLANT: DRUM MIXER
* PLANT CAP.,TPH: 400
* SILO CAP.,TON: 90
* NO. OF BINS: 4(COLD)
*
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE      FREQ      NO. OF
* FORWARD BACK. (IN.)          (CPS)     VIB. DRUMS
*
* X      X      0.040          35      2
*
*
* HAULING & LOADING EQUIPMENT:          MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W FLOW-          RICE          Gt
* TRAILER TRAILER BOY          (227-F)       (207-F)
* X                                  X
*
* DENSITY MEASUREMENT TECHNIQUE          DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN          SAME DAY      NEXT DAY
* PATH W. PATH          PLACED          OR LATER
* X                                  X
*
* *****

```

```

* ***** *
* DISTRICT: 13 COUNTY: FAYETTE HIGHWAY: US 77 *
* TYPE: D COURSE: SURFACE *
* PROJECT: CSR 26-3-35 CONTROL: 26-3-35 *
* ***** *

```

DENSITY INFORMATION
DESIGN AC #DW4

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	91.4		95.9	2	5.8	6.0	0.2
	93.0				6.3	6.0	-0.3
	91.9						
2	91.1		96.6	3	6.0	6.0	0.0
3	93.4		96.8	4	6.2	6.0	-0.2
	91.7				6.3	6.0	-0.3
	93.9						
	93.1						
17	92.8		96.6	18	5.9	6.0	0.1
	93.2		96.0		6.0	6.0	0.0
	94.6				6.0	6.0	0.0

COUNT=	11		5		8	8	8
AVG=	92.74		96.38		6.06	6.00	-0.06
STD=	1.04		0.36		0.17	0.00	0.17
MAX=	94.6		96.8		6.3	6.0	0.2
MIN=	91.1		95.9		5.8	6.0	-0.3
STD N-1=	1.09		0.40		0.18	0.00	0.18

```

*****
* DISTRICT:      13 COUNTY: FAYETTE          HIGHWAY: US 77      *
*   TYPE: D      COURSE: SURFACE            *
* PROJECT: CSR 26-3-35                      CONTROL: 26-3-35    *
*****

```

DENSITY INFORMATION
DESIGN AC #DWS

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.

6	90.8		94.6	7	5.2	5.1	-0.1
	89.9				5.4	5.1	-0.3
	91.6						
	89.6						
7	90.4		96.1	8	5.9	5.1	-0.8
	91.7		96.6		5.7	5.1	-0.6
	90.7						
	92.9						
8	90.9		96.6	9	6.3	5.1	-1.2
	93.6		96.6		6.1	5.1	-1.0
	93.3						
9	89.4		96.0	10	5.8	5.7	-0.1
	92.3		95.1		5.6	5.7	0.1
	93.7						
10	92.7		96.8	11	6.0	5.7	-0.3
	94.1				6.0	5.7	-0.3
13	92.0		96.0	14	5.6	5.7	0.1
	92.8				5.8	5.7	-0.1
	92.0						
	93.1						
14	92.7		95.4	15	5.8	5.7	-0.1
	92.4				6.0	5.7	-0.3
	93.3						
15	91.4		93.5	16	6.1	5.7	-0.4
	93.4				6.0	5.7	-0.3
	91.6						
16	93.7		96.8	17	5.9	5.7	-0.2
	92.0				6.0	5.7	-0.3
	93.6						
	92.9						
27	90.8		95.6	28	6.2	5.7	-0.5
	90.2						

COUNT=	32		13		19	19	19
AVG=	92.05		95.82		5.86	5.51	-0.35
STD=	1.31		0.94		0.27	0.28	0.33
MAX=	94.1		96.8		6.3	5.7	0.1
MIN=	89.4		93.5		5.2	5.1	-1.2
STD N-1=	1.33		0.98		0.27	0.29	0.34

```

*****
* DISTRICT: 13 COUNTY: FAYETTE HIGHWAY: US 77 *
* TYPE: D COURSE: SURFACE *
* PROJECT: CSR 26-3-35 CONTROL: 26-3-35 *
*****

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DENSITY INFORMATION
DESIGN AC #DW6

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
20	95.4		97.5	21	6.4	6.0	-0.4
	94.6		97.1		6.2	6.0	-0.2
	92.0						
	92.3						
21	94.9		97.7	22	6.1	6.0	-0.1
	94.3				5.9	6.0	0.1
	95.6						
22	93.6		97.0	23	5.6	6.0	0.4
	93.8				6.1	6.0	-0.1
	93.5						
	94.6						
23	94.3		97.4	24	5.9	6.0	0.1
	95.5				6.1	6.0	-0.1
	92.8						
24	94.0		96.8	25	5.7	6.0	0.3
	93.0		96.7	5	5.7	6.0	0.3
					6.4	6.0	-0.4
COUNT=	16		7		11	11	11
AVG=	94.01		97.17		6.01	6.00	-0.01
STD=	1.07		0.35		0.26	0.00	0.26
MAX=	95.6		97.7		6.4	6.0	0.4
MIN=	92.0		96.7		5.6	6.0	-0.4
STD N-1=	1.10		0.37		0.27	0.00	0.27

```

*****
* DISTRICT:      13 DISTRICT:GONZALES      HIGHWAY: SH 80
*   TYPE: D      COURSE: SURFACE
* PROJECT: CSR-287-3-17      CONTROL: 0287-03-017
*****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5      ROLLERS:  WEIGHT  SPEED  #PASS IN TRAIN
* UNDERLAIN LAYER: RECENT ACP      (TON)  (MPH)      POSITION
* MIX DISCHARGE TEMP 300 F      3-WHEEL
* TEMP @ 1st PASS: 240 F      VIBRATORY  10    3.5    3    1
* TEMP @ 2nd PASS: 200 F      PNEUMATIC  17    5      2    2
* EXISTING PVT.: SMOOTH      TANDEM
* PLANT: DRUM MIXER
* PLANT CAP.,TPH: 240
* SILO CAP.,TON: 400
* NO. OF BINS: 4(COLD)
*
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE      FREQ      NO. OF
* FORWARD BACK. (IN.)      (CPS)      VIB. DRUMS
*
* X X 0.029      36      1
*
*
* HAULING & LOADING EQUIPMENT:      MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W FLOW-      RICE      Gt
* TRAILER TRAILER BOY      (227-F)      (207-F)
* X X X
*
* DENSITY MEASUREMENT TECHNIQUE      DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN      SAME DAY      NEXT DAY
* PATH W. PATH      PLACED      OR LATER
* X X X
*****

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*****
* DISTRICT:      13 DISTRICT:GONZALES      HIGHWAY: SH 80      *
* TYPE: D        COURSE: SURFACE           *
* PROJECT: CSR-287-3-17                     CONTROL: 0287-03-017 *
*****

```

DENSITY INFORMATION
DESIGN AC #DS3

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.

1	91.2		96.5	1	4.7	4.6	-0.1
	89.3				4.6	4.6	0.0
	88.2						
	90.5						
	90.0						
2			96.4	2	4.4	4.6	0.2
					4.6	4.6	0.0
3			96.7	3	4.4	4.6	0.2
					4.4	4.6	0.2
4	91.0		97.1	4	4.5	4.6	0.1
	90.2				4.6	4.6	0.0
					4.3	4.6	0.3
8	89.1		96.4	8	4.5	4.6	0.1
	88.0				4.5	4.6	0.1
					4.3	4.6	0.3
9			96.2	9	4.5	4.6	0.1
					4.7	4.6	-0.1
					4.6	4.6	0.0
10	91.8		97.7	10	4.9	4.9	0.0
	92.6				4.8	4.9	0.1
	89.9				4.6	4.9	0.3
	90.7						
11	91.5		97.3	11	4.7	4.9	0.2
	95.3				4.7	4.9	0.2
14	89.0		97.4	14	4.8	4.9	0.1
	92.3				4.9	4.9	0.0
15	91.8		97.5	15	4.9	4.9	0.0
	89.4				4.6	4.9	0.3
16	90.6		97.4	16	4.8	4.9	0.1
	91.6				5.0	4.9	-0.1
17	92.2		97.7	17	4.9	4.9	0.0

COUNT=	22		12		27	27	27
AVG=	90.74		97.03		4.64	4.73	0.10
STD=	1.62		0.53		0.19	0.15	0.12
MAX=	95.3		97.7		5.0	4.9	0.3
MIN=	88.0		96.2		4.3	4.6	-0.1
STD N-1=	1.66		0.55		0.19	0.15	0.13

```

* *****
* DISTRICT:      13 DISTRICT:GONZALES      HIGHWAY: US 87
* TYPE: D        COURSE: SURFACE
* PROJECT: CSR-143-7-31                    CONTROL: 0143-07-031
* *****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5          ROLLERS:  WEIGHT  SPEED  #PASS IN TRAIN
* UNDERLAIN LAYER: RECENT ACP          (TON)  (MPH)  POSITION
* MIX DISCHARGE TEMP 300 F          3-WHEEL 13.77  3.5    3      1
* TEMP @ 1st PASS: 240 F          VIBRATORY 9.33  3      1      2
* TEMP @ 2nd PASS: 200 F          PNEUMATIC 12.13  5      2      3
* EXISTING PVT.: SMOOTH          TANDEM
* PLANT: DRUM MIXER
* PLANT CAP.,TPH: 240
* SILO CAP.,TON: 400
* NO. OF BINS: 4(COLD)
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE      FREQ      NO. OF
* FORWARD BACK. (IN.)          (CPS)     VIB. DRUMS
*
* X          0.047          28          1
*
* HAULING & LOADING EQUIPMENT:          MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W FLOW-          RICE          Gt
* TRAILER TRAILER BOY          (227-F)        (207-F)
* X
*
* DENSITY MEASUREMENT TECHNIQUE          DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN          SAME DAY          NEXT DAY
* PATH W. PATH          PLACED          OR LATER
* X          X          X
*
* *****

```



```

* *****
* DISTRICT:      13 DISTRICT:GONZALES      HIGHWAY: US 87      *
* TYPE: D        COURSE: SURFACE           *
* PROJECT: CSR-143-7-31                    CONTROL: 0143-07-031 *
* *****

```

DENSITY INFORMATION
DESIGN AC #DS3

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	89.1		96.5	1	4.7	4.6	-0.1
	90.1				4.6	4.6	0.0
	87.5						
	88.7						
2	87.8		96.4	2	4.4	4.4	0.0
	90.6				4.6	4.6	0.0
3			96.7	3	4.4	4.6	0.2
					4.4	4.6	0.2
4			97.1	4	4.5	4.6	0.1
					4.6	4.6	0.0
					4.3	4.6	0.3
8	90.1		96.4	8	4.5	4.6	0.1
	91.1				4.5	4.6	0.1
					4.3	4.6	0.3
9	93.0		96.2	9	4.5	4.6	0.1
	89.9				4.7	4.6	-0.1
					4.6	4.6	0.0
10	93.1		97.7	10	4.9	4.9	0.0
					4.8	4.9	0.1
					4.6	4.9	0.3
11			97.3	11	4.7	4.9	0.2
COUNT=	11		8		19	19	19
AVG=	90.09		96.79		4.56	4.65	0.09
STD=	1.75		0.49		0.16	0.14	0.12
MAX=	93.1		97.7		4.9	4.9	0.3
MIN=	87.5		96.2		4.3	4.4	-0.1
STD N-1=	1.84		0.52		0.16	0.14	0.13

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* *****
* DISTRICT:      13 COUNTY: JACKSON          HIGHWAY: SH 111
* TYPE: D        COURSE: SURFACE
* PROJECT: SR 40(5)                          CONTROL: 346-2-10
* *****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5          ROLLERS: WEIGHT   SPEED   #PASS IN TRAIN
* UNDERLAIN LAYER: RECENT ACP          (TON)   (MPH)   POSITION
* MIX DISCHARGE TEMP 325 F          3-WHEEL 10.79   3       2       1
* TEMP @ 1st PASS: 230 F          VIBRATORY
* TEMP @ 2nd PASS: 190 F          PNEUMATIC 28.69   4       5       3
* EXISTING PVT.: SMOOTH          TANDEM   8.33   3       2       2
* PLANT: BATCH
* PLANT CAP.,TPH: 90
* SILO CAP.,TON:
* NO. OF BINS: 3(HOT),4(COLD)
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE   FREQ   NO. OF
* FORWARD BACK. (IN.)         (CPS)  VIB. DRUMS
*
*
* HAULING & LOADING EQUIPMENT:          MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W FLOW-          RICE          Gt
* TRAILER TRAILER BOY          (227-F)        (207-F)
* X X
*
* DENSITY MEASUREMENT TECHNIQUE          DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN   SAME DAY   NEXT DAY
* PATH W. PATH   PLACED   OR LATER
* X X
*
* *****

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*****
* DISTRICT: 13 COUNTY: JACKSON HIGHWAY: SH 111 *
* TYPE: D COURSE: SURFACE *
* PROJECT: SR 40(5) CONTROL: 346-2-10 *
*****

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DENSITY INFORMATION
DESIGN AC #86-184

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	93.6		98.1	1	4.4	4.5	0.1
			98.0		4.5	4.5	0.0
2	90.5		97.7	2	4.4	4.5	0.1
			98.0		4.3	4.5	0.2
3	90.5		98.0	3	4.4	4.5	0.1
			98.4		4.5	4.5	0.0
6	93.8		97.6	6	4.8	4.5	-0.3
7	91.2		97.9	7	4.8	4.5	-0.3
8	91.2		97.2	8	4.8	4.5	-0.3
			98.4		4.5	4.5	0.0
9	91.2		97.4	9	4.6	4.5	-0.1
10			97.8	10	4.6	4.5	-0.1
13	91.6		97.3	13	4.6	4.5	-0.1
14	91.9		97.3	14	4.6	4.5	-0.1
15	92.9		98.2	15	4.5	4.5	0.0
21			97.2	21	4.5	4.5	0.0
					4.8	4.5	-0.3
22	91.0		98.1	22	4.9	4.5	-0.4
					4.6	4.5	-0.1
23	91.0		98.0	23	4.9	4.5	-0.4
					4.8	4.5	-0.3
24			97.7	24	4.9	4.5	-0.4
					4.8	4.5	-0.3
28	92.5		97.3	28	4.6	4.5	-0.1
29			98.0	29	4.7	4.5	-0.2
30	90.2		97.9	30	4.7	4.5	-0.2
34	87.0		98.6	34	4.7	4.5	-0.2
35	88.5		98.2	35	4.4	4.5	0.1
36	88.5		98.2	36	4.5	4.5	0.0
37	89.5		99.4	37	4.7	4.5	-0.2
38	89.9		99.1	38	4.7	4.5	-0.2
39	87.0		99.4	39	4.7	4.5	-0.2
41			98.1	41	4.7	4.5	-0.2
42	88.9		97.3	42	4.3	4.5	0.2
43			97.5	43	4.8	4.5	-0.3

COUNT=	21		31		35	35	35
AVG=	90.59		97.98		4.63	4.50	-0.13
STD=	1.85		0.57		0.17	0.00	0.17
MAX=	93.8		99.4		4.9	4.5	0.2
MIN=	87.0		97.2		4.3	4.5	-0.4
STD N-1=	1.89		0.58		0.17	0.00	0.17

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*****
* DISTRICT:      13 DISTRICT:LAVACA      HIGHWAY: SH 95
*   TYPE: D      COURSE: SURFACE
* PROJECT: CSR-26-3-35                  CONTROL: CSR0324-02-012
*****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5                      ROLLERS:  WEIGHT  SPEED  #PASS IN TRAIN
* UNDERLAIN LAYER: OLD ACP-CONC PAV    (TON)    (MPH)      POSITION
* MIX DISCHARGE TEMP:290-300 F        3-WHEEL
* TEMP @ 1st PASS: 280 F              VIBRATORY  10    2.36    4    1
* TEMP @ 2nd PASS: 185 F              PNEUMATIC  23    3       3    2
* EXISTING PVT.:  WARP-PATCH-JOINT    TANDEM
* PLANT:          DRUM MIXER
* PLANT CAP.,TPH: 400
* SILO CAP.,TON:  90
* NO. OF BINS:   4(COLD)
*
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE  FREQ  NO. OF
* FORWARD BACK.  (IN.)      (CPS)  VIB. DRUMS
*
*          X      X      0.04      35      2
*
*
* HAULING & LOADING EQUIPMENT:          MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W FLOW-          RICE          Gt
* TRAILER TRAILER BOY          (227-F)        (207-F)
*          X
*
* DENSITY MEASUREMENT TECHNIQUE          DAY OF DENSITY TEST
*
* CORES  NUCLEAR IN WHEEL BETWEEN  SAME DAY  NEXT DAY
*          PATH  W. PATH  PLACED      OR LATER
*          X          X          X
*
*****

```

* ***** *
 * DISTRICT: 13 DISTRICT:LAVACA HIGHWAY: SH 95 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CSR-26-3-35 CONTROL: CSRO324-02-012 *
 * ***** *

DENSITY INFORMATION
DESIGN AC #DWS

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	88.3		96.8	1	5.8	5.7	-0.1
	90.2				6.1	5.7	-0.4
	91.1						
2	93.7		96.4	2	5.7	5.7	0.0
	91.3				5.9	5.7	-0.2
	91.1						
3	91.8		96.5	3	6.0	5.7	-0.3
	91.9		97.8		6.3	5.7	-0.6
	94.5						
4	92.0		97.5	4	5.7	5.7	0.0
	93.5		97.9		6.3	5.7	-0.6
	93.1						
7	90.9		97.0	7	6.3	5.7	-0.6
	93.7				6.0	5.7	-0.3
	93.7						
8	92.5		96.8	8	6.2	5.7	-0.5
	95.6				6.0	5.7	-0.3
	93.4						
9	95.0		98.2	9	6.5	5.7	-0.8
	91.7		97.4		5.8	5.7	-0.1
10			97.8	10	6.1	5.7	-0.4
					6.0	5.7	-0.3
11	91.7		96.3	11	5.9	5.7	-0.2
	93.1				6.2	5.7	-0.5
	93.6						
16	95.0		97.4	16	6.4	5.7	-0.7
	93.6		97.9		6.2	5.7	-0.5
	92.4						
17	92.4		96.8	17	6.3	5.7	-0.6
	94.8		97.6		6.3	5.7	-0.6
	96.2						
18	94.8		96.9	18	5.9	5.7	-0.2
	91.2		98.5		6.6	5.7	-0.9
	96.7						

```

* *****
* DISTRICT:      13 DISTRICT:LAVACA          HIGHWAY: SH 95
*   TYPE: D      COURSE: SURFACE
* PROJECT: CSR-26-3-35                      CONTROL: CSR0324-02-012
* *****

```

DENSITY INFORMATION (cont.)

DESIGN AC #DW5

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.

22	93.9		96.8	22	5.8	5.7	-0.1
	92.5				6.2	5.7	-0.5
	95.5						
23	95.3		97.2	23	5.8	5.7	-0.1
	92.2				6.1	5.7	-0.4

COUNT=	37		20	20	28	28	28
AVG=	93.1		97.3	7.6	6.1	5.7	-0.4
STD=	1.79		0.60	7.70	0.24	0.00	0.24
MAX=	96.7		98.5	23.0	6.6	5.7	0.0
MIN=	88.3		96.3	0.0	5.7	5.7	-0.9
STD N-1=	1.82		0.62	7.90	0.24	0.00	0.24

```

*****
* DISTRICT: 14      COUNTY: BASTROP      HIGHWAY: SH 21      *
*   TYPE: C        COURSE: SURFACE      *
* PROJECT: CSR-265-3-24      CONTROL: 0471-05-024      *
*****
*
* GENERAL INFORMATION
*
* THICKNESS 1.5-2 OLD SURFACE      ROLLERS: WEIGHT      SPEED      #PASS IN TRAIN
* UNDERLAIN LAYER: TREATMENT      (TON)      (MPH)      POSITION
* MIX DISCHARGE TEMP 305 F      3-WHEEL      12      8      2-3      2
* TEMP @ 1st PASS: 251 F      VIBRATORY      13      6      2V-1S      1
* TEMP @ 2nd PASS: 180 F      PNEUMATIC      25      5      4      3
* EXISTING PVT.: RUTTED/FLUSHED      TANDEM
* PLANT: DRUM
* PLANT CAP.,TPH: 300
* SILO CAP.,TON: 210
* NO. OF BINS: 5 (COLD)
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE      FREQ      NO. OF
* FORWARD BACK. (IN.)      (CPS)      VIB. DRUMS
*
* X (LOW) 42 1
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAILw/ BELLY      RICE      Gt
* TRAILER TRAILER DUMP      (227 F)      (207 F)
* X X
*
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN OTHER      SAME DAY      NEXT DAY
* PATH W. PATH PLACED OR LATER
*
* X X X X X
*****

```

```

* *****
* DISTRICT: 14 COUNTY: BASTROP HIGHWAY: SH 21
* TYPE: C COURSE: SURFACE
* PROJECT: CSR-265-3-24 CONTROL: 0471-05-024
* *****

```

DENSITY INFORMATION
DESIGN AC #1

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1			97.3	1	4.5	4.5	0.0
6	90.5		97.5	6	4.5	4.5	0.0
7	92.5		98.4	7	4.5	4.5	0.0
					4.5	4.5	0.0
8	91.8		97.7	8	4.5	4.5	0.0
					4.5	4.5	0.0
9	92.2		98.0	9	4.6	4.5	-0.1
11	91.8		97.7	11	4.7	4.5	-0.2
COUNT=	5		6		8	8	8
AVG=	91.76		97.77		4.54	4.50	-0.04
STD=	0.68		0.35		0.07	0.00	0.07
MAX=	92.5		98.4		4.7	4.5	0.0
MIN=	90.5		97.3		4.5	4.5	-0.2
STD N-1=	0.76		0.39		0.07	0.00	0.07


```

*****
* DISTRICT: 14 COUNTY: BASTROP HIGHWAY: SH 21 *
* TYPE: C COURSE: SURFACE *
* PROJECT: CSR-265-3-24 CONTROL: 0471-05-024 *
*****

```

DENSITY INFORMATION
DESIGN AC #2

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	DES	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
12	91.5		97.6		12	4.5	4.5	0.0
						4.5	4.5	0.0
13	90.5		97.7		13	4.5	4.5	0.0
14	90.8		96.7		14	4.7	4.5	-0.2
						4.5	4.5	0.0
						4.4	4.5	0.1
18	90.1		97.8		18	4.4	4.5	0.1
20	91.1		97.5		20	4.5	4.5	0.0
						4.5	4.5	0.0
21	92.2		98.1		21	4.5	4.5	0.0
25	92.0		97.4		25	4.4	4.5	0.1
						4.5	4.5	0.0
26	91.3		98.4		26	4.4	4.5	0.1
						4.3	4.5	0.2
						4.5	4.5	0.0
27	93.2		96.9		27	4.0	4.5	0.5
			98.1			4.5	4.5	0.0
			98.4			4.7	4.5	-0.2
			99.1			4.7	4.5	-0.2
28	91.4		99.7		28	4.7	4.5	-0.2
			98.2			4.5	4.5	0.0
29			99.0		29	4.6	4.6	0.0

COUNT=	10		15			22	22	22
AVG=	91.41		98.04			4.49	4.50	0.01
STD=	0.85		0.79			0.15	0.02	0.15
MAX=	93.2		99.7			4.7	4.6	0.5
MIN=	90.1		96.7			4.0	4.5	-0.2
STD N-1=	0.89		0.81			0.15	0.02	0.15

```

*****
* DISTRICT: 14 COUNTY: BASTROP HIGHWAY: SH 71 *
* TYPE: D COURSE: SURFACE *
* PROJECT: MA-F 283(13) CONTROL: 0265-05-046 *
*****
*
* GENERAL INFORMATION *
*
* THICKNESS 1-1.5 FLEX BASE ROLLERS: WEIGHT SPEED #PASS IN TRAIN *
* UNDERLAIN LAYER: w/ UNDER SEAL (TON) (MPH) POSITION *
* MIX DISCHARGE TEMP 300 F 3-WHEEL *
* TEMP @ 1st PASS: 260 F VIBRATORY 10 2.7 2 1 *
* TEMP @ 2nd PASS: 230 F PNEUMATIC 25 3 3 2 *
* EXISTING PVT.: SMOOTH TANDEM *
* PLANT: DRUM *
* PLANT CAP.,TPH: 320 *
* SILO CAP.,TON: 180 *
* NO. OF BINS: 4(HOT) & 7(COLD) *
*
* VIBRATORY ROLLER INFORMATION *
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF *
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS *
* X 0.028 38 2 *
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY *
* BOBTAIL SEMI- BOBTAILw/ BELLY RICE Gt *
* TRAILER TRAILER DUMP (227 F) (207 F) *
* X X *
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST *
* CORES NUCLEAR IN WHEEL BETWEEN SAME DAY NEXT DAY *
* PATH W. PATH PLACED OR LATER *
* X X X *
*****

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*****
* DISTRICT: 14 COUNTY: BASTROP HIGHWAY: SH 71 *
* TYPE: D COURSE: SURFACE *
* PROJECT: MA-F 283(13) CONTROL: 0265-05-046 *
*****

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DENSITY INFORMATION
DESIGN AC #2

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1			96.7	1	4.4	4.9	0.5
					4.8	4.9	0.1
2	92.6		96.1	2	4.5	4.9	0.4
					5.1	4.9	-0.2
3	91.2		97.2	3	4.7	4.9	0.2
					4.8	4.9	0.1
4			96.0	4	4.5	4.9	0.4
					4.9	4.9	0.0
5	91.1		98.0	5	5.2	4.9	-0.3
8	90.6		97.5	8	5.0	4.9	-0.1
					5.0	4.9	-0.1
9			97.2	9	4.8	4.9	0.1
10	91.4		98.8	10	5.4	5.1	-0.3
					5.1	5.1	0.0
11	91.4		98.2	11	5.1	5.1	0.0
15	92.4		98.4	15	5.2	5.1	-0.1
					5.1	5.1	0.0
16	93.2		98.0	16	5.1	5.1	0.0
					5.2	5.1	-0.1
17	92.7		98.4	17	5.3	5.1	-0.2
18			98.3	18	5.2	5.1	-0.1
19	91.4		98.2	19	5.1	5.1	0.0
					5.1	5.1	0.0
22	91.8		98.0	22	5.2	5.1	-0.1
23			98.3	23	5.1	5.1	0.0
26	91.8		98.5	26	5.1	5.1	0.0
32			98.2	32	5.2	5.1	-0.1

COUNT=	12		18		27	27	27
AVG=	91.80		97.78		5.01	5.01	0.00
STD=	0.74		0.80		0.25	0.10	0.19
MAX=	93.2		98.8		5.4	5.1	0.5
MIN=	90.6		96.0		4.4	4.9	-0.3
STD N-1=	0.77		0.82		0.25	0.10	0.19

```

* *****
* DISTRICT: 14      COUNTY: BLANCO      HIGHWAY: US 281
*   TYPE: C        COURSE: SURFACE
* PROJECT: CSR-253-1-33      CONTROL: 0253-01-033
* *****
*
* GENERAL INFORMATION
*
* THICKNESS 1.5-2      ROLLERS: WEIGHT  SPEED  #PASS IN TRAIN
* UNDERLAIN LAYER: OLD SEAL COAT      (TON)  (MPH)      POSITION
* MIX DISCHARGE TEMP 315 F      3-WHEEL
* TEMP @ 1st PASS: 255 F      VIBRATORY 10      3      3      1
* TEMP @ 2nd PASS: 230 F      PNEUMATIC 18.7    3      4      2
* EXISTING PVT.: FLUSHED HEAVILY  TANDEM
* PLANT: DRUM
* PLANT CAP.,TPH: 250
* SILO CAP.,TON: 70
* NO. OF BINS: 5 (COLD)
*
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE      FREQ      NO. OF
* FORWARD BACK. (IN.)      (CPS)      VIB. DRUMS
*
* X      0.031      31      2
*
*
* HAULING & LOADING EQUIPMENT:      MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAILw/ BELLY      RICE      Gt
* TRAILER TRAILER DUMP      (227 F)      (207 F)
* X
*
* DENSITY MEASUREMENT TECHNIQUE      DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN      SAME DAY      NEXT DAY
* PATH W. PATH      PLACED      OR LATER
*
* X      X      X      X
* *****

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* *****
* DISTRICT: 14 COUNTY: BLANCO HIGHWAY: US 281 *
* TYPE: C COURSE: SURFACE *
* PROJECT: CSR-253-1-33 CONTROL: 0253-01-033 *
* *****

```

DENSITY INFORMATION
DESIGN AC #DS3

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	88.8		97.7	1	4.5	4.7	0.2
					4.3	4.7	0.4
					4.4	4.7	0.3
2	93.4		95.8	2	4.3	4.8	0.5
3	92.4		97.7	3	4.8	4.8	0.0
					4.6	4.8	0.2
4	92.7		97.2	4	3.9	4.8	0.9
					4.6	4.8	0.2
					4.5	4.8	0.3
8	91.9		98.0	8	4.4	4.8	0.4
					4.4	4.8	0.4
					4.4	4.8	0.4
9	92.0		96.6	9	4.8	4.8	0.0
					4.4	4.8	0.4
					4.5	4.8	0.3
10	93.0		97.7	10	5.0	4.8	-0.2
					4.6	4.8	0.2
					4.4	4.8	0.4
11	94.7		98.8	11	4.6	4.8	0.2
					5.1	4.8	-0.3
					5.3	4.8	-0.5
12	94.2		98.4	12	4.7	4.8	0.1
					4.9	4.8	-0.1
COUNT=	9		9		23	23	23
AVG=	92.57		97.54		4.58	4.79	0.20
STD=	1.60		0.86		0.30	0.03	0.29
MAX=	94.7		98.8		5.3	4.8	0.9
MIN=	88.8		95.8		3.9	4.7	-0.5
STD N-1=	1.70		0.91		0.30	0.03	0.30

```

*****
* DISTRICT: 14 COUNTY: LEE HIGHWAY: US 290
* TYPE: C COURSE: SURFACE
* PROJECT: CRS-114-7-51 CONTROL: 0114-07-051
*****
*
* GENERAL INFORMATION
*
* THICKNESS 1.5-2 ROLLERS: WEIGHT SPEED #PASS IN TRAIN
* UNDERLAIN LAYER: OLD ACP (TON) (MPH) POSITION
* MIX DISCHARGE TEMP 305 F 3-WHEEL
* TEMP @ 1st PASS: 281 F VIBRATORY 8-10 2 2V-2S 1
* TEMP @ 2nd PASS: 183 F PNEUMATIC 4 2
* EXISTING PVT.: SMOOTH/CRACKED/MILLED TANDEM
* PLANT: DRUM
* PLANT CAP.,TPH: 385
* SILO CAP.,TON: 175
* NO. OF BINS: 6 (COLD)
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS
*
* X 0.042 37 1
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY
* BOBTAIL SEMI- BOBTAILw/ BELLY RICE Gt
* TRAILER TRAILER DUMP (227 F) (207 F)
* X X
*
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST
* CORES NUCLEAR IN WHEEL BETWEEN SAME DAY NEXT DAY
* PATH W. PATH PLACED OR LATER
*
* X X X
*****

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*****
* DISTRICT: 14      COUNTY: LEE      HIGHWAY: US 290      *
*   TYPE: C        COURSE: SURFACE   *
* PROJECT: CRS-114-7-51      CONTROL: 0114-07-051 *
*****

```

DENSITY INFORMATION
DESIGN AC #1

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	92.4		96.9	1	4.9	4.9	0.0
					5.0	4.9	-0.1
5	93.1		97.7	5	5.1	4.9	-0.2
					5.0	4.9	-0.1
6	91.1		97.8	6	5.0	4.9	-0.1
7	92.9		97.7	7	5.1	4.9	-0.2
					5.2	4.9	-0.3
8	93.3		97.9	8	5.1	4.9	-0.2
					4.8	4.9	0.1
9	92.5		98.0	9	4.9	4.9	0.0

COUNT=	6		6		10	10	10
AVG=	92.55		97.67		5.01	4.90	-0.11
STD=	0.72		0.36		0.11	0.00	0.11
MAX=	93.3		98.0		5.2	4.9	0.1
MIN=	91.1		96.9		4.8	4.9	-0.3
STD N-1=	0.79		0.39		0.12	0.00	0.12

 * DISTRICT: 14 COUNTY: TRAVIS HIGHWAY: IH35 MAIN LANES *
 * TYPE: C COURSE: SURFACE *
 * PROJECT: CSR-15-13-201 CONTROL: 0015-13-201 *

* GENERAL INFORMATION *

* THICKNESS 1.5-2.5 UNDERSEAL/ ROLLERS: WEIGHT SPEED #PASS IN TRAIN *
 * UNDERLAIN LAYER: OLD ACP/GR5 (TON) (MPH) POSITION *
 * MIX DISCHARGE TEMP 280 F 3-WHEEL *
 * TEMP @ 1st PASS: 264 F VIBRATORY 10 2-3 1V-2S 1 *
 * TEMP @ 2nd PASS: 245 F PNEUMATIC 50 3 3 2 *
 * EXISTING PVT.: SMOOTH/CRACKED TANDEM *
 * PLANT: DRUM *
 * PLANT CAP.,TPH: 250 *
 * SILO CAP.,TON: 70 *
 * NO. OF BINS: 5 (COLD) *

* VIBRATORY ROLLER INFORMATION *

VIBRAT. FORWARD	VIBRAT. BACK.	AMPLITUDE (IN.)	FREQ (CPS)	NO. OF VIB. DRUMS
X		0.019	33	1

* HAULING & LOADING EQUIPMENT:

MAX. THEORETICAL DENSITY

BOBTAIL SEMI-TRAILER	BOBTAILw/ TRAILER	BELLY DUMP	RICE (227 F)	Gt (207 F)
		X	X	

* DENSITY MEASUREMENT TECHNIQUE

DAY OF DENSITY TEST

CORES	NUCLEAR IN WHEEL BETWEEN PATH	W. PATH	SAME DAY PLACED	NEXT DAY OR LATER
X				X

* ***** *
 * DISTRICT: 14 COUNTY: TRAVIS HIGHWAY: IH35 MAIN LANES *
 * TYPE: C COURSE: SURFACE *
 * PROJECT: CSR-15-13-201 CONTROL: 0015-13-201 *
 * ***** *

DENSITY INFORMATION
DESIGN AC #DS3

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	92.1		96.8	1	4.5	4.8	0.3
					4.3	4.8	0.5
2	94.9		97.3	2	4.5	4.8	0.3
					4.6	4.8	0.2
					4.7	4.8	0.1
3	93.0		97.1	3	4.6	4.8	0.2
					4.5	4.8	0.3
					4.8	4.8	0.0
4	92.2		97.1	4	4.4	4.8	0.4
					4.8	4.8	0.0
					5.1	4.8	-0.3
5	91.4		98.1	5	4.6	4.8	0.2
					4.4	4.8	0.4
					4.4	4.8	0.4
6	92.7		97.8	6	4.6	4.8	0.2
					4.5	4.8	0.3
8	92.8		98.0	8	5.0	4.8	-0.2
					4.4	4.8	0.4
					4.5	4.8	0.3
9	90.6		97.9	9	4.7	4.8	0.1
					4.7	4.8	0.1
10	90.8		96.8	10	4.4	4.8	0.4
					4.6	4.8	0.2
					4.6	4.8	0.2
11	92.5		98.1	11	4.9	4.8	-0.1
					4.7	4.8	0.1
12	92.5		97.6	12	4.6	4.8	0.2
					4.7	4.8	0.1
					4.7	4.8	0.1
23	91.5		97.7	23	4.7	4.8	0.1
					4.8	4.8	0.0
24	91.2		99.0	24	5.1	4.8	-0.3
					4.8	4.8	0.0
25	92.6		98.8	25	5.3	4.8	-0.5
					4.7	4.8	0.1
					4.6	4.8	0.2
26	91.5		98.0	26	4.6	4.8	0.2
					4.7	4.8	0.1

COUNT=	15	15	38	38	38
AVG=	92.15	97.74	4.66	4.80	0.14
STD=	1.03	0.63	0.21	0.00	0.21
MAX=	94.9	99.0	5.3	4.8	0.5
MIN=	90.6	96.8	4.3	4.8	-0.5
STD N-1=	1.07	0.65	0.21	0.00	0.21

```

*****
* DISTRICT: 14 COUNTY: TRAVIS HIGHWAY: IH35 FRONTAGE RD *
* TYPE: C COURSE: SURFACE *
* PROJECT: CSB-15-13-200 CONTROL: 0015-13-200 *
*****
*
* GENERAL INFORMATION *
*
* THICKNESS 1-1.5 ROLLERS: WEIGHT SPEED #PASS IN TRAIN *
* UNDERLAIN LAYER: OLD ACP (TON) (MPH) POSITION *
* MIX DISCHARGE TEMP 285 F 3-WHEEL *
* TEMP @ 1st PASS: 243 F VIBRATORY 10 2-3 1V-3S 1 *
* TEMP @ 2nd PASS: 195 F PNEUMATIC LITE 4 4 2 *
* EXISTING PVT.: SMOOTH & CRACKING TANDEM *
* PLANT: BATCH *
* PLANT CAP.,TPH: 320 *
* SILO CAP.,TON: 180 *
* NO. OF BINS: 5 (COLD)& 4 (HOT) *
*
* VIBRATORY ROLLER INFORMATION *
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF *
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS *
* X (LOW/MED) 42 1 *
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY *
* BOBTAIL SEMI- BOBTAILw/ BELLY RICE Gt *
* TRAILER TRAILER DUMP (227 F) (207 F) *
* X X *
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST *
* CORES NUCLEAR IN WHEEL BETWEEN SAME DAY NEXT DAY *
* PATH W. PATH PLACED OR LATER *
* X X X X *
*****

```

```

*****
* DISTRICT: 14      COUNTY: TRAVIS      HIGHWAY: IH35 FRONTAGE RD      *
* TYPE: C          COURSE: SURFACE      *
* PROJECT: CSB-15-13-200              CONTROL: 0015-13-200          *
*****

```

DENSITY INFORMATION
DESIGN AC #DS3

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.

1	93.1		98.2	1	4.7	4.7	0.0
					4.3	4.7	0.4
6	90.0		99.6	6	5.3	4.7	-0.6
					4.8	4.7	-0.1
7	92.6		98.1	7	4.6	4.7	0.1
9	92.5		98.3	9	4.7	4.7	0.0
					4.6	4.7	0.1
11	91.5		97.1	11	4.4	4.7	0.3
					4.4	4.7	0.3
12	92.1		97.0	12	4.3	4.7	0.4
					4.3	4.7	0.4
13	92.5		97.7	13	4.8	4.7	-0.1
14	92.2		97.5	14	4.4	4.7	0.3
					4.6	4.7	0.1
18	92.6		97.9	18	4.8	4.7	-0.1
19	92.2		97.6	19	4.6	4.7	0.1
					4.7	4.7	0.0
20	90.0		98.2	20	4.7	4.7	0.0
21	90.7		97.4	21	4.8	4.7	-0.1
26	90.6		98.2	26	4.6	4.7	0.1
27	92.5		98.1	27	4.9	4.7	-0.2
28	91.8		98.3	28	4.9	4.7	-0.2

COUNT=	15		15		22	22	22
AVG=	91.79		97.95		4.65	4.70	0.05
STD=	0.97		0.61		0.23	0.00	0.23
MAX=	93.1		99.6		5.3	4.7	0.4
MIN=	90.0		97.0		4.3	4.7	-0.6
STD N-1=	1.00		0.63		0.24	0.00	0.24

```

*****
* DISTRICT:      14 COUNTY: TRAVIS      HIGHWAY: IH 35      *
*   TYPE: A      COURSE: LEVEL UP      *
* PROJECT: IR-35-3(128)239      CONTROL: 0015-13-163      *
*****
*
* GENERAL INFORMATION
*
* THICKNESS      +2.5      ROLLERS:  WEIGHT      SPEED      #PASS IN TRAIN
* UNDERLAIN LAYER: FLEX BASE      (TON)      (MPH)      POSITION
* MIX DISCHARGE TEMP 295 F      3-WHEEL
* TEMP @ 1st PASS: 233 F      VIBRATORY      10      2      2 V & 2 S      1
* TEMP @ 2nd PASS: 180 F      PNEUMATIC      9.47      5-7      4      2
* EXISTING PVT.:      TANDEM
* PLANT:      DRUM
* PLANT CAP.,TPH: 387
* SILO CAP.,TON: 525
* NO. OF BINS: 6 (COLD)
*
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE      FREQ      NO. OF
* FORWARD BACK. (IN.)      (CPS)      VIB. DRUMS
*
* X      (MED)      (MED)      2
*
*
* HAULING & LOADING EQUIPMENT:      MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAILw/ BELLY      RICE      Gt
* TRAILER TRAILER DUMP      (227 F)      (207 F)
* X
*
* DENSITY MEASUREMENT TECHNIQUE      DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN      SAME DAY      NEXT DAY
* PATH W. PATH      PLACED      OR LATER
* X X
*
*****

```

 * DISTRICT: 14 COUNTY: TRAVIS HIGHWAY: IH 35 *
 * TYPE: A COURSE: LEVEL UP *
 * PROJECT: IR-35-3(128)239 CONTROL: 0015-13-163 *

DENSITY INFORMATION
 DESIGN AC #2

WORKING DAY	CORE DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1		97.4	1	4.2	4.4	0.2
42		98.3	42	4.7	4.4	-0.3
92		97.6	92	4.5	4.4	-0.1
93		97.5	93	4.5	4.4	-0.1
103		97.8	103	4.1	4.4	0.3
105		98.3	105	4.4	4.4	0.0
106		97.8	106	4.5	4.4	-0.1
107		98.4	107	4.4	4.4	0.0
111		96.9	111	4.3	4.4	0.1
113		97.6	113	4.3	4.4	0.1
129		98.1	129	4.6	4.4	-0.2
130		97.2	130	5.0	4.4	-0.6
136		97.0	136	4.3	4.4	0.1
142		97.1	142	3.9	4.4	0.5
143		97.1	143	3.9	4.4	0.5
144		97.0	144	4.0	4.4	0.4
149		97.9	149	4.4	4.2	-0.2
150		97.8	150	4.5	4.2	-0.3
154		97.0	154	4.7	4.2	-0.5
155		97.2	155	4.2	4.2	0.0
156		98.8	156	4.4	4.2	-0.2
157		97.1	157	4.0	4.2	0.2
175		99.2	175	4.4	4.2	-0.2
176		98.2	176	4.2	4.2	0.0
177		98.1	177	4.3	4.2	-0.1
199		97.5	199	4.7	4.2	-0.5
204		96.2	204	3.9	4.2	0.3
205		96.9	205	4.1	4.2	0.1
206		98.2	206	4.4	4.2	-0.2
211		95.6	211	3.9	4.2	0.3
212		95.8	212	4.2	4.2	0.0
216		96.5	216	4.3	4.2	-0.1
217		96.1	217	4.2	4.2	0.0
231		96.1	231	4.3	4.2	-0.1
232		95.9	232	4.1	4.2	0.1
233		95.6	233	4.0	4.2	0.2
234		96.4	234	3.9	4.2	0.3

COUNT=		37		37	37	37
AVG=		97.28		4.29	4.29	-0.00
STD=		0.89		0.26	0.10	0.26
MAX=		99.2		5.0	4.4	0.5
MIN=		95.6		3.9	4.2	-0.6
STD N-1=		0.91		0.26	0.10	0.26

```

*****
* DISTRICT:      16 COUNTY: JIM WELL      HIGHWAY: US 281
* TYPE: C        COURSE: SURFACE
* PROJECT: MA F 429(32)                   CONTROL: 255-2-34
*****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5          ROLLERS: WEIGHT   SPEED   #PASS IN TRAIN
* UNDERLAIN LAYER: RECENT ACP          (TON)   (MPH)   POSITION
* MIX DISCHARGE TEMP 300 F          3-WHEEL 12.69  0-8     3         1
* TEMP @ 1st PASS: 300 F          VIBRATORY
* TEMP @ 2nd PASS: 150 F          PNEUMATIC 19.76  0-12    4         3
* EXISTING PVT.: SMOOTH          TANDEM    10     0-6     (VAR)     2
* PLANT:          DRUM MIXER
* PILE CAP,          350
* SILO CAP.,TON:    75
* NO. OF BINS:     4(COLD)
*
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE      FREQ      NO. OF
* FORWARD BACK. (IN.)          (CPS)     VIB. DRUMS
*
*
* HAULING & LOADING EQUIPMENT:          MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W TANDEM          RICE          Gt
* TRAILER TRAILER          (227-F)       (207-F)
* X                          X
*
* DENSITY MEASUREMENT TECHNIQUE          DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN          SAME DAY      NEXT DAY
* PATH W. PATH          PLACED          OR LATER
* X              X              X
*
*****

```

 * DISTRICT: 16 COUNTY: JIM WELL HIGHWAY: US 281 *
 * TYPE: C COURSE: SURFACE *
 * PROJECT: MA F 429(32) CONTROL: 255-2-34 *

DENSITY INFORMATION
 DESIGN AC #4

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	94.2		98.0	17	5.1	4.9	-0.2
					4.9	4.9	0.0
2	93.9		98.0	18	5.0	4.9	-0.1
					4.9	4.9	0.0
					5.0	4.9	-0.1
4	94.7		98.0	20	4.9	4.9	0.0
					4.8	4.9	0.1
					4.8	4.9	0.1
6	93.2		97.9	22	4.9	4.9	0.0
					4.9	4.9	0.0
					4.8	4.9	0.1
7	94.4		97.9	23	4.8	4.9	0.1
					4.8	4.9	0.1
					4.9	4.9	0.0
8	93.5		98.0	24	4.8	4.9	0.1
					4.9	4.9	0.0
10	94.3		97.8	26	4.7	4.9	0.2
					4.9	4.9	0.0
					4.8	4.9	0.1
34	94.1		97.9	50	4.9	4.9	0.0
					4.8	4.9	0.1
					4.9	4.9	0.0
35	95.7		98	51	4.8	4.9	0.1
40	95.2		98.1	56	4.8	4.9	0.1
					4.8	4.9	0.1
41	94.0		98.2	57	4.9	4.9	0.0
					4.8	4.9	0.1
45	93.3		97.7	61	4.8	4.9	0.1
	95.6		97.7		4.8	4.9	0.1
46	92.6		97.8	62	4.7	4.9	0.2
					4.8	4.9	0.1

COUNT=	14		14		31	31	31
AVG=	94.19		97.93		4.85	4.90	0.05
STD=	0.87		0.14		0.08	0.00	0.08
MAX=	95.7		98.2		5.1	4.9	0.2
MIN=	92.6		97.7		4.7	4.9	-0.2
STD N-1=	0.90		0.14		0.09	0.00	0.09

```

* *****
* DISTRICT:      16 COUNTY: JIM WELL      HIGHWAY: US 281
* TYPE: C        COURSE: SURFACE
* PROJECT: MA F 429(32)                  CONTROL: 255-2-34
* *****

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DENSITY INFORMATION
DESIGN AC #6

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
48	93.1		97.9	64	4.7	4.9	0.2
					4.9	4.9	0.0
49	92.7		98.1	65	4.8	4.9	0.1
					4.9	4.9	0.0
					4.8	4.9	0.1
52	92.4		98.3	68	5.0	4.9	-0.1
					4.9	4.9	0.0
53	92.0		97.9	69	4.9	4.9	0.0
					4.9	4.9	0.0
54	92.5		98.1	70	4.8	4.9	0.1
					4.9	4.9	0.0
55	92.2		98.1	71	4.8	4.9	0.1
					4.8	4.9	0.1
56	92.1		98.3	72	4.9	4.9	0.0
COUNT=	7		7		14	14	14
AVG=	92.43		98.10		4.86	4.90	0.04
STD=	0.35		0.15		0.07	0.00	0.07
MAX=	93.1		98.3		5.0	4.9	0.2
MIN=	92.0		97.9		4.7	4.9	-0.1
STD N-1=	0.38		0.16		0.08	0.00	0.08

 * DISTRICT: 16 COUNTY: NUECES HIGHWAY: SH 44 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CSR102-2-68 CONTROL: 373-2-66 *
 * *****

* GENERAL INFORMATION *

* THICKNESS 1-1.5	ROLLERS:	WEIGHT	SPEED	#PASS IN TRAIN
* UNDERLAIN LAYER: OLD ACP		(TON)	(MPH)	POSITION
* MIX DISCHARGE TEMP 335 F	3-WHEEL	11.7	6	5 1
* TEMP @ 1st PASS: 230 F	VIBRATORY			
* TEMP @ 2nd PASS: 175 F	PNEUMATIC	10.5	8	5 3
* EXISTING PVT.: RUTTED	TANDEM	8.5	3-4	5 2
* PLANT: DRYER DRUM				
* PLANT CAP.,TPH: 250				
* SILO CAP.,TON: 60				
* NO. OF BINS: 4 COLD				

* VIBRATORY ROLLER INFORMATION *

VIBRAT.	VIBRAT.	AMPLITUDE	FREQ	NO. OF
FORWARD	BACK.	(IN.)	(CPS)	VIB. DRUMS

* HAULING & LOADING EQUIPMENT:

MAX. THEORETICAL DENSITY

BOBTAIL SEMI-	BOBTAIL/W	BELLY	RICE	Gt
TRAILER TRAILER	DUMP		(227 F)	(207 F)
	X		X	

* DENSITY MEASUREMENT TECHNIQUE

DAY OF DENSITY TEST

CORES	NUCLEAR	IN WHEEL BETWEEN	SAME DAY	NEXT DAY
		PATH W. PATH	PLACED	OR LATER
X		X	X	

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* *****
* DISTRICT:    16 COUNTY: NUECES          HIGHWAY: SH 44
*   TYPE: D    COURSE: SURFACE
* PROJECT: CSR102-2-68                  CONTROL: 373-2-66
* *****

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DENSITY INFORMATION
DESIGN AC #DS1

WORKING DAY	CORE DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.

1	94.8	96.5	1	4.7	4.8	0.1
				4.7	4.8	0.1
3	93.7	96.3	3	4.8	4.8	0.0
				4.7	4.8	0.1
4	93.8	96.8	4	4.7	4.8	0.1
				4.6	4.8	0.2
5	93.6	96.6	5	4.7	4.8	0.1
				4.8	4.8	0.0
6	92.3	96.6	6	4.9	4.8	-0.1
				4.7	4.8	0.1
8	91.2	96.8	8	4.9	4.8	-0.1
				5.0	4.8	-0.2
11	94.8	96.5	11	4.7	4.8	0.1
				4.7	4.8	0.1
22	95.6	97.0	22	4.7	4.8	0.1
23	92.2	97.0	23	4.7	4.8	0.1
24	94.8	97.2	24	4.9	4.8	-0.1

COUNT=	10	10		17	17	17
AVG=	93.68	96.73		4.76	4.80	0.04
STD=	1.33	0.26		0.10	0.00	0.10
MAX=	95.6	97.2		5.0	4.8	0.2
MIN=	91.2	96.3		4.6	4.8	-0.2
STD N-1=	1.40	0.28		0.11	0.00	0.11

```

*****
* DISTRICT:      16 DISTRICT:REFUGIO      HIGHWAY: FM 2678
* TYPE: D        COURSE: LEVEL-UP
* PROJECT: SR 2753(2)      CONTROL: 155-6-11
*****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5      ROLLERS: WEIGHT SPEED #PASS IN TRAIN
* UNDERLAIN LAYER: OLD ACP      (TON) (MPH) POSITION
* MIX DISCHARGE TEMP:      3-WHEEL 14 2 1
* TEMP @ 1st PASS:      VIBRATORY 10 2.5 1 2
* TEMP @ 2nd PASS:      PNEUMATIC 12.5 3 3
* EXISTING PVT.: RUTTED TANDEM
* PLANT: DRUM MIXER
* PILE CAP, 400
* SILO CAP.,TON: 90
* NO. OF BINS: 4(COLD)
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS
*
* X X (HI) 28 1
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W TANDEM RICE Gt
* TRAILER TRAILER (227-F) (207-F)
* X X X X
*
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN SAME DAY NEXT DAY
* PATH W. PATH PLACED OR LATER
* X X X X
*****

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*****
* DISTRICT:      16 DISTRICT:REFUGIO      HIGHWAY: FM 2678      *
*   TYPE: D      COURSE: LEVEL-UP        *
* PROJECT: SR 2753(2)      CONTROL: 155-6-11      *
*****

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DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1			96.6	1	5.2	5.2	0.0
2			97.2	2	5.3	5.4	0.1
7			97.0	7	5.2	5.4	0.2
8			97.1	8	5.4	5.4	0.0
9			97.3	9	5.2	5.4	0.2
10			97.4	10	5.5	5.4	-0.1

COUNT=			6		6	6	6
AVG=			97.10		5.30	5.37	0.07
STD=			0.26		0.12	0.07	0.11
MAX=			97.4		5.5	5.4	0.2
MIN=			96.6		5.2	5.2	-0.1
STD N-1=			0.28		0.13	0.08	0.12

```

*****
* DISTRICT:      16 DISTRICT:REFUGIO      HIGHWAY: US 77      *
*   TYPE: B      COURSE: BASE              *
* PROJECT: MA-F1100(10)                   CONTROL: 371-3-80   *
* *****
*
* GENERAL INFORMATION
*
* THICKNESS 2.5+ RECENT ACP/ ROLLERS: WEIGHT SPEED #PASS IN TRAIN
* UNDERLAIN LAYER: FLEX BASE (TON) (MPH) POSITION
* MIX DISCHARGE TEMP: 3-WHEEL 14 2 1
* TEMP @ 1st PASS: VIBRATORY 10 2.5 1 2
* TEMP @ 2nd PASS: PNEUMATIC 12.5 5 3
* EXISTING PVT.: TANDEM
* PLANT: DRUM MIXER
* PILE CAP, 400
* SILO CAP.,TON: 90
* NO. OF BINS: 4(COLD)
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS
*
* X X (HI) 28 1
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W PRE- RICE Gt
* TRAILER TRAILER LOADER (227-F) (207-F)
* X X X
*
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN SAME DAY NEXT DAY
* PATH W. PATH PLACED OR LATER
* X X X X
*
*****

```

 * DISTRICT: 16 DISTRICT:REFUGIO HIGHWAY: US 77 *
 * TYPE: B COURSE: BASE *
 * PROJECT: MA-F1100(10) CONTROL: 371-3-80 *

DENSITY INFORMATION
 DESIGN AC #1

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	95.0		96.9	1	4.8	4.9	0.1
					4.9	4.9	0.0
4	92.9		97.0	4	4.9	4.9	0.0
					4.8	4.9	0.1
					4.9	4.9	0.0
5	93.2		96.5	5	4.9	4.9	0.0
					4.9	4.9	0.0
					4.7	4.9	0.2
6	94.5		96.7	6	4.8	4.9	0.1
					5.0	4.9	-0.1
					4.8	4.9	0.1
7	94.8		96.5	7	4.8	4.9	0.1
					4.9	4.9	0.0
					4.7	4.9	0.2
11	95.1		96.6	11	4.9	4.9	0.0
					4.8	4.9	0.1
					4.7	4.9	0.2
					4.8	4.9	0.1
12	94.2		96.3	12	4.8	4.9	0.1
					4.8	4.9	0.1
					4.7	4.9	0.2
15	94.1		96.8	15	4.6	4.9	0.3
					4.9	4.9	0.0
16	93.3		97.1	16	4.7	4.9	0.2
					4.9	4.9	0.0
					5.0	4.9	-0.1
18	94.6		96.8	18	4.8	4.9	0.1
					5.0	4.9	-0.1
					4.7	4.9	0.2
21	93.4		96.2	21	4.6	4.8	0.2
					4.8	4.8	0.0
					4.7	4.8	0.1
22	93.9		95.9	22	4.7	4.8	0.1
					4.6	4.8	0.2
					4.6	4.8	0.2
25	96.7		96.2	25	4.7	4.8	0.1
					4.7	4.8	0.1
					4.6	4.8	0.2

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* *****
* DISTRICT:      16 DISTRICT:REFUGIO      HIGHWAY: US 77
* TYPE: B        COURSE: BASE
* PROJECT: MA-F1100(10)                  CONTROL: 371-3-80
* *****

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DENSITY INFORMATION (cont.)
DESIGN AC #1

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
27	94.2		96.1	27	4.7	4.8	0.1
					4.6	4.8	0.2
					4.8	4.8	0.0
COUNT=	14		14		41	41	41
AVG=	94.28		96.54		4.78	4.87	0.09
STD=	0.94		0.35		0.12	0.05	0.10
MAX=	96.7		97.1		5.0	4.9	0.3
MIN=	92.9		95.9		4.6	4.8	-0.1
STD N-1=	0.98		0.36		0.12	0.05	0.10

```

*****
* DISTRICT:      16 DISTRICT:REFUGIO          HIGHWAY: US 77          *
*   TYPE: B      COURSE: BASE                  *
* PROJECT: MA-F1100(10)                      CONTROL: 371-3-80      *
*****

```

DENSITY INFORMATION
DESIGN AC #3D

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.

28	93.6		96.0	28	4.7	4.8	0.1
					4.6	4.8	0.2
					4.8	4.8	0.0
29	94.1		96.2	29	4.8	4.8	0.0
33	93.0		95.8	33	4.7	4.8	0.1
					4.7	4.8	0.1
					4.8	4.8	0.0
34	93.7		96.0	34	4.7	4.8	0.1
					4.7	4.8	0.1
					4.7	4.8	0.1
35	93.2		96.0	35	4.7	4.8	0.1
					4.8	4.8	0.0
36	93.8		96.0	36	4.7	4.8	0.1
					4.6	4.8	0.2
39	94.0		96.1	39	4.7	4.8	0.1
					4.7	4.8	0.1
54	94.9		96.0	54	4.6	4.8	0.2
55	94.3		96.5	55	4.6	4.8	0.2
81	94.0		96.5	81	4.7	4.8	0.1

COUNT=	10		10		19	19	19
AVG=	93.86		96.11		4.70	4.80	0.10
STD=	0.51		0.22		0.06	0.00	0.06
MAX=	94.9		96.5		4.8	4.8	0.2
MIN=	93.0		95.8		4.6	4.8	0.0
STD N-1=	0.54		0.23		0.07	0.00	0.07

```

*****
* DISTRICT:      16 DISTRICT:REFUGIO      HIGHWAY: US 77      *
*   TYPE: D      COURSE: LEVEL-UP        *
* PROJECT: MA-F1100(10)      CONTROL: 371-3-80      *
*****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5      ROLLERS:  WEIGHT  SPEED  #PASS IN TRAIN  *
* UNDERLAIN LAYER: OLD ACP      (TON)  (MPH)  POSITION          *
* MIX DISCHARGE TEMP:      3-WHEEL  14      2      1      *
* TEMP @ 1st PASS:      VIBRATORY  10      2.5    1      2      *
* TEMP @ 2nd PASS:      PNEUMATIC 12.5    3      3      *
* EXISTING PVT.:  RUTTED      TANDEM
* PLANT:      DRUM MIXER
* PILE CAP,      400
* SILO CAP.,TON:  90
* NO. OF BINS:   4(COLD)
*
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE  FREQ  NO. OF
* FORWARD BACK.  (IN.)  (CPS)  VIB. DRUMS
*
* X
*
*
* HAULING & LOADING EQUIPMENT:      MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W TANDEM      RICE      Gt
* TRAILER TRAILER      (227-F)  (207-F)
* X X X
*
* DENSITY MEASUREMENT TECHNIQUE      DAY OF DENSITY TEST
*
* CORES  NUCLEAR IN WHEEL BETWEEN  SAME DAY  NEXT DAY
* PATH W. PATH  PLACED  OR LATER
* X X X X
*****

```

```

*****
* DISTRICT:      16 DISTRICT:REFUGIO      HIGHWAY: US 77
* TYPE: D        COURSE: LEVEL-UP
* PROJECT: MA-F1100(10)                  CONTROL: 371-3-80
*****

```

DENSITY INFORMATION
DESIGN AC #1

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1			96.8	1	5.2	5.4	0.2
2			96.5	2	5.4	5.4	0.0
3			96.9	3	5.3	5.4	0.1
6			96.5	6	5.3	5.4	0.1
7			96.8	7	5.3	5.4	0.1
8			96.5	8	5.3	5.4	0.1
9			96.4	9	5.3	5.4	0.1

COUNT=			7		7	7	7
AVG=			96.63		5.30	5.40	0.10
STD=			0.18		0.05	0.00	0.05
MAX=			96.9		5.4	5.4	0.2
MIN=			96.4		5.2	5.4	0.0
STD N-1=			0.20		0.06	0.00	0.06

```

*****
* DISTRICT:      16 DISTRICT:REFUGIO      HIGHWAY: US 77
*   TYPE: D      COURSE: SURFACE
* PROJECT: MA-F1100(10)      CONTROL: 371-3-80
*****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5      ROLLERS:  WEIGHT  SPEED  #PASS IN TRAIN
* UNDERLAIN LAYER: RECENT ACP      (TON)  (MPH)  POSITION
* MIX DISCHARGE TEMP:      3-WHEEL  14      2      1
* TEMP @ 1st PASS:      VIBRATORY  10      2.5    1      2
* TEMP @ 2nd PASS:      PNEUMATIC  12.5    3      3
* EXISTING PVT.:      TANDEM
* PLANT:      DRUM MIXER
* PILE CAP,      400
* SILO CAP.,TON:      90
* NO. OF BINS:      4(COLD)
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT.  VIBRAT.  AMPLITUDE  FREQ  NO. OF
* FORWARD  BACK.  (IN.)  (CPS)  VIB. DRUMS
*
*          X          (HI)          28          1
*
* HAULING & LOADING EQUIPMENT:      MAX. THEORETICAL DENSITY
*
* BOBTAIL  SEMI-  BOBTAIL/W  RICE  Gt
* TRAILER  TRAILER  TANDEM  (Z27-F)  (207-F)
*   X      X          X          X
*
* DENSITY MEASUREMENT TECHNIQUE      DAY OF DENSITY TEST
*
* CORES  NUCLEAR  IN WHEEL BETWEEN  SAME DAY  NEXT DAY
*          PATH  W. PATH  PLACED  OR LATER
*   X          X      X          X
*****

```

```

* ***** *
* DISTRICT:      16 DISTRICT:REFUGIO      HIGHWAY: US 77      *
*   TYPE: D      COURSE: SURFACE          *
* PROJECT: MA-F1100(10)                  CONTROL: 371-3-80  *
* ***** *

```

DENSITY INFORMATION
DESIGN AC #1A

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.

1	92.7		96.9	1	5.1	5.3	0.2
			98.1		5.7	5.5	-0.2
					5.6	5.5	-0.1
2	92.6		97.5	2	5.4	5.5	0.1
					5.3	5.5	0.2
5			97.3	5	5.6	5.5	-0.1
7	93.9		96.9	7	5.6	5.5	-0.1
					5.6	5.5	-0.1
8	92.6		97.5	8	5.5	5.5	0.0
9	93.3		97.1	9	5.5	5.5	0.0
					5.5	5.5	0.0
12	93.0		96.7	12	5.5	5.5	0.0
15	93.4		97.7	15	5.5	5.5	0.0
16	93.5		97.1	16	5.5	5.5	0.0

COUNT=	8		10		14	14	14
AVG=	93.13		97.28		5.49	5.49	-0.01
STD=	0.45		0.40		0.14	0.05	0.11
MAX=	93.9		98.1		5.7	5.5	0.2
MIN=	92.6		96.7		5.1	5.3	-0.2
STD N-1=	0.48		0.43		0.15	0.05	0.11

```

* *****
* DISTRICT:      16 COUNTY: SAN PATRICIO   HIGHWAY: US 181
* TYPE: B       COURSE: BASE
* PROJECT: MA-F 180(16)                   CONTROL: 101-4-61
* *****
*
* GENERAL INFORMATION
*
* THICKNESS >2.5          ROLLERS: WEIGHT   SPEED   #PASS IN TRAIN
* UNDERLAIN LAYER: RECENT ACP &          (TON)   (MPH)   POSITION
*                   FLEXIBLE BASE      3-WHEEL           2     1
* MIX DISCHARGE TEMP      VIBRATORY           2.5     1     2
* TEMP @ 1st PASS:        PNEUMATIC           5     3
* TEMP @ 2nd PASS:        TANDEM
* EXISTING PVT.:
* PLANT:                 DRUM MIXER
* PILE CAP,              400
* SILO CAP.,TON:        90
* NO. OF BINS:          4(COLD)
*
*                   VIBRATORY ROLLER INFORMATION
*
*                   _____
*                   VIBRAT. VIBRAT. AMPLITUDE   FREQ   NO. OF
*                   FORWARD BACK.  (IN.)      (CPS)  VIB. DRUMS
*
*                   X     X     (HI)           28     2
*
*
* HAULING & LOADING EQUIPMENT:           MAX. THEORETICAL DENSITY
*
* _____
* BOBTAIL SEMI- BOBTAIL/W TANDEM          RICE           Gt
* TRAILER TRAILER          (227-F)         (207-F)
* X     X           X           X
*
* DENSITY MEASUREMENT TECHNIQUE          DAY OF DENSITY TEST
*
* _____
* CORES   NUCLEAR IN WHEEL BETWEEN   SAME DAY   NEXT DAY
*         PATH   W. PATH   PLACED         OR LATER
* X           X     X           X

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* *****
* DISTRICT:      16 COUNTY: SAN PATRICIO   HIGHWAY: US 181
* TYPE: B        COURSE: BASE
* PROJECT: MA-F 180(16)                   CONTROL: 101-4-61
* *****

```

DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	95.4		97.2	1	4.6	4.6	0.0
2	96.0		97.5	2	4.8	4.6	-0.2
			96.0		4.6	4.6	0.0
5	95.8		97.7	5	4.6	4.6	0.0
					4.5	4.6	0.1
6	95.1		97.5	6	4.5	4.5	0.0
					4.4	4.5	0.1
7	95.2		97.7	7	4.7	4.5	-0.2
					4.7	4.5	-0.2
8	94.1		98.1	8	4.6	4.5	-0.1
					4.5	4.5	0.0
9	94.4		97.9	9	4.3	4.5	0.2
					4.6	4.5	-0.1
12	90.3		97.9	12	4.5	4.5	0.0
					4.4	4.5	0.1
13	93.7		97.5	13	4.6	4.5	-0.1
14	94.9		97.8	14	4.4	4.5	0.1
23			97.5	23	4.4	4.5	0.1
	95.0		97.7		4.5	4.5	0.0
29	96.6		96.8	29	4.8	4.5	-0.3
30	95.8		96.9	30	4.5	4.5	0.0
					4.5	4.5	0.0
34	96.0		96.7	34	4.5	4.5	0.0
35	96.5		96.9	35	4.5	4.5	0.0
43	96.0		96.4	43	4.2	4.2	0.0

COUNT=	16		18		25	25	25
AVG=	95.05		97.32		4.53	4.51	-0.02
STD=	1.46		0.56		0.14	0.07	0.11
MAX=	96.6		98.1		4.8	4.6	0.2
MIN=	90.3		96.0		4.2	4.2	-0.3
STD N-1=	1.51		0.58		0.14	0.08	0.12

```

*****
* DISTRICT: 16 COUNTY: SAN PATRICIO HIGHWAY: US 181
* TYPE: D COURSE: SURFACE
* PROJECT: MA-F 180(16) CONTROL: 101-4-61
*****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5 ROLLERS: WEIGHT SPEED #PASS IN TRAIN
* UNDERLAIN LAYER: RECENT ACP (TON) (MPH) POSITION
* MIX DISCHARGE TEMP 3-WHEEL 2 1
* TEMP @ 1st PASS: VIBRATORY 2.5 1 2
* TEMP @ 2nd PASS: PNUMATIC 3 3
* EXISTING PVT.: TANDEM
* PLANT: DRUM MIXER
* PILE CAP, 400
* SILO CAP.,TON: 90
* NO. OF BINS: 4(COLD)
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS
* X X (HI) 28 2
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY
* BOBTAIL SEMI- BOBTAIL/W TANDEM RICE Gt
* TRAILER TRAILER (227-F) (207-F)
* X X X X
*
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST
* CORES NUCLEAR IN WHEEL BETWEEN SAME DAY NEXT DAY
* PATH W. PATH PLACED OR LATER
* X X X X
*****

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```

*****
* DISTRICT:      16 COUNTY: SAN PATRICIO   HIGHWAY: US 181
* TYPE: D        COURSE: SURFACE
* PROJECT: MA-F 180(16)                   CONTROL: 101-4-61
*****

```

DENSITY INFORMATION
DESIGN AC #5D

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.

1	93.9		98.2	1	5.0	5.0	0.0
					5.0	5.0	0.0
2	94.3		97.4	2	4.9	5.0	0.1
					5.0	5.0	0.0
4	94.0		97.4	4	5.0	5.0	0.0
					5.0	5.0	0.0
5	94.0		97.4	5	5.0	5.0	0.0
6	94.2		97.4	6	5.0	5.0	0.0
8	94.3		97.4	8	5.0	5.0	0.0
11	94.0		97.4	11	5.0	5.0	0.0
12	94.3		97.4	12	5.0	5.0	0.0

COUNT=	8		8		11	11	11
AVG=	94.13		97.50		4.99	5.00	0.01
STD=	0.16		0.26		0.03	0.00	0.03
MAX=	94.3		98.2		5.0	5.0	0.1
MIN=	93.9		97.4		4.9	5.0	0.0
STD N-1=	0.17		0.28		0.03	0.00	0.03

```

* *****
* DISTRICT:      17 DISTRICT: BRAZOS          HIGHWAY: FM 2818
* TYPE: D        COURSE: SURFACE
* PROJECT: MJ 0000(1)          CONTROL: 2399-01-021
* *****
*
* GENERAL INFORMATION
*
* THICKNESS 1.5-2 OLD ACP/      ROLLERS: WEIGHT   SPEED   #PASS IN TRAIN
* UNDERLAIN LAYER: FLEX BASE          (TON)   (MPH)   POSITION
* MIX DISCHARGE TEMP: 280-310 F      3-WHEEL   20     3
* TEMP @ 1st PASS: 290 F             VIBRATORY 15     2
* TEMP @ 2nd PASS: 270 F             PNEUMATIC 5      5
* EXISTING PVT.: RUTTED, SMOOTH,     TANDEM    15     2
*                PATCHED
* PLANT: DRUM MIXER
* PLANT CAP., TPH: 200
* SILO CAP., TON:
* NO. OF BINS: 2(HOT)
*
*                VIBRATORY ROLLER INFORMATION
*
*                _____
*                VIBRAT. VIBRAT. AMPLITUDE   FREQ   NO. OF
*                FORWARD BACK.   (IN.)   (CPS)  VIB. DRUMS
*
*                X
*
* HAULING & LOADING EQUIPMENT:          MAX. THEORETICAL DENSITY
* _____
* BOBTAIL SEMI- BOBTAIL/W PRE-          RICE          Gt
* TRAILER TRAILER LOADER          (227-F)       (207-F)
* X                X                X
*
* DENSITY MEASUREMENT TECHNIQUE          DAY OF DENSITY TEST
* _____
* CORES   NUCLEAR IN WHEEL BETWEEN   SAME DAY   NEXT DAY
*                PATH   W. PATH   PLACED     OR LATER
*                X     X     X         X         X
*
* *****

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* *****
* DISTRICT:      17 DISTRICT: BRAZOS          HIGHWAY: FM 2818
*   TYPE: D      COURSE: SURFACE
* PROJECT: MJ 0000(1)          CONTROL: 2399-01-021
* *****

```

DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.

1		94.4	96.8	1	5.6	5.8	0.2
3		93.6	96.5	3	5.5	5.8	0.3
12		92.5	95.7	12	5.8	5.8	0.0
13		93.6	94.7	13	6.2	5.8	-0.4
14		92.1	95.4	14	5.6	5.8	0.2
17		93.6	95.1	17	6.0	5.8	-0.2
27		93.5	96.5	27	5.9	5.8	-0.1
28		93.6	96.7	28	5.9	5.8	-0.1
32		92.1	94.9	32	5.1	5.8	0.7
33		96.4	96.7	33	6.2	5.8	-0.4

COUNT=		10	10		10	10	10
AVG=		93.54	95.90		5.78	5.80	0.02
STD=		1.19	0.79		0.32	0.00	0.32
MAX=		96.4	96.8		6.2	5.8	0.7
MIN=		92.1	94.7		5.1	5.8	-0.4
STD N-1=		1.25	0.83		0.34	0.00	0.34

```

*****
* DISTRICT:      17 COUNTY: BRAZOS          HIGHWAY: SH 21
* TYPE: D        COURSE: SURFACE
* PROJECT: CSR116-4-72                     CONTROL: 0116-04-072
*****
*
* GENERAL INFORMATION
*
* THICKNESS 1-2 OLD ACP/          ROLLERS: WEIGHT   SPEED   #PASS IN TRAIN
* UNDERLAIN LAYER: FLEX BASE          (TON)   (MPH)   POSITION
* MIX DISCHARGE TEMP:                3-WHEEL                1
* TEMP @ 1st PASS:                   VIBRATORY                3
* TEMP @ 2nd PASS:                   PNEUMATIC                2   2
* EXISTING PVT.: RUTTED/PATCHED      TANDEM
* PLANT: DRUM
* PLANT CAP.,TPH: 325
* SILO CAP.,TON: 600
* NO. OF BINS:
*
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE      FREQ      NO. OF
* FORWARD BACK. (IN.)          (CPS)     VIB. DRUMS
*
* X
*
* HAULING & LOADING EQUIPMENT:          MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W PRE-          RICE          Gt
* TRAILER TRAILER LOADER          (227 F)       (207 F)
* X X
*
* DENSITY MEASUREMENT TECHNIQUE          DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN      SAME DAY      NEXT DAY
* PATH W. PATH          PLACED          OR LATER
* X X X
*****

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*****
* DISTRICT: 17 COUNTY: BRAZOS HIGHWAY: SH 21 *
* TYPE: D COURSE: SURFACE *
* PROJECT: CSR116-4-72 CONTROL: 0116-04-072 *
*****

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DENSITY INFORMATION
DESIGN AC #1

WORKING DAY	CORE DEN., %	NUCLEAR DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1			96.1	1	5.3	5.7	0.4
2	89.0	89.6	97.4	2	5.6	5.8	0.2
	88.8	90.6			5.8	5.8	0.0
4			97.6	4	5.7	5.8	0.1
7			97.3	7	5.8	5.8	0.0
10			98.0	10	5.3	5.8	0.5
14			97.7	14	5.4	5.8	0.4
					5.8	5.8	0.0
15		92.4	96.8	15	6.2	5.8	-0.4
		95.0			5.6	5.8	0.2
		90.7					
		91.2					
		93.4					
16			97.0	16	6.1	5.8	-0.3
17			96.4	17	5.8	5.8	0.0
18			96.6	18	5.8	5.8	0.0

COUNT=	2	7	10		13	13	13
AVG=	88.90	91.84	97.09		5.71	5.79	0.08
STD=	0.10	1.73	0.58		0.26	0.03	0.25
MAX=	89.0	95.0	98.0		6.2	5.8	0.5
MIN=	88.8	89.6	96.1		5.3	5.7	-0.4
STD N-1=	0.14	1.87	0.61		0.27	0.03	0.26

```

*****
* DISTRICT: 17 COUNTY: BURLESON HIGHWAY: SH 21 *
* TYPE: B COURSE: SURFACE & *
* PROJECT: F620(24) LEVEL UP CONTROL: 0116-03-042 *
*****
*
* GENERAL INFORMATION *
*
* THICKNESS MORE THAN 2.5 IN TRAIN *
* UNDERLAIN LAYER: RECENT ACP ROLLERS: WEIGHT SPEED #PASS POSITION *
* MIX DISCHARGE TEMP 310 F 3-WHEEL 8-10 2 2 1 *
* TEMP @ 1st PASS: 305 F VIBRATORY 10-12 2 2 3 *
* TEMP @ 2nd PASS: 260 F PNEUMATIC 8-10 2 4 2 *
* EXISTING PVT.: SMOOTH TANDEM *
* PLANT: BATCH *
* PLANT CAP.,TPH: 300 *
* SILO CAP.,TON: 600 *
* NO. OF BINS: 3(HOT) *
*
* VIBRATORY ROLLER INFORMATION *
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF *
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS *
*
*
*
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY *
* BOBTAIL SEMI- BOBTAIL/W FLOW- RICE Gt *
* TRAILER TRAILER BOY (227-F) (207-F) *
* X X X *
*
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST *
* CORES NUCLEAR IN WHEEL BETWEEN SAME DAY NEXT DAY *
* PATH W. PATH PLACED OR LATER *
* X X X X *
*****

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 * DISTRICT: 17 COUNTY: BURLESON HIGHWAY: SH 21 *
 * TYPE: B COURSE: SURFACE & *
 * PROJECT: F620(24) LEVEL UP CONTROL: 0116-03-042 *
 * *****

DENSITY INFORMATION
 DESIGN AC

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1			95.3	1	5.9	5.4	-0.5
2			96.0	2	5.7	5.4	-0.3
6			97.2	6	5.7	5.4	-0.3
7			97.2	7	5.8	5.4	-0.4
					5.7	5.4	-0.3
8			96.9	8	5.3	5.6	0.3
					5.7	5.6	-0.1
9			96.4	9	5.4	5.6	0.2
					5.3	5.6	0.3
13			96.2	13	5.3	5.6	0.3
					5.5	5.6	0.1
14			97.0	14	5.6	5.6	0.0
					5.3	5.6	0.3
15			97.2	15	5.3	5.6	0.3
					5.4	5.6	0.2
19			97.1	19	5.7	5.6	-0.1
21			96.7	21			
22			96.9	22	5.9	5.6	-0.3
26			96.8	26	5.4	5.6	0.2
					5.5	5.6	0.1
28			97.0	28	5.1	5.6	0.5
					5.5	5.6	0.1
29			97.1	29	5.4	5.6	0.2
					5.5	5.6	0.1
30			97.6	30	5.4	5.6	0.2
34			97.1	34	5.2	5.6	0.4
35			96.9	35	5.4	5.6	0.2

93.5
 92.7
 95.6
 92.0
 91.4
 90.4
 93.4
 89.5
 93.1
 94.3
 90.4
 94.1

```

* ***** *
* DISTRICT: 17 COUNTY: BURLESON HIGHWAY: SH 21 *
* TYPE: B COURSE: SURFACE & *
* PROJECT: F620(24) LEVEL UP CONTROL: 0116-03-042 *
* ***** *

```

DENSITY INFORMATION (cont.)
DESIGN AC

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
	94.9						
	93.1						
	93.3						
	93.0						
	92.8						
	92.0						
	94.1						
	95.1						
	93.7						
	94.8						
	94.8						
	93.6						
	93.9						
	94.2						
	95.0						
	92.7						
	94.1						
	95.4						
	94.0						
	91.6						
	94.5						
	94.2						
	92.6						
	91.8						
	93.9						
	92.7						
	92.2						
	93.8						
	93.0						
	94.4						
	94.6						
	94.9						
	95.5						
	92.3						
	93.2						
	93.0						
	92.9						
	89.0	87.7					
	89.9	87.7					
	91.8	90.1					

```

* *****
* DISTRICT:    17 COUNTY: BURLESON          HIGHWAY: SH 21
*   TYPE: B      COURSE: SURFACE &
* PROJECT: F620(24)    LEVEL UP          CONTROL: 0116-03-042
* *****

```

DENSITY INFORMATION (cont.)

DESIGN AC

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
	92.1	88.8					
	91.5	89.1					
	93.1						
	94.1						
COUNT=	49	12	18	18	26	26	26
AVG=	93.23	91.03	96.81		5.50	5.56	0.07
STD=	1.48	2.39	0.52		0.21	0.08	0.26
MAX=	95.5	95.6	97.6		5.9	5.6	0.5
MIN=	89	87.7	95.3		5.1	5.4	-0.5
STD N-1=	1.49	2.50	0.54		0.21	0.08	0.27


```

*****
* DISTRICT: 17 DISTRICT: BURLESON          HIGHWAY: SH 36
* TYPE: D          COURSE: SURFACE
* PROJECT: MAF 628 (10)          CONTROL: 0186-04-019
*****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5          ROLLERS: WEIGHT    SPEED    #PASS IN TRAIN
* UNDERLAIN LAYER: RECENT ACP          (TON)    (MPH)    POSITION
* MIX DISCHARGE TEMP: 300 F          3-WHEEL    12    3-5    3-4    1
* TEMP @ 1st PASS: 275 F          VIBRATORY          3-5    3-4    3
* TEMP @ 2nd PASS: 225 F          PNEUMATIC    25    3-5    4-5    2
* EXISTING PVT.: SMOOTH          TANDEM
*
* PLANT: DRUM MIXER
* PLANT CAP.,TPH: 300
* SILO CAP.,TON: 200
* NO. OF BINS: 1(HOT), 4(COLD)
*
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE    FREQ    NO. OF
* FORWARD BACK. (IN.)    (CPS)    VIB. DRUMS
*
*
* HAULING & LOADING EQUIPMENT:          MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W PRE-          RICE          Gt
* TRAILER TRAILER LOADER          (227-F)          (207-F)
* X          X          X
*
* DENSITY MEASUREMENT TECHNIQUE          DAY OF DENSITY TEST
*
* CORES    NUCLEAR IN WHEEL BETWEEN          SAME DAY          NEXT DAY
*          PATH    W. PATH          PLACED          OR LATER
* X          X          X          X
*****

```

```

*****
* DISTRICT:      17 DISTRICT: BURLESON      HIGHWAY: SH 36      *
* TYPE: D        COURSE: SURFACE           *
* PROJECT: MAF 628 (10)                   CONTROL: 0186-04-019 *
*****

```

DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1			96.1	1	5.5	5.8	0.3
2			96.9	2	5.4	5.8	0.4
					5.5	5.8	0.3
3			96.4	3	5.7	5.8	0.1
6			95.9	6	5.3	5.8	0.5
7			96.5	7	5.8	5.8	0.0
8			96.1	8	5.5	5.8	0.3
	92.3						
	92.6						
	94.8						
	93.9						
	92.4						
	92.7						
	93.2						
	93.1						
	94.6						
COUNT=	9		6		7	7	7
AVG=	93.29		96.32		5.53	5.80	0.27
STD=	0.88		0.33		0.16	0.00	0.16
MAX=	94.8		96.9		5.8	5.8	0.5
MIN=	92.3		95.9		5.3	5.8	0.0
STD N-1=	0.94		0.36		0.17	0.00	0.17

```

*****
* DISTRICT:      17 DISTRICT: BURLESON      HIGHWAY: SH 36      *
*   TYPE: B          COURSE: SURFACE        *
* PROJECT: MAF 628 (10)          CONTROL: 0186-04-019  *
*****
*
* GENERAL INFORMATION
*
* THICKNESS 2-2.5          ROLLERS:  WEIGHT  SPEED  #PASS IN TRAIN  *
* UNDERLAIN LAYER: RECENT ACP &          (TON)  (MPH)  POSITION  *
*                   FLEX BASE           3-WHEEL 12-15  3-5    3-4    1    *
* MIX DISCHARGE TEMP: 300 F          VIBRATORY          3-5    3-4    3    *
* TEMP @ 1st PASS: 275 F          PNEUMATIC    25  3-5    4-5    2    *
* TEMP @ 2nd PASS: 225 F          TANDEM
* EXISTING PVT.: SMOOTH
* PLANT: DRUM MIXER
* PLANT CAP.,TPH: 300
* SILO CAP.,TON: 200
* NO. OF BINS: 1(HOT), 4(COLD)
*
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE      FREQ      NO. OF
* FORWARD BACK. (IN.)          (CPS)     VIB. DRUMS
*
*
*
* HAULING & LOADING EQUIPMENT:          MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W PRE-          RICE          Gt
* TRAILER TRAILER LOADER          (227-F)        (207-F)
* X X
*
* DENSITY MEASUREMENT TECHNIQUE          DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN          SAME DAY          NEXT DAY
*          PATH W. PATH          PLACED          OR LATER
* X X X X          X          X
*
*****

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```

*****
* DISTRICT:      17 DISTRICT: BURLISON      HIGHWAY: SH 36      *
*   TYPE: B      COURSE: SURFACE           *
* PROJECT: MAF 628 (10)                     CONTROL: 0186-04-019 *
*****

```

DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	92.8		97.2	1	5.5	5.6	0.1
	94.3						
	95.7						
2	91.7		97.2	2	5.7	5.6	-0.1
	94.4						
3	95.3		97.4	3	5.4	5.6	0.2
4			96.8	4	5.3	5.6	0.3
7			96.4	7	5.9	5.6	-0.3
8			97.0	8	5.2	5.6	0.4
	90.8						
	95.6						
	97.9						
	97.6						
	95.5						
	98.0						
	95.9						
	96.8						
	94.8						
	97.6						
	96.1						
	96.6						
	95.6						
	96.5						

COUNT=	20		6		6	6	6
AVG=	95.48		97.00		5.50	5.60	0.10
STD=	1.90		0.33		0.24	0.00	0.24
MAX=	98.0		97.4		5.9	5.6	0.4
MIN=	90.8		96.4		5.2	5.6	-0.3
STD N-1=	1.95		0.36		0.26	0.00	0.26

```

* *****
* DISTRICT:      17 DISTRICT:GRIMES          HIGHWAY: SH 105
*   TYPE: D      COURSE: SURFACE
* PROJECT: MMC 315-4-44                      CONTROL: 0315-04-044
* *****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5          ROLLERS:  WEIGHT  SPEED  #PASS IN TRAIN
* UNDERLAIN LAYER: OLD ACP/CONC PAV          (TON)  (MPH)      POSITION
* MIX DISCHARGE TEMP 300 F          3-WHEEL
* TEMP @ 1st PASS: 275 F          VIBRATORY          3-5    3-4    1
* TEMP @ 2nd PASS: 225 F          PNEUMATIC 12-15    3-5    4-5    2
* EXISTING PVT.: ALL          TANDEM
* PLANT:
* PLANT CAP.,TPH: 350
* SILO CAP.,TON: 200
* NO. OF BINS: 1(HOT),4(COLD)
*
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE  FREQ  NO. OF
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS
*
* X 1.5 22 1
*
* HAULING & LOADING EQUIPMENT:          MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W PRE-          RICE          Gt
* TRAILER TRAILER LOADER          (227-F)          (207-F)
* X X X
*
* DENSITY MEASUREMENT TECHNIQUE          DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN OTHER  SAME DAY  NEXT DAY
* PATH W. PATH PLACED OR LATER
* X X X X X
*
* *****

```

```

*****
* DISTRICT:      17 DISTRICT:GRIMES          HIGHWAY: SH 105      *
* TYPE: D        COURSE: SURFACE            *
* PROJECT: MMC 315-4-44                     CONTROL: 0315-04-044 *
*****

```

DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1			97.7	1	5.0	5.0	0.0
2			96.8	2	5.1	5.0	-0.1
3			97.3	3	5.7	5.5	-0.2
6			97.1	6	4.3	5.0	0.7
7			96.3	7	4.5	5.0	0.5
	92.7		95.1				
	95.2						
	93.2						
	94.0						
	96.0						
	93.9						
	94.9						
	93.1						
COUNT=	8		6		5	5	5
AVG=	94.13		96.72		4.92	5.10	0.18
STD=	1.08		0.84		0.49	0.20	0.35
MAX=	96.0		97.7		5.7	5.5	0.7
MIN=	92.7		95.1		4.3	5.0	-0.2
STD N-1=	1.15		0.92		0.55	0.22	0.40

```

*****
* DISTRICT:      17 COUNTY: GRIMES, ETC.    HIGHWAY: SH 6, ETC.
*   TYPE: D      COURSE: SURFACE
* PROJECT: CD50-3-59 ETC                    CONTROL: 114-10-62
*****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5                ROLLERS:  WEIGHT  SPEED  #PASS IN TRAIN
* UNDERLAIN LAYER: OLD ACP              (TON)  (MPH)          POSITION
* MIX DISCHARGE TEMP 325 F            3-WHEEL
* TEMP @ 1st PASS: 310 F              VIBRATORY    8.5  3-5    2    1
* TEMP @ 2nd PASS: 275 F              PNEUMATIC    9   3-5    3-4  2
* EXISTING PVT.: ALL                  TANDEM
* PLANT: DRUM
* PLANT CAP.,TPH: 450
* SILO CAP.,TON: 40
* NO. OF BINS: 1(HOT) 4(COLD)
*
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE  FREQ  NO. OF
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS
*
* X 0-1.5 23 1
*
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W PRE- RICE Gt
* TRAILER TRAILER LOADER (227 F) (207 F)
* X X X X X
*
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN OTHER SAME DAY NEXT DAY
* PATH W. PATH PLACED OR LATER
*
* X X X X X X
*****

```

```

*****
* DISTRICT:      17 COUNTY: GRIMES, ETC.    HIGHWAY: SH 6, ETC.
*   TYPE: D      COURSE: SURFACE
* PROJECT: CD50-3-59 ETC                    CONTROL: 114-10-62
* *****

```

DENSITY INFORMATION
DESIGN AC #5

WORKING DAY	CORE DEN., %	NUCLEAR DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1			97.0	1	5.9	5.8	-0.1
					5.8	5.8	0.0
2			96.6	2	5.4	5.8	0.4
8			97.3	8	6.1	5.8	-0.3
15			97.9	15	6.2	5.8	-0.4
					5.5	5.8	0.3
16			97.2	16	5.5	5.8	0.3
					5.6	5.8	0.2
17			97.5	17	5.8	5.8	0.0
					5.6	5.8	0.2
18			97.3	18	5.8	5.8	0.0
					5.6	5.8	0.2

COUNT=			7		12	12	12
AVG=			97.26		5.73	5.80	0.07
STD=			0.37		0.24	0.00	0.24
MAX=			97.9		6.2	5.8	0.4
MIN=			96.6		5.4	5.8	-0.4
STD N-1=			0.40		0.25	0.00	0.25

 * DISTRICT: 17 COUNTY: GRIMES, ETC. HIGHWAY: SH 6, ETC. *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CD50-3-59 ETC CONTROL: 114-10-62 *

DENSITY INFORMATION
 DESIGN AC #7

WORKING DAY	CORE DEN., %	NUCLEAR DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
23			95.3	23	5.7	5.8	0.1
					5.6	5.8	0.2
					5.7	5.8	0.1
24			96.7	24	5.4	5.8	0.4
					5.6	5.8	0.2
25			94.9	25	5.5	5.8	0.3
					5.6	5.8	0.2
29			96.0	29	5.4	5.8	0.4
					5.4	5.8	0.4
	91.5						
	92.8						
	90.9						
	91.8						
	91.6						
	90.0						
	92.2						
	93.0						
	90.0						
	93.3						
	89.1						
	92.3						
	90.8						
	88.5						
	91.3						
	90.8						
	90.3						
COUNT=	17		4		9	9	9
AVG=	91.19		95.73		5.54	5.80	0.26
STD=	1.30		0.69		0.12	0.00	0.12
MAX=	93.3		96.7		5.7	5.8	0.4
MIN=	88.5		94.9		5.4	5.8	0.1
STD N-1=	1.34		0.79		0.12	0.00	0.12

```

*****
* DISTRICT:      17 COUNTY: WASHINGTON      HIGHWAY: US 290
* TYPE: D        COURSE: SURFACE
* PROJECT: F 236(21)          CONTROL: 0114-09-046
*****
*
* GENERAL INFORMATION
*
* THICKNESS 1-2                ROLLERS: WEIGHT SPEED #PASS IN TRAIN
* UNDERLAIN LAYER: OLD ACP          (TON) (MPH) POSITION
* MIX DISCHARGE TEMP 315 F          3-WHEEL 12 3-5 4-5 1
* TEMP @ 1st PASS: 305 F          VIBRATORY
* TEMP @ 2nd PASS: 275 F          PNEUMATIC 25 3-5 4-6 2
* EXISTING PVT.: RUTT/SMOOTH/WARP TANDEM 8 3-5 3 3
* PLANT: DRUM
* PLANT CAP.,TPH: 450
* SILO CAP.,TON: 400
* NO. OF BINS: 2(HOT) 4(COLD)
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS
*
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W PRE- RICE Gt
* TRAILER TRAILER LOADER (227 F) (207 F)
* X X X X X X
*
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN OTHER SAME DAY NEXT DAY
* PATH W. PATH PLACED OR LATER
* X X X X X X X
*****

```

 * DISTRICT: 17 COUNTY: WASHINGTON HIGHWAY: US 290 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: F 236(21) CONTROL: 0114-09-046 *

DENSITY INFORMATION
 DESIGN AC #1

WORKING DAY	CORE DEN., %	NUC DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	95.0	97.3 93.9	96.5	1	4.3	4.2	-0.1
2	95.3		95.6	2	4.3	4.2	-0.1
3	94.8 94.1		97.4	3	4.2 4.1	4.2	0.1
5			97.2	5	4.3	4.2	-0.1
9			96.7	9	4.3 4.2	4.2	-0.1
10			96.9	10	4.3	4.2	-0.1
11			96.2	11	4.1	4.2	0.1
14			97.5	14	4.2	4.2	
	93.8						
	95.9						
	96.2						
	95.3						
	94.0						
COUNT=	9	2	8		10	10	7
AVG=	94.93	95.60	96.75		4.23	4.20	-0.04
STD=	0.79	1.70	0.60		0.08	0.00	0.09
MAX=	96.2	97.3	97.5		4.3	4.2	0.1
MIN=	93.8	93.9	95.6		4.1	4.2	-0.1
STD N-1=	0.84	2.40	0.64		0.08	0.00	0.10

```

*****
* DISTRICT:      17 COUNTY: WASHINGTON      HIGHWAY: US 290
* TYPE: B        COURSE: BASE
* PROJECT: F236 (21)                          CONTROL: 0114-09-046
*****
*
* GENERAL INFORMATION
* THICKNESS      > 2
* UNDERLAIN LAYER: RECENT ACP/FLEX  ROLLERS: WEIGHT  SPEED  #PASS IN TRAIN
*                   BASE/SEAL COAT      (TON)  (MPH)  POSITION
* MIX DISCHARGE TEMP 300 F          3-WHEEL  12   3-5   3-4      1
* TEMP @ 1st PASS:  275 F          VIBRATORY
* TEMP @ 2nd PASS:  225 F          PNEUMATIC 25   3-5   4-5      2
* EXISTING PVT.:    SMOOTH          TANDEM    10   3-5   3-4      3
* PLANT:            DRUM
* PLANT CAP.,TPH:   450
* SILO CAP.,TON:    200
* NO. OF BINS:      2(HOT),4(COLD)
*
*                   VIBRATORY ROLLER INFORMATION
*
*                   _____
*                   VIBRAT. VIBRAT. AMPLITUDE  FREQ  NO. OF
*                   FORWARD BACK.  (IN.)  (CPS)  VIB. DRUMS
*
*
*
*
*
*
*
*
*
*
* HAULING & LOADING EQUIPMENT:                MAX. THEORETICAL DENSITY
*
* _____
* BOBTAIL SEMI- BOBTAIL/W FLOW-                RICE                Gt
* TRAILER TRAILER BOY                (227-F)              (207-F)
* X X X X X X X X X X X X X X X X
*
* DENSITY MEASUREMENT TECHNIQUE                DAY OF DENSITY TEST
*
* _____
* CORES  NUCLEAR IN WHEEL BETWEEN OTHER  SAME DAY  NEXT DAY
* PATH  W. PATH  PLACED  OR LATER
* X X X X X X X X
*
*****

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* *****
* DISTRICT: 17 COUNTY: WASHINGTON HIGHWAY: US 290
* TYPE: B COURSE: BASE
* PROJECT: F236 (21) CONTROL: 0114-09-046
* *****

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DENSITY INFORMATION
DESIGN AC #7

WORKING DAY	CORE DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.

1	92.0	96.0	1	3.6	3.7	0.1
	95.1			3.6	3.7	0.1
3	95.5	96.2	3	3.8	3.7	-0.1
	94.5					
7	94.7	96.1	7	3.9	3.7	-0.2
				3.5	3.7	0.2
				3.7	3.7	0.0
8	95.0	96.2	8	3.7	3.7	0.0
				3.7	3.7	0.0
				3.7	3.7	0.0
9	93.8	96.3	9	3.6	3.7	0.1
				3.5	3.7	0.2
				3.5	3.7	0.2
10	94.9	96.7	10	3.9	3.7	-0.2
				3.5	3.7	0.2
11	94.7	96.4	11	3.7	3.7	0.0
				3.7	3.7	0.0
				3.8	3.7	-0.1
14	92.9	97.0	14	3.6	3.7	0.1
	92.0			3.6	3.7	0.1
	92.0					
15	96.9	96.7	15	3.5	3.7	0.2
	94.9			3.6	3.7	0.1
	94.4			3.7	3.7	0.0
	92.6					
16	93.5	97.3	16	3.6	3.7	0.1
				3.7	3.7	0.0
17	92.8	96.7	17	3.5	3.7	0.2
				3.7	3.7	0.0
18	96.2	97.5	18	3.9	3.7	-0.2
	94.7			3.6	3.7	0.1
	94.4			3.6	3.7	0.1
22	94.1	97.2	22	3.8	3.7	-0.1
				3.7	3.7	0.0
23	95.9	97.0	23	3.5	3.7	0.2
	97.6			3.6	3.7	0.1
	95.7					

COUNT=	25	14		33	33	33
AVG=	94.43	96.66		3.65	3.70	0.05
STD=	1.46	0.46		0.12	0.00	0.12
MAX=	97.6	97.5		3.9	3.7	0.2
MIN=	92.0	96.0		3.5	3.7	-0.2
STD N-1=	1.49	0.48		0.12	0.00	0.12

```

*****
* DISTRICT:      17 COUNTY: WASHINGTON      HIGHWAY: US 290      *
* TYPE: B        COURSE: BASE              *
* PROJECT: F236 (21)                       CONTROL: 0114-09-046  *
*****

```

DENSITY INFORMATION
DESIGN AC #8

WORKING DAY	CORE DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
24	93.2	95.1	24	3.9	3.7	-0.2
	93.9			3.9	3.7	-0.2
				3.6	3.7	0.1
25		95.5	25	4.0	3.7	-0.3
				3.3	3.7	0.4
				3.8	3.7	-0.1
29	94.3	95.0	29	3.5	3.7	0.2
	94.3			4.1	3.7	-0.4
				3.3	3.7	0.4
30	92.2	95.4	30	3.4	3.7	0.3
	93.7			3.8	3.7	-0.1
	93.7			3.5	3.7	0.2
	92.6					
31	92.6	94.3	31	3.6	3.7	0.1
	92.9			3.7	3.7	0.0
	93.7			3.4	3.7	0.3
36	94.5	95.2	36	3.5	3.7	0.2
COUNT=	12	6		16	16	16
AVG=	93.47	95.08		3.64	3.70	0.06
STD=	0.72	0.39		0.24	0.00	0.24
MAX=	94.5	95.5		4.1	3.7	0.4
MIN=	92.2	94.3		3.3	3.7	-0.4
STD N-1=	0.76	0.43		0.25	0.00	0.25

```

*****
* DISTRICT:      17 COUNTY: WASHINGTON      HIGHWAY: US 290      *
* TYPE: B        COURSE: BASE              *
* PROJECT: F236 (21)                       CONTROL: 0114-09-046  *
*****

```

DENSITY INFORMATION
DESIGN AC #10

WORKING DAY	CORE DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
38	93.7	95.2	38	4.0	3.7	-0.3
				3.6	3.7	0.1
42		95.2	42	3.7	3.7	0.0
				3.6	3.7	0.1
43		95.0	43	3.6	3.7	0.1
				3.7	3.7	0.0
				3.6	3.7	0.1
44	92.4	94.5	44	3.6	3.7	0.1
				3.7	3.7	0.0
				3.4	3.7	0.3
45	94.5	94.9	45	3.7	3.7	0.0
	94.1			3.8	3.7	-0.1
	93.0			3.9	3.7	-0.2
46	94.9	95.3	46	3.8	3.8	0.0
				3.8	3.8	0.0
				3.8	3.8	0.0
51	94.7	97.6	51	4.8	3.8	-1.0

COUNT=	7	7		17	17	17
AVG=	93.90	95.39		3.77	3.72	-0.05
STD=	0.86	0.94		0.29	0.04	0.27
MAX=	94.9	97.6		4.8	3.8	0.3
MIN=	92.4	94.5		3.4	3.7	-1.0
STD N-1=	0.93	1.01		0.30	0.04	0.28

```

*****
* DISTRICT:      17 COUNTY: BRAZOS, ETC.    HIGHWAY: SH 30, ETC.
* TYPE: D        COURSE: SURFACE
* PROJECT: CD50-3-59, ETC. (D17COMB)      CONTROL: CSD-475-1-17, ETC.
*****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5          ROLLERS: WEIGHT   SPEED   #PASS IN TRAIN
* UNDERLAIN LAYER: OLD ACP/PCC          (TON)   (MPH)   POSITION
* MIX DISCHARGE TEMP 325 F          3-WHEEL
* TEMP @ 1st PASS: 275 F          VIBRATORY          3-5   2-3   1
* TEMP @ 2nd PASS: 225 F          PNEUMATIC   25   3-5   4-5   2
* EXISTING PVT.: ALL EXCEPT FLUSHED    TANDEM
* PLANT:          DRUM
* PLANT CAP.,TPH: 450
* SILO CAP.,TON:  40
* NO. OF BINS:   1(HOT) 4(COLD)
*
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE   FREQ   NO. OF
* FORWARD BACK. (IN.)        (CPS)  VIB. DRUMS
*
*           X           1.5           22           1
*
*
* HAULING & LOADING EQUIPMENT:          MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W PRE-          RICE          Gt
*          TRAILER TRAILER  LOADER      (227 F)        (207 F)
*          X          X          X          X
*
* DENSITY MEASUREMENT TECHNIQUE          DAY OF DENSITY TEST
*
* CORES.  NUCLEAR IN WHEEL BETWEEN OTHER  SAME DAY  NEXT DAY
*          PATH   W. PATH  OTHER    PLACED    OR LATER
*          X     X       X       X          X          X
*****

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* *****
* DISTRICT:    17 COUNTY: BRAZOS          HIGHWAY: SH 30/OSR
* TYPE: D      COURSE: SURFACE
* PROJECT: CD50-3-59 (D17COMB)          CONTROL: CSD-475-1-17
* *****

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DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	NUC DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	89.0		95.6	1	6.3	6.2	-0.1
3	91.8		95.3	3	6.2	6.2	0.0
9	93.4		94.1	9	4.9	5.0	0.1
10	91.0		94.6	10	4.8	5.0	0.2
14			95.6	14	6.3	5.0	-1.3
17	92.8		94.1	17	4.8	5.2	0.4
COUNT=	5		6		6	6	6
AVG=	91.60		94.88		5.55	5.43	-0.12
STD=	1.54		0.65		0.72	0.55	0.55
MAX=	93.4		95.6		6.3	6.2	0.4
MIN=	89.0		94.1		4.8	5.0	-1.3
STD N-1=	1.72		0.71		0.79	0.60	0.60

```

* *****
* DISTRICT:      17 COUNTY: BRAZOS           HIGHWAY: SH 30 & SH 21
*   TYPE: D      COURSE: SURFACE
* PROJECT: CD50-3-59      (D17COMB)        CONTROL: CSD-212-3-23
* *****

```

DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	NUC DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.

1	90.9		95.6	1	6.3	6.2	-0.1
3	92.2		95.3	3	6.2	6.2	0.0
4	91.9		94.6	4	4.9	5.0	0.1
7	88.0			7	4.5	5.0	0.5
			93.1		4.7	5.0	0.3
8	88.9		94.8	8	4.5	5.0	0.5
					4.9	5.0	0.1
15			93.3	15	4.2	5.2	1.0
16			94.0	16	4.6	5.2	0.6
17			94.1	17	4.8	5.2	0.4

COUNT=	5		8		10	10	10
AVG=	90.38		94.35		4.96	5.30	0.34
STD=	1.66		0.84		0.68	0.46	0.31
MAX=	92.2		95.6		6.3	6.2	1.0
MIN=	88.0		93.1		4.2	5.0	-0.1
STD N-1=	1.85		0.89		0.71	0.48	0.33

```

* *****
* DISTRICT:      17 COUNTY: ROBERTSON      HIGHWAY: US 79
*   TYPE: D      COURSE: SURFACE
* PROJECT: CD50-3-59      (D17COMB)      CONTROL: 0205-01-027
* *****

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DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	NUC DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	91.6		94.3	1	6.2	6.0	-0.2
2	93.1		93.8	2	5.6	6.0	0.4
16	91.1		95.0	16	6.0	6.2	0.2
	90.1						0.0
17	90.4		95.6	17	6.4	6.2	-0.2
18	88.3		93.6	18	4.9	6.2	1.3
COUNT=	6		5		5	5	6
AVG=	90.77		94.46		5.82	6.12	0.25
STD=	1.47		0.75		0.53	0.10	0.52
MAX=	93.1		95.6		6.4	6.2	1.3
MIN=	88.3		93.6		4.9	6.0	-0.2
STD N-1=	1.61		0.84		0.59	0.11	0.56

```

* *****
* DISTRICT:      17 COUNTY: MADISON      HIGHWAY: SH 21
* TYPE: D        COURSE: SURFACE
* PROJECT: CD50-3-59      (D17COMB)      CONTROL: 0117-05-026
* *****

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DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	NUC DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	94.0		96.4	1	6.1	6.0	-0.1
2	92.2		95.6	2	5.7	6.0	0.3
3	95.1		95.3	3	5.9	6.0	0.1
4	93.5		95.6	4	6.3	6.0	-0.3
5	93.4		96.0	5	6.2	6.0	-0.2

COUNT=	5		5		5	5	5
AVG=	93.64		95.78		6.04	6.00	-0.04
STD=	0.94		0.38		0.22	0.00	0.22
MAX=	95.1		96.4		6.3	6.0	0.3
MIN=	92.2		95.3		5.7	6.0	-0.3
STD N-1=	1.05		0.43		0.24	0.00	0.24

```

*****
* DISTRICT: 18 COUNTY: DALLAS HIGHWAY: IH635
* TYPE: C COURSE: LEVEL UP
* PROJECT: IR635-6(286)435 CONTROL: 2374-02-049
*****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5 ROLLERS: WEIGHT SPEED #PASS IN TRAIN
* UNDERLAIN LAYER: OLD ACP/CONCR (TON) (MPH) POSITION
* MIX DISCHARGE TEMP: 3-WHEEL
* TEMP @ 1st PASS: VIBRATORY 9.13 3 1V/2S 1
* TEMP @ 2nd PASS: PNEUMATIC 24.9 10 2
* EXISTING PVT.: SMOOTH & WARPED TANDEM
* PLANT: DRUM
* PLANT CAP.,TPH: 225
* SILO CAP.,TON: 65
* NO. OF BINS: 4 (COLD)
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS
*
* X X 2
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W PRE- RICE Gt
* TRAILER TRAILER LOADER (227 F) (207 F)
* X X
*
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN SAME DAY NEXT DAY
* PATH W. PATH PLACED OR LATER
* X X X
*****

```

 * DISTRICT: 18 COUNTY: DALLAS HIGHWAY: IH635 *
 * TYPE: C COURSE: LEVEL UP *
 * PROJECT: IR635-6(286)435 CONTROL: 2374-02-049 *

DENSITY INFORMATION
 DESIGN AC #2449-B

WORKING DAY	CORE		LAB.		EXT. AC, %	DESIGN AC, %	DES. - EXT.
	DEN., %	NUC. DEN., %	DEN., %	WORKING DAY			
1	97.0		97.8		4.7	4.5	-0.2
					4.4	4.5	0.1
8			96.9		4.3	4.5	0.2
					4.2	4.5	0.3
					4.2	4.5	0.3
15	98.0		97.3		4.3	4.5	0.2
					4.4	4.5	0.1
					4.5	4.5	0.0
17	98.0		97.3		4.5	4.5	0.0
					4.5	4.5	0.0
					4.6	4.5	-0.1
18	97.0		97.6		4.1	4.5	0.4
					4.0	4.5	0.5
					4.2	4.5	0.3
19	98.0		96.7		4.5	4.5	0.0
					4.4	4.5	0.1
22			98.5		4.8	4.5	-0.3
					4.6	4.5	-0.1
					4.5	4.5	0.0
23	98.0		97.9		4.4	4.5	0.1
					4.7	4.5	-0.2
24			98.0		4.4	4.5	0.1
					4.2	4.5	0.3
					4.3	4.5	0.2
25			97.9		4.4	4.5	0.1
					4.3	4.5	0.2
					4.5	4.5	0.0
26			97.8		4.6	4.5	-0.1
					4.5	4.5	0.0
27			98.2		4.2	4.5	0.3
					4.2	4.5	0.3
29			98.1		4.4	4.5	0.1
					4.5	4.5	0.0
					4.4	4.5	0.1
31			97.8		4.2	4.5	0.3
					4.8	4.5	-0.3
					4.2	4.5	0.3

COUNT=	6	14	37	37	37
AVG=	97.67	97.70	4.40	4.50	0.10
STD=	0.47	0.48	0.19	0.00	0.19
MAX=	98.0	98.5	4.8	4.5	0.5
MIN=	97.0	96.7	4.0	4.5	-0.3
STD N-1=	0.52	0.50	0.19	0.00	0.19

* CORE AND LAB DENSITIES WERE REPORTED IN TERMS OF Gt.

```

*****
* DISTRICT: 18      COUNTY: NAVARRO      HIGHWAY: FM1603
*   TYPE: G        COURSE: SURFACE & BASE
* PROJECT: CSR 1522-1-9      CONTROL: 1522-1-9
* *****
*
* GENERAL INFORMATION
*
* THICKNESS +2.5      ROLLERS: WEIGHT  SPEED  #PASS IN TRAIN
* UNDERLAIN LAYER: SUB GRADE      (TON)  (MPH)      POSITION
* MIX DISCHARGE TEMP 260 F      3-WHEEL
* TEMP @ 1st PASS: 210 F      VIBRATORY      12    3.25    5    2,3
* TEMP @ 2nd PASS: 200 F      PNEUMATIC      4      4
* EXISTING PVT.: OPEN JOINTS      TANDEM      3    1    1
* PLANT: DRUM
* PLANT CAP.,TPH: 250
* SILO CAP.,TON: 80
* NO. OF BINS: 4 (COLD)
*
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE      FREQ      NO. OF
* FORWARD BACK. (IN.)      (CPS)      VIB. DRUMS
*
*           X      .023      35      2
*
*
* HAULING & LOADING EQUIPMENT:      MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W PRE-      RICE      Gt
* TRAILER TRAILER LOADER      (227 F)      (207 F)
*   X
*
* DENSITY MEASUREMENT TECHNIQUE      DAY OF DENSITY TEST
*
* CORES  NUCLEAR IN WHEEL BETWEEN OTHER      SAME DAY      NEXT DAY
*        NUCLEAR IN WHEEL BETWEEN OTHER      PLACED      OR LATER
*        PATH W. PATH
*   X      X      X      X
*
*****

```

 * DISTRICT: 18 COUNTY: NAVARRO HIGHWAY: FM1603 *
 * TYPE: G COURSE: SURFACE & BASE *
 * PROJECT: CSR 1522-1-9 CONTROL: 1522-1-9 *

DENSITY INFORMATION

DESIGN AC #G3

WORKING DAY	CORE DEN., % Gc/Gt *	NUC. DEN., %	LAB. DEN., % G1/Gt *	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	98.5		95.9	1	4.6	4.6	0.0
					4.3	4.6	0.3
4	96.1		95.2	4	4.4	4.6	0.2
					4.5	4.6	0.1
5	98.8		95.7	5	5.0	4.6	-0.4
7	99.2		95.8	7	4.7	4.6	-0.1
14	97.6		96.0	14	4.7	4.6	-0.1
17	97.3		95.5	17	4.5	4.6	0.1
					4.6	4.6	0.0
21	98.1		95.6	21	4.5	4.6	0.1
					4.6	4.6	0.0
22	98.6		97.6	22	4.8	4.6	-0.2
23	97.0		95.4	23	4.6	4.6	0.0
25	98.1		95.3	25	4.7	4.6	-0.1
					4.6	4.6	0.0
26	96.5		95.8	26	4.8	4.6	-0.2
28	98.2		95.4	28	4.7	4.6	-0.1
					4.4	4.6	0.2
29	98.8		95.0	29	4.6	4.6	0.0

COUNT=	13		13		19	19	19
AVG=	97.91		95.71		4.61	4.60	-0.01
STD=	0.91		0.61		0.16	0.00	0.16
MAX=	99.2		97.6		5.0	4.6	0.3
MIN=	96.1		95.0		4.3	4.6	-0.4
STD N-1=	0.95		0.64		0.16	0.00	0.16

```

*****
* DISTRICT: 19 COUNTY: CASS HIGHWAY: US 59 *
* TYPE: D COURSE: 4 COURSES *
* PROJECT: CSR 218-3-57 CONTROL: 218-3-57 *
*****
*
* GENERAL INFORMATION
*
* THICKNESS 2-2.5+ ROLLERS: WEIGHT SPEED #PASS IN TRAIN *
* UNDERLAIN LAYER: FLEX BASE (TON) (MPH) POSITION *
* MIX DISCHARGE TEMP 315 F 3-WHEEL *
* TEMP @ 1st PASS: 300 F VIBRATORY 10.9 6.4 3 1 *
* TEMP @ 2nd PASS: 265 F PNEUMATIC 30 6 12 2 *
* EXISTING PVT.: RUTT/JOINT/CRACKS TANDEM *
* PLANT: DRUM *
* PLANT CAP.,TPH: 400 *
* SILO CAP.,TON: 100 *
* NO. OF BINS: 4 COLD *
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF *
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS *
*
* 2 *
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY *
*
* BOBTAIL SEMI- BOBTAIL/W PRE- RICE Gt *
* TRAILER TRAILER LOADER (227 F) (207 F) *
* X X *
*
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST *
*
* CORES NUCLEAR IN WHEEL BETWEEN SAME DAY NEXT DAY *
* PATH W. PATH PLACED OR LATER *
* X X X X X *
*****

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* ***** *
 * DISTRICT: 19 COUNTY: CASS HIGHWAY: US 59 *
 * TYPE: D COURSE: 4 COURSES *
 * PROJECT: CSR 218-3-57 CONTROL: 218-3-57 *
 * ***** *

DENSITY INFORMATION
DESIGN AC #1

WORKING DAY	COURSE #	LAYER THICK. IN.	CORE DEN., %	LAB. DEN., %	WORKING DAY	COURSE #	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	1	2.5	93.6	97.9	1	1	5.0	4.8	-0.2
	2	2.5	93.1	97.9		2	5.0	4.8	-0.2
	3	2.5	96.1	97.9		3	5.0	4.8	-0.2
	4	2.5	92.6	97.9		4	5.0	4.8	-0.2
2	1	2.3	93.7	98.0	2	1	4.7	4.8	0.1
	2	3.4	95.2	98.0		2	4.7	4.8	0.1
	3	3.4	96.4	98.0		3	4.7	4.8	0.1
	4	1.9	92.3	98.0		4	4.7	4.8	0.1
3	1	2.8	94.7	95.9	3	1	4.5	4.8	0.3
	2	3.1	94.6	95.9		2	4.5	4.8	0.3
	3	2.9	93.2	95.9		3	4.5	4.8	0.3
	4			95.5		4	4.5	4.8	0.3
4	1	2.8	96.1	95.5	4	1	4.4	4.8	0.4
	2	2.9	95.5	95.5		2	4.4	4.8	0.4
	3	2.9	96.6	95.5		3	4.4	4.8	0.4
	4	2.7	94.7	95.5		4	4.4	4.8	0.4
7	1	2.9	94.3	96.7	7	1	4.6	4.8	0.2
	2	2.9	93.5	96.7		2	4.6	4.8	0.2
8	1	2.8	95.5	97.3	8	1	4.8	4.8	0.0
	2	2.7	95.5	97.3		2	4.8	4.8	0.0
	3	3.0	95.8	97.3		3	4.8	4.8	0.0
	4	2.5	94.5	97.3		4	4.8	4.8	0.0
10	1	1.8	94.5	97.9	10	1	5.2	4.8	-0.4
	2	2.9	96.0	97.9		2	5.2	4.8	-0.4
	3	3.0	94.5	97.9		3	5.2	4.8	-0.4
	4	2.6	92.0	97.9		4	5.2	4.8	-0.4
11	1	2.4	94.2	97.0	11	1	4.4	4.8	0.4
	2	2.9	95.0	97.0		2	4.4	4.8	0.4
14	3	3.2	93.8	96.4	14	3	4.5	4.8	0.3
	4	2.4	92.4	96.4		4	4.5	4.8	0.3
15	1	2.6	95.0	95.8	15	1	4.6	4.8	0.2
	2	2.7	94.4	95.8		2	4.6	4.8	0.2
	3			95.8		3	4.6	4.8	0.2
16	1	1.9	94.8	96.6	16	1	4.7	4.8	0.1
	2	2.8	92.2	96.6		2	4.7	4.8	0.1
	3	2.7	94.1	96.6		3	4.7	4.8	0.1
	4	2.5	93.9	96.6		4	4.7	4.8	0.1
17	1	2.8	94.5	96.1	17	1	4.8	4.8	0.0
	2	2.8	94.3	96.1		2	4.8	4.8	0.0
18	1	2.0	92.7	97.6	18	1	4.8	4.8	0.0

```

*****
* DISTRICT:      19 COUNTY: CASS           HIGHWAY: US 59      *
*   TYPE: D      COURSE: 4 COURSES       *
* PROJECT: CSR 218-3-57           CONTROL: 218-3-57   *
*****

```

DENSITY INFORMATION (cont.)
DESIGN AC #1

WORKING DAY	COURSE #	LAYER THICK. IN.	CORE DEN., %	LAB. DEN., %	WORKING DAY	COURSE #	EXT. AC, %	DESIGN AC, %	DES. - EXT.
21	1			96.6	21	1	4.7	4.8	0.1
	3			96.6		3	4.7	4.8	0.1
	4			96.6		4	4.7	4.8	0.1
22	1	2.6	94.3	96.0	22	1	4.6	4.8	0.2

COUNT=		39	39	44	15		44	44	44
AVG=		2.68	94.36	96.80			4.71	4.80	0.09
STD=		0.36	1.19	0.87			0.23	0.00	0.23
MAX=		3.4	96.6	98.0			5.2	4.8	0.4
MIN=		1.8	92.0	95.5			4.4	4.8	-0.4
STD N-1=		0.37	1.21	0.88			0.23	0.00	0.23

```

*****
* DISTRICT: 19 COUNTY: MARION HIGHWAY: US 59
* TYPE: C COURSE: THREE COURSES
* PROJECT: C62-6-36 CONTROL: 62-6-36
*****
*
* GENERAL INFORMATION
*
* THICKNESS: +2.5 ROLLERS: WEIGHT SPEED #PASS IN TRAIN
* UNDERLAIN LAYER: LFA SUBGRADE (TON) (MPH) POSITION
* MIX DISCHARGE TEMP 290 F 3-WHEEL
* TEMP @ 1st PASS: 270 F VIBRATORY 10 6.7 2+2 S 1
* TEMP @ 2nd PASS: 240 F PNEUMATIC 30 6 5 2
* EXISTING PVT.: NEW TANDEM
* PLANT: DRUM
* PLANT CAP.,TPH: 250
* SILO CAP.,TON: 100
* NO. OF BINS: 4 COLD
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS
* X X 0.023 36.66 1
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY
* BOBTAIL SEMI- BOBTAIL/W PRE- RICE Gt
* TRAILER TRAILER LOADER (227 F) (207 F)
* X X
*
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST
* CORES NUCLEAR IN WHEEL BETWEEN SAME DAY NEXT DAY
* PATH W. PATH PLACED OR LATER
* X X X X
*****

```

 * DISTRICT: 19 COUNTY: MARION HIGHWAY: US 59 *
 * TYPE: C COURSE: THREE COURSES *
 * PROJECT: C62-6-36 CONTROL: 62-6-36 *
 * *****

DENSITY INFORMATION
 DESIGN AC #2

WORKING DAY	CORE DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	93.5	97.2	1	5.1	5.7	0.6
				5.5	5.7	0.2
2		97.9	2	5.3	5.7	0.4
				5.6	5.7	0.1
3	96.9	97.7	3	5.5	5.7	0.2
				6.1	5.7	-0.4
4	97.5	96.9	4	5.8	5.7	-0.1
				5.7	5.7	0.0
7	95.8	97.6	7	6.1	5.7	-0.4
				5.8	5.7	-0.1
8	95.4	97.6	8	5.9	5.7	-0.2
9	95.9	97.0	9	5.2	5.7	0.5
				5.3	5.7	0.4

COUNT=	6	7		13	13	13
AVG=	95.83	97.41		5.61	5.70	0.09
STD=	1.26	0.35		0.31	0.00	0.31
MAX=	97.5	97.9		6.1	5.7	0.6
MIN=	93.5	96.9		5.1	5.7	-0.4
STD N-1=	1.38	0.38		0.33	0.00	0.33

```

*****
* DISTRICT:      19 DISTRICT: PANOLA          HIGHWAY: US 59
* TYPE: C        COURSE: BASE
* PROJECT: MA-FR458(7)                       CONTROL: 63-4-29
*****
*
* GENERAL INFORMATION
*
* THICKNESS >2                                ROLLERS: WEIGHT    SPEED    #PASS IN TRAIN
* UNDERLAIN LAYER: LIME & FLY ASH           (TON)    (MPH)    POSITION
* TREATED                                     3-WHEEL
* MIX DISCHARGE TEMP 275 F                   VIBRATORY 12.75    3    2V/1S    1
* TEMP @ 1st PASS:   225 F                   PNEUMATIC  7.8      6    3        2
* TEMP @ 2nd PASS:   200 F                   VIBRATORY
* EXISTING PVT.:    NEW ROAD
* PLANT:            DRUM MIXER
* PILE CAP,         250
* SILO CAP., TON:   75
* NO. OF BINS:      4(COLD)
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE    FREQ    NO. OF
* FORWARD BACK.    (IN.)    (CPS)    VIB. DRUMS
* X        X                30      2
*
*
* HAULING & LOADING EQUIPMENT:                MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W FLOW-
* TRAILER TRAILER BOY
* X
*
* DENSITY MEASUREMENT TECHNIQUE                DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN OTHER SAME DAY NEXT DAY
* PATH W. PATH PLACED OR LATER
* X X X X X
*****

```

* ***** *
 * DISTRICT: 19 DISTRICT: PANOLA HIGHWAY: US 59 *
 * TYPE: C COURSE: BASE *
 * PROJECT: MA-FR458(7) CONTROL: 63-4-29 *
 * ***** *

DENSITY INFORMATION
 DESIGN AC #2C

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	92.6		98.3	1	5.1	4.6	-0.5
					4.2	4.6	0.4
2	92.6		96.2	2	4.1	4.6	0.5
3	92.8		96.1	3	4.3	4.6	0.3
					4.7	4.6	-0.1
5	93.9		97.7	5	4.7	4.6	-0.1
					4.7	4.6	-0.1
9	93.1		97.0	9	4.5	4.6	0.1
10	94.6		97.9	10	4.9	4.6	-0.3
					5.2	4.6	-0.6
11	96.0		97.0	11	4.4	4.6	0.2
					4.5	4.6	0.1
12	95.0		97.9	12	4.8	4.6	-0.2
					4.6	4.6	0.0
15	95.8		96.9	15	4.4	4.6	0.2
16	93.9		97.7	16	4.7	4.6	-0.1
17	94.2		98.2	17	5.0	4.6	-0.4
					5.0	4.6	-0.4
					4.6	4.6	0.0
18	92.2		96.9	18	4.4	4.6	0.2
					4.5	4.6	0.1
19	93.6		97.1	19	4.6	4.6	0.0
22	93.6		96.6	22	4.2	4.6	0.4
30	93.2		98.2	30	5.0	4.6	-0.4
					4.6	4.6	0.0
31	94.8		97.8	31	5.3	4.6	-0.7
					4.8	4.6	-0.2
32	93.2		97.2	32	4.5	4.6	0.1
					5.2	4.6	-0.6
					4.2	4.6	0.4
33	93.0		97.2	33	4.7	4.6	-0.1
37	93.7		97.3	37	4.5	4.6	0.1
					4.5	4.6	0.1
38	93.7		98.3	38	5.0	4.6	-0.4
					4.5	4.6	0.1
39	92.1		96.5	39	4.2	4.6	0.4
					4.9	4.6	-0.3
40	92.9		98.4	40	5.2	4.6	-0.6
					5.0	4.6	-0.4
43	94.5		97.0	43	4.4	4.6	0.2
					4.9	4.6	-0.3

```

* *****
* DISTRICT:      19 DISTRICT: PANOLA          HIGHWAY: US 59
*   TYPE: C      COURSE: BASE
* PROJECT: MA-FR458(7)          CONTROL: 63-4-29
* *****

```

DENSITY INFORMATION (cont.)

DESIGN AC #2C

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
44	93.3		98.2	44	5.0	4.6	-0.4
					4.8	4.6	-0.2
					4.7	4.6	-0.1
46	91.5		98.5	46	5.1	4.6	-0.5
50	93.8		97.9	50	4.9	4.6	-0.3
					4.4	4.6	0.2
51	92.2		98.4	51	5.1	4.6	-0.5
					5.2	4.6	-0.6
					4.9	4.6	-0.3
52	92.6		97.8	52	4.8	4.6	-0.2
					4.6	4.6	0.0
53	93.4		95.7	53	4.2	4.6	0.4
					4.5	4.6	0.1
54	93.0		97.5	54	5.2	4.6	-0.6
					4.7	4.6	-0.1
				57	4.6	4.6	0.0

COUNT=	30		30		57	57	57
AVG=	93.49		97.45		4.71	4.60	-0.11
STD=	1.04		0.74		0.31	0.00	0.31
MAX=	96.0		98.5		5.3	4.6	0.5
MIN=	91.5		95.7		4.1	4.6	-0.7
STD N-1=	1.05		0.76		0.31	0.00	0.31

```

*****
* DISTRICT: 20 COUNTY: TYLER HIGHWAY: US 69 *
* TYPE: G COURSE: SURFACE *
* PROJECT: CSR 200-7-38 CONTROL: 200-7-38 *
*****
*
* GENERAL INFORMATION *
*
* THICKNESS 1.25 ROLLERS: WEIGHT SPEED #PASS IN TRAIN *
* UNDERLAIN LAYER: ALL (TON) (MPH) POSITION *
* MIX DISCHARGE TEMP 300 F 3-WHEEL *
* TEMP @ 1st PASS: 265 F VIBRATORY 4 1 *
* TEMP @ 2nd PASS: 245 F PNEUMATIC 2 2 *
* EXISTING PVT.: RUTT/WARPED/FLUSH TANDEM *
* PLANT: DRUM *
* PLANT CAP.,TPH: *
* SILO CAP.,TON: *
* NO. OF BINS: 1(HOT),4(COLD) *
*
* VIBRATORY ROLLER INFORMATION *
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF *
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS *
*
* X 1.5 40 2 *
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY *
*
* BOBTAIL SEMI- BOBTAIL/W PRE- RICE Gt *
* TRAILER TRAILER LOADER (227 F) (207 F) *
* X X X *
*
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST *
*
* CORES NUCLEAR IN WHEEL BETWEEN SAME DAY NEXT DAY *
* PATH W. PATH PLACED OR LATER *
*
* X X X X *
*****

```

* *****
 * DISTRICT: 20 COUNTY: TYLER HIGHWAY: US 69 *
 * TYPE: G COURSE: SURFACE *
 * PROJECT: CSR 200-7-38 CONTROL: 200-7-38 *
 * *****

* DENSITY INFORMATION
 DESIGN AC #1

WORKING DAY	CORE DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1		98.5	1	4.8	4.7	-0.1
2		96.9	2	4.5	4.7	0.2
				4.5	4.7	0.2
3		97.8	3	4.9	4.7	-0.2
				4.6	4.7	0.1
4		97.3	4	4.6	4.7	0.1
				4.7	4.7	0.0
7		98.0	7	4.6	4.7	0.1
8		98.5	8	4.8	4.7	-0.1
				4.6	4.7	0.1
9		97.9	9	4.5	4.7	0.2
10		97.3	10	4.7	4.7	0.0
				4.7	4.7	0.0
11		97.7	11	4.7	4.7	0.0
				4.3	4.7	0.4
14		98.0	14	4.5	4.7	0.2
				4.9	4.7	-0.2
15		97.4	15	4.8	4.7	-0.1
				4.7	4.7	0.0
16		97.7	16	4.5	4.6	0.1
				4.8	4.6	-0.2
17		97.7	17	4.6	4.6	0.0
				4.5	4.6	0.1
18		98.2	18	4.7	4.6	-0.1
				4.5	4.6	0.1
				4.3	4.6	0.3
21		97.3	21	4.4	4.6	0.2
				4.5	4.6	0.1
				4.5	4.6	0.1
22		97.8	22	4.6	4.6	0.0
				4.6	4.6	0.0
				4.5	4.6	0.1
23		97.7	23	4.5	4.6	0.1
				4.4	4.6	0.2
				4.6	4.6	0.0
24		98.0	24	4.8	4.6	-0.2
25		97.4	25	4.5	4.6	0.1

COUNT=	19	37	37	37
AVG=	97.74	4.60	4.65	0.05
STD=	0.41	0.15	0.05	0.14
MAX=	98.5	4.9	4.7	0.4
MIN=	96.9	4.3	4.6	-0.2
STD N-1=	0.42	0.15	0.05	0.14

* NO CORE DENSITY

```

*****
* DISTRICT:      21 DISTRICT:CAMERON          HIGHWAY: FM 1419
*   TYPE: D      COURSE: SURFACE
* PROJECT: MCO039-07-151                     CONTROL: 33-7-151
* *****
*
* GENERAL INFORMATION
*
* THICKNESS 1.5-2
* UNDERLAIN LAYER: CONC PAVEMENT
* MIX DISCHARGE TEMP 300 F
* TEMP @ 1st PASS: 235-280 F
* TEMP @ 2nd PASS: 175-185 F
* EXISTING PVT.: WARP/PATCH/JOINTS
* PLANT:        DRUM MIXER
* PILE CAP,     240
* SILO CAP.,TON: 100
* NO. OF BINS:  4(COLD)
*
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE      FREQ      NO. OF
* FORWARD BACK. (IN.)           (CPS)     VIB. DRUMS
*
*
* HAULING & LOADING EQUIPMENT:
*
* BOBTAIL SEMI- BOBTAIL/W FLOW-
* TRAILER TRAILER BOY
* X
*
* DENSITY MEASUREMENT TECHNIQUE
*
* CORES NUCLEAR IN WHEEL BETWEEN
* PATH W. PATH
* X X
*
*****

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```

* *****
* DISTRICT:      21 DISTRICT:CAMERON      HIGHWAY: FM 1419
* TYPE: D        COURSE: SURFACE
* PROJECT: MCO039-07-151                  CONTROL: 33-7-151
* *****

```

DENSITY INFORMATION
DESIGN AC #1D

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	91.8		97.0	1	5.1	5.2	0.1
					5.1	5.2	0.1
2	91.2		96.5	2	5.2	5.2	0.0
					5.2	5.2	0.0
3	91.9		98.5	3	5.2	5.2	0.0
					5.2	5.2	0.0
5	93.6		97.3	5	5.1	5.2	0.1
					5.2	5.2	0.0
6	92.8		96.5	6	5.1	5.2	0.1
					5.1	5.2	0.1
7	92.4		97.2	7	5.1	5.2	0.1
					5.2	5.2	0.0
8	92.4		96.5	8	5.1	4.2	-0.9
					5.1	4.2	-0.9
COUNT=	7		7		14	14	14
AVG=	92.30		97.07		5.14	5.06	-0.09
STD=	0.72		0.66		0.05	0.35	0.34
MAX=	93.6		98.5		5.2	5.2	0.1
MIN=	91.2		96.5		5.1	4.2	-0.9
STD N-1=	0.77		0.72		0.05	0.36	0.35

```

*****
* DISTRICT: 21 DISTRICT:HIDALGO HIGHWAY: US 83 *
* TYPE: D COURSE: SURFACE *
* PROJECT: CSR 39-17-101 CONTROL: 39-17-101 *
*****
*
* GENERAL INFORMATION *
*
* THICKNESS 1.5 ROLLERS: WEIGHT SPEED #PASS IN TRAIN *
* UNDERLAIN LAYER: OLD ACP&FLEX BAS (TON) (MPH) POSITION *
* MIX DISCHARGE TEMP 300 F 3-WHEEL 12 3 4 1 *
* TEMP @ 1st PASS: 270 F VIBRATORY *
* TEMP @ 2nd PASS: 185 F PNEUMATIC 25 5 8 3 *
* EXISTING PVT.: PATCHED TANDEM 10 3 4 2 *
* PLANT: DRUM MIXER *
* PLANT CAP.,TPH: 200 *
* SILO CAP.,TON: 35 *
* NO. OF BINS: 4(COLD) *
*
* VIBRATORY ROLLER INFORMATION *
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF *
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS *
*
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY *
*
* BOBTAIL SEMI- BOBTAIL/W FLOW- RICE Gt *
* TRAILER TRAILER BOY (227-F) (207-F) *
* X X X X *
*
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST *
*
* CORES NUCLEAR IN WHEEL BETWEEN SAME DAY NEXT DAY *
* PATH W. PATH PLACED OR LATER *
* X X X X X X *
*****

```

```

* *****
* DISTRICT:      21 DISTRICT:HIDALGO          HIGHWAY: US 83
*   TYPE: D      COURSE: SURFACE
* PROJECT: CSR 39-17-101                     CONTROL: 39-17-101
* *****

```

DENSITY INFORMATION

DESIGN AC #1D

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1	92.6		97.3	1	3.9	4.0	0.1
					4.0	4.0	0.0
2	93.2		96.3	2	4.1	4.0	-0.1
					3.9	4.0	0.1
3	93.2		97.8	3	3.9	4.0	0.1
					3.9	4.0	0.1
4	93.5	92.3	97.3	4	4.0	4.0	0.0
					3.9	4.0	0.1
14	93.1		97.4	14	4.0	4.0	0.0
					3.9	4.0	0.1
15	94.2		97.1	15	4.0	4.0	0.0
	92.7				3.9	4.0	0.1
16	92.1		97.3	16	3.9	4.0	0.1

COUNT=	8		7		13	13	13
AVG=	93.08		97.21		3.95	4.00	0.05
STD=	0.59		0.42		0.06	0.00	0.06
MAX=	94.2		97.8		4.1	4.0	0.1
MIN=	92.1		96.3		3.9	4.0	-0.1
STD N-1=	0.63		0.46		0.07	0.00	0.07

```

*****
* DISTRICT:      21 DISTRICT:STARR          HIGHWAY: FM 755
*   TYPE: D      COURSE: SURFACE
* PROJECT: SR1270(3)          CONTROL: 1103-04-17
*****
*
* GENERAL INFORMATION
*
* THICKNESS      1.5          ROLLERS:  WEIGHT   SPEED   #PASS IN TRAIN
* UNDERLAIN LAYER: FLEXIBLE BASE          (TON)   (MPH)   POSITION
* MIX DISCHARGE TEMP 280 F          3-WHEEL   12     3     5     1
* TEMP @ 1st PASS:  270 F          VIBRATORY
* TEMP @ 2nd PASS:  200 F          PNUMATIC   25     3     3     3
* EXISTING PVT.:    SMOOTH          TANDEM     12     3     3     2
* PLANT:           DRUM MIXER
* PLANT CAP.,TPH:   300
* SILO CAP.,TON:    75
* NO. OF BINS:     4(COLD)
*
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE   FREQ   NO. OF
* FORWARD BACK. (IN.)        (CPS)  VIB. DRUMS
*
*
* HAULING & LOADING EQUIPMENT:          MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W FLOW-          RICE          Gt
* TRAILER TRAILER BOY          (227-F)        (207-F)
* X X X X X X X X X X X X X X X X X X
*
* DENSITY MEASUREMENT TECHNIQUE          DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN          SAME DAY          NEXT DAY
* PATH W. PATH          PLACED          OR LATER
* X X X X X X X X X X X X X X X X X X
*****

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*****
* DISTRICT:      21 DISTRICT:STARR          HIGHWAY: FM 755      *
*   TYPE: D      COURSE: SURFACE           *
* PROJECT: SR1270(3)          CONTROL: 1103-04-17      *
*****

```

DENSITY INFORMATION
DESIGN AC #1D

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.

1			97.9		5.2	5.2	0.0
					5.1	5.2	0.1
2			98.9		5.1	5.2	0.1
					5.0	5.2	0.2
4			97.8		5.1	5.2	0.1
					5.0	5.2	0.2
5			97.8		5.1	5.2	0.1
					5.0	5.2	0.2
6			98.0		5.1	5.2	0.1
					5.0	5.2	0.2
7			98.0		5.0	5.2	0.2
					5.1	5.2	0.1
82	92.2		97.1		4.4	4.2	-0.2
					4.2	4.2	0.0
83	94.6		97.1		4.1	4.2	0.1
					4.1	4.2	0.1
84	92.5		98.2		4.1	4.2	0.1
					4.1	4.2	0.1
85	94.0		97.7		4.1	4.2	0.1
					4.2	4.2	0.0

COUNT=	4		10		20	20	20
AVG=	93.33		97.85		4.71	4.80	0.10
STD=	1.00		0.49		0.45	0.49	0.09
MAX=	94.6		98.9		5.2	5.2	0.2
MIN=	92.2		97.1		4.1	4.2	-0.2
STD N-1=	1.16		0.52		0.46	0.50	0.09

```

*****
* DISTRICT:      23 DISTRICT:BROWN      HIGHWAY: FM 45
*   TYPE: D      COURSE: SURFACE
* PROJECT: MC 480-6-9      CONTROL: 480-6-9
* *****
*
* GENERAL INFORMATION
*
* THICKNESS 1-2      ROLLERS: WEIGHT SPEED #PASS IN TRAIN
* UNDERLAIN LAYER: OLD ACP&CONC PAV      (TON) (MPH) POSITION
* MIX DISCHARGE TEMP 325 F      3-WHEEL 12 4 1
* TEMP @ 1st PASS: 290 F      VIBRATORY
* TEMP @ 2nd PASS: 170 F      PNEUMATIC 25 6 2
* EXISTING PVT.: PATCHED& VIBRATORY 12 6 3
* FRESH FABRIC+SEAL
* PLANT: DRUM MIXER
* PILE CAP, 400
* SILO CAP.,TON: 120
* NO. OF BINS: 1(HOT),4(COLD)
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS
*
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W FLOW- RICE Gt
* TRAILER TRAILER BOY (227-F) (207-F)
* X X
*
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN SAME DAY NEXT DAY
* PATH W. PATH PLACED OR LATER
* X X X
*
*****

```

```

* *****
* DISTRICT:      23 DISTRICT: BROWN          HIGHWAY: FM 45
* TYPE: D        COURSE: SURFACE
* PROJECT: MC 480-6-9                       CONTROL: 480-6-9
* *****

```

DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1			97.8	1	4.1	4.0	-0.1
			97.4		4.0	4.0	0.0
2	95.7		97.6	2	4.1	4.0	-0.1
3			97.4	3	3.9	3.9	0.0
					4.0	3.9	-0.1
4			97.0	4	3.8	3.9	0.1
8				8			
COUNT=	1		5		6	6	6
AVG=	95.70		97.44		3.98	3.95	-0.03
STD=	0.00		0.27		0.11	0.05	0.07
MAX=	95.7		97.8		4.1	4.0	0.1
MIN=	95.7		97.0		3.8	3.9	-0.1
STD N-1=	0.00		0.30		0.12	0.05	0.08

```

* *****
* DISTRICT:      23 DISTRICT:BROWN      HIGHWAY: US 67
* TYPE: D      COURSE: SURFACE
* PROJECT: CSB-45-5-2      CONTROL: 54-6-57
* *****
*
* GENERAL INFORMATION
*
* THICKNESS 1-2      ROLLERS: WEIGHT SPEED #PASS IN TRAIN
* UNDERLAIN LAYER: OLD ACP/PCC      (TON) (MPH) POSITION
* MIX DISCHARGE TEMP 325 F      3-WHEEL
* TEMP @ 1st PASS: 290 F      VIBRATORY 16 4 1
* TEMP @ 2nd PASS: 170      PNEUMATIC 25 8 2
* EXISTING PVT.: PATCH/FRESH FABRIC VIBRATORY 10 6 3
* & SEAL
* PLANT: DRUM MIXER
* PILE CAP, 400
* SILO CAP.,TON: 120
* NO. OF BINS: 1(HOT),4(COLD)
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE FREQ NO. OF
* FORWARD BACK. (IN.) (CPS) VIB. DRUMS
*
*
* HAULING & LOADING EQUIPMENT: MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W FLOW- RICE Gt
* TRAILER TRAILER BOY (227-F) (207-F)
* X X
*
* DENSITY MEASUREMENT TECHNIQUE DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN SAME DAY NEXT DAY
* PATH W. PATH PLACED OR LATER
* X X X X
*
* *****

```

```

* ***** *
* DISTRICT:      23 DISTRICT:BROWN      HIGHWAY: US 67      *
*   TYPE: D      COURSE: SURFACE        *
* PROJECT: CSB-45-5-2      CONTROL: 54-6-57      *
* ***** *

```

DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1			97.4	1	4.0	3.9	-0.1
2			97.0	2	3.8	3.9	0.1
					3.8	3.9	0.1
5			97.3	5	4.0	3.9	-0.1
					3.8	3.9	0.1
6			97.4	6	3.9	3.9	0.0
7			97.6	7	4.0	3.9	-0.1
COUNT=			5		7	7	7
AVG=			97.34		3.90	3.90	0.00
STD=			0.20		0.09	0.00	0.09
MAX=			97.6		4.0	3.9	0.1
MIN=			97.0		3.8	3.9	-0.1
STD N-1=			0.22		0.10	0.00	0.10

```

*****
* DISTRICT:      23 DISTRICT:EASTLAND      HIGHWAY: IH 20
* TYPE: D        COURSE: SURFACE
* PROJECT: IR20-3(39)324                   CONTROL: 7-3-49ETC
*****
*
* GENERAL INFORMATION
*
* THICKNESS < 1.5          ROLLERS:  WEIGHT   SPEED   #PASS IN TRAIN
* UNDERLAIN LAYER: OLD ACP          (TON)   (MPH)   POSITION
* MIX DISCHARGE TEMP 325 F          3-WHEEL 5-10    4      1
* TEMP @ 1st PASS: 310 F          VIBRATORY
* TEMP @ 2nd PASS: 200 F          PNEUMATIC      5      6      2
* EXISTING PVT.: PLANED          VIBRATORY      5      2      3
* PLANT: BATCH
* PILE CAP, 250
* SILO CAP.,TON:
* NO. OF BINS: 3(HOT)
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE      FREQ      NO. OF
* FORWARD BACK. (IN.)          (CPS)     VIB. DRUMS
*
*
* HAULING & LOADING EQUIPMENT:      MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W FLOW-      RICE      Gt
* TRAILER TRAILER BOY          (227-F)    (207-F)
* X X X X X X
*
* DENSITY MEASUREMENT TECHNIQUE      DAY OF DENSITY TEST
*
* CORES NUCLEAR IN WHEEL BETWEEN      SAME DAY      NEXT DAY
* PATH W. PATH          PLACED          OR LATER
* X X X X X
*****

```

```

*****
* DISTRICT:      23 DISTRICT:EASTLAND      HIGHWAY: IH 20      *
*   TYPE: D      COURSE: SURFACE          *
* PROJECT: IR20-3(39)324                  CONTROL: 7-3-49ETC  *
*****

```

DENSITY INFORMATION
DESIGN AC #1

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1			95.8	1	4.0	4.1	0.1
2			96.7	2	4.1	4.1	0.0
3				3	4.1	4.1	0.0
4				4	4.0	4.1	0.1
5			98.8	5	4.0	4.1	0.1
8			99.0	8	4.3	4.1	-0.2
9			98.5	9	4.3	4.1	-0.2
10			98.6	10	4.2	4.1	-0.1
11			98.7	11	4.1	4.1	0.0
12			98.2	12	4.0	4.1	0.1
15			97.6	15	4.1	4.1	0.0
17			97.9	17	4.0	4.0	0.0
18			98.1	18	4.0	4.0	0.0
19			97.4	19	4.0	4.0	0.0
22			98.3	22	4.0	4.0	0.0
23			97.6	23	3.8	4.0	0.2
24			98.0	24	4.0	4.0	0.0
25			98.1	25	4.0	4.0	0.0

COUNT=			16		18	18	18
AVG=			97.96		4.06	4.06	0.01
STD=			0.79		0.12	0.05	0.10
MAX=			99.0		4.3	4.1	0.2
MIN=			95.8		3.8	4.0	-0.2
STD N-1=			0.82		0.12	0.05	0.10

```

*****
* DISTRICT:      23 DISTRICT:EASTLAND      HIGHWAY: IH 20      *
* TYPE: D        COURSE: SURFACE          *
* PROJECT: IR20-3(39)324                  CONTROL: 7-3-49ETC  *
*****

```

DENSITY INFORMATION
DESIGN AC #4

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
36			98.7	36	4.1	4.0	-0.1
37			96.0	37	4.0	4.0	0.0
38			96.1	38	4.3	4.0	-0.3
39			97.7	39	4.1	4.0	-0.1
40			96.9	40	4.0	4.0	0.0
43			97.5	43	4.0	4.0	0.0

COUNT=			6		6	6	6
AVG=			97.15		4.08	4.00	-0.08
STD=			0.94		0.11	0.00	0.11
MAX=			98.7		4.3	4.0	0.0
MIN=			96.0		4.0	4.0	-0.3
STD N-1=			1.03		0.12	0.00	0.12

```

*****
* DISTRICT:      23 DISTRICT:LAMPASAS          HIGHWAY: US 190
*   TYPE: D      COURSE: SURFACE
* PROJECT: C231-1-24                          CONTROL: 231-1-24
*****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5 OLD ACP          ROLLERS: WEIGHT   SPEED   #PASS IN TRAIN
* UNDERLAIN LAYER: FLEX BASE      (TON)   (MPH)   POSITION
* MIX DISCHARGE TEMP 335 F        3-WHEEL
* TEMP @ 1st PASS: 320 F          VIBRATORY 10.6  1-2    3      1
* TEMP @ 2nd PASS: 200-275 F      PNEUMATIC  9.5   1-2    3      2
* EXISTING PVT.: SMOOTH&WARPED    VIBRATORY  9.1   1-2    2      3
* PLANT: BATCH
* PILE CAP, 137
* SILO CAP.,TON:
* NO. OF BINS: 4(HOT),4(COLD)
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE   FREQ   NO. OF
* FORWARD BACK. (IN.)      (CPS)  VIB. DRUMS
*
*          X      X      0.022      37      2
*
* HAULING & LOADING EQUIPMENT:          MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W FLOW-      RICE      Gt
* TRAILER TRAILER BOY      (227-F)   (207-F)
*   X
*
* DENSITY MEASUREMENT TECHNIQUE          DAY OF DENSITY TEST
*
* CORES  NUCLEAR IN WHEEL BETWEEN   SAME DAY   NEXT DAY
*        PATH   W. PATH   PLACED     OR LATER
*   X     X     X     X           X
*****

```



```

*****
* DISTRICT:      23 DISTRICT:LAMPASAS      HIGHWAY: US 190      *
*   TYPE: D      COURSE: SURFACE          *
* PROJECT: C231-1-24          CONTROL: 231-1-24      *
*****

```

DENSITY INFORMATION
DESIGN AC #1D

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1			97.5	1	5.5	5.2	-0.3
4	90.8		97.3	4	5.1	5.2	0.1
5	91.9		96.8	5	5.3	5.2	-0.1
7	93.4		97.1	7	5.4	5.3	-0.1
11	93.3		97.5	11	5.2	5.3	0.1
12	88.9		98.3	12	5.4	5.3	-0.1
13	91.5		98.5	13	5.5	5.3	-0.2
14	93.8		98.6	14	5.2	5.3	0.1
15	95.2		97.9	15	5.3	5.2	-0.1
18	93.7		98.3	18	5.3	5.2	-0.1
19	92.3		97.3	19	5.3	5.2	-0.1
21	93.2		96.9	21	4.9	5.0	0.1
22	93.2		97.5	22	4.9	5.0	0.1
25	93.1		96.1	25	5.1	5.0	-0.1
26	92.5		97.6	26	5.2	5.0	-0.2
27	95.2		97.0	27	5.1	5.0	-0.1
28	91.1		97.2	28	5.0	5.0	0.0
29			96.3	29	5.1	5.0	-0.1
32			97.2	32	5.0	5.0	0.0
34	92.4		97.1	34	5.0	5.0	0.0
35			97.3	35	4.9	5.0	0.1
36	92.4		97.5	36	5.1	5.0	-0.1
37	92.9		97.0	37	5.2	5.0	-0.2
40	91.1		96.9	40	5.1	5.0	-0.1
41	91.2		96.9	41	5.1	5.0	-0.1

COUNT=	21		25	25	25	25	25
AVG=	92.5		97.3		5.17	5.11	-0.06
STD=	1.44		0.60		0.17	0.13	0.11
MAX=	95.2		98.6		5.5	5.3	0.1
MIN=	88.9		96.1		4.9	5.0	-0.3
STD N-1=	1.48		0.62		0.17	0.13	0.11

```

*****
* DISTRICT:      23 DISTRICT:McCulloch      HIGHWAY: US 87
*   TYPE: Gr. 4   COURSE: BASE
* PROJECT: CSR 71-1-30                      CONTROL: 007101030
*****
*
* GENERAL INFORMATION
*
* THICKNESS 1-1.5          ROLLERS:  WEIGHT  SPEED  #PASS IN TRAIN
* UNDERLAIN LAYER: PCC/BLACK BASE          (TON)   (MPH)      POSITION
* MIX DISCHARGE TEMP310-330 F              3-WHEEL
* TEMP @ 1st PASS: 290 F                   VIBRATORY
* TEMP @ 2nd PASS: 220 F                   PNEUMATIC  10        6      2,3
* EXISTING PVT.: SMOOTH                    TANDEM     10        2      1
* PLANT: DRUM MIXER
* PILE CAP,
* SILO CAP.,TON:
* NO. OF BINS:
*
*
* VIBRATORY ROLLER INFORMATION
*
* VIBRAT. VIBRAT. AMPLITUDE      FREQ      NO. OF
* FORWARD BACK. (IN.)           (CPS)     VIB. DRUMS
*
*
*
*
* HAULING & LOADING EQUIPMENT:              MAX. THEORETICAL DENSITY
*
* BOBTAIL SEMI- BOBTAIL/W FLOW-          RICE      Gt
* TRAILER TRAILER BOY                   (227-F)   (207-F)
*   X      X
*
* DENSITY MEASUREMENT TECHNIQUE            DAY OF DENSITY TEST
*
* CORES  NUCLEAR IN WHEEL BETWEEN OTHER  SAME DAY  NEXT DAY
*        NUCLEAR PATH W. PATH  OTHER  PLACED    OR LATER
*   X    X          X      X      X      X
*
*****

```

```

* ***** *
* DISTRICT: 23 DISTRICT:McCulloch HIGHWAY: US 87 *
* TYPE: Gr. 4 COURSE: BASE *
* PROJECT: CSR 71-1-30 CONTROL: 007101030 *
* ***** *

```

DENSITY INFORMATION
DESIGN AC #1D

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1				1	3.4	3.9	0.5
2	94.0			2	4.1	3.9	-0.2
	94.7						
18				18	3.9	3.9	0.0
19	95.9			19	4.0	3.9	-0.1
23				23	3.9	3.9	0.0
24	95.5			24			
	94.9						
36			97.1	36	3.9	3.9	0.0
40			96.9	40	3.8	3.9	0.1

COUNT=	5		2		7	7	7
AVG=	95.00		97.00		3.86	3.90	0.04
STD=	0.66		0.10		0.21	0.00	0.21
MAX=	95.9		97.1		4.1	3.9	0.5
MIN=	94.0		96.9		3.4	3.9	-0.2
STD N-1=	0.73		0.14		0.22	0.00	0.22

```

* *****
* DISTRICT:      24 DISTRICT:CULBERSON      HIGHWAY: US 62/180
*   TYPE: D      COURSE: SURFACE & LEVEL-UP
* PROJECT: CD 233-1-31      CONTROL: 23301031
* *****
*
* GENERAL INFORMATION
*
* THICKNESS > 2.0      ROLLERS:  WEIGHT  SPEED  #PASS IN TRAIN
* UNDERLAIN LAYER: OLD ACP      (TON)  (MPH)      POSITION
* MIX DISCHARGE TEMP 290-300 F      3-WHEEL
* TEMP @ 1st PASS: 250-285 F      VIBRATORY  11.25    3      2      1
* TEMP @ 2nd PASS: 240-275 F      PNEUMATIC  21.38    3      3      2
* EXISTING PVT.:  WARPED&PATHCED  VIBRATORY  11.25    3      2      3
* PLANT:          DRUM MIXER
* PILE CAP,      500
* SILO CAP.,TON: 70
* NO. OF BINS:   3(COLD)
*
*
*              VIBRATORY ROLLER INFORMATION
*
*              _____
*              VIBRAT.  VIBRAT.  AMPLITUDE  FREQ  NO. OF
*              FORWARD  BACK.    (IN.)      (CPS)  VIB. DRUMS
*
*              X      X      0.033      40      2
*
*
* HAULING & LOADING EQUIPMENT:      MAX. THEORETICAL DENSITY
*
* _____
* BOBTAIL  SEMI-  BOBTAIL/W  PRE-      RICE      Gt
*          TRAILER  TRAILER  LOADER    (227-F)    (207-F)
*              X
*
* DENSITY MEASUREMENT TECHNIQUE      DAY OF DENSITY TEST
*
* _____
* CORES  NUCLEAR  IN WHEEL BETWEEN  SAME DAY  NEXT DAY
*          PATH    W. PATH    PLACED    OR LATER
*          X      X      X      X
*
* *****

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*****
* DISTRICT:      24 DISTRICT:CULBERSON      HIGHWAY: US 62/180      *
* TYPE: D        COURSE: SURFACE & LEVEL-UP *
* PROJECT: CD 233-1-31                      CONTROL: 23301031      *
*****

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DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
1		95.7	95.2	1	5.4	5.3	-0.1
					5.2	5.3	0.1
					5.6	5.3	-0.3
2		93.9	95.1	2	5.5	5.3	-0.2
					5.2	5.3	0.1
					5.5	5.3	-0.2
3		95.0	95.2	3	5.4	5.3	-0.1
					4.8	5.3	0.5
					4.7	5.3	0.6
4		96.1	95.2	4	4.8	4.9	0.1
					5.0	4.9	-0.1
					4.7	4.9	0.2
5		95.7	96.5	5	4.7	4.9	0.2
					5.0	4.9	-0.1
					5.2	4.9	-0.3
7		95.2	95.7	7	5.3	4.9	-0.4
					5.2	4.9	-0.3
8		95.3	95.3	8	5.1	4.9	-0.2
					4.9	4.9	0.0
10		94.5	95.2	10	5.0	4.9	-0.1
					5.2	4.9	-0.3
					5.2	4.9	-0.3
11		95.6	96.5	11	4.9	4.9	0.0
					4.9	4.9	0.0
12		95.8	95.3	12	4.5	4.9	0.4
					4.5	4.9	0.4
15		96.7	96.3	15	5.0	4.9	-0.1
					4.9	4.9	0.0
21		96.3	95.4	21	5.0	4.9	-0.1
					5.0	4.9	-0.1
					4.9	4.9	0.0
22		95.8	95.1	22	4.8	4.9	0.1
					4.9	4.9	0.0
					5.1	4.9	-0.2
23		94.2	95.3	23	4.5	4.9	0.4
					5.0	4.9	-0.1
					4.7	4.9	0.2
24		97.0	96.5	24	5.2	4.9	-0.3
					4.5	4.9	0.4
					4.9	4.9	0.0
29		93.8	95.8	29	4.9	4.9	0.0

```

* *****
* DISTRICT:      24 DISTRICT:CULBERSON      HIGHWAY: US 62/180
*   TYPE: D      COURSE: SURFACE &LEVEL-UP
* PROJECT: CD 233-1-31      CONTROL: 23301031
* *****

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DENSITY INFORMATION (cont.)
DESIGN AC

WORKING DAY	CORE DEN., %	NUC. DEN., %	LAB. DEN., %	WORKING DAY	EXT. AC, %	DESIGN AC, %	DES. - EXT.
30		91.3	95.7	30	4.4	4.9	0.5
					4.8	4.9	0.1
31		93.3	96.7	31	4.8	4.9	0.1
					4.7	4.9	0.2
32		94.5	97.0	32	4.8	4.9	0.1
					4.6	4.9	0.3
					4.6	4.9	0.3
33		94.3	97.5	32	4.9	4.9	0.0
					4.8	4.9	0.1
COUNT=		20	20		50	50	50
AVG=		95.00	95.83		4.94	4.97	0.03
STD=		1.29	0.71		0.28	0.15	0.24
MAX=		97.0	97.5		5.6	5.3	0.6
MIN=		91.3	95.1		4.4	4.9	-0.4
STD N-1=		1.33	0.73		0.28	0.16	0.24

APPENDIX D

Level 2 Data for all Projects

* ***** *
 * DISTRICT: 1 COUNTY: FANNIN HIGHWAY: US 82 *
 * TYPE: D COURSE: LEVEL UP *
 * PROJECT: CSR-45-5-33 CONTROL: 0045-05-033 *
 * ***** *

DENSITY INFORMATION
DESIGN AC #DS3

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		98.0	5.8		41	42048	1743.29		2.0		14.8		86.5
2		98.0	5.9		43	38187	1326.04		2.0		15.0		86.7
3		97.9	5.8		37	22726	1944.40		2.1		14.9		85.9
8		98.2	5.6		42	45519	1700.89		1.8		14.2		87.3
10		98.6	5.8		37	32179	754.62		1.4		14.3		90.2
11	95.2	98.2	5.7	1.786	39	32518	3058.22	4.8	1.8	17.1	14.4	71.9	87.5
		99.5	5.8						0.5		13.5		96.3
12	94.3	98.1	5.8	1.615	37	37617	3163.45	5.7	1.9	18.0	14.7	68.4	87.1
13	90.1	98.3	5.4	2.316	20	27446	3181.57	9.9	1.7	20.9	13.7	52.6	87.6
17	96.9	98.1	5.3	1.988	41	14403	1543.69	3.1	1.9	14.7	13.7	78.9	86.1
18	95.0	98.0	5.2	2.041	34	16868	1822.67	5.0	2.0	16.2	13.5	69.1	85.2
20		98.4	5.9		43	16170	1573.25		1.6		14.7		89.1
22	94.6	98.2	5.4	2.890	43	6964	1057.92	5.4	1.8	17.0	13.8	68.1	86.9
24	96.4	97.8	6.0	1.959	38	16540	1720.12	3.6	2.2	16.6	15.4	78.4	85.7
25	96.3	97.9	5.3	1.739	45	24408	2274.87	3.7	2.1	15.2	13.8	75.7	84.8
29	94.9	97.2	5.2	1.914	43	22425	2270.28	5.1	2.8	16.3	14.2	68.6	80.3
30	97.3	97.4	5.8	1.981	43	14315	1523.78	2.7	2.6	15.4	15.4	82.5	83.1
31	96.8	97.4	5.1	1.442	42	30408	2368.84	3.2	2.6	14.4	13.8	77.7	81.2
32	94.7	97.6	5.4	1.797	39	24939	2357.97	5.3	2.4	16.9	14.3	68.6	83.2
33	95.3	97.5	5.4	1.508	45	27542	2199.52	4.7	2.5	16.3	14.4	71.2	82.6
34	96.1	97.2	5.1	2.263	43	3718	451.21	3.9	2.8	15.0	14.0	74.0	80.0

COUNT=	14	21	21	14	20	20	20	14	21	14	21	14	21
AVG=	95.3	98.0	5.6	1.946	39.8	24847.0	1901.83	4.7	2.0	16.4	14.3	71.8	85.9
STD=	1.71	0.51	0.29	0.357	5.39	11014.9	717.85	1.71	0.51	1.59	0.57	6.99	3.54
MAX=	97.3	99.5	6.0	2.890	45.0	45519	3181.57	9.9	2.8	20.9	15.4	82.5	96.3
MIN=	90.1	97.2	5.1	1.442	20	3718	451.21	2.7	0.5	14.4	13.5	52.6	80.0
STD-1=	1.77	0.52	0.29	0.371	5.53	11301.0	736.50	1.77	0.52	1.65	0.58	7.26	3.63

```

*****
* DISTRICT: 1 COUNTY: FANNIN HIGHWAY: US 82 *
* TYPE: D COURSE: LEVEL UP *
* PROJECT: CSR-45-5-33 CONTROL: 0045-05-033 *
*****

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DENSITY INFORMATION
DESIGN AC #DS3

	Gc/Gl	Gc/Gt ext.	Gc/Gt des.	Gl/Gt ext.	Gl/Gt des.

				98.7	98.7
				98.7	98.5
				98.6	98.6
				98.9	99.0
				99.3	99.2
	96.9	95.9	95.9	98.9	98.9
				100.2	100.1
	96.1	95.0	94.8	98.8	98.7
	91.7	90.7	91.1	99.0	99.4
	98.8	97.6	98.2	98.8	99.4
	96.9	95.7	96.4	98.7	99.4
				99.1	98.8
	96.3	95.3	95.4	98.9	99.0
	98.6	97.1	96.4	98.5	97.8
	98.4	97.0	97.3	98.6	98.9
	97.6	95.6	96.0	97.9	98.3
	99.9	98.0	97.6	98.1	97.7
	99.4	97.5	98.1	98.1	98.7
	97.0	95.4	95.5	98.3	98.4
	97.7	96.0	96.1	98.2	98.3
	98.9	96.8	97.4	97.9	98.5

COUNT=	14	14	14	21	21
AVG=	97.4	96.0	96.1	98.7	98.8
STD=	1.94	1.72	1.70	0.51	0.54
MAX=	99.9	98.0	98.2	100.2	100.1
MIN=	91.7	90.7	91.1	97.9	97.7
STD-1=	2.02	1.78	1.76	0.52	0.55

* *****
 * DISTRICT: 1 COUNTY: HUNT HIGHWAY: SH 50 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: MAF 188(12) CONTROL: 0768-01-030 *
 * *****

DENSITY INFORMATION
DESIGN AC #DS3

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		95.2	4.9	1.500		18178	1558.20		4.8		15.0		67.9
2	90.4	96.4	5.1	1.500		15806	1504.43	9.6	3.6	19.6	14.3	51.1	74.8
3		94.5	5.2	1.500		5594	428.33		5.5		16.2		66.1
6	90.6	96.6	5.7	1.500		5009	400.20	9.4	3.4	20.6	15.4	54.4	77.9
12	94.1	98.2	5.5	1.500		4409	373.36	5.9	1.8	17.2	13.6	65.6	86.7
13	91.8	98.3	5.4	1.500		15943	1263.78	8.2	1.7	19.0	13.3	56.8	87.2
14	92.8	98.4	5.6	1.500		16211	1303.16	7.2	1.6	18.5	13.6	61.1	88.2
15		98.3	5.1	1.500		2118	295.86		1.7		12.6		86.5
16		98.6	5.1	1.500		2719	274.87		1.4		12.4		88.7
19		98.0	5.2						2.0		13.1		84.7
20	92.9	98.5	5.2	1.500		8502	741.34	7.1	1.5	17.6	12.7	59.7	88.1
21	94.8	98.0	5.5	1.500		4566	382.34	5.2	2.0	16.5	13.7	68.6	85.4
22		98.8	5.4	1.500		759	81.18		1.2		12.8		90.6
23		98.7	5.5	1.500		2630	208.66		1.3		13.1		90.1
27	93.6	98.8	5.2	1.500		18416	1761.12	6.4	1.2	17.0	12.4	62.4	90.3
COUNT=	8	15	15	14		14	14	8	15	8	15	8	15
AVG=	92.4	97.7	5.3	1.5		8633	755.49	7.6	2.3	18.5	13.6	59.6	83.6
STD=	1.79	1.31	0.22	0.00		6444.0	566.29	1.79	1.31	1.62	1.11	6.10	7.76
MAX=	94.8	98.8	5.7	1.5		18416	1761.12	10.9	5.5	21.9	16.2	68.6	90.6
MIN=	89.1	94.5	4.9	1.5		759	81.18	5.2	1.2	16.5	12.4	50.3	66.1
STD-1=	1.92	1.36	0.23	0.00		6687.3	587.66	1.92	1.36	1.73	1.15	6.52	8.03

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*****
* DISTRICT: 1 COUNTY: HUNT HIGHWAY: SH 50 *
* TYPE: D COURSE: SURFACE *
* PROJECT: MAF 188(12) CONTROL: 0768-01-030 *
*****

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DENSITY INFORMATION
DESIGN AC #DS3

	Gc/Gl	Gc/Gt ext.	Gc/Gt des.	Gl/Gt ext.	Gl/Gt des.

				95.8	96.7
	93.8	91.0	91.6	97.0	97.7
				95.1	95.6
	93.8	91.2	91.0	97.2	97.1
	95.8	94.7	94.8	98.8	98.9
	93.4	92.4	92.6	98.9	99.2
	94.3	93.4	93.4	99.0	99.0
				98.9	99.6
				99.2	99.9
				98.6	99.1
	94.3	93.5	94.0	99.1	99.7
	96.7	95.4	95.5	98.6	98.7
				99.4	99.7
				99.3	99.4
	94.7	94.2	94.7	99.4	100.0

COUNT=	8	8	8	15	15
AVG=	94.4	93.0	93.2	98.3	98.7
STD=	1.31	1.80	1.82	1.32	1.27
MAX=	96.7	95.4	95.5	99.4	100.0
MIN=	92.2	89.7	89.5	95.1	95.6
STD-1=	1.40	1.93	1.95	1.37	1.31

* ***** *
 * DISTRICT: 1 COUNTY: LAMAR HIGHWAY: SH 19 *
 * TYPE: C COURSE: SURFACE *
 * PROJECT: MAF 381(12) CONTROL: 0136-05-037 *
 * ***** *

DENSITY INFORMATION
DESIGN AC #DS3

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	92.6	97.6	5.2	1.250		32180	2229.56	7.4	2.4	17.9	13.5	58.7	82.2
2			5.1			3441	286.05						
3	92.3	97.7	5.3	1.125		34808	2722.79	7.7	2.3	18.4	13.6	58.2	83.1
4	94.6	97.5	5.4	1.500		37778	2860.99	5.4	2.5	16.6	14.0	67.4	82.2
6	92.6	97.9	5.3	1.800		42556	3715.38	7.4	2.1	18.1	13.5	59.2	84.4
7		97.6	5.3			6188	545.94		2.4		13.7		82.5
8	95.3	97.6	5.3	1.400		25586	1956.71	4.7	2.4	15.8	13.7	70.2	82.5
9		97.8	5.2			13245	1084.75		2.2		13.3		83.5
10	92.8	97.7	5.2			40640	3273.24	7.2	2.3	17.8	13.4	59.5	82.9
	93.2		5.2					6.8		17.4		60.9	
COUNT=	7	8	10	5		9	9	7	8	7	8	7	8
AVG=	93.3	97.7	5.3	1.4		26269	2075.04	6.7	2.3	17.4	13.6	62.0	82.9
STD=	1.06	0.12	0.08	0.23		14167.9	1141.19	1.06	0.12	0.87	0.21	4.43	0.70
MAX=	95.3	97.9	5.4	1.8		42556	3715.38	7.7	2.5	18.4	14.0	70.2	84.4
MIN=	92.3	97.5	5.1	1.125		3441	286.05	4.7	2.1	15.8	13.3	58.2	82.2
STD-1=	1.15	0.13	0.08	0.26		15027.3	1210.42	1.15	0.13	0.94	0.23	4.78	0.75

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*****
* DISTRICT: 1 COUNTY: LAMAR HIGHWAY: SH 19 *
* TYPE: C COURSE: SURFACE *
* PROJECT: MAF 381(12) CONTROL: 0136-05-037 *
*****

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DENSITY INFORMATION
DESIGN AC #DS3

	Gc/Gl	Gc/Gt ext.	Gc/Gt des.	Gl/Gt ext.	Gl/Gt des.

	94.9	93.7	93.8	98.7	98.9
	94.5	93.4	93.4	98.8	98.8
	97.0	95.7	95.6	98.6	98.5
	94.6	93.7	93.7	99.0	99.0
				98.7	98.7
	97.6	96.4	96.4	98.7	98.7
				98.9	99.1
	95.0	93.9	94.0	98.8	99.0
		94.3	94.4		

COUNT=	6	7	7	8	8
AVG=	95.6	94.4	94.5	98.8	98.8
STD=	1.25	1.07	1.03	0.12	0.18
MAX=	97.6	96.4	96.4	99.0	99.1
MIN=	94.5	93.4	93.4	98.6	98.5
STD-1=	1.37	1.16	1.11	0.13	0.20

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*****
* DISTRICT: 1 COUNTY: LAMAR HIGHWAY: US 82 *
* TYPE: D COURSE: SURFACE *
* PROJECT: CSB-45-11-22 CONTROL: 0045-11-022 *
*****

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DENSITY INFORMATION
DESIGN AC #1

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	93.4	97.1	5.4	1.200		11373	776.00	6.6	2.9	17.4	14.2	62.1	79.5
2	92.6	96.6	5.6	1.667		8547	694.00	7.4	3.4	18.6	15.0	60.1	77.4
3	92.6	97.7	5.6	1.500		4693	360.00	7.4	2.3	18.6	14.1	60.1	83.6
4	93.5	97.4	5.8	1.800		4008	360.00	6.5	2.6	18.2	14.8	64.2	82.4
5		97.2	5.7			857	117.00		2.8		14.7		81.0
COUNT=	4	5	5	4		5	5	4	5	4	5	4	5
AVG=	93.0	97.2	5.6	1.542		5895.6	461.40	7.0	2.8	18.2	14.5	61.6	80.8
STD=	0.43	0.36	0.13	0.224		3672.4	241.76	0.43	0.36	0.46	0.37	1.71	2.19
MAX=	93.5	97.7	5.8	1.800		11373	776.00	7.4	3.4	18.6	15.0	64.2	83.6
MIN=	92.6	96.6	5.4	1.200		857	117.00	6.5	2.3	17.4	14.1	60.1	77.4
STD-1=	0.49	0.41	0.15	0.259		4105.8	270.30	0.49	0.41	0.53	0.42	1.97	2.45

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*****
* DISTRICT: 1 COUNTY: LAMAR HIGHWAY: US 82 *
* TYPE: D COURSE: SURFACE *
* PROJECT: CSB-45-11-22 CONTROL: 0045-11-022 *
*****

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DENSITY INFORMATION
DESIGN AC #1

	Gc/Gt	Gc/Gt		G1/Gt	G1/Gt
Gc/G1	ext.	des.		ext.	des.
96.2	94.6	95.2		98.4	99.0
95.9	93.8	94.1		97.9	98.2
94.8	93.8	94.1		99.0	99.3
96.0	94.7	94.7		98.7	98.7
				98.5	98.6
COUNT=	4	4		5	5
AVG=	95.7	94.3	94.5	98.5	98.7
STD=	0.55	0.43	0.46	0.37	0.37
MAX=	96.2	94.7	95.2	99.0	99.3
MIN=	94.8	93.8	94.1	97.9	98.2
STD-1=	0.63	0.50	0.53	0.41	0.42

* *****
 * DISTRICT: 2 COUNTY: TARRANT HIGHWAY: FM 1886 *
 * TYPE: G Gr2 COURSE: SURFACE *
 * PROJECT: CSB 1605-2-14 CONTROL: 1605-2-14 *
 * *****

DENSITY INFORMATION
DESIGN AC #631

WORKING DAY	CORE DEN., %	LAB. DEN., %	% AC	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		97.4	8.1	2.820	41		2.6		14.5		82.1
3		95.6	7.6	2.280	51		4.4		15.3		71.3
4		95.6	7.6	2.180	50		4.4		15.3		71.3
7		96.3	7.2	1.630	51		3.7		14.0		73.6
14		95.4	7.3	1.300	46		4.6		15.0		69.3
COUNT=		5	5	5	5		5		5		5
AVG=		96.06	7.56	2.042	47.8		3.94		14.83		73.51
STD=		0.74	0.31	0.529	3.9		0.74		0.49		4.52
MAX=		97.4	8.1	2.820	51		4.6		15.3		82.1
MIN=		95.4	7.2	1.300	41		2.6		14.0		69.3
STD N-1=		0.82	0.35	0.592	4.3		0.82		0.55		5.05

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*****
* DISTRICT: 2 COUNTY: TARRANT HIGHWAY: FM 1886 *
* TYPE: G Gr2 COURSE: SURFACE *
* PROJECT: CSB 1605-2-14 CONTROL: 1605-2-14 *
*****

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DENSITY INFORMATION
DESIGN AC #631

Gc/Gl	Gc/Gt		Gl/Gt	
	ext.	des.	ext.	des.

			99.6	99.2
			97.7	97.8
			97.7	97.8
			98.5	98.9
			97.5	97.9

COUNT=			5	5
AVG=			98.21	98.32
STD=			0.74	0.61
MAX=			99.6	99.2
MIN=			97.5	97.8
STD N-1=			0.83	0.68

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*****
* DISTRICT: 2 COUNTY: TARRANT HIGHWAY: IH-20 *
* TYPE: G Gr2 COURSE: SURFACE *
* PROJECT: MA-IR-20-4(193)439 CONTROL: 0008-13-097 *
*****

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DENSITY INFORMATION
DESIGN AC #662

WORKING DAY	CORE DEN., %	LAB. DEN., %	% AC	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		97.2	5.1	1.880	46		2.8		13.7		79.6
2		97.9	4.9	2.310	48		2.1		12.7		83.5
5		98.2	5.2	2.370	52		1.8		13.1		86.2
15		98.2	5.3	1.910	37		1.8		13.3		86.4
25		98.3	5.1	1.810	39		1.7		12.8		86.7
COUNT=		5	5	5	5		5		5		5
AVG=		98.0	5.1	2.056	44.4		2.0		13.1		84.5
STD=		0.40	0.13	0.235	5.6		0.40		0.37		2.71
MAX=		98.3	5.3	2.370	52		2.8		13.7		86.7
MIN=		97.2	4.9	1.810	37		1.7		12.7		79.6
STD N-1=		0.45	0.15	0.263	6.3		0.45		0.41		3.03

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*****
* DISTRICT: 2 COUNTY: TARRANT HIGHWAY: IH-20 *
* TYPE: G Gr2 COURSE: SURFACE *
* PROJECT: MA-IR-20-4(193)439 CONTROL: 0008-13-097 *
*****

```

DENSITY INFORMATION
DESIGN AC #662

Gc/Gl	Gc/Gt ext.	Gc/Gt des.	Gl/Gt ext.	Gl/Gt des.

			97.7	98.1
			98.4	99.1
			98.7	98.9
			98.7	98.8
			98.8	99.1

COUNT=			5	5
AVG=			98.4	98.8
STD=			0.40	0.38
MAX=			98.8	99.1
MIN=			97.7	98.1
STD N-1=			0.45	0.43

* *****
 * DISTRICT: 3 COUNTY: CLAY HIGHWAY: US 287 *
 * TYPE: D COURSE: LEVEL UP *
 * PROJECT: CSR-44-2-59 CONTROL: 0044-02-059 *
 * *****

DENSITY INFORMATION
DESIGN AC #1

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	92.9	97.9	5.0		46	14444	1194.27	7.1	2.1				
2		97.9	5.0		39	16805	1890.96		2.1				
3	94.9	97.9	4.9		49	18506	1560.21	5.1	2.1				
6		98.3	4.9		48	34822	2925.33		1.7				
7		98.0	4.8		46	20549	3033.74		2.0				
8	93.9	98.4	4.8		44	27473	2681.62	6.1	1.6				
9		96.9	4.3		51	27611	2234.14		3.1				
COUNT=	3	7	7		7	7	7	3	7				
AVG=	93.90	97.90	4.81		46.1	22887.1	2217.18	6.10	2.10				
STD=	0.82	0.45	0.22		3.6	6747.8	651.22	0.82	0.45				
MAX=	94.9	98.4	5.0		51	34822	3033.74	7.1	3.1				
MIN=	92.9	96.9	4.3		39	14444	1194.27	5.1	1.6				
STD-1=	1.00	0.49	0.24		3.9	7288.4	703.40	1.00	0.49				

```

* *****
* DISTRICT:      3 COUNTY: CLAY          HIGHWAY: US 287      *
*   TYPE: D      COURSE: LEVEL UP      *
* PROJECT: CSR-44-2-59          CONTROL: 0044-02-059      *
* *****

```

DENSITY INFORMATION

DESIGN AC #1

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```



```

*****
* DISTRICT:      3 COUNTY: WHICHITA & ARCHER HIGHWAY: US 82          *
* TYPE: D        COURSE: SURFACE                                     *
* PROJECT: CD156-4-61 & ETC           CONTROL: 0156-04-061         *
*****

```

DENSITY INFORMATION
DESIGN AC #4

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	93.8	97.6	4.8	2.438	58	5097	677.71	6.2	2.4	16.0	12.6	61.4	81.0
2	93.7	95.9	4.7	2.343	54	8659	1107.15	6.3	4.1	15.9	13.9	60.4	70.6
5	93.8	96.5	5.0	2.391	53	19958	2594.20	6.2	3.5	16.5	14.1	62.4	75.1
6	92.7	95.7	4.8	1.653	53	29332	2613.78	7.3	4.3	17.0	14.3	57.1	70.0
7	92.8	96.9	5.0	1.768	51	23146	2201.56	7.2	3.1	17.4	13.7	58.6	77.4
8	97.2	96.3	4.8	1.482	56	16947	1419.43	2.8	3.7	13.0	13.8	78.5	73.2
9	93.6	96.4	5.0	1.688	53	27747	2541.36	6.4	3.6	16.7	14.2	61.6	74.6
12		96.4	5.0		52	6159	526.29		3.6		14.2		74.6
COUNT=	7	8	8	7	8	8	8	7	8	7	8	7	8
AVG=	93.94	96.46	4.89	1.966	53.8	17130.6	1710.19	6.06	3.54	16.07	13.86	62.84	74.57
STD=	1.40	0.55	0.12	0.377	2.1	8963.4	825.08	1.40	0.55	1.34	0.50	6.60	3.32
MAX=	97.2	97.6	5.0	2.438	58	29332	2613.78	7.3	4.3	17.4	14.3	78.5	81.0
MIN=	92.7	95.7	4.7	1.482	51	5097	526.29	2.8	2.4	13.0	12.6	57.1	70.0
STD N-1=	1.51	0.59	0.12	0.407	2.3	9582.3	882.05	1.51	0.59	1.45	0.53	7.13	3.55

```

*****
* DISTRICT:      3 COUNTY: WHICHITA & ARCHER HIGHWAY: US 82      *
*   TYPE: D      COURSE: SURFACE                                  *
* PROJECT: CD156-4-61 & ETC          CONTROL: 0156-04-061      *
* *****

```

DENSITY INFORMATION
DESIGN AC #4

	Gc/Gl	Gc/Gt ext.	Gc/Gt des.	Gl/Gt ext.	GI/Gt des.

	96.1	95.2	95.5	99.1	99.4
	97.7	95.1	95.7	97.4	98.0
	97.2	95.2	95.4	98.0	98.1
	96.9	94.1	94.6	97.2	97.6
	95.8	94.2	94.4	98.4	98.5
	100.9	98.7	99.1	97.8	98.2
	97.1	95.0	95.2	97.9	98.0
				97.9	98.0

COUNT=	7	7	7	8	8
AVG=	97.38	95.38	95.69	97.94	98.24
STD=	1.57	1.42	1.48	0.56	0.50
MAX=	100.9	98.7	99.1	99.1	99.4
MIN=	95.8	94.1	94.4	97.2	97.6
STD N-1=	1.70	1.53	1.60	0.60	0.53

```

*****
* DISTRICT:      4 COUNTY: CARSON          HIGHWAY: US 60      *
*   TYPE: D      COURSE: SURFACE          *
* PROJECT: CSR 169-2-45                  CONTROL: 169-3-26  *
*****

```

DENSITY INFORMATION
DESIGN AC #1

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		97.9	4.8	1.250	45		2.1				
2		98.2	4.8	1.750	48		1.8				
5		98.1	4.8	0.750	43		1.9				
6		97.0	4.6	1.500	48		3.0				
7		97.6	4.8	1.250	33		2.4				
8		97.7	4.9	2.000	40		2.3				
11		97.8	4.7	1.000	50		2.2				
14		98.0	4.8	1.250	45		2.0				

COUNT=		8	8	8	8		7				
AVG=		97.8	4.8	1.344	44		2.2				
STD=		0.35	0.08	0.374	5.1		0.37				
MAX=		98.2	4.9	2.000	50		3.0				
MIN=		97.0	4.6	0.750	33		1.8				
STD N-1=		0.38	0.09	0.399	5.5		0.40				

* ***** *
* DISTRICT: 4 COUNTY: CARSON HIGHWAY: US 60 *
* TYPE: D COURSE: SURFACE *
* PROJECT: CSR 169-2-45 CONTROL: 169-3-26 *
* ***** *

DENSITY INFORMATION
DESIGN AC #1

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

* ***** *
* DISTRICT:      4 COUNTY: CARSON          HIGHWAY: US 60      *
*   TYPE: D      COURSE: LEVEL UP        *
* PROJECT: CSR 169-2-45                  CONTROL: 169-4-29  *
* ***** *

```

DENSITY INFORMATION
DESIGN AC #9

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		98.0	5.8	1.250	35		2.0				
2		96.7	5.3	2.000	46		3.3				
3		95.0	5.0	2.000	46		5.0				
4		98.4	5.3	1.250	41		1.6				
7		97.8	5.2	1.250	48		2.2				
8		97.9	4.9	1.250	41		2.1				
COUNT=		6	6	6	6		6				
AVG=		97.3	5.3	1.500	43		2.7				
STD=		1.15	0.29	0.354	4.4		1.15				
MAX=		98.4	5.8	2.000	48		5.0				
MIN=		95.0	4.9	1.250	35		1.6				
STD N-1=		1.26	0.31	0.387	4.8		1.26				

* ***** *
* DISTRICT: 4 COUNTY: CARSON HIGHWAY: US 60 *
* TYPE: D COURSE: LEVEL UP *
* PROJECT: CSR 169-2-45 CONTROL: 169-4-29 *
* ***** *

DENSITY INFORMATION
DESIGN AC #9

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

* ***** *
* DISTRICT:      5 COUNTY: GARZA          HIGHWAY: FM 651      *
*   TYPE: D      COURSE: LEVEL-UP        *
* PROJECT: CD 806-04-010                CONTROL: 806-4-10   *
* ***** *

```

DENSITY INFORMATION
DESIGN AC #3

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1			4.1			21430	866.58						
3		95.6	4.0		43	12908	583.72		4.4				
4		96.1	4.0		47	13891	577.09		3.9				
8		96.7	4.0		50	8693	435.86		3.3				
10		97.8	4.8		44	11591	603.95		2.2				
11		96.6	4.4		44	21174	872.19		3.4				
16		97.6	4.3		41	18840	798.44		2.4				
17		96.2	4.3		40	17890	729.38		3.8				
21		96.7	4.4		49	9408	505.12		3.3				
22		97.1	4.2		48	17819	744.58		2.9				
23	91.9	96.0	4.1	1.188	41	7576	570.39	8.1	4.0				
24	93.1	97.1	4.4	1.875	41	6787	604.84	6.9	2.9				
25	92.4	96.5	4.2	1.500	40	13905	1054.82	7.6	3.5				
28	92.4	96.5	4.1	1.813	41	15030	1071.61	7.6	3.5				
29	92.1	97.6	4.5	1.625	44	11200	816.74	7.9	2.4				
30	92.0	97.7	4.5	1.500	46	12821	914.59	8.0	2.3				
31	92.1	96.5	4.1	1.375	47	11408	900.95	7.9	3.5				
32	91.8	96.6	4.1	1.250	48	10928	822.61	8.2	3.4				
35	92.2	96.6	4.4	0.875	46	7614	624.60	7.8	3.4				
37	92.5	97.3	4.5	1.125	47	10889	792.62	7.5	2.7				
38	91.7	97.0	4.4	1.188	47	12654	977.76	8.3	3.0				
42	92.3	97.0	4.4	1.375	39	8861	717.53	7.7	3.0				
43		97.0	4.4	1.313	46	12429	915.00		3.0				
44		97.5	4.4		45	7423	528.91		2.5				

COUNT=	12	23	24	13	23	24	24	12	23				
AVG=	92.2	96.8	4.3	1.385	45	12632	751.25	7.8	3.2				
STD=	0.4	0.6	0.2	0.268	3	4160	173.77	0.4	0.6				
MAX=	93.1	97.8	4.8	1.875	50	21430	1071.61	8.3	4.4				
MIN=	91.7	95.6	4.0	0.875	39	6787	435.86	6.9	2.2				
STD-1=	0.4	0.6	0.2	0.279	3	4249	177.50	0.4	0.6				

```

* ***** *
* DISTRICT:      5 COUNTY: GARZA      HIGHWAY: FM 651      *
*   TYPE: D      COURSE: LEVEL-UP     *
* PROJECT: CD 806-04-010      CONTROL: 806-4-10      *
* ***** *

```

DENSITY INFORMATION

DESIGN AC #3

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```



```

* *****
* DISTRICT:      5 COUNTY: HOCKLEY      HIGHWAY: F.M. 300 & LOOP 44
*   TYPE: D      COURSE: SURFACE
* PROJECT: M D301(1) & M D302(1)      CONTROL: 130-07-019
* *****

```

DENSITY INFORMATION

DESIGN AC #2

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		95.5	4.8	1.500	54		4.5				
2		95.4	4.8	1.500	51		4.6				
27		97.0	5.2	1.500	43		3.0				
28		96.9	5.0	1.500	45		3.1				
29		96.5	5.1	1.500	44		3.5				
30		96.7	5.1	1.500	48		3.3				
33		96.6	5.2	1.500	45		3.4				
34		96.6	5.2	1.500	44		3.4				

COUNT=		8	8	8	8		8				
AVG=		96.4	5.1	1.500	47		3.6				
STD=		0.57	0.16	0.000	3.7		0.57				
MAX=		97.0	5.2	1.500	54		4.6				
MIN=		95.4	4.8	1.500	43		3.0				
STD-1=		0.61	0.17	0.000	3.9		0.61				

```

* *****
* DISTRICT:      5 COUNTY: HOCKLEY      HIGHWAY: F.M. 300 & LOOP 44      *
*   TYPE: D      COURSE: SURFACE      *
* PROJECT: M D301(1) & M D302(1)      CONTROL: 130-07-019      *
* *****

```

DENSITY INFORMATION
DESIGN AC #2

	Gc/Gt	Gc/Gt	Gl/Gt	Gl/Gt
Gc/Gl	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```

 * DISTRICT: 5 COUNTY: LUBBOCK HIGHWAY: US 84 & SPUR 326 *
 * TYPE: D COURSE: LEVEL UP *
 * PROJECT: MRD001(2) & MDRO21(2) CONTROL: 52-7-45 & 67-7-66 *

DENSITY INFORMATION
 DESIGN AC #1

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		96.4	6.8										
6	92.7	97.4	6.4										
9	92.3	96.3	6.8										
12	92.9	96.8	6.5										
13			6.4										
15		96.3	6.5		49	1800	68.23		3.7				
16			6.7										
28		96.0	6.6		52	6151	452.57		4.0				
29		96.5	6.6		53	8495	344.98		3.5				
33	95.1	97.0	6.7	1.500	47	7754	631.12		3.0				
34	92.3	95.6	6.4	2.000	48	7033	526.49		4.4				
COUNT=	5	9	11	2	5	5	5		5				
AVG=	93.06	96.48	6.58	1.750	49.8	6246.6	404.68		3.72				
STD=	1.05	0.51	0.15	0.250	2.3	2354.9	192.44		0.47				
MAX=	95.1	97.4	6.8	2.000	53	8495	631.12		4.4				
MIN=	92.3	95.6	6.4	1.500	47	1800	68.23		3.0				
STD-1=	1.17	0.54	0.15	0.354	2.6	2632.8	215.16		0.53				

```

*****
* DISTRICT:      5 COUNTY: LUBBOCK      HIGHWAY: US 84 & SPUR 326      *
*   TYPE: D      COURSE: LEVEL UP      *
* PROJECT: MRD001(2) & MDRO21(2)      CONTROL: 52-7-45 & 67-7-66      *
*****

```

DENSITY INFORMATION
DESIGN AC #1

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```

* ***** *
 * DISTRICT: 5 COUNTY: LUBBOCK HIGHWAY: US 84 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CSR 53-18-24 CONTROL: 53-18-24 *
 * ***** *

DENSITY INFORMATION
 DESIGN AC #1

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	91.3	95.6	4.7	1.500	44	8.7	4.4				
2	92.0	95.0	4.4	1.750	49	8.0	5.0				
3	92.2	95.2	4.6	2.000	48	7.8	4.8				
4	92.0	96.1	5.0	1.875	50	8.0	3.9				
8	94.5	96.5	4.7	1.938	53	5.5	3.5				
9	92.7	96.1	4.5	1.675	48	7.3	3.9				
10	93.0	96.2	4.5	0.938	45	7.0	3.8				
11	92.2	96.3	4.5	1.500	49	7.8	3.7				
16	93.3	96.8	4.8	1.875	44	6.7	3.2				
19	92.0	96.4	4.6	1.125	52	8.0	3.6				
25	94.7	96.3	4.6	1.875	51	5.3	3.7				
26	92.7	96.6	4.3	1.375	52	7.3	3.4				
COUNT=	12	12	12	12	12	12	12				
AVG=	92.7	96.1	4.6	1.619	48.8	7.3	3.9				
STD=	0.98	0.53	0.18	0.324	3.0	0.98	0.53				
MAX=	94.7	96.8	5.0	2.000	53	8.7	5.0				
MIN=	91.3	95.0	4.3	0.938	44	5.3	3.2				
STD-1=	1.03	0.55	0.19	0.338	3.1	1.03	0.55				

```

* *****
* DISTRICT:      5 COUNTY: LUBBOCK      HIGHWAY: US 84      *
*   TYPE: D      COURSE: SURFACE        *
* PROJECT: CSR 53-18-24      CONTROL: 53-18-24      *
* *****

```

DENSITY INFORMATION
DESIGN AC #1

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```

```

*****
* DISTRICT:      5 COUNTY: LUBBOCK          HIGHWAY: US 84          *
*   TYPE: C      COURSE: SURFACE          *
* PROJECT: CSR 53-18-24          CONTROL: 53-18-24          *
*****

```

DENSITY INFORMATION
DESIGN AC #1

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	94.0	95.4	4.1	2.000	47	6.0	4.6				
5	93.8	96.2	4.7	2.125	52	6.2	3.8				
6	91.8	95.9	4.4	1.750	50	8.2	4.1				
7	94.3	96.4	4.8	1.625	51	5.7	3.6				
8	92.6	95.8	4.2	2.563	50	7.4	4.2				
12			4.3								
15		96.8	4.1		46		3.2				
22		96.7	4.4		53		3.3				
37	94.6	97.3	4.5	1.500	47	5.4	2.7				

COUNT=	6	8	9	6	8	6	8				
AVG=	96.2	96.3	4.4	1.927	49.5	3.8	3.7				
STD=	0.60	0.58	0.23	0.354	2.4	0.60	0.58				
MAX=	94.6	97.3	4.8	2.563	53	94.6	4.6				
MIN=	91.8	95.4	4.1	1.500	46	91.8	2.7				
STD-1=	0.65	0.62	0.25	0.388	2.6	0.65	0.62				

```

* ***** *
* DISTRICT:      5 COUNTY: LUBBOCK      HIGHWAY: US 84      *
*   TYPE: C      COURSE: SURFACE        *
* PROJECT: CSR 53-18-24      CONTROL: 53-18-24      *
* ***** *

```

DENSITY INFORMATION
DESIGN AC #1

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```



```

* *****
* DISTRICT:      5 DISTRICT:LUBBOCK      HIGHWAY: US 84      *
*   TYPE: D      COURSE: LEVEL-UP      *
* PROJECT: CSR 53-18-24      CONTROL: 53-18-24      *
* *****

```

DENSITY INFORMATION
DESIGN AC #3

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
5	95.1	96.1	4.8	1.938	46	4.9	3.9				
8	91.4	96.6	4.8	1.250	46	8.6	3.4				
9	93.2	96.2	4.7	1.750	53	6.8	3.8				
10	94.1	96.5	5.0	1.875	50	5.9	3.5				
11	92.9	96.9	4.8	1.625	53	7.1	3.1				
12	92.8	96.5	4.9	1.250	49	7.2	3.5				
COUNT=	6	6	6	6	6	6	6				
AVG=	93.25	96.47	4.83	1.615	49.5	6.75	3.53				
STD=	1.15	0.26	0.09	0.276	2.9	1.15	0.26				
MAX=	95.1	96.9	5.0	1.938	53	8.6	3.9				
MIN=	91.4	96.1	4.7	1.250	46	4.9	3.1				
STD-1=	1.26	0.29	0.10	0.302	3.1	1.26	0.29				

```

* *****
* DISTRICT:      5 DISTRICT:LUBBOCK      HIGHWAY: US 84      *
*   TYPE: D      COURSE: LEVEL-UP      *
* PROJECT: CSR 53-18-24      CONTROL: 53-18-24      *
* *****

```

DENSITY INFORMATION
DESIGN AC #3

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```

* ***** *
 * DISTRICT: 5 COUNTY: GARZA HIGHWAY: US 84 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: BRF 635(11) CONTROL: 53-5-37 *
 * ***** *

DENSITY INFORMATION
DESIGN AC #1

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	94.6	98.0	5.8	1.625	43	5.4	2.0	18.2	15.3	70.3	86.9
2	86.0	95.9	4.7	1.500	47	14.0	4.1	23.5	14.7	40.5	72.2
		93.8	4.7	1.875		6.2		16.6		62.7	
3	87.7	95.9	4.9	1.875	49	12.3	4.1	22.4	15.2	45.2	73.0
41	92.1	97.1	5.2	1.375	43	7.9	2.9	19.1	14.8	58.7	80.4
42	93.5	96.4	5.0	1.875	37	6.5	3.6	17.5	14.9	62.9	75.9
		93.6	5.0	2.000	37	6.4	3.6	17.4	14.9	63.3	75.9
COUNT=	7	6	7	7	6	7	6	7	6	7	6
AVG=	91.61	96.62	5.04	1.732	42.7	8.39	3.38	19.27	14.97	57.65	77.37
STD=	3.12	0.74	0.35	0.216	4.5	3.12	0.74	2.48	0.19	9.96	5.00
MAX=	94.6	98.0	5.8	2.000	49	14.0	4.1	23.5	15.3	70.3	86.9
MIN=	86.0	95.9	4.7	1.375	37	5.4	2.0	16.6	14.7	40.5	72.2
STD-1=	3.37	0.81	0.38	0.233	5.0	3.37	0.81	2.68	0.21	10.76	5.48

```

*****
* DISTRICT:      5 COUNTY: GARZA          HIGHWAY: US 84      *
*   TYPE: D      COURSE:                  *
* PROJECT: BRP 635(11)                   CONTROL: 53-5-37   *
*****

```

DENSITY INFORMATION
DESIGN AC #1

	Gc/Gl	Gc/Gt ext.	Gc/Gt des.	Gl/Gt ext.	Gl/Gt des.

	96.5	94.8	94.8	98.2	98.2
	89.7	86.2	87.6	96.1	97.7
		94.0	94.2		
	91.4	87.9	87.8	96.1	96.0
	94.9	92.3	91.8	97.3	96.8
	97.0	93.7	93.4	96.6	96.3
	97.1	93.8	94.9	96.6	97.8

COUNT=	6	7	7	6	6
AVG=	94.43	91.83	92.07	96.84	97.13
STD=	2.88	3.13	2.94	0.74	0.81
MAX=	97.1	94.8	94.9	98.2	98.2
MIN=	89.7	86.2	87.6	96.1	96.0
STD-1=	3.15	3.38	3.17	0.81	0.89

 * DISTRICT: 7 COUNTY: TOM GREEN HIGHWAY: F.M. 388 & SPUR 126 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CSB2284-1-13 CONTROL: 2284-01-013 *

DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	96.9	97.0	5.2	1.250		6586	408.00	3.1	3.0				
2	95.2	96.5	5.6	1.000		10093	576.00	4.8	3.5				
3	96.0	96.6	5.1	1.500		3964	252.00	4.0	3.4				
6	92.4	96.7	5.4	1.000		12583	648.00	7.6	3.3				
7		96.8	5.7			4236	240.00		3.2				
COUNT=	4	5	5	4		5	5	5	5				
AVG=	95.13	96.72	5.40	1.188		7492.4	424.80	3.90	3.28				
STD=	1.68	0.17	0.23	0.207		3363.1	165.51	2.46	0.17				
MAX=	96.9	97.0	5.7	1.500		12583	648.00	7.6	3.5				
MIN=	92.4	96.5	5.1	1.000		3964	240.00	0.0	3.0				
STD-1=	1.94	0.19	0.25	0.239		3760.1	185.05	2.75	0.19				

```

* *****
* DISTRICT:      7 COUNTY: TOM GREEN      HIGHWAY: F.M. 388 & SPUR 126
*   TYPE: D      COURSE: SURFACE
* PROJECT: CSB2284-1-13                  CONTROL: 2284-01-013
* *****

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DENSITY INFORMATION
DESIGN AC

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```

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* *****
* DISTRICT:      7 COUNTY: TOM GREEN      HIGHWAY: US 67
* TYPE: D        COURSE: SURFACE
* PROJECT: FZZ9(10)          CONTROL: 158-2-49
* *****

```

DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	96.2		5.8	1.750	51	3.8					
2	92.7	95.9	4.9	1.375	52	7.3	4.1				
3	92.8	96.4	5.3	1.375	52	7.2	3.6				
6	94.0	96.1	5.5	2.000	51	6.0	3.9				
7	96.9	95.3	5.7	1.500	51	3.1	4.7				
8	94.4	95.3	5.5	1.750	52	5.6	4.7				
10	93.5	96.3	5.8	1.250	53	6.5	3.7				
14	93.6	96.5	5.8	1.500	44	6.4	3.5				
48	94.6	95.6	5.7	1.500	51	5.4	4.4				
49	92.7	96.8	5.7	1.500	60	7.3	3.2				
50	93.9	96.2	5.4	1.625	55	6.1	3.8				
51	93.7	97.4	5.5	1.500	49	6.3	2.6				
54	94.1	96.9	5.9	1.500	53	5.9	3.1				
55	94.1		5.8	1.500		5.9					
56	94.2	96.9	5.8	1.500	59	5.8	3.1				
57	92.3	97.0	5.9	2.000	53	7.7	3.0				
58	92.0	97.3	5.5	2.000	49	8.0	2.7				
74	94.8		5.2	1.500		5.2					

COUNT=	18	15	18	18	16	18	15				
AVG=	93.92	96.39	5.59	1.590	52.2	6.08	3.61				
STD=	1.21	0.65	0.26	0.216	3.6	1.21	0.65				
MAX=	96.9	97.4	5.9	2.000	60	8.0	4.7				
MIN=	92.0	95.3	4.9	1.250	44	3.1	2.6				
STD N-1=	1.25	0.67	0.27	0.222	3.7	1.25	0.67				

```
*****
* DISTRICT: 7 COUNTY: TOM GREEN HIGHWAY: US 67 *
* TYPE: D COURSE: SURFACE *
* PROJECT: F229(10) CONTROL: 158-2-49 *
*****
```

DENSITY INFORMATION
DESIGN AC

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          Gc/Gt  Gc/Gt          G1/Gt  G1/Gt
        Gc/G1  ext.   des.      ext.   des.
*****
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```
*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD N-1=
*****
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*****
* DISTRICT:      8 COUNTY: NOLAN          HIGHWAY: IH 20          *
* TYPE: D        COURSE: SURFACE         *
* PROJECT: IR 20-2(156)235              CONTROL: 0006-02-076    *
*****

```

DENSITY INFORMATION
DESIGN AC #1

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		97.0	5.6		53		1416.78		3.0				
2		96.5	5.7		55		1187.40		3.5				
3		97.0			40	15125	958.64		3.0				
8		95.9			51				4.1				
9		96.3			56				3.7				
10		96.1			50				3.9				
13		96.6			42				3.4				

COUNT=		7	2		7	1	3		7				
AVG=		96.49	5.65		49.6	15125.0	1187.61		3.51				
STD=		0.39	0.05		5.8	0.0	187.03		0.39				
MAX=		97.0	5.7		56	15125	1416.78		4.1				
MIN=		95.9	5.6		40	15125	958.64		3.0				
STD N-1=		0.42	0.07		6.2	0.0	229.07		0.42				

```

* *****
* DISTRICT:      8 COUNTY: NOLAN          HIGHWAY: IH 20
* TYPE: D        COURSE: SURFACE
* PROJECT: IR 20-2(156)235              CONTROL: 0006-02-076
* *****

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DENSITY INFORMATION
DESIGN AC #1

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

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*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD N-1=
*****

```

* ***** *
 * DISTRICT: 8 COUNTY: NOLAN HIGHWAY: IH 20 *
 * TYPE: D COURSE: LEVEL UP *
 * PROJECT: IR 20-2(156)235 CONTROL: 0006-02-076 *
 * ***** *

DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		97.4	5.8		52	39394	1544.36		2.6		11.2		76.7
2		97.3			41	22444	893.13		2.7				
5	94.3	97.3	5.7		38		1896.41	5.7	2.7	13.8	11.0	58.6	75.5
7	93.4	97.0	5.6				175.42	6.6	3.0	14.4	11.1	54.1	73.0
8	93.0	96.5	5.7		55		719.32	7.0	3.5	15.0	11.8	53.2	70.3
9		97.0	5.5		40		374.22		3.0		10.9		72.4
12	94.9	95.8	5.4		53		1908.59	5.1	4.2	12.6	11.8	59.5	64.3
13		96.3	5.5		48		2226.90		3.7		11.5		67.9
COUNT=	4	8	7		7	2	8	4	8	4	7	4	7
AVG=	93.90	96.83	5.60		46.71	30919.0	1217.29	6.10	3.18	13.93	11.32	56.38	71.43
STD=	0.74	0.53	0.13		6.45	8475.0	725.84	0.74	0.53	0.88	0.34	2.72	4.02
MAX=	94.9	97.4	5.8		55.0	39394	2226.90	7.0	4.2	15.0	11.8	59.5	76.7
MIN=	93.0	95.8	5.4		38.0	22444	175.42	5.1	2.6	12.6	10.9	53.2	64.3
STD N-1=	0.86	0.57	0.14		6.97	11985.5	775.95	0.86	0.57	1.02	0.36	3.14	4.34

```

*****
* DISTRICT:      8 COUNTY: NOLAN          HIGHWAY: IH 20
*   TYPE: D      COURSE: LEVEL UP
* PROJECT: IR 20-2(156)235              CONTROL: 0006-02-076
*****

```

DENSITY INFORMATION
DESIGN AC

	Gc/Gl	Gc/Gt ext.	Gc/Gt des.	Gl/Gt ext.	Gl/Gt des.
				101.9	101.7
				102.5	110.6
	96.9	98.7	98.5	101.8	101.6
	96.3	97.8	97.6	101.5	101.4
	96.4	97.3	97.0	101.0	100.6
				101.6	101.4
	99.1	99.4	99.4	100.3	100.3
				100.8	100.7
COUNT=	4	4	4	8	8
AVG=	97.16	98.30	98.11	101.45	102.28
STD=	1.12	0.79	0.90	0.66	3.16
MAX=	99.1	99.4	99.4	102.5	110.6
MIN=	96.3	97.3	97.0	100.3	100.3
STD N-1=	1.30	0.91	1.04	0.71	3.38

```

*****
* DISTRICT:      8 COUNTY: TAYLOR          HIGHWAY: IH 20          *
* TYPE: D        COURSE: SURFACE          *
* PROJECT: CSB6-6-66                      CONTROL: 0693-03-028    *
*****

```

DENSITY INFORMATION
DESIGN AC #1

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		96.0	6.0	1.500	60		4.0				
7		95.9	5.9	1.500	49		4.1				
8		96.6	5.6	1.500	50		3.4				
9		97.0	5.8	1.500			3.0				
12		97.2		1.500	49		2.8				
13		97.4	6.1	1.500			2.6				
14		97.4	5.9		44		2.6				

COUNT=		7	6	6	5		7				
AVG=		96.79	5.88	1.500	50.4		3.21				
STD=		0.59	0.16	0.000	5.2		0.59				
MAX=		97.4	6.1	1.500	60		4.1				
MIN=		95.9	5.6	1.500	44		2.6				
STD N-1=		0.63	0.17	0.000	5.9		0.63				

```

* *****
* DISTRICT:      8 COUNTY: TAYLOR          HIGHWAY: IH 20
* TYPE: D        COURSE: SURFACE
* PROJECT: CSB6-6-66          CONTROL: 0693-03-028
* *****

```

DENSITY INFORMATION
DESIGN AC #1

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

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*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD N-1=
*****

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* ***** *
* DISTRICT:      8 COUNTY: TAYLOR          HIGHWAY: US 83      *
* TYPE: D        COURSE: SURFACE          *
* PROJECT: CSR 33-6-76                    CONTROL: 33-6-76   *
* ***** *

```

DENSITY INFORMATION
DESIGN AC #DS3

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		96.2	4.6		55	19452	1420.73		3.8				
2		96.3	4.7		49	18340	1342.00		3.7				
3		96.6	4.9		50	20604	1756.76		3.4				
4		96.1	4.8		50	12004	1251.69		3.9				
7		95.8	4.8		51	17515	1232.63		4.2				
8		96.6	4.6		52	16146	1263.69		3.4				
9		95.8	4.7		52	20330	1729.52		4.2				
10		96.7	4.9		45	12458	1035.57		3.3				

COUNT=		8	8		8	8	8		8				
AVG=		96.26	4.75		50.5	17106.1	1379.07		3.74				
STD=		0.33	0.11		2.7	3130.1	233.87		0.33				
MAX=		96.7	4.9		55	20604	1756.76		4.2				
MIN=		95.8	4.6		45	12004	1035.57		3.3				
STD-1=		0.35	0.12		2.9	3346.2	250.01		0.35				

```

*****
* DISTRICT:      8 COUNTY: TAYLOR          HIGHWAY: US 83      *
*   TYPE: D      COURSE: SURFACE          *
* PROJECT: CSR 33-6-76          CONTROL:  33-6-76          *
*****

```

DENSITY INFORMATION
DESIGN AC #DS3

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

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*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

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* ***** *
 * DISTRICT: 10 COUNTY: ANDERSON HIGHWAY: US 287 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CSB 109-1-39 CONTROL: 0109-01-039 *
 * ***** *

DENSITY INFORMATION

DESIGN AC #DS3

WORKING DAY	CORE DEN., % Gc/Gt *	LAB. DEN., % Gl/Gt *	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1			5.4	1.529	48	6911	546.33			21.8	15.5		
2			5.3	1.633	43	8963	757.75			21.6	14.5		
5			5.4	1.426	39	9734	736.67			19.7	15.2		
6			5.3	1.453	45	9677	754.86			18.7	14.6		
7			5.4	1.598	48	9967	831.61			21.0	15.0		
8			5.3		46						15.3		
9			5.3		45						14.9		
12			5.1	1.501	41	7831	639.62			17.4	14.4		
13			5.2	1.480	39	11324	900.04			18.6	14.7		
14			5.4	1.510	42	11974	971.06			18.7	15.2		
15			5.7	1.431	39	10039	762.51			19.9	14.9		
19			5.2	1.518	46	8667	704.80			18.8	14.6		
20			5.4	1.567	41	12197	1033.04			18.2	14.0		
21			5.1	1.482	42	5460	438.93			17.7	13.8		
25			5.4	1.520	45	6562	528.91			19.8	14.5		
26			5.4	1.547	44	4360	357.28			19.9	14.6		
27			5.2	1.530	44	7578	630.43			17.5	14.3		
28			5.2	1.439	41	12222	937.01			19.2	14.0		
32			5.4	1.200	41	9489	608.27			19.2	14.5		
33			5.1	1.255	45	10925	698.35			22.7	13.6		
34			5.5	1.404	44	7751	564.80			21.5	14.5		
35			5.6	1.652	44	9516	840.07			19.3	14.7		
36			5.8	1.622	45	5822	512.28			18.2	15.5		

COUNT=			23	21	23	21	21			21	23		
AVG=			5.35	1.490	43.3	8903	702.60			19.49	14.65		
STD=			0.18	0.109	2.6	2197.4	174.29			1.45	0.49		
MAX=			5.8	1.652	48	12222	1033.04			22.7	15.5		
MIN=			5.1	1.200	39	4360	357.28			17.4	13.6		
STD-1=			0.18	0.112	2.7	2251.7	178.59			1.49	0.51		

```

*****
* DISTRICT:    10 COUNTY: ANDERSON          HIGHWAY: US 287
*   TYPE: D    COURSE: SURFACE
* PROJECT: CSB 109-1-39                    CONTROL: 0109-01-039
*****

```

DENSITY INFORMATION
DESIGN AC #DS3

	Gc/Gt ext.	Gc/Gt des.	G1/Gt ext.	G1/Gt des.	
92.6	89.8	89.8	97.0	97.0	
91.7	89.8	89.9	97.9	98.0	
94.8	92.2	92.2	97.3	97.3	
95.2	93.1	93.2	97.8	97.9	
92.9	90.7	90.7	97.6	97.6	
			97.0	97.1	
			97.4	97.5	
96.5	94.1	94.5	97.5	97.9	
95.5	93.0	93.3	97.4	97.7	
95.9	93.3	93.3	97.3	97.3	
94.1	92.6	92.2	98.4	98.0	
95.2	92.8	93.1	97.5	97.8	
95.1	93.9	93.9	98.7	98.7	
95.5	93.8	94.2	98.2	98.6	
93.9	92.1	92.1	98.1	98.1	
93.9	92.0	92.0	98.0	98.0	
96.2	94.2	94.5	97.9	98.2	
94.0	92.3	92.6	98.2	98.5	
94.5	92.8	92.8	98.2	98.2	
89.5	88.1	88.5	98.4	98.8	
91.8	90.3	90.2	98.4	98.3	
94.6	93.1	92.8	98.4	98.1	
96.7	94.8	94.2	98.0	97.4	
COUNT=	21	21	23	23	
AVG=	94.29	92.32	92.38	97.85	97.92
STD=	1.74	1.66	1.65	0.47	0.49
MAX=	96.7	94.8	94.5	98.7	98.8
MIN=	89.5	88.1	88.5	97.0	97.0
STD-1=	1.78	1.70	1.69	0.49	0.50

* *****
 * DISTRICT: 12 COUNTY: GALVESTON & HARRISHIGHWAY: FM 1764 *
 * TYPE: D COURSE: LEVEL UP *
 * PROJECT: CSR 1607-1-27 CONTROL: 1607-1-27 *
 * *****

DENSITY INFORMATION
DESIGN AC #D1

WORKING DAY	CORE DEN., %	LAB. DEN., %	% AC	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		97.7	4.8			958	146.315		2.3		12.1		81.1
2	94.6	98.2	5.4	1.750		4821	466.45	5.4	1.8	16.2	13.0	66.7	86.2
	94.8		4.9	2.000				5.2		15.0		65.2	
3	92.8	97.1	4.8	2.000		7845	684.77	7.2	2.9	16.5	12.7	56.5	77.1
	93.1		4.9	1.500				6.9		16.5		58.1	
			4.9										
4	93.6	97.9	4.9	1.375		8210	687.52	6.4	2.1	16.0	12.2	60.1	82.8
	94.0		4.9	1.625				6.0		15.7		61.7	
			4.9										
7	95.0	98.3	4.3	1.500		8763	792.31	5.0	1.7	13.5	10.5	62.9	83.8
	94.0		4.8	2.000				6.0		15.5		61.2	
			4.8										
8	91.6	97.5	4.5	1.750		6383	463.08	8.4	2.5	17.0	11.7	50.6	78.6
	92.9		5.1	1.250				7.1		17.1		58.4	
9	95.3	94.7	4.9	1.625		7636	559.42	4.7	5.3	14.5	15.1	67.6	64.8
	93.1		5.5	1.625				6.9		17.7		61.1	
11	92.5	97.5	4.9	1.250		12462	802.46	7.5	2.5	17.0	12.5	55.9	80.1
	93.6			1.500				6.4					
24	96.0	97.3	4.7			2345	158.7	4.0		13.5		70.3	
	92.9		5.9					7.1		18.7		62.1	

COUNT=	16	9	19	14		9	9	16	8	15	8	15	8
AVG=	93.74	97.36	4.94	1.625		6602.6	529.00	6.26	2.64	16.03	12.47	61.24	79.29
STD=	1.13	1.01	0.34	0.245		3289.8	232.44	1.13	1.07	1.43	1.21	4.86	6.11
MAX=	96.0	98.3	5.9	2.000		12462	802.46	8.4	5.3	18.7	15.1	70.3	86.2
MIN=	91.6	94.7	4.3	1.250		958	146.32	4.0	1.7	13.5	10.5	50.6	64.8
STD-1=	1.17	1.07	0.35	0.255		3489.4	246.54	1.17	1.15	1.48	1.30	5.03	6.53

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*****
* DISTRICT: 12 COUNTY: GALVESTON & HARRISHIGHWAY: FM 1764 *
* TYPE: D COURSE: LEVEL UP *
* PROJECT: CSR 1607-1-27 CONTROL: 1607-1-27 *
*****

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DENSITY INFORMATION
DESIGN AC #D1

Gc/Gl	Gc/Gt ext.	Gc/Gt des.	Gl/Gt ext.	Gl/Gt des.
			99.0	99.6
96.3	95.9	95.6	99.5	99.2
	96.1	96.5		
95.6	94.1	94.6	98.4	99.0
	94.4	94.8		
95.6	94.9	95.3	99.2	99.7
	95.3	95.7		
96.6	96.3	97.6	99.7	100.9
	95.3	95.8		
93.9	92.9	93.8	98.8	99.8
	94.2	94.3		
100.6	96.6	97.0	96.0	96.4
	94.3	93.9		
94.9	93.8	94.2	98.8	99.2
	95.0	102.6		
	97.3	98.0		
	94.1	93.2		
COUNT=	7	16	8	8
AVG=	96.23	95.02	95.90	98.69
STD=	1.98	1.15	2.20	1.09
MAX=	100.6	97.3	102.6	99.7
MIN=	93.9	92.9	93.2	96.0
STD-1=	2.14	1.18	2.27	1.16

 * DISTRICT: 12 COUNTY: GALVESTON & HARRISHIGHWAY: FM 1764 *
 * TYPE: D COURSE: LEVEL UP *
 * PROJECT: CSR 1607-1-27 CONTROL: 1607-1-27 *

DENSITY INFORMATION
 DESIGN AC #D2-3

WORKING DAY	CORE DEN., %	LAB. DEN., %	% AC	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
25		98.1	5.4			6650	440.76						
			4.8										
			4.8										
28	92.4	97.7	4.8	1.507		10229	818.07	7.6		16.9		55.0	
	95.2		5.2					4.8		15.2		68.5	
			4.7										
29		97.8	5.8			5324	406.79						
			5.1										
34		98.1	4.8			2260	165.99						
35	92.5	97.6	4.8	1.215		8033	518.44	7.5		16.8		55.4	
	92.8		4.7					7.2		16.3		55.9	

COUNT=	4	5	11	2		5	5	4		4		4	
AVG=	93.23	97.86	4.99	1.361		6499.2	470.01	6.77		16.33		58.72	
STD=	1.15	0.21	0.33	0.146		2669.8	210.13	1.15		0.66		5.66	
MAX=	95.2	98.1	5.8	1.507		10229	818.07	7.6		16.9		68.5	
MIN=	92.4	97.6	4.7	1.215		2260	165.99	4.8		15.2		55.0	
STD-1=	1.33	0.23	0.35	0.207		2984.9	234.93	1.33		0.77		6.53	

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*****
* DISTRICT: 12 COUNTY: GALVESTON & HARRISHIGHWAY: FM 1764 *
* TYPE: D COURSE: LEVEL UP *
* PROJECT: CSR 1607-1-27 CONTROL: 1607-1-27 *
*****

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DENSITY INFORMATION
DESIGN AC #D2-3

	Gc/Gt ext.	Gc/Gt des.	G1/Gt ext.	G1/Gt des.
	93.7	93.7		
	96.5	95.9		
	93.8	93.8		
	94.1	94.2		
COUNT=	4	4		
AVG=	94.49	94.39		
STD=	1.16	0.92		
MAX=	96.5	95.9		
MIN=	93.7	93.7		
STD-1=	1.34	1.06		

* *****
 * DISTRICT: 12 COUNTY: MONTGOMERY HIGHWAY: FM 1314 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CSR1986-1-18 CONTROL: 1986-1-18 *
 * *****

DENSITY INFORMATION
DESIGN AC #DS1

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	91.1	98.7	5.7	1.714	41	7499	652.26	8.9	1.3	18.3	11.5	51.5	88.7
3	92.3	96.2	5.3	1.753	53	12767	1157.32	7.7	3.8	16.4	12.9	53.1	70.6
4	91.2	97.3	5.6	1.619	58	14480	1193.41	8.8	2.7	17.9	12.5	50.9	78.3
6	90.3	95.6	5.0	1.794	60	3639	331.6	9.7	4.4	17.6	12.8	45.0	65.6
13	92.5	97.5	5.2	1.629	46	10884	919.73	7.5	2.5	16.0	11.5	53.3	78.3
14	92.1	97.3	5.3	1.638	50	16401	1385.54	7.9	2.7	16.6	11.9	52.5	77.3
15	91.1	96.9	5.0	1.619	53	13072	1084.01	8.9	3.1	17.0	11.7	47.6	73.5
17	91.8	96.6	4.9	1.480	50	6111	467.68	8.2	3.4	16.1	11.7	48.9	70.9
18	91.9	95.6	5.1	1.491	51	15005	1154.07	8.1	4.4	16.4	13.1	50.8	66.4
20	91.1	96.8	5.3	1.467	52	18753	1403.38	8.9	3.2	17.5	12.4	49.2	74.1
21	92.0	97.0	5.3	1.520	52	21882	1714.31	8.0	3.0	16.6	12.1	51.9	75.2
22	91.8	97.0	5.3	1.620	51	8243	686.65	8.2	3.0	16.9	12.2	51.4	75.4
27	90.8	96.9	5.3	1.662		3213	271.6	9.2	3.1	17.8	12.3	48.3	74.7
COUNT=	13	13	13	13	12	13	13	13	13	13	13	13	13
AVG=	91.54	96.88	5.25	1.616	51.4	11688.4	955.50	8.46	3.12	17.03	12.19	50.34	74.54
STD=	0.62	0.78	0.21	0.100	4.7	5517.1	427.43	0.62	0.78	0.72	0.50	2.32	5.65
MAX=	92.5	98.7	5.7	1.794	60	21882	1714.31	9.7	4.4	18.3	13.1	53.3	88.7
MIN=	90.3	95.6	4.9	1.467	41	3213	271.60	7.5	1.3	16.0	11.5	45.0	65.6
STD-1=	0.65	0.81	0.22	0.104	4.9	5742.4	444.88	0.65	0.81	0.75	0.53	2.42	5.88

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*****
* DISTRICT:      12 COUNTY: MONTGOMERY      HIGHWAY: FM 1314      *
* TYPE: D        COURSE: SURFACE           *
* PROJECT: CSR1986-1-18                     CONTROL: 1986-1-18   *
*****

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DENSITY INFORMATION
DESIGN AC #DS1

Gc/Gl	Gc/Gt ext.	Gc/Gt des.	Gl/Gt ext.	Gl/Gt des.
92.3	93.8	93.1	101.6	100.9
95.9	95.0	94.9	99.0	98.9
93.7	93.9	93.4	100.1	99.7
94.5	93.0	93.2	98.4	98.7
94.9	95.2	95.2	100.4	100.4
94.7	94.8	94.7	100.2	100.0
94.0	93.8	94.0	99.8	100.0
95.0	94.5	94.9	99.5	99.9
96.1	94.6	94.7	98.4	98.5
94.1	93.8	93.7	99.6	99.5
94.8	94.7	94.6	99.9	99.8
94.6	94.5	94.4	99.9	99.7
93.7	93.5	93.3	99.7	99.6

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*****
COUNT=      13      13      13           13      13
AVG=      94.50  94.23  94.17      99.73  99.66
STD=      0.95   0.64   0.71        0.79   0.63
MAX=      96.1   95.2   95.2      101.6  100.9
MIN=      92.3   93.0   93.1        98.4   98.5
STD-1=     0.99   0.67   0.73        0.82   0.66
*****

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* *****
 * DISTRICT: 12 COUNTY: MONTGOMERY HIGHWAY: IH 45 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: IR45-1(226)084 CONTROL: C675-08-48 *
 * *****

DENSITY INFORMATION
DESIGN AC #DS1

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	94.9	94.6	5.4	1.572	50	9857	838.12	5.1	5.4	13.4	13.6	61.8	60.4
2	91.4	95.0	5.2	1.718	50	14515	1302.19	8.6	5.0	16.2	12.9	46.8	61.2
7	92.2	94.3	4.5	1.641	60	8675	757.15	7.8	5.7	14.0	12.1	44.4	52.7
10	93.4	96.0	5.3	1.737	56	4800	444.38	6.6	4.0	14.5	12.1	54.5	67.0
14	89.5	95.7	5.1	1.350	55	14457	998.29	10.5	4.3	17.8	12.1	41.1	64.6
15		95.5	5.7		55	2207	160.77		4.5		13.6		66.8
16		95.6	5.9		49	1024	109.76		4.4		13.9		68.4
COUNT=	5	7	7	5	7	7	7	5	7	5	7	5	7
AVG=	92.28	95.24	5.29	1.604	53.6	7933.6	658.67	7.72	4.76	15.18	12.90	49.74	63.02
STD=	1.82	0.58	0.42	0.140	3.7	5077.6	408.22	1.82	0.58	1.62	0.74	7.49	5.04
MAX=	94.9	96.0	5.9	1.737	60	14515	1302.19	10.5	5.7	17.8	13.9	61.8	68.4
MIN=	89.5	94.3	4.5	1.350	49	1024	109.76	5.1	4.0	13.4	12.1	41.1	52.7
STD-1=	2.04	0.62	0.45	0.156	4.0	5484.4	440.92	2.04	0.62	1.81	0.80	8.37	5.44

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*****
* DISTRICT: 12 COUNTY: MONTGOMERY HIGHWAY: IH 45 *
* TYPE: D COURSE: SURFACE *
* PROJECT: IR45-1(226)084 CONTROL: C675-08-48 *
*****

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DENSITY INFORMATION
DESIGN AC #DS1

	Gc/Gt ext.	Gc/Gt des.	G1/Gt ext.	G1/Gt des.
100.3	98.6	98.9	98.3	98.6
96.2	95.0	95.5	98.7	99.3
97.8	95.9	97.3	98.1	99.5
97.3	97.1	97.5	99.8	100.2
93.5	93.0	93.6	99.5	100.1
			99.2	99.1
			99.3	98.9
COUNT=	5	5	7	7
AVG=	97.02	95.91	96.58	98.97
STD=	2.21	1.89	1.84	0.58
MAX=	100.3	98.6	98.9	99.8
MIN=	93.5	93.0	93.6	98.1
STD-1=	2.47	2.11	2.06	0.63

* ***** *
 * DISTRICT: 13 COUNTY: FAYETTE HIGHWAY: US 77 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CSR 26-3-35 CONTROL: 26-3-35 *
 * ***** *

DENSITY INFORMATION

DESIGN AC #DW44

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	91.4	95.9	5.0	0.860	51	8.6	4.1				
	93.0		5.0	1.230		7.0					
	91.9		5.0	1.040		8.1					
2	91.1	96.6	6.0	1.130	46	8.9	3.4				
3	93.4	96.8	6.2	1.950	49	6.6	3.2				
	91.7		6.2	1.660		8.3					
	93.9		6.2	1.770		6.1					
	93.1		6.2	1.700		6.9					
17	92.8	96.6	6.0	1.840		7.2	3.4				
	93.2	96.0	6.0	2.220		6.8					
	94.6		6.0	1.670		5.4					

COUNT=	11	5	11	11	3	11	4				
AVG=	92.74	96.38	5.80	1.552	48.7	7.26	3.53				
STD=	1.04	0.36	0.50	0.405	2.1	1.04	0.34				
MAX=	94.6	96.8	6.2	2.220	51	8.9	4.1				
MIN=	91.1	95.9	5.0	0.860	46	5.4	3.2				
STD-1=	1.09	0.40	0.52	0.425	2.5	1.09	0.39				

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* *****
* DISTRICT:    13 COUNTY: FAYETTE      HIGHWAY: US 77
*   TYPE: D    COURSE: SURFACE
* PROJECT: CSR 26-3-35                CONTROL: 26-3-35
* *****

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DENSITY INFORMATION
DESIGN AC #D44

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

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*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

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 * DISTRICT: 13 COUNTY: FAYETTE HIGHWAY: US 77 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CSR 26-3-35 CONTROL: 26-3-35 *

DENSITY INFORMATION
 DESIGN AC #DW5

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
6	90.8	94.6	5.3	1.910	54	9.2	5.4				
	89.9		5.3	1.570		10.1					
	91.6		5.3	1.280		8.4					
	89.6		5.3	1.420		10.4					
7	90.4	96.1	5.8	1.760	53	9.6	3.9				
	91.7	96.6	5.8	1.450	53	8.3					
	90.7		5.8	1.470		9.3					
	92.9		5.8	1.800		7.1					
8	90.9	96.6	6.2	1.420	50	9.1	3.4				
	93.6	96.6	6.2	1.750		6.4					
	93.3		6.2	1.580		6.7					
9	89.4	96.0	5.7	1.960	53	10.6	4.0				
	92.3	95.1	5.7	1.750	54	7.7					
	93.7		5.7	1.610		6.3					
10	92.7	96.8	6.0	1.280	54	7.3	3.2				
	94.1		6.0	1.670		5.9					
13	92.0	96.0	5.7	1.200	48	8.0	4.0				
	92.8		5.7	2.030		7.2					
	92.0		5.7	1.760		8.0					
	93.1		5.7	1.740		6.9					
14	92.7	95.4	5.9	1.530	50	7.3	4.6				
	92.4		5.9	1.420		7.6					
	93.3		5.9	1.630		6.7					
15	91.4	93.5	6.0	0.960	49	8.6	6.5				
	93.4		6.0	1.720		6.6					
	91.6		6.0	2.040		8.4					
16	93.7	96.8	6.0	1.710	47	6.3	3.2				
	92.0		6.0	1.420		8.0					
	93.6		6.0	1.680		6.4					
	92.9		6.0	1.410		7.1					
27	90.8	95.6	6.2	1.520	54	9.2	4.4				
	90.2		6.2			9.8					
COUNT=	32	13	32	31	12	32	10				
AVG=	92.05	95.82	5.84	1.595	51.6	7.95	4.26				
STD=	1.31	0.94	0.26	0.240	2.5	1.31	0.99				
MAX=	94.1	96.8	6.2	2.040	54	10.6	6.5				
MIN=	89.4	93.5	5.3	0.960	47	5.9	3.2				
STD-1=	1.33	0.98	0.27	0.244	2.6	1.33	1.04				

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*****
* DISTRICT:    13  COUNTY: FAYETTE      HIGHWAY: US 77      *
*   TYPE: D    COURSE: SURFACE         *
* PROJECT: CSR 26-3-35                CONTROL: 26-3-35   *
*****

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DENSITY INFORMATION
DESIGN AC #DWS

	Gc/Gt	Gc/Gt	Gl/Gt	Gl/Gt
Gc/Gl	ext.	des.	ext.	des.

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*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

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* ***** *
 * DISTRICT: 13 COUNTY: FAYETTE HIGHWAY: US 77 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CSR 26-3-35 CONTROL: 26-3-35 *
 * ***** *

DENSITY INFORMATION

DESIGN AC #DW6

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
20	95.4	97.5	6.3	1.690	51	4.6	2.5				
	94.6	97.1	6.3	1.850	47	5.4					
	92.0		6.3	1.730		8.0					
	92.3		6.3	1.550		7.7					
21	94.9	97.7	6.0	1.930	48	5.1	2.3				
	94.3		6.0	1.460		5.7					
	95.6		6.0	1.990		4.4					
22	93.6	97.0	5.8	1.360	49	6.4	3.0				
	93.8		5.8	1.740		6.2					
	93.5		5.8	1.380		6.5					
	94.6		5.8	1.710		5.4					
23	94.3	97.4	6.0	1.640	50	5.7	2.6				
	95.5		6.0	1.620		4.5					
	92.8		6.0	1.630		7.2					
24	94.0	96.8	5.9	1.440	54	6.0	3.2				
	93.0	96.7	5.9	1.690	40	7.0					
COUNT=	16	7	16	16	7	16	5				
AVG=	94.01	97.17	6.01	1.651	48.4	5.99	2.72				
STD=	1.07	0.35	0.18	0.177	4.0	1.07	0.33				
MAX=	95.6	97.7	6.3	1.990	54	8.0	3.2				
MIN=	92.0	96.7	5.8	1.360	40	4.4	2.3				
STD-1=	1.10	0.37	0.19	0.183	4.4	1.10	0.37				

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*****
* DISTRICT:    13 COUNTY: FAYETTE          HIGHWAY: US 77      *
*   TYPE: D    COURSE: SURFACE            *
* PROJECT: CSR 26-3-35                    CONTROL: 26-3-35   *
*****

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DENSITY INFORMATION
DESIGN AC #DW6

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

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*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

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*****
* DISTRICT:      13 DISTRICT:GONZALES      HIGHWAY: SH 80      *
*   TYPE: D      COURSE: SURFACE           *
* PROJECT: CSR-287-3-17                   CONTROL: 0287-03-017 *
*****

```

DENSITY INFORMATION
DESIGN AC #DS3

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED

1	91.2	96.5	4.6	1.330	48	8.8	3.5				
	89.3		4.6	1.350		10.7					
	88.2		4.6	1.030		11.8					
	90.5		4.6	1.050		9.5					
	90.0		4.6	1.380		10.0					
2		96.4	4.5		55		3.6				
3		96.7	4.4		56		3.3				
4	91.0	97.1	4.5	1.160	56	9.0	2.9				
	90.2		4.5	1.120		9.8					
8	89.1	96.4	4.4	1.220	55	10.9	3.6				
	88.0		4.4	0.930		12.0					
9		96.2	4.6		54		3.8				
10	91.8	97.7	4.8	1.170	52	8.2	2.3				
	92.6		4.8	1.140		7.4					
	89.9		4.8	1.790		10.1					
	90.7		4.8	1.250		9.3					
11	91.5	97.3	4.7	1.500	45	8.5	2.7				
	93.3		4.7	1.340		6.7					
14	89.0	97.4	4.8	1.340	44	11.0	2.6				
	92.3		4.8	1.470		7.7					
15	91.8	97.5	4.8	1.780	56	8.2	2.5				
	89.4		4.8	1.220		10.6					
16	90.6	97.4	4.9	1.200	45	9.4	2.6				
	91.6		4.9	1.210		8.4					
17	92.2	97.7	4.9	1.210	47	7.8	2.3				

COUNT=	22	12	25	22	12	22	12				
AVG=	90.65	97.03	4.67	1.281	51.1	9.35	2.97				
STD=	1.40	0.53	0.16	0.208	4.7	1.40	0.53				
MAX=	93.3	97.7	4.9	1.790	56	12.0	3.8				
MIN=	88.0	96.2	4.4	0.930	44	6.7	2.3				
STD-1=	1.44	0.55	0.16	0.213	4.9	1.44	0.55				

```

*****
* DISTRICT:      13 DISTRICT:GONZALES      HIGHWAY: SH 80      *
*   TYPE: D      COURSE: SURFACE           *
* PROJECT: CSR-287-3-17                     CONTROL: 0287-03-017 *
*****

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DENSITY INFORMATION
DESIGN AC #DS3

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

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*****
COUNT=
AVG=
STD=
MAX= .
MIN=
STD-1=
*****

```

 * DISTRICT: 13 DISTRICT:GONZALES HIGHWAY: US 87 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CSR-143-7-31 CONTROL: 0143-07-031 *
 * *****

DENSITY INFORMATION
 DESIGN AC #DS3

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	89.1	96.5	4.6	0.980	48	10.9	3.5				
	90.1		4.6	1.380		9.9					
	87.5		4.6	1.030		12.5					
	88.7		4.6	1.030		11.3					
2	87.8	96.4	4.4	1.460	55	12.2	3.6				
	90.6		4.6	1.360		9.4					
3		96.7	4.4		56		3.3				
4		97.1	4.5		56		2.9				
8	90.1	96.4	4.4	1.290	55	9.9	3.6				
	91.1		4.4	1.210		8.9					
9	93.0	96.2	4.6	1.420	54	7.0	3.8				
	89.9		4.6	1.400		10.1					
10	93.1	97.7	4.8	1.290	52	6.9	2.3				
11		97.3	4.7		45		2.7				
COUNT=	11	8	14	11	8	11	8				
AVG=	90.09	96.79	4.56	1.259	52.6	9.91	3.21				
STD=	1.75	0.49	0.12	0.165	3.8	1.75	0.49				
MAX=	93.1	97.7	4.8	1.460	56	12.5	3.8				
MIN=	87.5	96.2	4.4	0.980	45	6.9	2.3				
STD-1=	1.84	0.52	0.12	0.173	4.1	1.84	0.52				

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* *****
* DISTRICT:      13 DISTRICT:GONZALES      HIGHWAY: US 87      *
*   TYPE: D      COURSE: SURFACE           *
* PROJECT: CSR-143-7-31                     CONTROL: 0143-07-031 *
* *****

```

DENSITY INFORMATION
DESIGN AC #DS3

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
	ext.	des.	ext.	des.
Gc/G1				

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```

* ***** *
 * DISTRICT: 13 COUNTY: JACKSON HIGHWAY: SH 111 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: SR 40(5) CONTROL: 346-2-10 *
 * ***** *

DENSITY INFORMATION
DESIGN AC #86-184

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	93.6	98.1	4.4	1.375	46			6.4	1.9				
		98.0	4.5		46				2.0				
2	90.5	97.7	4.4	1.500	48			9.5	2.3				
		98.0	4.3		43				2.0				
3	90.5	98.0	4.4	1.417	51	9714	714.00	9.5	2.0				
		98.4	4.5		44				1.6				
6	93.8	97.6	4.8	1.050	47	12877	723.00	6.2	2.4				
7	91.2	97.9	4.8	1.030	39	8952	479.50	8.8	2.1				
8	91.2	97.2	4.8	1.129	56	12600	739.50	8.8	2.8				
		98.4	4.5		43				1.6				
9	91.2	97.4	4.6	1.063	45			8.8	2.6				
10		97.8	4.6	1.063	37				2.2				
13	91.6	97.3	4.6	1.438	51			8.4	2.7				
14	91.9	97.3	4.6	1.125	51			8.1	2.7				
15	92.9	98.2	4.5	1.500	45			7.1	1.8				
21		97.2	4.6		52				2.8				
22	91.0	98.1	4.7	1.059	47	12812	705.00	9.0	1.9				
23	91.0	98.0	4.8	1.078	46	10862	607.50	9.0	2.0				
24		97.7	4.8		46				2.3				
28	92.5	97.3	4.6	0.905	54	4387	210.00	7.5	2.7				
29		98.0	4.7		48				2.0				
30	90.2	97.9	4.7	1.119	52	11869	684.00	9.8	2.1				
34	87.0	98.6	4.7	1.467	47	3356	244.50	13.0	1.4				
35	88.5	98.2	4.4	1.117	51	12678	718.50	11.5	1.8				
36	88.5	98.2	4.5	0.939	46	4098	195.00	11.5	1.8				
37	89.5	99.4	4.7	1.168	34	11569	690.00	10.5	0.6				
38	89.9	99.1	4.7	1.235	33	7146	453.00	10.1	0.9				
39	87.0	99.4	4.7	0.980	20	8154	397.00	13.0	0.6				
41		98.1	4.7		40	1304	67.50		1.9				
42	88.9	97.3	4.3	1.456	48	1454	108.00	11.1	2.7				
43		97.5	4.8		46	987	65.50		2.5				

COUNT=	21	31	31	22	31	17	17	21	31				
AVG=	90.59	97.98	4.60	1.192	45.2	7930.6	458.91	9.41	2.02				
STD=	1.85	0.57	0.15	0.191	7.0	4319.0	252.12	1.85	0.57				
MAX=	93.8	99.4	4.8	1.500	56	12877	739.50	13.0	2.8				
MIN=	87.0	97.2	4.3	0.905	20	987	65.50	6.2	0.6				
STD-1=	1.89	0.58	0.15	0.195	7.1	4451.9	259.88	1.89	0.58				

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*****
* DISTRICT:      13 COUNTY: JACKSON          HIGHWAY: SH 111
*   TYPE: D      COURSE: SURFACE
* PROJECT: SR 40(5)                          CONTROL: 346-2-10
* *****

```

DENSITY INFORMATION
DESIGN AC #86-184

Gc/Gl	Gc/Gt ext.	Gc/Gt des.	Gl/Gt ext.	Gl/Gt des.
95.4				
92.6				
92.3				
96.1				
93.2				
93.8				
93.6				
94.1				
94.5				
94.6				
92.8				
92.9				
95.1				
92.1				
88.2				
90.1				
90.1				
90.0				
90.7				
87.5				
91.4				

```

*****
COUNT=      21
AVG=         92.44
STD=         2.26
MAX=         96.1
MIN=         87.5
STD-1=       2.32
*****

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 * DISTRICT: 13 DISTRICT:LAVACA HIGHWAY: SH 95 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CSR-26-3-35 CONTROL: CSR0324-02-012 *
 * *****

DENSITY INFORMATION
 DESIGN AC #DW5

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	88.3	96.8	6.0	1.540	47	11.7	3.2				
	90.2		6.0	1.810		9.8					
	91.1		6.0	2.190		8.9					
2	93.7	96.4	5.8	1.560	55	6.3	3.6				
	91.3		5.8	1.930		8.7					
	91.1		5.8	1.190		8.9					
3	91.8	96.5	6.2	1.900	51	8.2	2.2				
	91.9	97.8	6.2	1.220	43	8.1					
	94.5		6.2	1.840		5.5					
4	92.0	97.5	6.0	1.640	52	8.0	2.5				
	93.5	97.9	6.0	1.560	49	6.5					
	93.1		6.0	1.950		6.9					
7	90.9	97.0	6.2	1.550	54	9.1	3.0				
	93.7		6.2	1.510		6.3					
	93.7		6.2	1.530		6.3					
8	92.5	96.8	6.1	2.170	58	7.5	3.2				
	95.6		6.1	2.310		4.4					
	93.4		6.1	1.900		6.6					
9	95.0	98.2	6.2	2.150	42	5.0	2.6				
	91.7	97.4	6.2	2.060	49	8.3					
10		97.8	6.0		53		2.2				
11	91.7	96.3	6.0	1.800	54	8.3	3.7				
	93.1		6.0	1.740		6.9					
	93.6		6.0	1.570		6.4					
16	95.0	97.4	6.3	1.860	46	5.0	2.6				
	93.6	97.9	6.3	1.850	44	6.4	2.1				
	92.4		6.3	1.380		7.6					
17	92.4	96.8	6.3	2.180	47	7.6	3.2				
	94.8	97.6	6.3	1.870	46	5.2	2.4				
	96.2		6.3	2.100		3.8					
18	94.8	96.9	6.2	1.800	54	5.2	3.1				
	91.2	98.5	6.2	1.680	37	8.8	1.5				
	96.7		6.2	2.120		3.3					

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*****
* DISTRICT:      13 DISTRICT:LAVACA      HIGHWAY: SH 95      *
* TYPE: D        COURSE: SURFACE        *
* PROJECT: CSR-26-3-35      CONTROL: CSR0324-02-012      *
*****

```

DENSITY INFORMATION
DESIGN AC #DWS

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

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*****
* DISTRICT:      13 DISTRICT:LAVACA          HIGHWAY: SH 95          *
*   TYPE: D      COURSE: SURFACE            *
* PROJECT: CSR-26-3-35                      CONTROL: CSR0324-02-012 *
*****

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DENSITY INFORMATION (cont.)
DESIGN AC #DW5

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
22	93.9	96.8	6.0	2.050	57	6.2	3.2				
	92.5		6.0	1.520		7.5					
	95.5		6.0	1.980		4.5					
23	95.3	97.2	6.0	1.480	52	4.7	2.8				
	92.2		6.0	1.420		7.8					
COUNT=	37	20	38	37	20	38	38				
AVG=	93.08	97.28	6.10	1.781	49.5	6.74	1.24				
STD=	1.79	0.60	0.14	0.282	5.3	2.09	1.43				
MAX=	96.7	98.5	6.3	2.310	58	11.7	3.7				
MIN=	88.3	96.3	5.8	1.190	37	0.0	0.0				
STD-1=	1.82	0.62	0.14	0.286	5.5	2.12	1.45				

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* *****
* DISTRICT:      13 DISTRICT:LAVACA      HIGHWAY: SH 95      *
*   TYPE: D      COURSE: SURFACE        *
* PROJECT: CSR-26-3-35      CONTROL: CSR0324-02-012      *
* *****

```

DENSITY INFORMATION (cont.)
DESIGN AC #DW5

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

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*****
* DISTRICT: 14 COUNTY: BASTROP HIGHWAY: SH 21 *
* TYPE: C COURSE: SURFACE *
* PROJECT: CSR-265-3-24 CONTROL: 0471-05-024 *
*****

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DENSITY INFORMATION
DESIGN AC #1

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		97.3	4.5		44		2.7		11.8		77.0
6	90.5	97.5	4.5	1.875	54	9.5	2.5	17.4	11.0	45.3	77.2
7	92.5	98.4	4.5	1.438	52	7.5	1.6	16.6	11.3	54.9	85.9
8	91.8	97.7	4.5	1.750	48	8.2	2.3	17.3	11.9	52.5	80.7
9	92.2	98.0	4.6	1.750	45	7.8	2.0	17.0	11.8	54.1	83.0
11	91.8	97.7	4.7	1.750	47	8.2	2.3	17.4	12.1	53.0	81.0
COUNT=	5	6	6	5	6	6	6	5	6	5	6
AVG=	91.76	97.77	4.55	1.713	48.3	6.87	2.23	17.14	11.65	51.95	80.82
STD=	0.68	0.35	0.08	0.146	3.6	3.13	0.35	0.30	0.39	3.43	3.10
MAX=	92.5	98.4	4.7	1.875	54	9.5	2.7	17.4	12.1	54.9	85.9
MIN=	90.5	97.3	4.5	1.438	44	0.0	1.6	16.6	11.0	45.3	77.0
STD-1=	0.76	0.39	0.08	0.163	3.9	3.43	0.39	0.33	0.42	3.83	3.39

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* *****
* DISTRICT: 14      COUNTY: BASTROP      HIGHWAY: SH 21      *
*   TYPE: C        COURSE: SURFACE      *
* PROJECT: CSR-265-3-24      CONTROL: 0471-05-024      *
* *****

```

DENSITY INFORMATION
DESIGN AC #1

	Gc/Gl	Gc/Gt ext.	Gc/Gt des.	Gl/Gt ext.	Gl/Gt des.
				99.1	99.1
	92.8	92.8	92.8	100.0	100.0
	94.0	93.7	93.7	99.6	99.6
	94.0	93.0	93.0	98.9	98.9
	94.1	93.5	93.4	99.4	99.2
	94.0	93.2	93.0	99.2	98.9
COUNT=	5	5	5	6	6
AVG=	93.77	93.23	93.15	99.39	99.31
STD=	0.47	0.31	0.31	0.35	0.39
MAX=	94.1	93.7	93.7	100.0	100.0
MIN=	92.8	92.8	92.8	98.9	98.9
STD-1=	0.53	0.35	0.35	0.39	0.43

 * DISTRICT: 14 COUNTY: BASTROP HIGHWAY: SH 21 *
 * TYPE: C COURSE: SURFACE *
 * PROJECT: CSR-265-3-24 CONTROL: 0471-05-024 *

DENSITY INFORMATION
 DESIGN AC #2

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
12	91.5	97.6	4.5	2.500		8.5	2.4	17.4	11.9	51.1	79.8
13	90.5	97.7	4.5	1.750	42	9.5	2.3	18.3	11.8	48.0	80.5
14	90.8	96.7	4.5	1.875	48	9.2	3.3	18.0	12.7	48.9	74.0
18	90.1	97.8	4.4	1.625	42	9.9	2.2	22.6	15.9	56.1	86.2
20	91.1	97.5	4.5	2.625	45	8.9	2.5	17.9	12.1	50.2	79.3
21	92.2	98.1	4.5	2.625	55	7.8	1.9	16.9	11.5	53.8	83.5
25	92.0	97.4	4.5	2.625	47	8.0	2.6	17.0	12.2	53.1	78.7
26	91.3	98.4	4.4	1.188	45	8.7	1.6	17.6	11.2	50.5	85.7
27	93.2	96.9	4.0		47	6.8	3.1	15.5	12.2	56.2	74.5
		98.1	4.5		45		1.9		11.5		83.5
		98.4	4.7		47		1.6		11.5		86.0
		99.1	4.7		47		0.9		10.8		91.7
28	91.4	99.7	4.7	1.438	30	8.6	0.3	17.8	10.3	51.6	97.1
		98.2	4.5		49		1.8		11.5		84.3
29		99.0	4.6		46		1.0		10.8		90.8
COUNT=	10	15	15	9	14	15	15	10	15	10	15
AVG=	91.41	98.04	4.50	2.028	45.4	5.73	1.96	17.89	11.86	51.94	83.70
STD=	0.85	0.79	0.16	0.539	5.2	4.11	0.79	1.72	1.24	2.66	6.10
MAX=	93.2	99.7	4.7	2.625	55	9.9	3.3	22.6	15.9	56.2	97.1
MIN=	90.1	96.7	4.0	1.188	30	0.0	0.3	15.5	10.3	48.0	74.0
STD-1=	0.89	0.81	0.17	0.571	5.4	4.25	0.81	1.82	1.28	2.81	6.32

```

* *****
* DISTRICT: 14 COUNTY: BASTROP HIGHWAY: SH 21
* TYPE: C COURSE: SURFACE
* PROJECT: CSR-265-3-24 CONTROL: 0471-05-024
* *****

```

DENSITY INFORMATION
DESIGN AC #2

	Gc/Gt ext.	Gc/Gt des.	Gl/Gt ext.	Gl/Gt des.	
93.8	92.8	92.8	99.0	99.0	
92.6	91.8	91.8	99.1	99.1	
93.9	92.1	92.1	98.1	98.1	
92.1	86.8	86.9	94.2	94.3	
93.4	92.3	92.3	98.8	98.8	
94.0	93.4	93.4	99.4	99.4	
94.5	93.2	93.2	98.7	98.7	
92.8	92.3	92.5	99.5	99.7	
96.2	93.7	94.4	97.4	98.2	
			99.4	99.4	
			100.0	99.7	
			100.7	100.4	
91.7	92.9	92.6	101.3	101.0	
			99.5	99.5	
			100.4	100.4	
COUNT=	10	10	15	15	
AVG=	93.49	92.13	92.20	99.03	99.03
STD=	1.23	1.87	1.90	1.60	1.48
MAX=	96.2	93.7	94.4	101.3	101.0
MIN=	91.7	86.8	86.9	94.2	94.3
STD-1=	1.29	1.97	2.00	1.66	1.53

* ***** *
 * DISTRICT: 14 COUNTY: BASTROP HIGHWAY: SH 71 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: MA-F 283(13) CONTROL: 0265-05-046 *
 * ***** *

DENSITY INFORMATION
DESIGN AC #2

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		96.7	4.6		53		3.3		13.1		74.9
2	92.6	96.1	4.8	2.000	50	7.4	3.9	17.2	14.1	57.0	72.3
3	91.2	97.2	4.8	1.875	49	8.8	2.8	18.5	13.1	52.4	78.6
4		96.0	4.7		44		4.0		14.0		71.4
5	91.1	98.0	5.2	1.625	48	8.9	2.0	19.4	13.3	54.0	84.9
8	90.6	97.5	5.0	1.750	42	9.4	2.5	19.4	13.3	51.6	81.2
9		97.2	4.8		42		2.8		13.1		78.6
10	91.4	98.8	5.3		46	8.6	1.2	19.3	12.8	55.4	90.6
11	91.4	98.2	5.1	1.875	45	8.6	1.8	18.9	12.9	54.5	86.0
15	92.4	98.4	5.2	1.750	42	7.6	1.6	18.2	12.9	58.3	87.6
16	93.2	98.0	5.2	1.750	39	6.8	2.0	17.5	13.3	61.2	84.9
17	92.7	98.4	5.3	1.875	38	7.3	1.6	18.2	13.1	59.8	87.8
18		98.3	5.2		40		1.7		13.0		86.9
19	91.4	98.2	5.1	1.750	42	8.6	1.8	18.9	12.9	54.5	86.0
22	91.8	98.0	5.2	1.750	40	8.2	2.0	18.7	13.3	56.3	84.9
23		98.3	5.1		41		1.7		12.8		86.7
26	91.8	98.5	5.1	1.875		8.2	1.5	18.5	12.6	55.8	88.1
32		98.2	5.2				1.8		13.1		86.2

COUNT=	12	18	18	11	16	12	18	12	18	12	18
AVG=	91.80	97.78	5.05	1.807	43.8	8.20	2.22	18.56	13.14	55.90	83.21
STD=	0.74	0.80	0.21	0.098	4.2	0.74	0.80	0.67	0.37	2.72	5.54
MAX=	93.2	98.8	5.3	2.000	53	9.4	4.0	19.4	14.1	61.2	90.6
MIN=	90.6	96.0	4.6	1.625	38	6.8	1.2	17.2	12.6	51.6	71.4
STD-1=	0.77	0.82	0.21	0.103	4.3	0.77	0.82	0.70	0.38	2.84	5.70

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*****
* DISTRICT: 14      COUNTY: BASTROP      HIGHWAY: SH 71      *
* TYPE: D          COURSE: SURFACE      *
* PROJECT: MA-F 283(13)      CONTROL: 0265-05-046      *
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DENSITY INFORMATION
DESIGN AC #2

	Gc/Gt ext.	Gc/Gt des.	G1/Gt ext.	G1/Gt des.	

			97.4	97.8	
96.4	93.2	93.4	96.8	96.9	
93.8	91.8	92.0	97.9	98.0	
			96.7	96.9	
93.0	91.7	91.3	98.7	98.3	
92.9	91.2	91.1	98.2	98.0	
			97.9	98.0	
92.5	92.0	91.8	99.5	99.2	
93.1	92.0	92.0	98.9	98.9	
93.9	93.0	92.9	99.1	98.9	
95.1	93.8	93.7	98.7	98.5	
94.2	93.3	93.1	99.1	98.8	
			99.0	98.8	
93.1	92.0	92.0	98.9	98.9	
93.7	92.4	92.3	98.7	98.5	
			99.0	99.0	
93.2	92.4	92.4	99.2	99.2	
			98.9	98.7	

COUNT=	12	12	18	18	
AVG=	93.73	92.43	92.34	98.45	98.41
STD=	1.04	0.74	0.76	0.80	0.67
MAX=	96.4	93.8	93.7	99.5	99.2
MIN=	92.5	91.2	91.1	96.7	96.9
STD-1=	1.08	0.78	0.80	0.82	0.69

 * DISTRICT: 14 COUNTY: BLANCO HIGHWAY: US 281 *
 * TYPE: C COURSE: SURFACE *
 * PROJECT: CSR-253-1-33 CONTROL: 0253-01-033 *

DENSITY INFORMATION
 DESIGN AC #DS3

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	88.8	97.7	4.4	1.500	50	11.2	2.3	18.7	10.5	40.1	78.2
2	93.4	95.8	4.3	1.813	60	6.6	4.2	15.1	13.0	56.4	67.6
3	92.4	97.7	4.7	1.500	46	7.6	2.3	17.0	12.3	55.3	81.2
4	92.7	97.2	4.3	1.500	51	7.3	2.8	16.4	12.3	55.5	77.3
8	91.9	98.0	4.4	1.250	42	8.1	2.0	17.2	11.7	52.9	82.9
9	92.0	96.6	4.6	1.750	51	8.0	3.4	17.3	13.1	53.7	74.1
10	93.0	97.7	4.7	1.771	50	7.0	2.3	16.5	12.3	57.5	81.2
11	94.7	98.8	5.0	1.750	45	5.3	1.2	15.2	11.5	65.2	89.6
12	94.2	98.4	4.8	1.750	53	5.8	1.6	15.5	11.7	62.5	86.3
COUNT=	9	9	9	9	9	9	9	9	9	9	9
AVG=	92.57	97.54	4.58	1.62	49.8	7.43	2.46	16.54	12.05	55.46	79.84
STD=	1.60	0.86	0.23	0.18	4.9	1.60	0.86	1.09	0.74	6.64	6.17
MAX=	94.7	98.8	5.0	1.8	60	11.2	4.2	18.7	13.1	65.2	89.6
MIN=	88.8	95.8	4.3	1.3	42	5.3	1.2	15.1	10.5	40.1	67.6
STD-1=	1.70	0.91	0.24	0.19	5.2	1.70	0.91	1.15	0.79	7.04	6.54

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*****
* DISTRICT: 14 COUNTY: BLANCO HIGHWAY: US 281 *
* TYPE: C COURSE: SURFACE *
* PROJECT: CSR-253-1-33 CONTROL: 0253-01-033 *
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DENSITY INFORMATION
DESIGN AC #DS3

	Gc/Gl	Gc/Gt ext.	Gc/Gt des.	Gl/Gt ext.	Gl/Gt des.

	90.9	90.7	91.1	99.8	100.3
	97.5	94.5	95.1	96.9	97.6
	94.6	93.3	93.4	98.6	98.8
	95.4	93.1	93.7	97.6	98.3
	93.8	92.4	92.9	98.5	99.1
	95.2	92.8	93.0	97.4	97.7
	95.2	93.9	94.0	98.6	98.8
	95.9	96.0	95.7	100.2	99.9
	95.7	95.2	95.2	99.5	99.5

COUNT=	9	9	9	9	9
AVG=	94.90	93.54	93.82	98.57	98.87
STD=	1.71	1.49	1.35	1.07	0.88
MAX=	97.5	96.0	95.7	100.2	100.3
MIN=	90.9	90.7	91.1	96.9	97.6
STD-1=	1.81	1.58	1.43	1.13	0.93

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* ***** *
* DISTRICT: 14 COUNTY: LEE HIGHWAY: US 290 *
* TYPE: C COURSE: SURFACE *
* PROJECT: CRS-114-7-51 CONTROL: 0114-07-051 *
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DENSITY INFORMATION
DESIGN AC #1

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	92.4	96.9	5.0	1.813	47	7.6	3.1				
5	93.1	97.7	5.1	1.750	51	6.9	2.3				
6	91.1	97.8	5.0	1.750	55	8.9	2.2				
7	92.9	97.7	5.2	1.625	55	7.1	2.3				
8	93.3	97.9	5.0	1.500	53	6.7	2.1				
9	92.5	98.0	4.9	1.563	47	7.5	2.0				
COUNT=	6	6	6	6	6	6	6				
AVG=	92.55	97.67	5.03	1.667	51.3	7.45	2.33				
STD=	0.72	0.36	0.09	0.112	3.3	0.72	0.36				
MAX=	93.3	98.0	5.2	1.813	55	8.9	3.1				
MIN=	91.1	96.9	4.9	1.500	47	6.7	2.0				
STD-1=	0.79	0.39	0.10	0.123	3.7	0.79	0.39				

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*****
* DISTRICT: 14 COUNTY: LEE HIGHWAY: US 290 *
* TYPE: C COURSE: SURFACE *
* PROJECT: CRS-114-7-51 CONTROL: 0114-07-051 *
*****

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DENSITY INFORMATION

DESIGN AC #1

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
	ext.	des.	ext.	des.

	95.4			
	95.3			
	93.1			
	95.1			
	95.3			
	94.4			

COUNT=	6			
AVG=	94.76			
STD=	0.79			
MAX=	95.4			
MIN=	93.1			
STD-1=	0.87			

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*****
* DISTRICT: 14 COUNTY: TRAVIS HIGHWAY: IH35 MAIN LANES *
* TYPE: C COURSE: SURFACE *
* PROJECT: CSR-15-13-201 CONTROL: 0015-13-201 *
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DENSITY INFORMATION
DESIGN AC #DS3

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	92.1	96.8	4.5	1.875	49	7.9	3.2				
2	94.9	97.3	4.6	2.125	45	5.1	2.7				
3	93.0	97.1	4.6	2.500	52	7.0	2.9				
4	92.2	97.1	4.8	2.063	47	7.8	2.9				
5	91.4	98.1	4.5	2.500	43	8.6	1.9				
6	92.7	97.8	4.6	2.500	42	7.3	2.2				
8	92.8	98.0	4.6	2.000	45	7.2	2.0				
9	90.6	97.9	4.7	2.000	45	9.4	2.1				
10	90.8	96.8	4.5	2.063	50	9.2	3.2				
11	92.5	98.1	4.8	2.000	45	7.5	1.9				
12	92.5	97.6	4.7	2.250	43	7.5	2.4				
23	91.5	97.7	4.8	2.125	46	8.5	2.3				
24	91.2	99.0	5.0	2.125	39	8.8	1.0				
25	92.6	98.8	4.9	2.375	30	7.4	1.2				
26	91.5	98.0	4.7	2.250	43	8.5	2.0				

COUNT=	15	15	15	15	15	15	15				
AVG=	92.15	97.74	4.67	2.183	44.3	7.85	2.26				
STD=	1.03	0.63	0.13	0.197	5.0	1.03	0.63				
MAX=	94.9	99.0	5.0	2.500	52	9.4	3.2				
MIN=	90.6	96.8	4.5	1.875	30	5.1	1.0				
STD-1=	1.07	0.65	0.14	0.204	5.1	1.07	0.65				

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*****
* DISTRICT: 14 COUNTY: TRAVIS HIGHWAY: IH35 MAIN LANES *
* TYPE: C COURSE: SURFACE *
* PROJECT: CSR-15-13-201 CONTROL: 0015-13-201 *
*****

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DENSITY INFORMATION
DESIGN AC #DS3

Gc/Gl	Gc/Gt ext.	Gc/Gt des.	Gl/Gt ext.	Gl/Gt des.

	95.1			
	97.5			
	95.8			
	95.0			
	93.2			
	94.8			
	94.7			
	92.5			
	93.8			
	94.3			
	94.8			
	93.7			
	92.1			
	93.7			
	93.4			

COUNT=	15			
AVG=	94.29			
STD=	1.30			
MAX=	97.5			
MIN=	92.1			
STD-1=	1.35			

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* ***** *
* DISTRICT: 14 COUNTY: TRAVIS HIGHWAY: IH35 FRONTAGE RD *
* TYPE: C COURSE: SURFACE *
* PROJECT: CSB-15-13-200 CONTROL: 0015-13-200 *
* ***** *

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DENSITY INFORMATION
DESIGN AC #DS3

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	93.1	98.2	4.5	1.313	53	6.9	1.8	15.3	10.6	54.8	83.1
6	90.0	99.6	5.1	1.500		10.0	0.4	18.6	9.9	46.3	96.0
7	92.6	98.1	4.6	1.500		7.4	1.9	15.8	10.8	53.2	82.4
9	92.5	98.3	4.7	1.500	47	7.5	1.7	16.0	10.7	53.1	84.2
11	91.5	97.1	4.4	1.875	48	8.5	2.9	16.6	11.5	48.9	74.9
12	92.1	97.0	4.3	1.938	47	7.9	3.0	16.5	12.1	52.2	75.2
13	92.5	97.7	4.8	1.625	50	7.5	2.3	16.6	11.9	54.8	80.7
14	92.2	97.5	4.5	1.750	49	7.8	2.5	16.6	11.8	53.1	78.9
18	92.6	97.9	4.8	1.625	47	7.4	2.1	16.5	11.7	55.2	82.1
19	92.2	97.6	4.7	1.875	49	7.8	2.4	16.8	11.9	53.5	79.9
20	90.0	98.2	4.7	1.750	52	10.0	1.8	18.8	11.4	46.7	84.2
21	90.7	97.4	4.8	1.500	59	9.3	2.6	18.0	12.0	48.4	78.3
26	90.6	98.2	4.6	1.750		9.4	1.8	17.9	11.1	47.6	83.7
27	92.5	98.1	4.9	1.500	52	7.5	1.9	16.5	11.4	54.5	83.4
28	91.8	98.3	4.9	1.500	57	8.2	1.7	17.1	11.3	52.1	84.9

COUNT=	15	15	15	15	12	15	15	15	15	15	15
AVG=	91.79	97.95	4.69	1.633	50.8	8.21	2.05	16.92	11.35	51.64	82.11
STD=	0.97	0.61	0.20	0.175	3.8	0.97	0.61	0.97	0.59	3.04	4.80
MAX=	93.1	99.6	5.1	1.938	59	10.0	3.0	18.8	12.1	55.2	96.0
MIN=	90.0	97.0	4.3	1.313	47	6.9	0.4	15.3	9.9	46.3	74.9
STD-1=	1.00	0.63	0.21	0.181	4.0	1.00	0.63	1.01	0.61	3.15	4.97

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* *****
* DISTRICT: 14 COUNTY: TRAVIS HIGHWAY: IH35 FRONTAGE RD
* TYPE: C COURSE: SURFACE
* PROJECT: CSB-15-13-200 CONTROL: 0015-13-200
* *****

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DENSITY INFORMATION
DESIGN AC #DS3

	Gc/Gl	Gc/Gt ext.	Gc/Gt des.	Gl/Gt ext.	Gl/Gt des.

	94.8	94.6	94.9	99.8	100.1
	90.4	92.2	91.7	102.0	101.5
	94.4	94.2	94.3	99.8	99.9
	94.1	94.2	94.2	100.2	100.2
	94.2	92.8	93.2	98.5	98.9
	94.9	92.7	93.3	97.7	98.2
	94.7	93.8	93.7	99.1	98.9
	94.6	93.1	93.4	98.5	98.7
	94.6	93.9	93.8	99.3	99.1
	94.5	93.4	93.4	98.8	98.8
	91.6	91.1	91.1	99.4	99.4
	93.1	92.2	92.1	99.0	98.9
	92.3	91.8	92.0	99.5	99.7
	94.3	94.2	93.9	99.9	99.6
	93.4	93.4	93.2	100.1	99.8

COUNT=	15	15	15	15	15
AVG=	93.72	93.18	93.20	99.43	99.45
STD=	1.29	0.98	1.02	0.96	0.77
MAX=	94.9	94.6	94.9	102.0	101.5
MIN=	90.4	91.1	91.1	97.7	98.2
STD-1=	1.34	1.01	1.05	0.99	0.79

 * DISTRICT: 14 COUNTY: TRAVIS HIGHWAY: IH 35 *
 * TYPE: A COURSE: LEVEL UP *
 * PROJECT: IR-35-3(128)239 CONTROL: 0015-13-163 *

DENSITY INFORMATION
 DESIGN AC #2

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		97.4	4.2		54		2.6		11.7		77.7
42		98.3	4.7		33		1.7		11.9		85.7
92		97.6	4.5		43		2.4		12.1		80.2
93		97.5	4.5		48		2.5		12.2		79.5
103		97.8	4.1		26		2.2		11.1		80.1
105		98.3	4.4		37		1.7		11.3		84.9
106		97.8	4.5		35		2.2		11.9		81.6
107		98.4	4.4		48		1.6		11.2		85.7
111		96.9	4.3		50		3.1		12.3		74.8
113		97.6	4.3		48		2.4		11.7		79.5
129		98.1	4.6		34		1.9		11.9		84.0
130		97.2	5.0		41		2.8		13.6		79.3
136		97.0	4.3		50		3.0		12.2		75.5
142		97.1	3.9		45		2.9		11.3		74.3
143		97.1	3.9		45		2.9		11.3		74.3
144		97.0	4.0		49		3.0		11.6		74.1
149		97.9	4.4		31		2.1		11.6		81.9
150		97.8	4.5		37		2.2		11.9		81.6
154		97.0	4.7		46		3.0		13.1		77.1
155		97.2	4.2		38		2.8		11.8		76.3
156		98.8	4.4		49		1.2		10.8		88.9
157		97.1	4.0		46		2.9		11.5		74.8
175		99.2	4.4		48		0.8		10.5		92.4
176		98.2	4.2		55		1.8		10.9		83.5
177		98.1	4.3		48		1.9		11.2		83.1
199		97.5	4.7		43		2.5		12.6		80.2
204		96.2	3.9		54		3.8		12.1		68.6
205		96.9	4.1		44		3.1		11.9		73.9
206		98.2	4.4		33		1.8		11.4		84.2
211		95.6	3.9		50		4.4		12.6		65.2
212		95.8	4.2		39		4.2		13.1		67.9
216		96.5	4.3		48		3.5		12.7		72.4
217		96.1	4.2		45		3.9		12.8		69.6
231		96.1	4.3		52		3.9		13.0		70.1
232		95.9	4.1		46		4.1		12.8		68.0
233		95.6	4.0		49		4.4		12.9		65.8
234		96.4	3.9		59		3.6		11.9		69.8

COUNT=		37	37		37		37		37		37
AVG=		97.3	4.3		44		2.7		12.0		77.5
STD=		0.9	0.3		7		0.9		0.7		6.6
MAX=		99.2	5.0		59		4.4		13.6		92.4
MIN=		95.6	3.9		26		0.8		10.5		65.2
STD-1=		0.9	0.3		7		0.9		0.7		6.7

* *****
 * DISTRICT: 14 COUNTY: TRAVIS HIGHWAY: IH 35 *
 * TYPE: A COURSE: LEVEL UP *
 * PROJECT: IR-35-3(128)239 CONTROL: 0015-13-163 *
 * *****

DENSITY INFORMATION
DESIGN AC #2

	Gc/Gt ext.	Gc/Gt des.	G1/Gt ext.	G1/Gt des.

			98.0	98.2
			98.9	98.4
			98.2	97.9
			98.1	97.8
			98.4	98.7
			98.9	98.8
			98.4	98.1
			99.0	98.9
			97.5	97.5
			98.2	98.2
			98.7	98.3
			97.8	96.8
			97.6	97.6
			97.7	98.3
			97.7	98.3
			97.6	98.0
			98.5	98.4
			98.4	98.1
			97.6	97.1
			97.8	98.0
			99.4	99.3
			97.7	98.1
			99.8	99.7
			98.8	99.0
			98.7	98.7
			98.1	97.6
			96.8	97.4
			97.5	97.8
			98.8	98.7
			96.2	96.8
			96.4	96.5
			97.1	97.1
			96.7	96.8
			96.7	96.7
			96.5	96.8
			96.2	96.6
			97.0	97.6

COUNT=			37	37
AVG=			97.9	97.9
STD=			0.9	0.8
MAX=			99.8	99.7
MIN=			96.2	96.5
STD-1=			0.9	0.8

* ***** *
 * DISTRICT: 16 COUNTY: JIM WELL HIGHWAY: US 281 *
 * TYPE: C COURSE: SURFACE *
 * PROJECT: MA F 429(32) CONTROL: 255-2-34 *
 * ***** *

DENSITY INFORMATION
DESIGN AC #4

WORKING DAY	CORE DEN., %	LAB. DEN., %	EXT. AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	94.2	98.0	5.0			36	18388	1380.31	5.8	2.0			
2	93.9	98.0	5.0			40	21482	1461.03	6.1	2.0			
4	94.7	98.0	4.8			41	19809	1521.28	5.3	2.0			
6	93.2	97.9	4.9			53	16619	1237.63	6.8	2.1			
7	94.4	97.9	4.8			44	27266	2233.12	5.6	2.1			
8	93.5	98.0	4.9			49	16953	1362.77	6.5	2.0			
10	94.3	97.8	4.8			54	22920	1815.17	5.7	2.2			
34	94.1	97.9	4.9	1.500		48	18690	1501.49	5.9	2.1			
35	95.7	98.0	4.8	1.500		45	8987	768.69	4.3	2.0			
40	95.2	98.1	4.8	2.000		47	18548	1575.06	4.8	1.9			
41	94.0	98.2	4.9	1.500		50	11662	1045.40	6.0	1.8			
45	93.3	97.7	4.8	1.500		53	14533	1146.18	6.7	2.3			
	95.6	97.7											
46	92.6	97.8	4.8	1.500		49	29232	2011.65	7.4	2.2			
COUNT=	14	14	13	6	13	13	13	13	13	13			
AVG=	94.19	97.93	4.86	1.583	46.8	18853.0	1466.14	5.92	2.05				
STD=	0.87	0.14	0.07	0.186	5.2	5403.1	378.25	0.80	0.13				
MAX=	95.7	98.2	5.0	2.000	54	29232	2233.12	7.4	2.3				
MIN=	92.6	97.7	4.8	1.500	36	8987	768.69	4.3	1.8				
STD-1=	0.90	0.14	0.08	0.204	5.5	5623.7	393.69	0.84	0.13				

```

*****
* DISTRICT: 16 COUNTY: JIM WELL HIGHWAY: US 281 *
* TYPE: C COURSE: SURFACE *
* PROJECT: MA F 429(32) CONTROL: 255-2-34 *
*****

```

DENSITY INFORMATION
DESIGN AC #4

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```

```

*****
* DISTRICT: 16 COUNTY: JIM WELL HIGHWAY: US 281 *
* TYPE: C COURSE: SURFACE *
* PROJECT: MA F 429(32) CONTROL: 255-2-34 *
*****

```

DENSITY INFORMATION
DESIGN AC #6

WORKING DAY	CORE DEN., %	LAB. DEN., %	EXT. AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
48	93.1	97.9	4.8	1.500		18212	1234.21	6.9	2.1				
49	92.7	98.1	4.8	1.500		31034	2170.79	7.3	1.9				
52	92.4	98.3	5.0	1.750		12358	895.57	7.6	1.7				
53	92.0	97.9	4.9	2.000		8076	641.10	8.0	2.1				
54	92.5	98.1	4.9	1.625		9604	788.10	7.5	1.9				
55	92.2	98.1	4.8	1.250		9066	676.70	7.8	1.9				
56	92.1	98.3	4.9	1.750		3560	284.19	7.9	1.7				

COUNT=	7	7	7	7		7	7	7	7				
AVG=	92.43	98.10	4.87	1.625		13130.0	955.81	7.57	1.90				
STD=	0.35	0.15	0.07	0.222		8392.6	562.32	0.35	0.15				
MAX=	93.1	98.3	5.0	2.000		31034	2170.79	8.0	2.1				
MIN=	92.0	97.9	4.8	1.250		3560	284.19	6.9	1.7				
STD-1=	0.38	0.16	0.08	0.239		9065.1	607.38	0.38	0.16				

```

*****
* DISTRICT: 16 COUNTY: JIM WELL HIGHWAY: US 281 *
* TYPE: C COURSE: SURFACE *
* PROJECT: MA F 429(32) CONTROL: 255-2-34 *
*****

```

DENSITY INFORMATION
DESIGN AC #6

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```

* *****
 * DISTRICT: 16 COUNTY: NUECES HIGHWAY: SH 44 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CSR102-2-68 CONTROL: 373-2-66 *
 * *****

DENSITY INFORMATION
DESIGN AC #DS1

WORKING DAY	CORE DEN., %	LAB. DEN., %	% AC	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	94.8	96.5	4.7	1.500	43	5.2	3.5				
3	93.7	96.3	4.8	1.625	45	6.3	3.7				
4	93.8	96.8	4.7	2.250	45	6.2	3.2				
5	93.6	96.6	4.8	1.000	50	6.4	3.4				
6	92.3	96.6	4.8	1.500	58	7.7	3.4				
8	91.2	96.8	5.0	1.500	44	8.8	3.2				
11	94.8	96.5	4.7	1.500	43	5.2	3.5				
22	95.6	97.0	4.7	1.500	49	4.4	3.0				
23	92.2	97.0	4.7	0.750	42	7.8	3.0				
24	94.8	97.2	4.9	1.250	41	5.2	2.8				
COUNT=	10	10	10	10	10	10	10				
AVG=	93.68	96.73	4.76	1.438	46.0	6.32	3.27				
STD=	1.33	0.26	0.09	0.376	4.8	1.33	0.26				
MAX=	95.6	97.2	5.0	2.250	58	8.8	3.7				
MIN=	91.2	96.3	4.7	0.750	41	4.4	2.8				
STD-1=	1.40	0.28	0.10	0.396	5.1	1.40	0.28				

```

* *****
* DISTRICT:    16 COUNTY: NUECES          HIGHWAY: SH 44      *
*   TYPE: D    COURSE: SURFACE           *
* PROJECT: CSR102-2-68                   CONTROL: 373-2-66  *
* *****

```

DENSITY INFORMATION
DESIGN AC #DS1

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```



```

*****
* DISTRICT:      16 DISTRICT:REFUGIO      HIGHWAY: FM 2678      *
*   TYPE: D      COURSE: LEVEL-UP        *
* PROJECT: SR 2753(2)      CONTROL: 155-6-11      *
*****

```

DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		96.6	5.2		41	24687	1848.70		3.4				
2		97.2	5.3		46	29056	2005.30		2.8				
7		97.0	5.2		40	21000	1592.60		3.0				
8		97.1	5.4		39	24035	1931.90		2.9				
9		97.3	5.2		40	19060	1339.10		2.7				
10		97.4	5.5		39	7147	509.60		2.6				
COUNT=		6	6		6	6	6		6				
AVG=		97.10	5.30		40.8	20830.8	1537.87		2.90				
STD=		0.26	0.12		2.4	6870.2	511.57		0.26				
MAX=		97.4	5.5		46	29056	2005.30		3.4				
MIN=		96.6	5.2		39	7147	509.60		2.6				
STD-1=		0.28	0.13		2.6	7526.0	560.39		0.28				

```

* *****
* DISTRICT:      16 DISTRICT:REFUGIO      HIGHWAY: FM 2678      *
*   TYPE: D      COURSE: LEVEL-UP        *
* PROJECT: SR 2753(2)      CONTROL: 155-6-11      *
* *****

```

```

DENSITY INFORMATION
DESIGN AC

```

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```

```

* *****
* DISTRICT:      16 DISTRICT:REFUGIO          HIGHWAY: US 77
*   TYPE: B      COURSE: BASE
* PROJECT: MA-F1100(10)          CONTROL: 371-3-80
* *****

```

DENSITY INFORMATION

DESIGN AC #1

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	95.0	96.9	4.9	3.560	39	5.0	3.1				
4	92.9	97.0	4.9	3.500	37	7.1	3.0				
5	93.2	96.5	4.8	2.560	39	6.8	3.5				
6	94.5	96.7	4.9	3.313	40	5.5	3.3				
7	94.8	96.5	4.8	2.938	40	5.2	3.5				
11	95.1	96.6	4.8	3.000	40	4.9	3.4				
12	94.2	96.3	4.8	3.500	39	5.8	3.7				
15	94.1	96.8	4.7	3.250	35	5.9	3.2				
16	93.3	97.1	4.9	3.250	35	6.7	2.9				
18	94.6	96.8	4.8	3.375	34	5.4	3.2				
21	93.4	96.2	4.7	3.125	40	6.6	3.8				
22	93.9	95.9	4.6	2.938	40	6.1	4.1				
25	96.7	96.2	4.7	3.000	36	3.3	3.8				
27	94.2	96.1	4.7	2.563	37	5.8	3.9				

COUNT=	14	14	14	14	14	14	14				
AVG=	94.28	96.54	4.79	3.134	37.9	5.72	3.46				
STD=	0.94	0.35	0.09	0.309	2.1	0.94	0.35				
MAX=	96.7	97.1	4.9	3.560	40	7.1	4.1				
MIN=	92.9	95.9	4.6	2.560	34	3.3	2.9				
STD-1=	0.98	0.36	0.09	0.321	2.2	0.98	0.36				

```

*****
* DISTRICT:      16 DISTRICT:REFUGIO      HIGHWAY: US 77      *
*   TYPE: B      COURSE: BASE              *
* PROJECT: MA-F1100(10)      CONTROL: 371-3-80      *
*****

```

DENSITY INFORMATION
DESIGN AC #1

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```

```

* *****
* DISTRICT:      16 DISTRICT:REFUGIO      HIGHWAY: US 77
*   TYPE: B      COURSE: BASE
* PROJECT: MA-F1100(10)      CONTROL: 371-3-80
* *****

```

DENSITY INFORMATION
DESIGN AC #3D

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
28	93.6	96.0	4.7	2.750	42	6.4	4.0				
29	94.1	96.2	4.8	3.000	40	5.9	3.8				
33	93.0	95.8	4.7	3.000	47	7.0	4.2				
34	93.7	96.0	4.7	3.000	42	6.3	4.0				
35	93.2	96.0	4.7	3.063	38	6.8	4.0				
36	93.8	96.0	4.6	3.313	41	6.2	4.0				
39	94.0	96.1	4.7	3.063	42	6.0	3.9				
54	94.9	96.0	4.6	3.375	41	5.1	4.0				
55	94.3	96.5	4.6	2.688	38	5.7	3.5				
81	94.0	96.5	4.7	3.000	39	6.0	3.5				

COUNT=	10	10	10	10	10	10	10				
AVG=	93.86	96.11	4.68	3.025	41.0	6.14	3.89				
STD=	0.51	0.22	0.06	0.200	2.5	0.51	0.22				
MAX=	94.9	96.5	4.8	3.375	47	7.0	4.2				
MIN=	93.0	95.8	4.6	2.688	38	5.1	3.5				
STD-1=	0.54	0.23	0.06	0.211	2.6	0.54	0.23				

```

* *****
* DISTRICT:      16 DISTRICT:REFUGIO      HIGHWAY: US 77
*   TYPE: B      COURSE: BASE
* PROJECT: MA-F1100(10)      CONTROL: 371-3-80
* *****

```

DENSITY INFORMATION

DESIGN AC #3D

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```

```

*****
* DISTRICT: 16 DISTRICT:REFUGIO HIGHWAY: US 77 *
* TYPE: D COURSE: LEVEL-UP *
* PROJECT: MA-F1100(10) CONTROL: 371-3-80 *
*****

```

DENSITY INFORMATION
DESIGN AC #1

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		96.8	5.2		37	32533	1129.90		3.2				
2		96.5	5.4		38	30800	1043.30		3.5				
3		96.9	5.3		37	25439	1165.80		3.1				
6		96.5	5.3		38	19822	1128.90		3.5				
7		96.8	5.3		40	35688	1905.70		3.2				
8		96.5	5.3		43	36489	1684.80		3.5				
9		96.4	5.3		36	21211	865.20		3.6				
COUNT=		7	7		7	7	7		7				
AVG=		96.63	5.30		38.4	28854.6	1274.80		3.37				
STD=		0.18	0.05		2.2	6256.1	346.75		0.18				
MAX=		96.9	5.4		43	36489	1905.70		3.6				
MIN=		96.4	5.2		36	19822	865.20		3.1				
STD-1=		0.20	0.06		2.4	6757.4	374.54		0.20				

```

* *****
* DISTRICT:      16 DISTRICT:REFUGIO      HIGHWAY: US 77
*   TYPE: D      COURSE: LEVEL-UP
* PROJECT: MA-F1100(10)      CONTROL: 371-3-80
* *****

```

DENSITY INFORMATION
DESIGN AC #1

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```



```

*****
* DISTRICT:      16 DISTRICT:REFUGIO      HIGHWAY: US 77      *
*   TYPE: D      COURSE: SURFACE          *
* PROJECT: MA-F1100(10)      CONTROL: 371-3-80      *
*****

```

DENSITY INFORMATION

DESIGN AC #1A

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	92.7	96.9	5.1	1.750	40	7.3	3.1				
		98.1	5.6		40		1.9				
2	92.6	97.5	5.3	2.000	50	7.4	2.5				
5		97.3	5.6				2.7				
7	93.9	96.9	5.6	1.313	49	6.1	3.1				
8	92.6	97.5	5.5	1.438	46	7.4	2.5				
9	93.3	97.1	5.5	1.500	47	6.7	2.9				
12	93.0	96.7	5.5	1.125	45	7.0	3.3				
15	93.4	97.7	5.5	2.000	47	6.6	2.3				
16	93.5	97.1	5.5	2.000	50	6.5	2.9				
COUNT=	8	10	10	8	9	8	10				
AVG=	93.13	97.28	5.47	1.641	46.0	6.88	2.72				
STD=	0.45	0.40	0.15	0.323	3.6	0.45	0.40				
MAX=	93.9	98.1	5.6	2.000	50	7.4	3.3				
MIN=	92.6	96.7	5.1	1.125	40	6.1	1.9				
STD-1=	0.48	0.43	0.16	0.345	3.8	0.48	0.43				

```

* *****
* DISTRICT:      16 DISTRICT:REFUGIO      HIGHWAY: US 77      *
*   TYPE: D      COURSE: SURFACE          *
* PROJECT: MA-F1100(10)      CONTROL: 371-3-80      *
* *****

```

DENSITY INFORMATION
DESIGN AC #1A

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```

```

* ***** *
* DISTRICT:      16 COUNTY: SAN PATRICIO    HIGHWAY: US 181      *
*   TYPE: B      COURSE: BASE                *
* PROJECT: MA-F 180(16)                     CONTROL: 101-4-61    *
* ***** *

```

DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	95.4	97.2 96.0	4.6	3.125	32	4.6	2.8 4.0				
2	96.0	97.5	4.8	3.125	50	4.0	2.5				
5	95.8	97.7	4.5	3.125	35	4.2	2.3				
6	95.1	97.5	4.4	3.000	43	4.9	2.5				
7	95.2	97.7	4.7	3.000	46	4.8	2.3				
8	94.1	98.1	4.5	3.063	43	5.9	1.9				
9	94.4	97.9	4.5	3.500	50	5.6	2.1				
12	90.3	97.9	4.4	2.500	39	9.7	2.1				
13	93.7	97.5	4.6	2.875	34	6.3	2.5				
14	94.9	97.8	4.4	2.875	40	5.1	2.2				
23		97.5	4.4	3.000	47		2.5				
	95.0	97.7	4.5	3.000	44	5.0					
29	96.6	96.8	4.8	3.688	34	3.4	3.2				
30	95.8	96.9	4.5	3.375	43	4.2	3.1				
34	96.0	96.7	4.5	3.500	38	4.0	3.3				
35	96.5	96.9	4.5	3.563	33	3.5	3.1				
43	96.0	96.4	4.2	3.000	38	4.0	3.6				

COUNT=	16	18	17	17	17	16	17				
AVG=	95.05	97.32	4.52	3.136	40.5	4.95	2.71				
STD=	1.46	0.56	0.15	0.292	5.6	1.46	0.57				
MAX=	96.6	98.1	4.8	3.688	50	9.7	4.0				
MIN=	90.3	96.0	4.2	2.500	32	3.4	1.9				
STD-1=	1.51	0.58	0.15	0.301	5.8	1.51	0.59				

```

* *****
* DISTRICT:      16 COUNTY: SAN PATRICIO      HIGHWAY: US 181      *
*   TYPE: B          COURSE: BASE              *
* PROJECT: MA-F 180(16)          CONTROL: 101-4-61      *
* *****

```

DENSITY INFORMATION
DESIGN AC

	Gc/Gt	Gc/Gt	Gl/Gt	Gl/Gt
Gc/Gl	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```

```

* ***** *
* DISTRICT: 16 COUNTY: SAN PATRICIO HIGHWAY: US 181 *
* TYPE: D COURSE: SURFACE *
* PROJECT: MA-F 180(16) CONTROL: 101-4-61 *
* ***** *

```

DENSITY INFORMATION
DESIGN AC #5D

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	93.9	98.2	5.0	2.000	47	6.1	1.8				
2	94.3	97.4	5.0	1.250	41	5.7	2.6				
4	94.0	97.4	5.0	1.313	43	6.0	2.6				
5	94.0	97.4	5.0	1.750	41	6.0	2.6				
6	94.2	97.4	5.0	1.313	39	5.8	2.6				
8	94.3	97.4	5.0	1.438	35	5.7	2.6				
11	94.0	97.4	5.0	2.000	34	6.0	2.6				
12	94.3	97.4	5.0	1.750	41	5.7	2.6				

COUNT=	8	8	8	8	8	8	8				
AVG=	94.13	97.50	5.00	1.602	40.1	5.88	2.50				
STD=	0.16	0.26	0.00	0.291	3.9	0.16	0.26				
MAX=	94.3	98.2	5.0	2.000	47	6.1	2.6				
MIN=	93.9	97.4	5.0	1.250	34	5.7	1.8				
STD-1=	0.17	0.28	0.00	0.311	4.2	0.17	0.28				

```

*****
* DISTRICT:      16 COUNTY: SAN PATRICIO      HIGHWAY: US 181      *
*   TYPE: D      COURSE: SURFACE              *
* PROJECT: MA-F 180(16)                      CONTROL: 101-4-61   *
*****

```

DENSITY INFORMATION
DESIGN AC #5D

	Gc/Gt	Gc/Gt	Gl/Gt	Gl/Gt
Gc/Gl	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```

```

*****
* DISTRICT:      17 DISTRICT:BRAZOS          HIGHWAY: FM 2818      *
*   TYPE: D      COURSE: SURFACE            *
* PROJECT: MJ 0000(1)                       CONTROL: 2399-01-021  *
*****

```

DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		96.8	5.6	1.750	54		3.2				
3		96.5	5.5	1.875	55		3.5				
12		95.7	5.8	1.500	48		4.3				
13		94.7	6.2	1.750	47		5.3				
14		95.4	5.6	1.500	50		4.6				
17		95.1	6.0	1.750	46		4.9				
27		96.5	5.9	1.500	47		3.5				
28		96.7	5.9	2.000	40		3.3				
32		94.9	5.1	1.750	52		5.1				
33		96.7	6.2	1.500	52		3.3				

COUNT=		10	10	10	10		10				
AVG=		95.90	5.78	1.688	49.1		4.10				
STD=		0.79	0.32	0.170	4.2		0.79				
MAX=		96.8	6.2	2.000	55		5.3				
MIN=		94.7	5.1	1.500	40		3.2				
STD-1=		0.83	0.34	0.179	4.5		0.83				

```

* *****
* DISTRICT:      17 DISTRICT: BRAZOS           HIGHWAY: FM 2818
*   TYPE: D      COURSE: SURFACE
* PROJECT: MJ 0000(1)           CONTROL: 2399-01-021
* *****

```

DENSITY INFORMATION

DESIGN AC

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```

 * DISTRICT: 17 COUNTY: BRAZOS HIGHWAY: SH 21 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CSR116-4-72 CONTROL: 0116-04-072 *

DENSITY INFORMATION
 DESIGN AC #1

WORKING DAY	CORE DEN., %	LAB. DEN., %	% AC	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		96.1	5.3			7881	783.45		3.9				
2	89.0	97.4	5.7			7650	818.24	11.0	2.6				
	88.8							11.2					
4		97.6	5.7			2645	213.39		2.4				
7		97.3	5.8		56	14384	1216.10		2.7				
10		98.0	5.3		49	13493	1206.73		2.0				
14		97.7	5.6		48	2250	220.28		2.3				
15		96.8	5.9		55	5525	460.89		3.2				
16		97.0	6.1		53	9382	881.89		3.0				
17		96.4	5.8		52	10041	882.84		3.6				
18		96.6	5.8		59	8382	874.44		3.4				

COUNT=	2	10	10		7	10	10	2	10				
AVG=	88.90	97.09	5.70		53.1	8163.3	755.83	11.10	2.91				
STD=	0.10	0.58	0.24		3.6	3806.4	336.74	0.10	0.58				
MAX=	89.0	98.0	6.1		59	14384	1216.10	11.2	3.9				
MIN=	88.8	96.1	5.3		48	2250	213.39	11.0	2.0				
STD-1=	0.14	0.61	0.25		3.9	4012.3	354.96	0.14	0.61				

```

*****
* DISTRICT:      17 COUNTY: BRAZOS                HIGHWAY: SH 21      *
*   TYPE: D      COURSE: SURFACE                  *
* PROJECT: CSR116-4-72                          CONTROL: 0116-04-072 *
*****

```

DENSITY INFORMATION
DESIGN AC #1

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```

* ***** *
 * DISTRICT: 17 COUNTY: BURLESON HIGHWAY: SH 21 *
 * TYPE: B COURSE: SURFACE & *
 * PROJECT: F620(24) LEVEL UP CONTROL: 0116-03-042 *
 * ***** *

DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	LAB. DEN., %	EXT. AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		95.3	5.9		54	4994	800.93		4.7				
2		96.0	5.7		53	10338	1797.39		4.0				
6		97.2	5.7		39	10661	1878.76		2.8				
7		97.2	5.8		46	13702	1974.33		2.8				
8		96.9	5.5		29	6460	1070.92		3.1				
9		96.4	5.4		52	11545	1828.36		3.6				
13		96.2	5.4		49	4522	815.01		3.8				
14		97.0	5.5		39	5253	732.54		3.0				
15		97.2	5.4		53	11290	1754.13		2.8				
19		97.1	5.7		28	2149	328.66		2.9				
21		96.7			53				3.3				
22		96.9	5.9		38	5102	772.82		3.1				
26		96.8	5.5			1704	280.38		3.2				
28		97.0	5.3		46	1373	252.23		3.0				
29		97.1	5.5		50	640	183.67		2.9				
30		97.6	5.4		41	453	54.57		2.4				
34		97.1	5.2			733	97.58		2.9				
35		96.9	5.4		48	1373	169.12		3.1				
	89.5				3.750				10.5				
	93.1				3.500				6.9				
	94.3				3.250				5.7				
	90.4				3.000				9.6				
	94.1				3.250				5.9				
	94.9				3.000				5.1				
	93.1				3.125				6.9				
	93.3				3.000				6.7				
	93.0				3.250				7.0				
	92.8				3.000				7.2				
	92.0				3.000				8.0				
	94.1				3.000				5.9				
	95.1				3.125				4.9				
	93.7				3.000				6.3				
	94.8				3.125				5.2				
	94.8				3.000				5.2				
	93.6				2.875				6.4				
	93.9				3.000				6.1				
	94.2				3.375				5.8				
	95.0				3.000				5.0				
	92.7				3.000				7.3				

```

* ***** *
* DISTRICT: 17 COUNTY: BURLESON HIGHWAY: SH 21 *
* TYPE: B COURSE: SURFACE & *
* PROJECT: F620(24) LEVEL UP CONTROL: 0116-03-042 *
* ***** *

```

DENSITY INFORMATION

DESIGN AC

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

* ***** *
 * DISTRICT: 17 COUNTY: BURLESON HIGHWAY: SH 21 *
 * TYPE: B COURSE: SURFACE & *
 * PROJECT: F620(24) LEVEL UP CONTROL: 0116-03-042 *
 * ***** *

DENSITY INFORMATION (cont.)
 DESIGN AC

WORKING DAY	CORE DEN., %	LAB. DEN., %	EXT. AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
	94.1			4.000				5.9					
	95.4			3.500				4.6					
	94.0			3.000				6.0					
	91.6			2.625				8.4					
	94.5			3.000				5.5					
	94.2			3.250				5.8					
	92.6			3.000				7.4					
	91.8			2.625				8.2					
	93.9			3.250				6.1					
	92.7			3.250				7.3					
	92.2			3.250				7.8					
	93.8			3.000				6.2					
	93.0			3.000				7.0					
	94.4			2.500				5.6					
	94.6			3.125				5.4					
	94.9			3.000				5.1					
	95.5			3.000				4.5					
	92.3			3.250				7.7					
	93.2			3.125				6.8					
	93.0			3.250				7.0					
	92.9			3.250				7.1					
	89.0			1.875				11.0					
	89.9			2.250				10.1					
	91.8			2.000				8.2					
	92.1			2.000				7.9					
	91.5			2.500				8.5					
	93.1			3.125				6.9					
	94.1			3.250				5.9					

COUNT=	49	18	17	49	16	17	17	49	18
AVG=	93.23	96.81	5.54	3.018	44.9	5428.9	870.08	6.77	3.19
STD=	1.48	0.52	0.20	0.394	8.1	4346.4	691.12	1.48	0.52
MAX=	95.5	97.6	5.9	4.000	54	13702	1974.33	11.0	4.7
MIN=	89.0	95.3	5.2	1.875	28	453	54.57	4.5	2.4
STD-1=	1.49	0.54	0.21	0.398	8.4	4480.2	712.39	1.49	0.54

```

* *****
* DISTRICT:      17 COUNTY: BURLESON      HIGHWAY: SH 21
*   TYPE: B      COURSE: SURFACE &
* PROJECT: F620(24)      LEVEL UP      CONTROL: 0116-03-042
* *****

```

DENSITY INFORMATION (cont.)
DESIGN AC

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```

```

* ***** *
* DISTRICT: 17 DISTRICT: BURLESON HIGHWAY: SH 36 *
* TYPE: D COURSE: SURFACE *
* PROJECT: MAF 628 (10) CONTROL: 0186-04-019 *
* ***** *

```

DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		96.1	5.5		53	7141	638.01		3.9				
2		96.9	5.5		47	20710	1291.90		3.1				
3		96.4	5.7		52	12571	941.19		3.6				
6		95.9	5.3		50	13615	1029.16		4.1				
7		96.5	5.8		53	14530	1004.84		3.5				
8		96.1	5.5		53	446	39.79		3.9				
	92.3			1.625				7.7					
	92.6			1.500				7.4					
	94.8			1.750				5.2					
	93.9			1.375				6.1					
	92.4			1.625				7.6					
	92.7			1.375				7.3					
	93.2			1.500				6.8					
	93.1			1.500				6.9					
	94.6			1.500				5.4					
COUNT=	9	6	6	9	6	6	6	9	6				
AVG=	93.29	96.32	5.55	1.528	51.3	11502.2	824.15	6.71	3.68				
STD=	0.88	0.33	0.16	0.115	2.2	6335.4	399.38	0.88	0.33				
MAX=	94.8	96.9	5.8	1.750	53	20710	1291.90	7.7	4.1				
MIN=	92.3	95.9	5.3	1.375	47	446	39.79	5.2	3.1				
STD-1=	0.94	0.36	0.18	0.121	2.4	6940.1	437.50	0.94	0.36				

```

*****
* DISTRICT:      17 DISTRICT: BURLESON      HIGHWAY: SH 36      *
* TYPE: D        COURSE: SURFACE           *
* PROJECT: MAF 628 (10)                   CONTROL: 0186-04-019 *
*****

```

DENSITY INFORMATION
DESIGN AC

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```



```

*****
* DISTRICT:      17 DISTRICT:BURLESON      HIGHWAY: SH 36      *
* TYPE: B        COURSE: SURFACE          *
* PROJECT: MAF 628 (10)                   CONTROL: 0186-04-019 *
*****

```

DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	92.8	97.2	5.5	2.253	45	11580	1345.87	7.2	2.8				
	94.3	97.2						5.7	2.8				
	95.7	97.4						4.3	2.6				
2	91.7	96.8	5.7	3.067	42	4607	717.97	8.3	3.2				
	94.4	96.4						5.6	3.6				
3	95.3	97.0	5.4	2.136	45	5093	577.03	4.7	3.0				
4			5.3		48	6800	837.00						
7			5.9		50	8724	1125.33						
8			5.2		54	7172	897.83						
9			5.5			515	75.94						
	90.8		5.5					9.2					
	95.6		5.5					4.4					
	97.9		5.5					2.1					
	97.6		5.5					2.4					
	95.5		5.5					4.5					
	98.0		5.5					2.0					
	95.9		5.5					4.1					
	96.8		5.5					3.2					
	94.8		5.5					5.2					
	97.6		5.5					2.4					
	96.1		5.5					3.9					
	96.6		5.5					3.4					
	95.6		5.5					4.4					
	96.5		5.5					3.5					
COUNT=	20	6	21	3	6	7	7	20	6				
AVG=	95.48	97.00	5.50	2.485	47.3	6355.9	796.71	4.53	3.00				
STD=	1.90	0.33	0.13	0.414	3.9	3219.0	377.09	1.90	0.33				
MAX=	98.0	97.4	5.9	3.067	54	11580	1345.87	9.2	3.6				
MIN=	90.8	96.4	5.2	2.136	42	515	75.94	2.0	2.6				
STD-1=	1.95	0.36	0.13	0.507	4.3	3476.9	407.31	1.95	0.36				

```

*****
* DISTRICT:      17 DISTRICT: BURLESON      HIGHWAY: SH 36      *
*   TYPE: B      COURSE: SURFACE           *
* PROJECT: MAF 628 (10)                     CONTROL: 0186-04-019 *
*****

```

DENSITY INFORMATION
DESIGN AC

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.
95.5				
97.0				
98.3				
94.7				
97.9				
98.2				

```

*****
COUNT=      6
AVG=         96.9
STD=         1.38
MAX=         98.3
MIN=         94.7
STD-1=       1.51
*****

```

* ***** *
 * DISTRICT: 17 DISTRICT:GRIMES HIGHWAY: SH 105 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: MMC 315-4-44 CONTROL: 0315-04-044 *
 * ***** *

DENSITY INFORMATION
DESIGN AC #HMAC-07

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		97.7	5.0		43	19447	1112.64		2.3				
2		96.8	5.1		45	12247	762.65		3.2				
3		97.3	5.7		38	12817	666.52		2.7				
6		96.3	4.3		51	11824	686.27		3.7				
7		95.1	4.5		56	6569	466.67		4.9				
	92.7			1.000				7.3					
	95.2			1.250				4.8					
	93.2			1.000				6.8					
	94.0			1.375				6.0					
	96.0			1.500				4.0					
	93.9			1.125				6.1					
	94.9			1.625				5.1					
	93.1			1.000				6.9					
COUNT=	8	5	5	8	5	5	5	8	5				
AVG=	94.13	96.64	4.92	1.234	46.6	12580.9	738.95	5.87	3.36				
STD=	1.08	0.90	0.49	0.229	6.3	4099.5	210.89	1.08	0.90				
MAX=	96.0	97.7	5.7	1.625	56	19447	1112.64	7.3	4.9				
MIN=	92.7	95.1	4.3	1.000	38	6569	466.67	4.0	2.3				
STD-1=	1.15	1.01	0.55	0.245	7.0	4583.4	235.78	1.15	1.01				

```

*****
* DISTRICT:      17 DISTRICT:GRIMES          HIGHWAY: SH 105      *
*   TYPE: D      COURSE: SURFACE             *
* PROJECT: MMC 315-4-44                      CONTROL: 0315-04-044 *
*****

```

DENSITY INFORMATION
DESIGN AC #HMAC-07

	Gc/Gt	Gc/Gt	Gl/Gt	Gl/Gt
Gc/Gl	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```

```

*****
* DISTRICT:    17 COUNTY: GRIMES, ETC.    HIGHWAY: SH 6, ETC.    *
*   TYPE: D    COURSE: SURFACE            *
* PROJECT: CD50-3-59 ETC                  CONTROL: 114-10-62    *
*****

```

DENSITY INFORMATION
DESIGN AC #5

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		97.0	5.9	1.604	58	22502	1825.36	8.5	3.0				
2		96.6	5.4	1.620	62	7060	590.63	7.2	3.4				
8		97.3	6.1	1.413	58	13979	989.87	9.1	2.7				
15		97.9	5.9	1.351	51	30619	2099.21	8.2	2.1				
16		97.2	5.6	1.659	60	11765	992.32	8.4	2.8				
17		97.5	5.7	1.460	65	8912	649.25	10.0	2.5				
18		97.3	5.7	1.572	56	21702	1744.22	7.8	2.7				
COUNT=		7	7	7	7	7	7	7	7				
AVG=		97.26	5.76	1.526	58.6	16648.4	1270.12	8.46	2.74				
STD=		0.37	0.21	0.108	4.1	7907.9	563.58	0.83	0.37				
MAX=		97.9	6.1	1.659	65	30619	2099.21	10.0	3.4				
MIN=		96.6	5.4	1.351	51	7060	590.63	7.2	2.1				
STD-1=		0.40	0.23	0.117	4.5	8541.5	608.74	0.90	0.40				

```

* *****
* DISTRICT:      17 COUNTY: GRIMES, ETC.    HIGHWAY: SH 6, ETC.      *
*   TYPE: D      COURSE: SURFACE            *
* PROJECT: CD50-3-59 ETC                    CONTROL: 114-10-62      *
* *****

```

DENSITY INFORMATION
DESIGN AC #5

Gc/Gl	Gc/Gt		Gl/Gt	
	ext.	des.	ext.	des.
94.3				
96.1				
93.4				
93.8				
94.2				
92.3				
94.8				

COUNT=	7			
AVG=	94.13			
STD=	1.08			
MAX=	96.1			
MIN=	92.3			
STD-1=	1.17			

```

*****
* DISTRICT: 17 COUNTY: GRIMES, ETC. HIGHWAY: SH 6, ETC. *
* TYPE: D COURSE: SURFACE *
* PROJECT: CD50-3-59 ETC CONTROL: 114-10-62 *
*****

```

DENSITY INFORMATION
DESIGN AC #7

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
23		95.3	5.7	1.388	60	12165	873.06	6.7	4.7				
24		96.7	5.5	1.578	67	16980	1327.21	10.9	3.3				
25		94.9	5.6	1.629	60	16760	1398.86	7.7	5.1				
29		96.0	5.4	1.472	56	18860	1403.54	9.2	4.0				
	91.5			1.875									
	92.8			1.500									
	90.9			1.875									
	91.8			1.875									
	91.6			1.500									
	90.0			1.625									
	92.2			1.500									
	93.0			1.750									
	90.0			1.625									
	93.3			2.000									
	89.1			1.000									
	92.3			1.250									
	90.8			1.000									
	88.5			1.000									
	91.3			1.500									
	90.8			1.500									
	90.3			1.250									
COUNT=	17	4	4	21	4	4	4	4	4				
AVG=	91.19	95.73	5.55	1.509	60.8	16191.3	1250.67	8.63	4.27				
STD=	1.30	0.69	0.11	0.282	4.0	2463.5	220.10	1.59	0.69				
MAX=	93.3	96.7	5.7	2.000	67	18860	1403.54	10.9	5.1				
MIN=	88.5	94.9	5.4	1.000	56	12165	873.06	6.7	3.3				
STD-1=	1.34	0.79	0.13	0.289	4.6	2844.6	254.15	1.83	0.79				

```

*****
* DISTRICT:    17 COUNTY: GRIMES, ETC.    HIGHWAY: SH 6, ETC.    *
*   TYPE: D    COURSE: SURFACE            *
* PROJECT: CD50-3-59 ETC                CONTROL: 114-10-62    *
*****

```

DENSITY INFORMATION
DESIGN AC #7

Gc/Gl	Gc/Gt ext.	Gc/Gt des.	Gl/Gt ext.	Gl/Gt des.
97.9				
92.1				
97.3				
94.6				

```

*****
COUNT=      4
AVG=        95.47
STD=        2.29
MAX=        97.9
MIN=        92.1
STD-1=      2.64
*****

```

 * DISTRICT: 17 COUNTY: WASHINGTON HIGHWAY: US 290 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: F 236(21) CONTROL: 0114-09-046 *

DENSITY INFORMATION
DESIGN AC #1

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	95.0	96.5	4.3	1.250	47	6967	547.14	5.0	3.5				
2	95.3	95.6	4.3	1.500	54	6600	526.25	4.7	4.4				
3	94.8	97.4	4.2	1.125	55	11761	805.43	5.2	2.6				
	94.1			1.250				5.9					
5		97.2	4.3		48	2074	197.14		2.8				
9		96.7	4.3		55	87	773.99		3.3				
10		96.9	4.3		55	3684	377.77		3.1				
11		96.2	4.1		56	7005	595.35		3.8				
14		97.5	4.2		48	7996	698.03		2.5				
	93.8			2.250				6.2					
	95.9			2.375				4.1					
	96.2			2.500				3.8					
	95.3			1.500				4.7					
	94.0			1.250				6.0					
COUNT=	9	8	8	9	8	8	8	9	8				
AVG=	94.93	96.75	4.25	1.667	52.3	5771.8	565.14	5.07	3.25				
STD=	0.79	0.60	0.07	0.517	3.6	3442.4	191.15	0.79	0.60				
MAX=	96.2	97.5	4.3	2.500	56	11761	805.43	6.2	4.4				
MIN=	93.8	95.6	4.1	1.125	47	87	197.14	3.8	2.5				
STD-1=	0.84	0.64	0.08	0.548	3.8	3680.0	204.34	0.84	0.64				

```

*****
* DISTRICT:      17 COUNTY: WASHINGTON      HIGHWAY: US 290      *
*   TYPE: D      COURSE: SURFACE          *
* PROJECT: F 236(21)          CONTROL: 0114-09-046      *
*****

```

DENSITY INFORMATION
DESIGN AC #1

Gc/Gl	Gc/Gt		G1/Gt	
	ext.	des.	ext.	des.
98.4				
99.7				
97.3				

```

*****
COUNT=      3
AVG=      98.49
STD=      0.96
MAX=      99.7
MIN=      97.3
STD-1=      1.18
*****

```

 * DISTRICT: 17 COUNTY: WASHINGTON HIGHWAY: US 290 *
 * TYPE: B COURSE: BASE *
 * PROJECT: F 236(21) CONTROL: 0114-09-046 *

DENSITY INFORMATION
 DESIGN AC #7

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	92.0	96.0	3.6	4.500	50	8.0	4.0				
	95.1			2.250		4.9					
3	95.5	96.2	3.8	3.125	54	4.5	3.8				
	94.5			3.875		5.5					
7	94.7	96.1	3.7	3.375	40	5.3	3.9				
8	95.0	96.2	3.7	4.000	43	5.0	3.8				
9	93.8	96.3	3.5	2.625	43	6.2	3.7				
10	94.9	96.7	3.7	3.000	39	5.1	3.3				
11	94.7	96.4	3.7	1.875	55	5.3	3.6				
14	92.9	97.0	3.6	3.000	45	7.1	3.0				
	92.0			1.500		8.0					
	92.0			1.750		8.0					
15	96.9	96.7	3.6	2.875	52	3.1	3.3				
	94.9			2.000		5.1					
	94.4			2.500		5.6					
	92.6			2.500		7.4					
16	93.5	97.3	3.7	1.875	44	6.5	2.7				
17	92.8	96.7	3.6	1.750	48	7.2	3.3				
18	96.2	97.5	3.7	4.625	39	3.8	2.5				
	94.7			3.750		5.3					
	94.4			3.500		5.6					
22	94.1	97.2	3.8	3.000	38	5.9	2.8				
23	95.9	97.0	3.6	4.000	45	4.1	3.0				
	97.6			3.750		2.4					
	95.7			3.125		4.3					

COUNT=	25	14	14	25	14	25	14				
AVG=	94.43	96.66	3.66	2.965	45.4	5.57	3.34				
STD=	1.46	0.46	0.08	0.879	5.5	1.46	0.46				
MAX=	97.6	97.5	3.8	4.625	55	8.0	4.0				
MIN=	92.0	96.0	3.5	1.500	38	2.4	2.5				
STD N-1=	1.49	0.48	0.08	0.897	5.7	1.49	0.48				

```

*****
* DISTRICT:      17 COUNTY: WASHINGTON      HIGHWAY: US 290      *
*   TYPE: B      COURSE: BASE              *
* PROJECT: F 236(21)          CONTROL: 0114-09-046      *
*****

```

DENSITY INFORMATION
DESIGN AC #7

Gc/Gl	Gc/Gt ext.	Gc/Gt des.	Gl/Gt ext.	Gl/Gt des.
95.8				
99.3				
98.5				
98.8				
97.4				
98.1				
98.2				
95.8				
100.2				
96.1				
96.0				
98.7				
96.8				
98.9				

```

*****
COUNT=      14
AVG=         97.75
STD=         1.39
MAX=         100.2
MIN=         95.8
STD N-1=     1.44
*****

```

```

* *****
* DISTRICT:    17 COUNTY: WASHINGTON    HIGHWAY: US 290
* TYPE: B      COURSE: BASE
* PROJECT: F 236(21)                CONTROL: 0114-09-046
* *****

```

DENSITY INFORMATION
DESIGN AC #8

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
24	93.2 93.9	95.1	3.8	4.500 4.875	48	6.8 6.1	4.9				
25		95.5	3.7		52		4.5				
29	94.3 94.3	95.0	3.6	2.500 4.500	46	5.7 5.7	5.0				
30	92.2 93.7 93.7 92.6	95.4	3.5	2.000 1.625 5.750 2.000	59	7.8 6.3 6.3 7.4	4.6				
31	92.6 92.9 93.7	94.3	3.5	4.500 2.250 2.000	53	7.4 7.1 6.3	5.7				
36	94.5	95.2	3.5	2.500	49	5.5	4.8				
COUNT=	12	6	6	12	6	12	6				
AVG=	93.47	95.08	3.60	3.250	51.2	6.53	4.92				
STD=	0.72	0.39	0.12	1.385	4.2	0.72	0.39				
MAX=	94.5	95.5	3.8	5.750	59	7.8	5.7				
MIN=	92.2	94.3	3.5	1.625	46	5.5	4.5				
STD N-1=	0.76	0.43	0.13	1.447	4.6	0.76	0.43				

```

*****
* DISTRICT:      17 COUNTY: WASHINGTON      HIGHWAY: US 290      *
*   TYPE: B      COURSE: BASE              *
* PROJECT: F 236(21)          CONTROL: 0114-09-046      *
*****

```

DENSITY INFORMATION
DESIGN AC #8

```

          Gc/Gt  Gc/Gt          G1/Gt  G1/Gt
          ext.  des.          ext.  des.
*****

```

98.0

99.3

96.6

98.2

99.3

```

*****
COUNT=      5
AVG=         98.27
STD=         0.97
MAX=         99.3
MIN=         96.6
STD N-1=     1.08
*****

```

```

*****
* DISTRICT:      17 COUNTY: WASHINGTON      HIGHWAY: US 290      *
*   TYPE: B          COURSE: BASE          *
* PROJECT: F 236(21)          CONTROL: 0114-09-046      *
*****

```

DENSITY INFORMATION

DESIGN AC #10

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
38	93.7	95.2	3.8	5.750	49	6.3	4.8				
42		95.2	3.7	2.250	57		4.8				
43		95.0	3.6	2.625	52		5.0				
44	92.4	94.5	3.5	6.000	52	7.6	5.5				
45	94.5	94.9	3.8	2.500	52	5.5	5.1				
	94.1			2.250		5.9					
	93.0			2.125		7.0					
46	94.9	95.3	3.8	2.750	56	5.1	4.7				
51	94.7	97.6	4.8	2.500	27	5.3	2.4				

COUNT=	7	7	7	9	7	7	7				
AVG=	93.90	95.39	3.86	3.194	49.3	6.10	4.61				
STD=	0.86	0.94	0.40	1.446	9.4	0.86	0.94				
MAX=	94.9	97.6	4.8	6.000	57	7.6	5.5				
MIN=	92.4	94.5	3.5	2.125	27	5.1	2.4				
STD N-1=	0.93	1.01	0.43	1.534	10.2	0.93	1.01				

```

*****
* DISTRICT:      17 COUNTY: WASHINGTON      HIGHWAY: US 290      *
*   TYPE: B      COURSE: BASE              *
* PROJECT: F 236(21)          CONTROL: 0114-09-046      *
*****

```

DENSITY INFORMATION
DESIGN AC #10

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

	98.4			
		97.8		
		99.6		
			99.6	
			97.0	

```

*****
COUNT=      5
AVG=      98.48
STD=      1.00
MAX=      99.6
MIN=      97.0
STD N-1=    1.12
*****

```

 * DISTRICT: 17 COUNTY: WASHINGTON HIGHWAY: US 290 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CD50-3-59 (D17COMB) CONTROL: 0114-10-062 *
 * *****

DENSITY INFORMATION
 DESIGN AC

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		94.8	5.7		58	1744	127.62		5.2				
2		95.0	5.5		59	2995	212.12		5.0				
7		94.8	5.7		55	429	65.31		5.2				
8		95.0	6.0		55	1558	134.01		5.0				
9		95.6	6.4		44	240	23.56		4.4				
COUNT=		5	5		5	5	5		5				
AVG=		95.04	5.86		54.2	1393.2	112.52		4.96				
STD=		0.29	0.31		5.3	997.4	64.42		0.29				
MAX=		95.6	6.4		59	2995	212.12		5.2				
MIN=		94.8	5.5		44	240	23.56		4.4				
STD N-1=		0.33	0.35		6.0	1115.1	72.03		0.33				

```

* ***** *
* DISTRICT:      17 COUNTY: WASHINGTON      HIGHWAY: US 290      *
*   TYPE: D      COURSE: SURFACE          *
* PROJECT: CD50-3-59      (D17COMB)      CONTROL: 0114-10-062 *
* ***** *

```

DENSITY INFORMATION
DESIGN AC

	Gc/Gt	Gc/Gt	Gl/Gt	Gl/Gt
Gc/Gl	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD N-1=
*****

```

```

* ***** *
* DISTRICT: 17 COUNTY: BRAZOS HIGHWAY: SH 30/OSR *
* TYPE: D COURSE: SURFACE *
* PROJECT: CD50-3-59 (D17COMB) CONTROL: CSD-475-1-17 *
* ***** *

```

*DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1			6.3	1.250		6600	549.06						
3			6.2	1.500		6427	498.24						
9			4.9	1.500		14179	1037.65						
10			4.8	1.250		17827	1388.93						
14			6.3			9649	738.74						
17			4.8	1.750		1694	107.17						
COUNT=			6	5		6	6						
AVG=			5.55	1.450		9395.8	719.97						
STD=			0.72	0.187		5322.5	408.79						
MAX=			6.3	1.750		17827	1388.9						
MIN=			4.8	1.250		1694	107.2						
STD N-1=			0.79	0.209		5830.5	447.81						

*THREE AC DESIGNS SO DENSITY INFORMATION NOT USED

```

* *****
* DISTRICT:      17 COUNTY: BRAZOS          HIGHWAY: SH 30/OSR
*   TYPE: D      COURSE: SURFACE
* PROJECT: CD50-3-59      (D17COMB)      CONTROL: CSD-475-1-17
* *****

```

```

*DENSITY INFORMATION
DESIGN AC

```

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****

```

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD N-1=
*****

```

```

*THREE AC DESIGNS SO DENSITY INFORMATION NOT USED

```

```

* *****
* DISTRICT: 17 COUNTY: BRAZOS HIGHWAY: SH 30 & SH 21
* TYPE: D COURSE: SURFACE
* PROJECT: CD50-3-59 (D17COMB) CONTROL: CSD-212-3-23
* *****

```

*DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1			6.3	1.750		13275	1052.37						
3			6.2	1.500		8518	629.22						
4			4.9	1.625		19180	1502.27						
7			4.6	1.125		21793	1545.23						
8			4.7	1.625		24194	1798.81						
15			4.2			1076	81.16						
16			4.6			1325	98.11						
17			4.8			975	73.56						

COUNT=			8	5		8	8						
AVG=			5.04	1.525		11292.0	847.59						
STD=			0.73	0.215		9087.9	676.20						
MAX=			6.3	1.750		24194	1798.81						
MIN=			4.2	1.125		975	73.56						
STD N-1=			0.78	0.240		9715.4	722.89						

*THREE AC DESIGNS SO DENSITY INFORMATION NOT USED

```

* *****
* DISTRICT:      17 COUNTY: BRAZOS          HIGHWAY: SH 30 & SH 21
*   TYPE: D      COURSE: SURFACE
* PROJECT: CD50-3-59      (D17COMB)      CONTROL: CSD-212-3-23
* *****

```

```

*DENSITY INFORMATION
DESIGN AC

```

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD N-1=
*****
*THREE AC DESIGNS SO DENSITY INFORMATION NOT USED

```

```

*****
* DISTRICT:    17 COUNTY: ROBERTSON      HIGHWAY: US 79
*   TYPE: D    COURSE: SURFACE
* PROJECT: CD50-3-59      (D17COMB)      CONTROL: 0205-01-027
*****

```

*DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1			6.2	1.250		12923	943.28						
2			5.6	1.250		6655	484.72						
16			6.0	1.375		23153	1659.82						
				1.500									
17			6.4	1.750		11284	860.51						
18			4.9	1.625		10519	726.75						
COUNT=			5	6		5	5						
AVG=			5.82	1.458		12906.7	935.02						
STD=			0.53	0.186		5520.9	394.23						
MAX=			6.4	1.750		23153	1659.82						
MIN=			4.9	1.250		6655	484.72						
STD N-1=			0.59	0.204		6172.5	440.77						

*TWO AC DESIGNS SO DENSITY INFORMATION NOT USED

```

* *****
* DISTRICT:      17 COUNTY: ROBERTSON      HIGHWAY: US 79      *
*   TYPE: D      COURSE: SURFACE          *
* PROJECT: CD50-3-59      (D17COMB)      CONTROL: 0205-01-027 *
* *****

```

```

*DENSITY INFORMATION
DESIGN AC

```

```

          Gc/Gt  Gc/Gt          Gl/Gt  Gl/Gt
        Gc/Gl  ext.  des.          ext.  des.
*****

```

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD N-1=
*****
*TWO AC DESIGNS SO DENSITY INFORMATION NOT USED

```



```

*****
* DISTRICT:    17 COUNTY: MADISON      HIGHWAY: SH 21      *
* TYPE: D      COURSE: SURFACE        *
* PROJECT: CD50-3-59 (D17COMB)      CONTROL: 0117-05-026 *
*****

```

DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	94.0	96.4	6.1	1.000	53	4390	326.62	6.0	3.6				
2	92.2	95.6	5.7	1.750	52	4356	328.6	7.8	4.4				
3	95.1	95.3	5.9	1.750	52	13712	1013.7	4.9	4.7				
4	93.5	95.6	6.3	0.875	46	15383	1027.6	6.5	4.4				
5	93.4	96.0	6.2	1.500	48	17626	938.8	6.6	4				
COUNT=	5	5	5	5	5	5	5	5	5				
AVG=	93.64	95.78	6.04	1.375	50.2	11093.2	727.07	6.36	4.22				
STD=	0.94	0.38	0.22	0.371	2.7	5626.0	327.54	0.94	0.38				
MAX=	95.1	96.4	6.3	1.750	53	17626	1027.58	7.8	4.7				
MIN=	92.2	95.3	5.7	0.875	46	4356	326.62	4.9	3.6				
STD N-1=	1.05	0.43	0.24	0.415	3.0	6290.1	366.20	1.05	0.43				

```

* ***** *
* DISTRICT: 17 COUNTY: MADISON HIGHWAY: SH 21 *
* TYPE: D COURSE: SURFACE *
* PROJECT: CD50-3-59 (D17COMB) CONTROL: 0117-05-026 *
* ***** *

```

DENSITY INFORMATION
DESIGN AC

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD N-1=
*****

```

```

*****
* DISTRICT: 18      COUNTY: DALLAS      HIGHWAY: IH635      *
*   TYPE: C        COURSE: LEVEL UP    *
* PROJECT: IR635-6(286)435      CONTROL: 2374-02-049  *
*****

```

DENSITY INFORMATION

DESIGN AC #2449-B

WORKING DAY	CORE DEN.,		AC,	CORE HVEEM		SQ. YDS.	TONS	CORE LAB		CORE VMA	CORE LAB		
	% Gc/Gt *	% Gl/Gt *		THICK., IN.	STAB., %			AIR VOIDS	AIR VOIDS		VOIDS FILLED	VOIDS FILLED	
1			4.6	1.701	46	10500	979.76			13.6	12.9		
8			4.2		49	12815	1024.02				12.8		
15			4.4	1.590	46	5523	488.13			12.3	12.9		
17			4.5	1.779	52	14168	1398.73			12.5	13.1		
18			4.1	1.915	54	6679	706.75			12.5	12.0		
19			4.5	1.486	53	3024	249.39			12.5	13.7		
22			4.6		49	12613	1031.48				12.3		
23			4.6	1.706	54	7200	680.58			12.7	12.8		
24			4.3		50	10036	859.90				12.1		
25			4.4		44	11591	1319.73				12.4		
26			4.6		47	8367	811.19				12.9		
27			4.2		49	6784	801.62				11.7		
29			4.4		53	9636	1037.87				12.2		
31			4.4		55	12130	1213.87				12.5		

COUNT=			14	6	14	14	14			6	14		
AVG=			4.41	1.696	50.1	9361.9	900.22			12.70	12.60		
STD=			0.16	0.136	3.4	3099.1	302.26			0.43	0.51		
MAX=			4.6	1.915	55	14168	1398.73			13.6	13.7		
MIN=			4.1	1.486	44	3024	249.39			12.3	11.7		
STD N-1=			0.17	0.149	3.5	3216.1	313.67			0.47	0.53		

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* *****
* DISTRICT: 18      COUNTY: DALLAS      HIGHWAY: IH635
* TYPE: C          COURSE: LEVEL UP
* PROJECT: IR635-6(286)435      CONTROL: 2374-02-049
* *****

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DENSITY INFORMATION
DESIGN AC #2449-B

	Gc/Gl	Gc/Gt ext.	Gc/Gt des.	Gl/Gt ext.	Gl/Gt des.

	99.2	97.0	96.9	97.8	97.7
				96.9	97.3
	100.7	98.0	98.1	97.3	97.4
	100.7	98.0	98.0	97.3	97.3
	99.4	97.0	97.6	97.6	98.2
	101.3	98.0	98.0	96.7	96.7
				98.5	98.4
	100.1	98.0	97.9	97.9	97.8
				98.0	98.3
				97.9	98.0
				97.8	97.7
				98.2	98.6
				98.1	98.2
				97.8	97.9

COUNT=	6	6	6	14	14
AVG=	100.24	97.67	97.74	97.70	97.82
STD=	0.77	0.47	0.43	0.48	0.50
MAX=	101.3	98.0	98.1	98.5	98.6
MIN=	99.2	97.0	96.9	96.7	96.7
STD N-1=	0.84	0.52	0.47	0.50	0.52

```

*****
* DISTRICT: 18      COUNTY: NAVARRO      HIGHWAY: FM1603      *
* TYPE: G          COURSE: SURFACE & BASE      *
* PROJECT: CSR 1522-1-9      CONTROL: 1522-1-9      *
*****

```

DENSITY INFORMATION
DESIGN AC #G-3

WORKING DAY	CORE DEN., % Gc/Gt *	LAB. DEN., % Gl/Gt *	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	DES. - TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1			4.5	8.806	39	2629	1309.72			12.1	14.4		
4			4.5	3.227	44	10111	1800.70			14.2	15.0		
5			5.0	10.644	39	1015	608.57			12.9	15.7		
7			4.7	9.098	39	2528	1306.51			11.9	14.9		
14			4.7	3.449	38	2233	430.50			13.3	14.8		
17			4.6	7.254	38	4044	1636.99			13.4	15.0		
21			4.6	8.472	44	3318	1581.40			12.7	14.9		
22			4.8	3.259	40	2864	526.24			12.7	13.6		
23			4.6	2.462	40	1629	223.14			13.7	15.1		
25			4.7	7.394	36	3423	1421.73			12.9	15.4		
26			4.8	4.824	40	4107	1093.15			14.5	15.2		
28			4.6	4.301	38	8295	2009.34			12.6	15.1		
29			4.6	8.429	38	2785	1330.16			12.1	15.4		

COUNT=			13	13	13	13	13			13	13		
AVG=			4.67	6.278	39.5	3767.8	1175.24			13.00	14.96		
STD=			0.13	2.661	2.2	2486.4	540.32			0.78	0.50		
MAX=			5.0	10.644	44	10111	2009.34			14.5	15.7		
MIN=			4.5	2.462	36	1015	223.14			11.9	13.6		
STD N-1=			0.14	2.770	2.3	2587.9	562.39			0.81	0.52		

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* *****
* DISTRICT: 18 COUNTY: NAVARRO HIGHWAY: FM1603
* TYPE: G COURSE: SURFACE & BASE
* PROJECT: CSR 1522-1-9 CONTROL: 1522-1-9
* *****

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DENSITY INFORMATION
DESIGN AC #G-3

	Gc/Gl	Gc/Gt ext.	Gc/Gt des.	Gl/Gt ext.	Gl/Gt des.

	102.7	98.5	98.6	95.9	96.0
	100.9	96.1	96.2	95.2	95.3
	103.2	98.8	98.2	95.7	95.1
	103.5	99.2	99.1	95.8	95.7
	101.7	97.6	97.5	96.0	95.9
	101.9	97.3	97.3	95.5	95.5
	102.6	98.1	98.1	95.6	95.6
	101.0	98.6	98.3	97.6	97.3
	101.7	97.0	97.0	95.4	95.4
	102.9	98.1	98.0	95.3	95.2
	100.7	96.5	96.2	95.8	95.5
	102.9	98.2	98.2	95.4	95.4
	104.0	98.8	98.8	95.0	95.0

COUNT=	13	13	13	13	13
AVG=	102.30	97.91	97.81	95.71	95.61
STD=	1.01	0.91	0.87	0.61	0.56
MAX=	104.0	99.2	99.1	97.6	97.3
MIN=	100.7	96.1	96.2	95.0	95.0
STD N-1=	1.05	0.95	0.91	0.64	0.59

* *****
 * DISTRICT: 19 COUNTY: CASS HIGHWAY: US 59 *
 * TYPE: D COURSE: 4 COURSES *
 * PROJECT: CSR 218-3-57 CONTROL: 218-3-57 *
 * *****

DENSITY INFORMATION
DESIGN AC #1

WORKING DAY	COURSE #	CORE DEN., %	LAB. DEN., %	% AC	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	1	93.6	97.9	5.0	2.500	45	6.4	2.1	16.3	12.4	60.7	83.1
	2	93.1	97.9	5.0	2.500	45	6.9	2.1	16.7	12.4	58.8	83.1
	3	96.1	97.9	5.0	2.500	45	3.9	2.1	14.0	12.4	72.2	83.1
	4	92.6	97.9	5.0	2.500	45	7.4	2.1	17.2	12.4	56.9	83.1
2	1	93.7	98.0	4.7	2.300	49	6.3	2.0	15.6	11.7	59.5	82.9
	2	95.2	98.0	4.7	3.400	49	4.8	2.0	14.2	11.7	66.2	82.9
	3	96.4	98.0	4.7	3.400	49	3.6	2.0	13.1	11.7	72.6	82.9
	4	92.3	98.0	4.7	1.900	49	7.7	2.0	16.8	11.7	54.2	82.9
3	1	94.7	95.9	4.5	2.800	42	5.3	4.1	14.2	13.1	62.8	68.8
	2	94.6	95.9	4.5	3.100	42	5.4	4.1	14.3	13.1	62.3	68.8
	3	93.2	95.9	4.5	2.900	42	6.8	4.1	15.6	13.1	56.4	68.8
	4		95.5	4.5		42		4.5		13.5		66.7
4	1	96.1	95.5	4.4	2.800	45	3.9	4.5	12.8	13.3	69.4	66.2
	2	95.5	95.5	4.4	2.900	45	4.5	4.5	13.3	13.3	66.2	66.2
	3	96.6	95.5	4.4	2.900	45	3.4	4.5	12.3	13.3	72.4	66.2
	4	94.7	95.5	4.4	2.700	45	5.3	4.5	14.0	13.3	62.2	66.2
7	1	94.3	96.7	4.6	2.900	46	5.7	3.3	14.8	12.6	61.5	73.9
	2	93.5	96.7	4.6	2.900	46	6.5	3.3	15.5	12.6	58.2	73.9
8	1	95.5	97.3	4.8	2.800	45	4.5	2.7	14.2	12.5	68.2	78.5
	2	95.5	97.3	4.8	2.700	45	4.5	2.7	14.2	12.5	68.2	78.5
	3	95.8	97.3	4.8	3.000	45	4.2	2.7	13.9	12.5	69.8	78.5
	4	94.5	97.3	4.8	2.500	45	5.5	2.7	15.1	12.5	63.5	78.5
10	1	94.5	97.9	5.2	1.800	41	5.5	2.1	15.9	12.9	65.4	83.7
	2	96.0	97.9	5.2	2.900	41	4.0	2.1	14.6	12.9	72.5	83.7
	3	94.5	97.9	5.2	3.000	41	5.5	2.1	15.9	12.9	65.4	83.7
	4	92.0	97.9	5.2	2.600	41	8.0	2.1	18.1	12.9	55.9	83.7
11	1	94.2	97.0	4.4	2.400	44	5.8	3.0	14.5	11.9	59.9	74.9
	2	95.0	97.0	4.4	2.900	44	5.0	3.0	13.7	11.9	63.6	74.9
14	3	93.8	96.4	4.5	3.200	42	6.2	3.6	15.1	12.7	58.8	71.6
	4	92.4	96.4	4.5	2.400	42	7.6	3.6	16.3	12.7	53.4	71.6
15	1	95.0	95.8	4.6	2.600	41	5.0	4.2	14.2	13.5	64.7	68.8
	2	94.4	95.8	4.6	2.700	41	5.6	4.2	14.7	13.5	62.0	68.8
	3		95.8	4.6		41		4.2		13.5		68.8
16	1	94.8	96.6	4.7	1.900	47	5.2	3.4	14.6	13.0	64.3	73.7
	2	92.2	96.6	4.7	2.800	47	7.8	3.4	16.9	13.0	53.9	73.7
	3	94.1	96.6	4.7	2.700	47	5.9	3.4	15.2	13.0	61.2	73.7
	4	93.9	96.6	4.7	2.500	47	6.1	3.4	15.4	13.0	60.3	73.7
17	1	94.5	96.1	4.8	2.800	56	5.5	3.9	15.1	13.6	63.5	71.4
	2	94.3	96.1	4.8	2.800	56	5.7	3.9	15.2	13.6	62.6	71.4

* *****
 * DISTRICT: 19 COUNTY: CASS HIGHWAY: US 59 *
 * TYPE: D COURSE: 4 COURSES *
 * PROJECT: CSR 218-3-57 CONTROL: 218-3-57 *
 * *****

DENSITY INFORMATION (cont.)
 DESIGN AC #1

	Gc/Gt ext.	Gc/Gt des.	G1/Gt ext.	G1/Gt des.
95.6	94.8	94.5	99.1	98.9
95.1	94.3	94.0	99.1	98.9
98.2	97.3	97.1	99.1	98.9
94.6	93.8	93.5	99.1	98.9
95.6	94.9	95.0	99.3	99.4
97.1	96.4	96.6	99.3	99.4
98.4	97.6	97.8	99.3	99.4
94.2	93.5	93.6	99.3	99.4
98.7	95.9	96.3	97.1	97.6
98.6	95.8	96.2	97.1	97.6
97.2	94.4	94.8	97.1	97.6
			96.7	97.1
100.6	97.3	97.9	96.7	97.3
100.0	96.7	97.3	96.7	97.3
101.2	97.9	98.4	96.7	97.3
99.2	95.9	96.5	96.7	97.3
97.5	95.5	95.8	97.9	98.2
96.7	94.7	95.0	97.9	98.2
98.2	96.7	96.7	98.5	98.5
98.2	96.7	96.7	98.5	98.5
98.5	97.0	97.0	98.5	98.5
97.1	95.7	95.7	98.5	98.5
96.5	95.7	95.2	99.1	98.6
98.1	97.2	96.7	99.1	98.6
96.5	95.7	95.2	99.1	98.6
94.0	93.2	92.6	99.1	98.6
97.1	95.4	96.0	98.3	98.8
97.9	96.2	96.8	98.3	98.8
97.3	95.0	95.4	97.6	98.1
95.9	93.6	94.0	97.6	98.1
99.2	96.2	96.5	97.0	97.3
98.5	95.6	95.9	97.0	97.3
			97.0	97.3
98.1	96.0	96.2	97.8	98.0
95.4	93.4	93.5	97.8	98.0
97.4	95.3	95.4	97.8	98.0
97.2	95.1	95.2	97.8	98.0
98.3	95.7	95.7	97.3	97.3
98.1	95.5	95.5	97.3	97.3


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*****
* DISTRICT:      19 COUNTY: CASS          HIGHWAY: US 59          *
*   TYPE: D      COURSE: 4 COURSES      *
* PROJECT: CSR 218-3-57          CONTROL: 218-3-57          *
*****

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DENSITY INFORMATION (cont.)
DESIGN AC #1

WORKING DAY	COURSE #	CORE DEN., %	LAB. DEN., %	% AC	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
18	1	92.7	97.6	4.8	2.000	54	7.3	2.4	16.7	12.3	56.2	80.4
21	1		96.6	4.7		50		3.4		13.0		73.7
	3		96.6	4.7		50		3.4		13.0		73.7
	4		96.6	4.7		50		3.4		13.0		73.7
22	1	94.3	96.0	4.6	2.600	64	5.7	4.0	14.8	13.3	61.5	69.9
COUNT=		39	44	44	39	44	39	44	39	44	39	44
AVG=		94.36	96.80	4.71	2.679	46.0	5.64	3.20	15.00	12.79	62.75	75.16
STD=		1.19	0.87	0.23	0.361	4.7	1.19	0.87	1.26	0.53	5.22	6.01
MAX=		96.6	98.0	5.2	3.400	64	8.0	4.5	18.1	13.6	72.6	83.7
MIN=		92.0	95.5	4.4	1.800	41	3.4	2.0	12.3	11.7	53.4	66.2
STD N-1=		1.21	0.88	0.23	0.366	4.7	1.21	0.88	1.27	0.54	5.29	6.08

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*****
* DISTRICT:      19 COUNTY: CASS           HIGHWAY: US 59      *
*   TYPE: D      COURSE: 4 COURSES       *
* PROJECT: CSR 218-3-57                 CONTROL: 218-3-57  *
*****

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DENSITY INFORMATION (cont.)

DESIGN AC #1

	Gc/Gl	Gc/Gt ext.	Gc/Gt des.	Gl/Gt ext.	Gl/Gt des.

	95.0	93.9	93.9	98.9	98.9
				97.8	98.0
				97.8	98.0
				97.8	98.0
	98.2	95.5	95.8	97.2	97.5

COUNT=	39	39	39	44	44
AVG=	97.42	95.57	95.69	98.04	98.17
STD=	1.64	1.21	1.30	0.88	0.68
MAX=	101.2	97.9	98.4	99.3	99.4
MIN=	94.0	93.2	92.6	96.7	97.1
STD N-1=	1.67	1.22	1.32	0.89	0.69

 * DISTRICT: 19 COUNTY: MARION HIGHWAY: US 59 *
 * TYPE: D COURSE: THREE COURSES *
 * PROJECT: C62-6-36 CONTROL: 62-6-36 *

DENSITY INFORMATION
 DESIGN AC #2

WORKING DAY	CORE DEN., %	LAB. DEN., %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	93.5	97.2	5.3	42	867	134.925		2.8				
2		97.9	5.5	46	2333	566.395	6.5	2.1				
3	96.9	97.7	5.8	42	6825	1139.5	3.1	2.3				
4	97.5	96.9	5.8	42	6825	1074.83	2.5	3.1				
7	95.8	97.6	6.0	41	13142	2169.52	4.2	2.4				
8	95.4	97.6	5.9	48	3548	571.7	4.6	2.4				
9	95.9	97.0	5.3	52	2223	375.315	4.1	3.0				
COUNT=	6	7	7	7	7	7	6	7				
AVG=	95.83	97.41	5.63	44.7	5109.0	861.74	4.17	2.59				
STD=	1.26	0.35	0.27	3.8	3907.6	628.95	1.26	0.35				
MAX=	97.5	97.9	6.0	52	13142	2169.52	6.5	3.1				
MIN=	93.5	96.9	5.25	41	867	134.93	2.5	2.1				
STD-1=	1.38	0.38	0.29	4.1	4220.7	679.35	1.38	0.38				

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*****
* DISTRICT:      19 COUNTY: MARION          HIGHWAY: US 59      *
*   TYPE: D      COURSE: THREE COURSES    *
* PROJECT: C62-6-36          CONTROL: 62-6-36      *
*****

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DENSITY INFORMATION
DESIGN AC #2

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

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*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

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* *****
 * DISTRICT: 19 DISTRICT: PANOLA HIGHWAY: US 59 *
 * TYPE: C COURSE: BASE *
 * PROJECT: MA-FR458(7) CONTROL: 63-4-29 *
 * *****

DENSITY INFORMATION

DESIGN AC #2C

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	92.6	98.3	4.6	3.200	45	7.4	1.7				
2	92.6	96.2	4.1	3.200	48	7.4	3.8				
3	92.8	96.1	4.5	3.200	47	7.2	3.9				
5	93.9	97.7	4.7	3.100	41	6.1	2.3				
9	93.1	97.0	4.5	3.000	46	6.9	3.0				
10	94.6	97.9	5.0	3.100	47	5.4	2.1				
11	96.0	97.0	4.4	3.000	47	4.0	3.0				
12	95.0	97.9	4.7	3.000	48	5.0	2.1				
15	95.8	96.9	4.4	3.000	44	4.2	3.1				
16	93.9	97.7	4.7	3.200	46	6.1	2.3				
17	94.2	98.2	4.9	3.100	40	5.8	1.8				
18	92.2	96.9	4.4	3.200	47	7.8	3.1				
19	93.6	97.1	4.6	3.100	44	6.4	2.9				
22	93.6	96.6	4.2	3.000	51	6.4	3.4				
30	93.2	98.2	4.8	2.600	41	6.8	1.8				
31	94.8	97.8	5.1	2.700	48	5.2	2.2				
32	93.2	97.2	4.6	3.000	46	6.8	2.8				
33	93.0	97.2	4.7	3.200	44	7.0	2.8				
37	93.7	97.3	4.5	2.800	48	6.3	2.7				
38	93.7	98.3	4.8	3.300	39	6.3	1.7				
39	92.1	96.5	4.5	3.100	46	7.9	3.5				
40	92.9	98.4	5.1	3.300	34	7.1	1.6				
43	94.5	97.0	4.7	3.000	47	5.5	3.0				
44	93.3	98.2	4.8	2.800	41	6.7	1.8				
46	91.5	98.5	5.1	2.800	41	8.5	1.5				
50	93.8	97.9	4.6	2.800	35	6.2	2.1				
51	92.2	98.4	5.1	2.700	37	7.8	1.6				
52	92.6	97.8	4.7	2.500	38	7.4	2.2				
53	93.4	95.7	4.3	2.600	36	6.6	4.3				
54	93.0	97.5	4.9	2.600	38	7.0	2.5				
57			4.6	2.700							

COUNT=	30	30	31	31	30	31	31
AVG=	93.49	97.45	4.66	2.965	43.3	6.30	2.47
STD=	1.04	0.74	0.26	0.227	4.5	1.54	0.86
MAX=	96.0	98.5	5.1	3.300	51	8.5	4.3
MIN=	91.5	95.7	4.1	2.500	34	0.0	0.0
STD-1=	1.05	0.76	0.26	0.230	4.6	1.56	0.87

```

* ***** *
* DISTRICT:      19 DISTRICT: PANOLA      HIGHWAY: US 59      *
*   TYPE: C      COURSE: BASE              *
* PROJECT: MA-FR458(7)      CONTROL: 63-4-29      *
* ***** *

```

DENSITY INFORMATION

DESIGN AC #2C

	Gc/Gt	Gc/Gt	Gl/Gt	Gl/Gt
Gc/Gl	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```

 * DISTRICT: 20 COUNTY: TYLER HIGHWAY: US 69 *
 * TYPE: G COURSE: SURFACE *
 * PROJECT: CSR 200-7-38 CONTROL: 200-7-38 *

DENSITY INFORMATION
 DESIGN AC #1

WORKING DAY	CORE DEN., %	LAB. DEN., %	% AC	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		98.5	4.8	1.750	46		1.5		11.5		87.0
2		96.9	4.5	2.000	49		3.1		12.3		74.8
3		97.8	4.8	1.375	44		2.2		12.0		81.7
4		97.3	4.7	1.500	52		2.7		12.3		78.0
7		98.0	4.6	1.500	46		2.0		11.5		82.6
8		98.5	4.7	1.500	40		1.5		11.3		86.7
9		97.9	4.5	1.625	42		2.1		11.4		81.6
10		97.3	4.7	1.750	47		2.7		12.4		78.2
11		97.7	4.5	1.750	49		2.3		11.6		80.1
14		98.0	4.7	1.500	45		2.0		11.7		83.0
15		97.4	4.8	1.750	41		2.6		12.4		79.0
16		97.7	4.7	1.750	46		2.3		11.9		80.7
17		97.7	4.6	2.000	46		2.3		11.7		80.3
18		98.2	4.6	1.750	45		1.8		11.3		84.1
21		97.3	4.5	2.250	54		2.7		11.9		77.3
22		97.8	4.6	2.000	47		2.2		11.6		81.1
23		97.7	4.5	1.750	48		2.3		11.6		80.1
24		98.0	4.8		49		2.0		12.0		83.3
25		97.4	4.5				2.6		11.9		78.1

COUNT=		19	19	17	18		19		19		19
AVG=		97.74	4.62	1.735	46.4		2.26		11.80		80.93
STD=		0.41	0.11	0.222	3.4		0.41		0.34		3.03
MAX=		98.5	4.8	2.250	54		3.1		12.4		87.0
MIN=		96.9	4.5	1.375	40		1.5		11.3		74.8
STD-1=		0.42	0.11	0.229	3.5		0.42		0.35		3.12

```

* *****
* DISTRICT:      20 COUNTY: TYLER          HIGHWAY: US 69      *
*   TYPE: G      COURSE: SURFACE          *
* PROJECT: CSR 200-7-38                   CONTROL: 200-7-38  *
* *****

```

DENSITY INFORMATION
DESIGN AC #1

Gc/Gl	Gc/Gt ext.	Gc/Gt des.	Gl/Gt ext.	Gl/Gt des.
			99.6	99.5
			98.0	98.3
			98.9	98.8
			98.4	98.5
			99.1	99.3
			99.6	99.6
			99.0	99.3
			98.4	98.4
			98.8	99.1
			99.1	99.1
			98.5	98.4
			98.8	98.9
			98.8	99.0
			99.3	99.5
			98.4	98.7
			98.9	99.1
			98.8	99.1
			99.1	99.0
			98.5	98.8

COUNT=			19	19
AVG=			98.86	98.97
STD=			0.41	0.37
MAX=			99.6	99.6
MIN=			98.0	98.3
STD-1=			0.42	0.38

```

* ***** *
* DISTRICT: 21 DISTRICT:CAMERON          HIGHWAY: FM 1419          *
* TYPE: D          COURSE: SURFACE          *
* PROJECT: MC0039-07-151          CONTROL: 33-7-151          *
* ***** *

```

DENSITY INFORMATION
DESIGN AC #1D

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK. IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	91.8	97.0	5.1		46	15232	1511.10	8.2	3.0				
2	91.2	96.5	5.2		34	20008	1961.70	8.8	3.5				
3	91.9	98.5	5.2		36	26121	2633.60	8.1	1.5				
6	93.6	97.3	5.2		44	24428	2404.40	6.4	2.7				
7	92.8	96.5	5.1		42	20272	2171.80	7.2	3.5				
8	92.4	97.2	5.2			17500	1586.50	7.6	2.8				
9	92.4	96.5	5.1			11333	1504.80	7.6	3.5				
COUNT=	7	7	7		5	7	7	7	7				
AVG=	92.30	97.07	5.16		40.4	19270.6	1967.70	7.70	2.93				
STD=	0.72	0.66	0.05		4.6	4743.8	421.54	0.72	0.66				
MAX=	93.6	98.5	5.2		46	26121	2633.60	8.8	3.5				
MIN=	91.2	96.5	5.1		34	11333	1504.80	6.4	1.5				
STD-1=	0.77	0.72	0.05		5.2	5123.9	455.32	0.77	0.72				

```

* *****
* DISTRICT:      21 DISTRICT:CAMERON      HIGHWAY: FM 1419      *
*   TYPE: D      COURSE: SURFACE          *
* PROJECT: MCO039-07-151      CONTROL: 33-7-151      *
* *****

```

DENSITY INFORMATION
DESIGN AC #1D

	Gc/Gt	Gc/Gt	Gl/Gt	Gl/Gt
Gc/Gl	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```

```

*****
* DISTRICT: 21 DISTRICT:HIDALGO          HIGHWAY: US 83          *
* TYPE: D      COURSE: SURFACE          *
* PROJECT: CSR 39-17-101          CONTROL: 39-17-101          *
*****

```

DENSITY INFORMATION
DESIGN AC #1D

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1	92.6	97.3	4.0		44	11335	1001.86	7.4	2.7				
2	93.2	96.3	4.0	1.375	45	19198	1457.14	6.8	3.7				
3	93.2	97.8	3.9	2.500	46	20978	1665.11	6.8	2.2				
4	93.5	97.3	4.0	1.375	48	14482	1184.24	6.5	2.7				
14	93.1	97.4	4.0		42	19170	1403.98	6.9	2.6				
15	94.2	97.1	4.0		41	19391	1351.44	5.8	2.9				
	92.7		4.0					7.3					
16	92.1	97.3	3.9		51	40490	1278.35	7.9	2.7				
COUNT=	8	7	8	3	7	7	7	8	7				
AVG=	93.08	97.21	3.98	1.750	45.3	20720.6	1334.59	6.93	2.79				
STD=	0.59	0.42	0.04	0.530	3.2	8655.3	194.88	0.59	0.42				
MAX=	94.2	97.8	4.0	2.500	51	40490	1665.11	7.9	3.7				
MIN=	92.1	96.3	3.9	1.375	41	11335	1001.86	5.8	2.2				
STD-1=	0.63	0.46	0.05	0.650	3.5	9348.8	210.49	0.63	0.46				

```

* ***** *
* DISTRICT:      21 DISTRICT:HIDALGO          HIGHWAY: US 83      *
*   TYPE: D      COURSE: SURFACE              *
* PROJECT: CSR 39-17-101                      CONTROL: 39-17-101 *
* ***** *

```

DENSITY INFORMATION
DESIGN AC #1D

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
	ext.	des.	ext.	des.
Gc/G1				

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```

```

*****
* DISTRICT:      21 DISTRICT:STARR      HIGHWAY: FM 755      *
* TYPE: D        COURSE: SURFACE        *
* PROJECT: SR1270(3)      CONTROL: 1103-04-17      *
*****

```

DENSITY INFORMATION
DESIGN AC #1D

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		97.9	5.2		48	14529	1085.08		2.1				
2		98.9	5.1		45	16867	1278.36		1.1				
4		97.8	5.1		49	13606	1017.08		2.2				
5		97.8	5.1		40	11448	852.11		2.2				
6		98.0	5.1		37	14675	1100.00		2.0				
7		98.0	5.0		41	8973	703.00		2.0				
8			5.1			1283	107.69						
82	92.2	97.1	4.3		37	21120	1650.40	7.8	2.9				
83	94.6	97.1	4.1		42	23909	1869.68	5.4	2.9				
84	92.5	98.2	4.1		42	21214	1617.01	7.5	1.8				
85	94.0	97.7	4.2		41	20836	1631.21	6.0	2.3				

COUNT=	4	10	11		10	11	11	4	10				
AVG=	93.33	97.85	4.76		42.2	15314.5	1173.78	6.68	2.15				
STD=	1.00	0.49	0.45		3.9	6261.4	488.75	1.00	0.49				
MAX=	94.6	98.9	5.2		49	23909	1869.68	7.8	2.9				
MIN=	92.2	97.1	4.1		37	1283	107.69	5.4	1.1				
STD-1=	1.16	0.52	0.47		4.1	6567.1	512.60	1.16	0.52				

```

* *****
* DISTRICT:      21 DISTRICT:STARR          HIGHWAY: FM 755
*   TYPE: D      COURSE: SURFACE
* PROJECT: SR1270(3)          CONTROL: 1103-04-17
* *****

```

DENSITY INFORMATION
DESIGN AC #1D

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```

```

*****
* DISTRICT: 23 DISTRICT: BROWN HIGHWAY: FM 45 *
* TYPE: D COURSE: SURFACE *
* PROJECT: MC 480-6-9 CONTROL: 480-6-9 *
*****

```

DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	LAB. DEN., %	EXT. AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		97.8	4.1		45	4278	304.94		2.2				
		97.4	4.0		45				2.6				
2	95.7	97.6	4.1	1.325	44	12681	820.26	4.3	2.4				
3		97.4	4.0		49	24611	1645.78		2.6				
4		97.0	3.8		47	7330	541.78		3.0				
8						1200	50.05						
COUNT=	1	5	5	1	5	5	5	1	5				
AVG=	95.70	97.44	4.00	1.325	46.0	10020.0	672.56	4.30	2.56				
STD=	0.00	0.27	0.11	0.000	1.8	8221.6	549.32	0.00	0.27				
MAX=	95.7	97.8	4.1	1.325	49	24611	1645.78	4.3	3.0				
MIN=	95.7	97.0	3.8	1.325	44	1200	50.05	4.3	2.2				
STD N-1=	0.00	0.30	0.12	0.000	2.0	9192.1	614.15	0.00	0.30				

```

* *****
* DISTRICT:      23 DISTRICT: BROWN          HIGHWAY: FM 45
*   TYPE: D      COURSE: SURFACE
* PROJECT: MC 480-6-9          CONTROL: 480-6-9
* *****

```

DENSITY INFORMATION
DESIGN AC

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD N-1=
*****

```



```

*****
* DISTRICT: 23 DISTRICT:BROWN          HIGHWAY: US 67          *
* TYPE: D      COURSE: SURFACE          *
* PROJECT: CSB-45-5-2          CONTROL: 54-6-57          *
*****

```

DENSITY INFORMATION
DESIGN AC

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		97.4	4.0		49	7295	563.29		2.6				
2		97.0	3.8			13065	857.07		3.0				
5		97.3	3.9		46	16403	1150.73		2.7				
6		97.4	3.9		43	12959	939.16		2.6				
7		97.6	4.0		45	6001	449.86		2.4				

COUNT=		5	5		4	5	5		5				
AVG=		97.34	3.92		45.8	11144.6	792.02		2.66				
STD=		0.20	0.07		2.2	3896.3	254.54		0.20				
MAX=		97.6	4.0		49	16403	1150.73		3.0				
MIN=		97.0	3.8		43	6001	449.86		2.4				
STD-1=		0.22	0.08		2.5	4356.2	284.58		0.22				

```

* *****
* DISTRICT:      23 DISTRICT: BROWN          HIGHWAY: US 67
* TYPE: D        COURSE: SURFACE
* PROJECT: CSB-45-5-2          CONTROL: 54-6-57
* *****

```

DENSITY INFORMATION
DESIGN AC

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```

 * DISTRICT: 23 DISTRICT: EASTLAND HIGHWAY: IH 20 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: IR20-3(39)324 CONTROL: 7-3-49ETC *
 * *****

DENSITY INFORMATION
 DESIGN AC #1

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		95.8	4.0		51	16132	428.00		4.2				
2		96.7	4.1			29496	784.00		3.3				
3			4.1										
4			4.0										
5		98.8	4.0		46				1.2				
8		99.0	4.3		47	18656	1616.00		1.0				
9		98.5	4.3		53	14642	1184.00		1.5				
10		98.6	4.2			19358	1488.00		1.4				
11		98.7	4.1		51	16084	1208.00		1.3				
12		98.2	4.0		55	6331	496.00		1.8				
15		97.6	4.1		56	1299	88.00		2.4				
17		97.9	4.0		56	21233	1600.00		2.1				
18		98.1	4.0			22568	1652.00		1.9				
19		97.4	4.0		53	15236	1136.00		2.6				
22		98.3	4.0		49	8661	648.00		1.7				
23		97.6	3.8			16394	1368.00		2.4				
24		98.0	4.0		50	21236	1744.00		2.0				
25		98.1	4.0		50	4241	368.00		1.9				

COUNT=		16	18		12	15	15		16				
AVG=		97.96	4.06		51.4	15437.8	1053.87		2.04				
STD=		0.79	0.12		3.1	7293.9	524.51		0.79				
MAX=		99.0	4.3		56	29496	1744.00		4.2				
MIN=		95.8	3.8		46	1299	88.00		1.0				
STD-1=		0.82	0.12		3.3	7549.9	542.92		0.82				

```

* *****
* DISTRICT:      23 DISTRICT:EASTLAND      HIGHWAY: IH 20      *
*   TYPE: D      COURSE: SURFACE          *
* PROJECT: IR20-3(39)324                  CONTROL: 7-3-49ETC  *
* *****

```

DENSITY INFORMATION
DESIGN AC #1

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```

```

* ***** *
* DISTRICT: 23 DISTRICT:EASTLAND HIGHWAY: IH 20 *
* TYPE: D COURSE: SURFACE *
* PROJECT: IR20-3(39)324 CONTROL: 7-3-49ETC *
* ***** *

```

DENSITY INFORMATION
DESIGN AC #4

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	SQ. YDS.	TONS	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
36		98.7	4.1		60	24700	2048.00		1.3				
37		96.0	4.0			15846	1352.00		4.0				
38		96.1	4.3			15087	1224.00		3.9				
39		97.7	4.1			22880	1856.00		2.3				
40		96.9	4.0			19947	1696.00		3.1				
43		97.5	4.0			11642	960.00		2.5				

COUNT=		6	6		1	6	6		6				
AVG=		97.15	4.08		60.0	18350.3	1522.67		2.85				
STD=		0.94	0.11		0.0	4570.0	376.84		0.94				
MAX=		98.7	4.3		60	24700	2048.00		4.0				
MIN=		96.0	4.0		60	11642	960.00		1.3				
STD-1=		1.03	0.12		0.0	5006.2	412.81		1.03				

```

* *****
* DISTRICT:      23 DISTRICT:EASTLAND      HIGHWAY: IH 20
*   TYPE: D      COURSE: SURFACE
* PROJECT: IR20-3(39)324      CONTROL: 7-3-49ETC
* *****

```

DENSITY INFORMATION
DESIGN AC #4

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```

* ***** *
 * DISTRICT: 23 DISTRICT:LAMPASAS HIGHWAY: US 190 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: C231-1-24 CONTROL: 231-1-24 *
 * ***** *

DENSITY INFORMATION
DESIGN AC #1D

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		97.5	5.5	1.262	57		2.5		12.8		80.5
4	90.8	97.3	5.1	1.626	55	9.2	2.7	18.0	12.2	49.0	77.8
5	91.9	96.8	5.3	1.533	52	8.1	3.2	17.4	13.0	53.6	75.5
7	93.4	97.1	5.4	1.160	54	6.6	2.9	16.3	13.0	59.5	77.7
11	93.3	97.5	5.2	1.167	51	6.7	2.5	16.0	12.2	58.1	79.5
12	88.9	98.3	5.4	1.337	51	11.1	1.7	20.3	11.9	45.4	85.7
13	91.5	98.5	5.5	1.307	50	8.5	1.5	18.2	12.0	53.3	87.5
14	93.8	98.6	5.2	1.470	51	6.2	1.4	15.5	11.2	60.1	87.5
15	95.2	97.9	5.3	1.150	48	4.8	2.1	14.5	12.1	66.9	82.6
18	93.7	98.3	5.3	1.317	49	6.3	1.7	15.8	11.7	60.2	85.5
19	92.3	97.3	5.3	1.330	51	7.7	2.7	17.1	12.6	54.9	78.6
21	93.2	96.9	4.9	1.497	50	6.8	3.1	15.4	12.1	56.0	74.4
22	93.2	97.5	4.9	1.497	51	6.8	2.5	15.4	11.5	56.0	78.4
25	93.1	96.1	5.1	1.266	49	6.9	3.9	16.0	13.2	56.8	70.6
26	92.5	97.6	5.2	1.640	50	7.5	2.4	16.7	12.1	55.1	80.2
27	95.2	97.0	5.1	1.283	52	4.8	3.0	14.1	12.4	65.9	75.9
28	91.1	97.2	5.0	1.490	51	8.9	2.8	17.6	12.0	49.3	76.7
29		96.3	5.1		54		3.7		13.1		71.7
32		97.2	5.0		50		2.8		12.0		76.7
34	92.4	97.1	5.0	1.603	53	7.6	2.9	16.4	12.1	53.6	76.1
35		97.3	4.9		53		2.7				
36	92.4	97.5	5.1	1.843	51	7.6	2.5	16.6	12.0	54.2	79.1
37	92.9	97.0	5.2	1.802	54	7.1	3.0	16.3	12.7	56.6	76.3
40	91.1	96.9	5.1	1.750	55	8.9	3.1	17.8	12.5	49.9	75.3
41	91.2	96.9	5.1	1.620	54	8.8	3.1	17.7	12.5	50.2	75.3

COUNT=	21	25	25	22	25	21	25	21	24	21	24
AVG=	92.53	97.34	5.17	1.452	51.8	7.47	2.66	16.63	12.29	55.45	78.53
STD=	1.44	0.60	0.17	0.204	2.2	1.44	0.60	1.37	0.50	5.17	4.42
MAX=	95.2	98.6	5.5	1.843	57	11.1	3.9	20.3	13.2	66.9	87.5
MIN=	88.9	96.1	4.9	1.150	48	4.8	1.4	14.1	11.2	45.4	70.6
STD-1=	1.48	0.62	0.17	0.209	2.2	1.48	0.62	1.40	0.51	5.30	4.52

```

* *****
* DISTRICT:      23 DISTRICT:LAMPASAS      HIGHWAY: US 190
*   TYPE: D      COURSE: SURFACE
* PROJECT: C231-1-24      CONTROL: 231-1-24
* *****

```

DENSITY INFORMATION
DESIGN AC #1D

	Gc/Gl	Gc/Gt ext.	Gc/Gt des.	Gl/Gt ext.	Gl/Gt des.

				99.6	99.2
	93.3	92.8	92.9	99.4	99.6
	94.9	93.9	93.8	98.9	98.8
	96.2	95.4	95.2	99.2	99.0
	95.7	95.4	95.4	99.6	99.6
	90.4	90.8	90.6	100.5	100.2
	92.9	93.5	93.1	100.7	100.2
	95.1	95.9	95.9	100.8	100.8
	97.2	97.3	97.2	100.0	99.9
	95.3	95.8	95.6	100.5	100.3
	94.9	94.3	94.2	99.4	99.3
	96.2	95.3	95.7	99.0	99.5
	95.6	95.3	95.7	99.7	100.1
	96.9	95.2	95.3	98.2	98.4
	94.8	94.5	94.5	99.7	99.7
	98.1	97.3	97.4	99.1	99.3
	93.7	93.1	93.4	99.4	99.6
				98.4	98.6
				99.4	99.6
	95.2	94.7	94.7	99.2	99.5
				99.5	99.9
	94.8	94.4	94.6	99.7	99.8
	95.8	94.9	94.9	99.1	99.1
	94.0	93.1	93.2	99.0	99.2
	94.1	93.2	93.3	99.0	99.2

COUNT=	21	21	21	25	25
AVG=	95.01	94.57	94.60	99.49	99.53
STD=	1.61	1.47	1.51	0.61	0.55
MAX=	98.1	97.3	97.4	100.8	100.8
MIN=	90.4	90.8	90.6	98.2	98.4
STD-1=	1.65	1.51	1.54	0.63	0.56

```

*****
* DISTRICT:      23 DISTRICT:McCulloch      HIGHWAY: US 87      *
*   TYPE: Gr. 4   COURSE: SURFACE          *
* PROJECT: CSR 71-1-30                     CONTROL: 007101030  *
*****

```

DENSITY INFORMATION
DESIGN AC #1D

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1			3.4								
2	94.0		4.1	5.546		6.0					
	94.7			2.316		5.3					
18			3.9								
19	95.9		4.0	3.431		4.1					
23			3.9								
24	95.5			7.263		4.5					
	94.9			3.598		5.1					
36		97.1	3.9		42						
40		96.9	3.8								
COUNT=	5	2	7	5	1	5					
AVG=	95.00	97.00	3.86	4.431	42.0	5.00					
STD=	0.66	0.10	0.21	1.757	0.0	0.66					
MAX=	95.9	97.1	4.1	7.263	42	6.0					
MIN=	94.0	96.9	3.4	2.316	42	4.1					
STD N-1=	0.73	0.14	0.22	1.964	0.0	0.73					

```

* ***** *
* DISTRICT:      23 DISTRICT:McCulloch      HIGHWAY: US 87      *
*   TYPE: Gr. 4   COURSE: SURFACE          *
* PROJECT: CSR 71-1-30          CONTROL: 007101030      *
* ***** *

```

DENSITY INFORMATION
DESIGN AC #1D

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD N-1=
*****

```

 * DISTRICT: 24 DISTRICT:CULBERSON HIGHWAY: US 62/180 *
 * TYPE: D COURSE: SURFACE &LEVEL-UP *
 * PROJECT: CD 233-1-31 CONTROL: 23301031 *

DENSITY INFORMATION
 DESIGN AC

WORKING DAY	CORE DEN., %	LAB. DEN., %	AC, %	CORE THICK., IN.	HVEEM STAB., %	CORE AIR VOIDS	LAB AIR VOIDS	CORE VMA	LAB VMA	CORE VOIDS FILLED	LAB VOIDS FILLED
1		95.2	5.4	1.500	54		4.8				
2		95.1	5.4	1.500	47		4.9				
3		95.2	5.0	1.500	52		4.8				
4		95.2	4.8	1.500	46		4.8				
5		96.5	5.0	1.500	52		3.5				
7		95.7	5.3	1.500	48		4.3				
8		95.3	5.0	1.500	51		4.7				
10		95.2	5.1	1.500	49		4.8				
11		96.5	4.9	1.500	50		3.5				
12		95.3	4.5	1.500	52		4.7				
15		96.3	5.0	1.500	50		3.7				
21		95.4	5.0	1.500	50		4.6				
22		95.1	4.9	1.500	52		4.9				
23		95.3	4.7	1.500	51		4.7				
24		96.5	4.9	1.500	50		3.5				
29		95.8	4.9	1.500	47		4.2				
30		95.7	4.6	1.500	50		4.3				
31		96.7	4.8	1.500	38		3.3				
32		97.0	4.7	1.500	46		3.0				
33		97.5	4.9	1.500	45		2.5				

COUNT=		20	20	20	20		20				
AVG=		95.8	4.9	1.500	49		4.2				
STD=		0.7	0.2	0.000	3		0.7				
MAX=		97.5	5.4	1.500	54		4.9				
MIN=		95.1	4.5	1.500	38		2.5				
STD-1=		0.7	0.2	0.000	4		0.7				

```

*****
* DISTRICT:      24 DISTRICT:CULBERSON      HIGHWAY: US 62/180      *
*   TYPE: D      COURSE: SURFACE &LEVEL-UP  *
* PROJECT: CD 233-1-31      CONTROL: 23301031 *
*****

```

DENSITY INFORMATION
DESIGN AC

	Gc/Gt	Gc/Gt	G1/Gt	G1/Gt
Gc/G1	ext.	des.	ext.	des.

```

*****
COUNT=
AVG=
STD=
MAX=
MIN=
STD-1=
*****

```

APPENDIX E

Level 2 gradation data for all projects.

 * DISTRICT: 1 COUNTY: FANNIN HIGHWAY: US 82 *
 * TYPE: D COURSE: LEVEL UP *
 * PROJECT: CSR-45-5-33 CONTROL: 0045-05-033 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - EXT	SUM IN REGIONS	SUM OF ABS. VALUES
		DS-3						PASSING	AVG. EXT		
+1/2	0.0	0.0	0.0	1/2	100.0	100	0.0				
1/2-3/8	0.0	6.4	4.9	3/8	95.1	93.6	-1.5	100	4.9	4.9	4.9
3/8-#4	26.9	39.6	37.5	4	57.6	54	-3.6	73.1	15.5		
#4-#10	23.6	13.0	17.5	10	40.1	41	0.9	49.5	9.4		
+# 10	50.5	59.0	64.3							24.9	24.9
#10-#40	25.0	11.6	12.2	40	27.9	29.4	1.5	24.5	-3.4		
#40-#80	7.8	13.9	13.4	80	14.5	15.5	1.0	16.7	2.2	-1.3	5.6
#80-#200	5.5	11.0	9.0	200	5.5	4.5	-1.0	11.2	5.7	5.7	5.7
-#200	11.2	4.5	5.5						TOTAL:	34.3	41.1
	100.0	100.0	100.0			SUM:	-2.7				

 *DISTRICT: 1 COUNTY: HUNT HIGHWAY: SH 50 *
 * TYPE: D COURSE: SURFACE *
 *PROJECT: MAF 188(12) CONTROL: 0768-01-030 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - EXT	SUM IN REGIONS	SUM OF ABS. VALUES
		DS-3						PASSING	AVG. EXT		
+1/2	0.0	0.0	0.0	1/2	100.0	100	0.0				
1/2-3/8	0.0	3.7	4.8	3/8	95.2	96.3	1.1	100	4.8	4.8	4.8
3/8-#4	26.9	33.9	39.1	4	56.1	62.4	6.3	73.1	17.0		
#4-#10	23.6	23.2	19.1	10	37.0	39.2	2.2	49.5	12.5		
+# 10	50.5	59.5	63.1							29.6	29.6
#10-#40	25.0	12.7	11.2	40	25.8	26.5	0.7	24.5	-1.3		
#40-#80	7.8	9.4	8.2	80	17.6	17.1	-0.5	16.7	-0.9	-2.2	2.2
#80-#200	5.5	11.3	11.4	200	6.2	5.8	-0.4	11.2	5.0	5.0	5.0
-#200	11.2	5.8	6.2						TOTAL:	37.3	41.6
	100.0	100.0	100.0				9.6				

```

*****
*      DISTRICT: 1      COUNTY: LAMAR      HIGHWAY: SH 19      *
*      TYPE: C        COURSE: SURFACE      *
*      PROJECT: MAF 381(12)      CONTROL: 0136-05-037      *
*****

```

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES.- EXT	.45 LINE %	.45 LINE - EXT	SUM IN REGIONS	SUM OF ABS. VALUES
		DS-3						PASSING	AVG. EXT		
+7/8	0.0	0.0	0.0	7/8	100.0	100	0.0				
7/8-5/8	0.0	0.2	0.0	5/8	100.0	99.8	-0.2	100	0.0		
5/8-3/8	20.5	16.7	16.2	3/8	83.8	83.1	-0.7	79.5	-4.3	-4.3	4.3
3/8-#4	21.3	22.8	24.2	4	59.6	60.3	0.7	58.1	-1.5		
#4-#10	18.79	18.6	18.3	10	41.3	41.7	0.4	39.4	-1.9	-3.4	3.4
+# 10	60.6	58.3	58.7								
#10-#40	19.9	16.0	17.4	40	23.9	25.7	1.8	19.5	-4.4		
#40-#80	6.3	11.7	10.8	80	13.1	14	0.9	13.2	0.1	-4.3	4.5
#80-#200	4.3	7.8	8.6	200	4.6	6.2	1.6	8.9	4.3	4.3	4.3
-#200	8.9	6.2	4.6							TOTAL:	-7.7 16.6
	100.0	100.0	100.0			SUM=	4.5				

```

*****
*      DISTRICT: 1      COUNTY: LAMAR      HIGHWAY: US 82      *
*      TYPE: D        COURSE: SURFACE      *
*      PROJECT: CSB-45-11-22      CONTROL: 0045-11-022      *
*****

```

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES.- EXT	.45 LINE %	.45 LINE - EXT	SUM IN REGIONS	SUM OF ABS. VALUES
		1						PASSING	AVG. EXT		
+1/2	0.0	0.0	0.0	1/2	100.0	100	0.0				
1/2-3/8	0.0	6.1	5.3	3/8	94.7	93.9	-0.8	100	5.3	5.3	5.3
3/8-#4	26.9	35.7	37.6	4	57.1	58.2	1.1	73.1	16.0		
#4-#10	23.6	17.9	20.7	10	36.4	40.3	3.9	49.5	13.1		
+# 10	50.5	59.7	63.6							29.1	29.1
#10-#40	25.0	12.3	11.7	40	24.7	28	3.3	24.5	-0.2		
#40-#80	7.8	14.8	12.3	80	12.4	13.2	0.8	16.7	4.3	4.2	4.5
#80-#200	5.5	11.2	10.7	200	1.6	2	0.4	11.2	9.6	9.6	9.6
-#200	11.2	2.0	1.6							TOTAL:	48.2 48.5
	100.0	100.0	100.0			SUM =	8.8				


```

*****
* DISTRICT: 2 COUNTY: TARRANT HIGHWAY: FM 1886 *
* TYPE: G Gr2 COURSE: SURFACE *
* PROJECT: CSB 1605-2-14 CONTROL: 1605-2-14 *
*****

```

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD. #631	AVG. EXT. GRADATION #631	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES-EXT	.45 LINE % PASSING	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0	0.0	1/2	100.0	100	0.0				
1/2-3/8	0.0	1.6	1.5	3/8	98.5	98.4	-0.1	100	1.5	1.5	1.5
3/8-#4	26.9	29.7	34.3	4	64.2	68.7	4.5	73.1	8.9		
#4-#10	23.6	22.3	21.4	10	42.8	46.4	3.6	49.5	6.7		
+ # 10	50.5	53.6	57.2							15.6	15.6
#10-#40	25.0	20.8	21.5	40	21.3	25.6	4.3	24.5	3.2		
#40-#80	7.8	16.0	12.7	80	8.6	9.6	1.0	16.7	8.1	11.3	11.3
#80-#200	5.5	6.8	6.4	200	2.2	2.8	0.6	11.2	9.0	9.0	9.0
-#200	11.2	2.8	2.2							TOTAL:	37.4
	100.0	100	85.0		SUM:		13.9				

```

*****
* DISTRICT: 2 COUNTY: TARRANT HIGHWAY: FM 1886 *
* TYPE: G Gr2 COURSE: SURFACE *
* PROJECT: CSB 1605-2-14 CONTROL: 1605-2-14*
*****

```

DESIGN GRAD. #631A	AVG. EXT. GRADATION #631A	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES-EXT	.45 LINE % PASSING	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
0	0.0	1/2	100.0	100	0.0				
2.5	1.4	3/8	98.6	97.5	-1.1	100	1.4	1.4	1.4
37.2	32.3	4	66.3	60.3	-6.0	73.1	6.8		
15.2	20.4	10	45.9	45.1	-0.8	49.5	3.6		
54.9	54.1							10.5	10.5
17.5	14.1	40	31.8	27.6	-4.2	24.5	-7.3		
21.9	17.7	80	14.2	5.7	-8.5	16.7	2.5	-4.8	9.9
4.5	10.6	200	3.5	1.2	-2.3	11.2	7.7	7.7	7.7
1.2	3.5							TOTAL:	14.8
100	100.0			SUM:	-22.8				

 * DISTRICT: 2 COUNTY: TARRANT HIGHWAY: FM 1886 *
 * TYPE: G Gr2 COURSE: SURFACE *
 * PROJECT: CSB 1605-2-14 CONTROL: 1605-2-14*

DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. DES. % PASS.	DES. GRAD % PASS	DES-EXT	.45 LINE % PASSING	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
#631A2	#631A2	% PASS.							
0	0.0	1/2	100.0	100	0.0				
3.9	2.6	3/8	97.4	96.1	-1.3	100	2.6	2.6	2.6
31.9	32.4	4	65.0	64.2	-0.8	73.1	8.1		
20.0	19.3	10	45.7	44.2	-1.5	49.5	3.8		
55.8	54.3							11.8	11.8
16.4	15.6	40	30.2	27.8	-2.4	24.5	-5.7		
20.3	18.5	80	11.6	7.5	-4.1	16.7	5.1	-0.6	10.7
5.4	9.6	200	2.0	2.1	0.1	11.2	9.2	9.2	9.2
2.1	2.0						TOTAL:	23.0	34.3
100	100.0			SUM:	-10.1				

 * DISTRICT: 2 COUNTY: TARRANT HIGHWAY: IH-20 *
 * TYPE: G Gr2 COURSE: SURFACE *
 * PROJECT: MA-IR-20-4(193)439 CONTROL: 0008-13-097 *

GRADATION INFORMATION

EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. DES. % PASS.	DES. GRAD % PASS	DES-EXT	.45 LINE % PASSING	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0	0.0	1/2	100.0	100	0.0				
1/2-3/8	0.0	2.5	3.5	3/8	96.5	97.5	1.0	100	3.5	3.5	3.5
3/8-#4	26.9	42.7	39.5	4	57.0	54.8	-2.2	73.1	16.1		
#4-#10	23.6	19.0	20.5	10	36.4	35.8	-0.6	49.5	13.1		
+ # 10	50.5	64.2	63.6							29.2	29.2
#10-#40	25.0	16.4	18.3	40	18.1	19.4	1.3	24.5	6.4		
#40-#80	7.8	13.2	9.9	80	8.2	6.2	-2.0	16.7	8.5	14.9	14.9
#80-#200	5.5	4.5	5.6	200	2.6	1.7	-0.9	11.2	8.6	8.6	8.6
-#200	11.2	1.7	2.6						TOTAL:	56.3	56.3
	100.0	100				SUM:	-3.3				

 * DISTRICT: 3 COUNTY: CLAY HIGHWAY: US 287 *
 * TYPE: D COURSE: LEVEL UP *
 * PROJECT: CSR-44-2-59 CONTROL: 0044-02-059 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD. #1	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0	0.0	1/2	100.0	100	0.0				
1/2-3/8	0.0	2.2	1.6	3/8	98.4	97.8	-0.6	100	1.6	1.6	1.6
3/8-#4	26.9	29.2	26.5	4	71.8	68.6	-3.2	73.1	1.3		
#4-#10	23.6	29.2	31.9	10	40.0	39.4	-0.6	49.5	9.5		
+ # 10	50.5	60.6	60.0							10.8	10.8
#10-#40	25.0	13.8	15.2	40	24.8	25.6	0.8	24.5	-0.3		
#40-#80	7.8	13.4	12.3	80	12.4	12.2	-0.2	16.7	4.3	4.0	4.5
#80-#200	5.5	10.9	8.2	200	4.2	1.3	-2.9	11.2	7.0	7.0	7.0
-#200	11.2	1.3	4.2						TOTAL:	23.4	24.0
	100.0	100	100				-6.7				

 * DISTRICT: 3 COUNTY: WHICHITA & ARCHER HIGHWAY: US 82 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CD156-4-61 & ETC CONTROL: 0156-04-061 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD. #4	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0	0.0	1/2	100.0	100	0.0				
1/2-3/8	0.0	0.9	1.2	3/8	98.8	99.1	0.3	100	1.2	1.2	1.2
3/8-#4	26.9	38.1	37.1	4	61.7	61	-0.7	73.1	11.4		
#4-#10	23.6	20.5	20.1	10	41.6	40.5	-1.1	49.5	7.9		
+ # 10	50.5	59.5	58.4							19.2	19.2
#10-#40	25.0	10.5	12.3	40	29.4	30	0.6	24.5	-4.9		
#40-#80	7.8	12.9	14.1	80	15.3	17.1	1.8	16.7	1.4	-3.5	6.3
#80-#200	5.5	14.6	11.2	200	4.1	2.5	-1.6	11.2	7.1	7.1	7.1
-#200	11.2	2.5	4.1						TOTAL:	24.0	33.8
	100.0	100	100.0			SUM:	-0.8				

```

* *****
* DISTRICT:      4      COUNTY: CARSON      HIGHWAY: US 60      *
*   TYPE: D      COURSE: SURFACE          *
* PROJECT: CSR 169-2-45      CONTROL: 169-3-26      *
* *****

```

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
		#1						PASSING			
+1/2	0.0	0.0	0.0	1/2	100.0	100	0.0				
1/2-3/8	0.0	7.3	5.6	3/8	94.4	92.7	-1.7	100	5.6	5.6	5.6
3/8-#4	26.9	28.9	31.5	4	62.9	63.8	0.9	73.1	10.2		
#4-#10	23.6	23.2	22.4	10	40.5	40.6	0.1	49.5	9.0		
+ # 10	50.5	59.4	59.5							19.2	19.2
#10-#40	25.0	21.3	21.6	40	18.9	19.3	0.4	24.5	5.6		
#40-#80	7.8	8.9	8.6	80	10.2	10.4	0.2	16.7	6.5	12.1	12.1
#80-#200	5.5	5.9	6.7	200	3.5	4.5	1.0	11.2	7.7	7.7	7.7
-#200	11.2	4.5	3.5						TOTAL:	44.6	44.6
	100.0	100	100			SUM:	0.9				

```

* *****
* DISTRICT:      4      COUNTY: CARSON      HIGHWAY: US 60      *
*   TYPE: D      COURSE: LEVEL UP          *
* PROJECT: CSR 169-2-45      CONTROL: 169-4-29      *
* *****

```

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
		#9						PASSING			
+1/2	0.0	0.0	0.0	1/2	100.0	100	0.0				
1/2-3/8	0.0	7.3	5.9	3/8	94.1	92.7	-1.4	100	5.9	5.9	5.9
3/8-#4	26.9	28.9	31.0	4	63.1	63.8	0.7	73.1	10.0		
#4-#10	23.6	23.2	23.4	10	39.7	40.6	0.9	49.5	9.8		
+ # 10	50.5	59.4	60.3							19.9	19.9
#10-#40	25.0	21.3	21.2	40	18.5	19.3	0.8	24.5	6.0		
#40-#80	7.8	8.9	8.2	80	10.3	10.4	0.1	16.7	6.4	12.4	12.4
#80-#200	5.5	5.9	5.7	200	4.6	4.5	-0.1	11.2	6.6	6.6	6.6
-#200	11.2	4.5	4.6						TOTAL:	44.8	44.8
	100.0	100	100			SUM:	1.1				

```

*****
* DISTRICT:      5 COUNTY: GARZA          HIGHWAY: FM 651      *
*   TYPE: D      COURSE: LEVEL-UP        *
* PROJECT: CD 806-04-010                CONTROL: 806-4-10   *
*****

```

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100	0.0				
1/2-3/8	0.0	4.3	3.2	3/8	96.8	95.7	-1.1	100	3.2	3.2	3.2
3/8-#4	26.9	32.1	34.4	4	62.4	63.6	1.2	73.1	10.7		
#4-#10	23.6	29.1	26.3	10	36.1	34.5	-1.6	49.5	13.4		
+# 10	50.5	65.5	62.9							24.2	24.2
#10-#40	25.0	14.3	18.3	40	17.8	20.2	2.4	24.5	6.7		
#40-#80	7.8	11.3	11.5	80	6.3	8.9	2.6	16.7	10.4	17.1	17.1
#80-#200	5.5	5.6	5.0	200	1.3	3.3	2.0	11.2	9.9	9.9	9.9
-#200	11.2	3.3	1.3							TOTAL:	54.5
	100.0	100.0	100.0			SUM:	5.7				

```

*****
*      DISTRICT:      5 COUNTY:      GARZA      HIGHWAY: US 84      *
*      TYPE: D              COURSE: SURFACE      *
*      PROJECT: BRF 635(11)      CONTROL: 53-5-37      *
*****

```

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100	0.0				
1/2-3/8	0.0	2.8	1.6	3/8	98.4	97.2	-1.2	100	1.6	1.6	1.6
3/8-#4	26.9	33.9	33.7	4	64.7	63.3	-1.4	73.1	8.4		
#4-#10	23.6	24.9	25.5	10	39.2	38.4	-0.8	49.5	10.3		
+# 10	50.5	61.6	60.8							18.7	18.7
#10-#40	25.0	18.8	17.3	40	21.9	19.6	-2.3	24.5	2.6		
#40-#80	7.8	11.1	10.1	80	11.8	8.5	-3.3	16.7	4.9	7.5	7.5
#80-#200	5.5	6.8	8.1	200	3.7	1.7	-2.0	11.2	7.5	7.5	7.5
-#200	11.2	1.7	3.7						TOTAL:	35.2	35.2
	100.0	100.0	100.0				SUM:				-11.1

```

*****
*      DISTRICT:      5 COUNTY:      LUBBOCK      HIGHWAY: US 84 & SPUR 326      *
*      TYPE: D              COURSE: LEVEL UP      *
*      PROJECT: MRD001(2) & MDRO21(2)      CONTROL: 52-7-45 & 67-7-66      *
*****

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GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100	0.0				
1/2-3/8	0.0	3.3	2.5	3/8	97.5	96.7	-0.8	100	2.5	2.5	2.5
3/8-#4	26.9	33.7	34.0	4	63.6	63	-0.6	73.1	9.5		
#4-#10	23.6	24.1	24.8	10	38.8	38.9	0.1	49.5	10.7		
+# 10	50.5	61.1	61.2							20.2	20.2
#10-#40	25.0	15.9	15.8	40	23.0	23	-0.0	24.5	1.5		
#40-#80	7.8	13.6	12.9	80	10.1	9.4	-0.7	16.7	6.6	8.1	8.1
#80-#200	5.5	7.5	7.3	200	2.8	1.9	-0.9	11.2	8.4	8.4	8.4
-#200	11.2	1.9	2.9						TOTAL:	39.1	39.1
	100.0	100.0	100.1				SUM:				-3.0

```

*****
*      DISTRICT:      5 COUNTY:      LUBBOCK      HIGHWAY: US 84      *
*      TYPE: D      COURSE: SURFACE      *
*      PROJECT: CSR 53-18-24      CONTROL: 53-18-24      *
*****

```

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100	0.0	-			
1/2-3/8	0.0	2.7	0.5	3/8	99.5	97.3	-2.2	100	0.5	0.5	0.5
3/8-#4	26.9	33.6	34.2	4	65.3	63.7	-1.6	73.1	7.8		
#4-#10	23.6	25.4	26.8	10	38.4	38.3	-0.1	49.5	11.1		
+ # 10	50.5	61.7	61.6							18.9	18.9
#10-#40	25.0	16.6	17.2	40	21.2	21.7	0.5	24.5	3.3		
#40-#80	7.8	9.3	11.2	80	10.0	12.4	2.4	16.7	6.7	10.0	10.0
#80-#200	5.5	8.3	7.7	200	2.3	4.1	1.8	11.2	8.9	8.9	8.9
-#200	11.2	4.1	2.3							TOTAL:	38.3
	100.0	100.0	100.0			SUM:	0.8				

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*****
*      DISTRICT:      5 COUNTY:      LUBBOCK      HIGHWAY: US 84      *
*      TYPE: C      COURSE: SURFACE      *
*      PROJECT: CSR 53-18-24      CONTROL: 53-18-25      *
*****

```

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	DES. GRAD % PASS	DES.- EXT	.45 LINE %	AVG. EXT. % PASS.	.45 LINE - AVG. EXT	SUM IN	SUM OF ABS. VALUES
7/8	0.0	0.0	0.0	7/8	100	0.0		100.0			
7/8-5/8	0.0	1.5	4.3	5/8	98.5	2.8	100	95.7	4.3		
5/8-3/8	20.5	24.4	24.1	3/8	74.1	2.4	79.5	71.7	7.8	12.1	12.1
3/8-#4	21.3	22.5	22.1	4	51.6	2.0	58.1	49.6	8.5		
#4-#10	15.6	15.3	14.1	10	36.3	0.8	39.4	35.5	3.9	12.4	12.4
+ # 10	57.4	63.7	63.8								
#10-#40	23.1	15.5	15.4	40	20.8	0.7	19.5	20.1	-0.6		
#40-#80	6.3	10.7	10.9	80	10.1	1.0	13.2	9.1	4.1	3.5	4.6
#80-#200	4.3	6.8	7.0	200	3.3	1.1	8.9	2.2	6.7	6.7	6.7
-#200	8.9	3.3	2.2							TOTAL:	34.7
	100.0	100.0	100.0		SUM=	10.8					

 * DISTRICT: 5 COUNTY: LUBBOCK HIGHWAY: US 84 *
 * TYPE: D COURSE: LEVEL-UP *
 * PROJECT: CSR 53-18-24 CONTROL: 53-18-24 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD. #2	AVG. EXT. GRADATION #2	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE % PASSING	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100	0.0				
1/2-3/8	0.0	4.9	4.6	3/8	95.4	95.1	-0.3	100	4.6	4.6	4.6
3/8-#4	26.9	33.4	31.9	4	63.6	61.7	-1.9	73.1	9.5		
#4-#10	23.6	26.5	27.0	10	36.6	35.2	-1.4	49.5	12.9		
+# 10	50.5	64.8	63.4							22.5	22.5
#10-#40	25.0	15.4	16.1	40	20.4	19.8	-0.6	24.5	4.1		
#40-#80	7.8	10.5	10.4	80	10.1	9.3	-0.8	16.7	6.6	10.7	10.7
#80-#200	5.5	6.6	7.8	200	2.2	2.7	0.5	11.2	9.0	9.0	9.0
-#200	11.2	2.7	2.2						TOTAL:	46.7	46.7
	100.0					SUM:	-4.5				
		100.0	100.0								

 * DISTRICT: 5 COUNTY: LUBBOCK HIGHWAY: US 84 *
 * TYPE: D COURSE: LEVEL-UP *
 * PROJECT: CSR 53-18-24 CONTROL: 53-18-24 *

DESIGN GRAD.	AVG. EXT. GRADATION #3	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE % PASSING	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
0.0	0.0	1/2	100.0	100	0.0				
3.8	4.2	3/8	95.8	96.2	0.4	100	4.2	4.2	4.2
30.6	29.8	4	66.0	65.6	-0.4	73.1	7.1		
26.4	26.2	10	39.8	39.2	-0.6	49.5	9.7		
60.8	60.2							16.7	16.7
19.0	18.0	40	21.9	20.2	-1.7	24.5	2.6		
11.7	11.8	80	10.1	8.5	-1.6	16.7	6.6	9.2	9.2
6.2	7.6	200	2.5	2.3	-0.2	11.2	8.7	8.7	8.7
2.3	2.5						TOTAL:	38.9	38.9
				SUM:	-4.1				
100.0	100.0							100.0	100.0

 * DISTRICT: 5 COUNTY: HOCKLEY HIGHWAY: F.M. 300 & LOOP 44
 * TYPE: D COURSE: SURFACE
 * PROJECT: M D301(1) & M D302(1) CONTROL: 130-07-019
 * *****

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - EXT	SUM IN	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100	0.0				
1/2-3/8	0.0	2.8	1.9	3/8	98.1	97.2	-0.9	100	1.9	1.9	1.9
3/8-#4	26.9	33.9	36.1	4	62.0	63.3	1.3	73.1	11.1		
#4-#10	23.6	24.9	24.4	10	37.6	38.4	0.8	49.5	11.9		
+# 10	50.5	61.6	59.5							23.1	23.1
#10-#40	25.0	18.8	16.8	40	20.8	19.6	-1.2	24.5	3.7		
#40-#80	7.8	11.1	10.7	80	10.1	8.5	-1.6	16.7	6.6	10.3	10.3
#80-#200	5.5	6.8	6.4	200	3.7	1.7	-2.0	11.2	7.5	7.5	7.5
-#200	11.2	1.7	3.7							TOTAL:	42.7
	100.0	100.0	100.0				SUM:		-3.6		

 * DISTRICT: 7 COUNTY: TOM GREEN HIGHWAY: F.M. 388 & SPUR 126
 * TYPE: D COURSE: SURFACE
 * PROJECT: CSB2284-1-13 CONTROL: 2284-01-013
 * *****

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - EXT	SUM IN	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100	0.0				
1/2-3/8	0.0	2.2	2.2	3/8	97.8	97.8	0.0	100	2.2	2.2	2.2
3/8-#4	26.9	35.5	38.7	4	59.1	62.3	3.2	73.1	14.0		
#4-#10	23.6	21.1	21.0	10	38.1	41.2	3.1	49.5	11.4		
+# 10	50.5	58.8	61.9							25.4	25.4
#10-#40	25.0	17.3	15.6	40	22.5	23.9	1.4	24.5	2.0		
#40-#80	7.8	12.5	12.9	80	9.5	11.4	1.9	16.7	7.2	9.2	9.2
#80-#200	5.5	5.8	4.7	200	4.8	5.6	0.8	11.2	6.4	6.4	6.4
-#200	11.2	5.6	4.8							TOTAL:	43.2
	100.0	100.0	100.0				SUM:		10.4		

* *****
 * DISTRICT: 7 COUNTY: TOM GREEN HIGHWAY: US 67
 * TYPE: D COURSE: SURFACE
 * PROJECT: F229(10) CONTROL: 158-2-49
 * *****

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100	0.0				
1/2-3/8	0.0	2.2	3.1	3/8	96.9	97.8	0.9	100	3.1	3.1	3.1
3/8-#4	26.9	35.5	37.9	4	59.0	62.3	3.3	73.1	14.1		
#4-#10	23.6	21.1	19.8	10	39.2	41.2	2.0	49.5	10.3		
+ # 10	50.5	58.8	58.4							24.4	24.4
#10-#40	25.0	17.3	16.0	40	23.2	23.9	0.7	24.5	1.3		
#40-#80	7.8	12.5	12.6	80	10.6	11.4	0.8	16.7	6.1	7.3	7.3
#80-#200	5.5	5.8	5.0	200	5.6	5.6	-0.0	11.2	5.6	5.6	5.6
-#200	11.2	5.6	5.6							TOTAL:	40.5
	100.0	100.0	100.0				SUM:	7.7			

* *****
 * DISTRICT: 8 COUNTY: NOLAN HIGHWAY: IH 20
 * TYPE: D COURSE: SURFACE
 * PROJECT: IR 20-2(156)235 CONTROL: 0006-02-076
 * *****

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0	0.0	1/2	100.0	100	0.0				
1/2-3/8	0.0	4.1	2.6	3/8	97.4	95.9	-1.5	100	2.6	2.6	2.6
3/8-#4	26.9	33.8	32.5	4	65.0	62.1	-2.8	73.1	8.1		
#4-#10	23.6	24.0	27.3	10	37.7	38.1	0.4	49.5	11.8		
+ # 10	50.5	61.9	62.3							20.0	20.0
#10-#40	25.0	13.7	11.6	40	26.1	24.4	-1.7	24.5	-1.6		
#40-#80	7.8	12.8	10.9	80	15.3	11.6	-3.7	16.7	1.4	-0.2	3.1
#80-#200	5.5	7.7	9.6	200	5.7	3.9	-1.8	11.2	5.5	5.5	5.5
-#200	11.2	3.9	5.7							TOTAL:	27.9
	100.0	100	100				SUM:	-11.1			

```

*****
*           DISTRICT:      8 COUNTY: NOLAN           HIGHWAY: IH 20      *
*           TYPE: D        COURSE: LEVEL UP          *
*           PROJECT: IR 20-2(156)235                CONTROL: 0006-02-076 *
*****

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GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0	0.0	1/2	100.0	100	0.0				
1/2-3/8	0.0	4.1	3.4	3/8	96.6	95.9	-0.7	100	3.4	3.4	3.4
3/8-#4	26.9	33.8	33.5	4	63.1	62.1	-1.0	73.1	10.0		
#4-#10	23.6	24.0	25.7	10	37.4	38.1	0.7	49.5	12.1		
+# 10	50.5	61.9	62.6							22.1	22.1
#10-#40	25.0	13.7	11.3	40	26.1	24.4	-1.7	24.5	-1.6		
#40-#80	7.8	12.8	11.0	80	15.1	11.6	-3.5	16.7	1.6	0.0	3.2
#80-#200	5.5	7.7	9.5	200	5.6	3.9	-1.7	11.2	5.6	5.6	5.6
-#200	11.2	3.9	5.6						TOTAL:	31.2	34.3
	100.0	100	100.0			SUM:	-7.8				

```

*****
*           DISTRICT:      8 COUNTY: TAYLOR          HIGHWAY: IH 20      *
*           TYPE: D        COURSE: SURFACE           *
*           PROJECT: CSB6-6-66                      CONTROL: 0693-03-028 *
*****

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GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD. #1	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0	0.0	1/2	100.0	100	0.0				
1/2-3/8	0.0	4.1	4.3	3/8	95.7	95.9	0.2	100	4.3	4.3	4.3
3/8-#4	26.9	33.8	31.4	4	64.2	62.1	-2.1	73.1	8.9		
#4-#10	23.6	24.0	25.9	10	38.3	38.1	-0.2	49.5	11.2		
+# 10	50.5	61.9	61.7							20.0	20.0
#10-#40	25.0	13.7	12.2	40	26.1	24.4	-1.7	24.5	-1.6		
#40-#80	7.8	12.8	11.4	80	14.7	11.6	-3.1	16.7	2.0	0.4	3.6
#80-#200	5.5	7.7	9.1	200	5.5	3.9	-1.6	11.2	5.7	5.7	5.7
-#200	11.2	3.9	5.5						TOTAL:	30.5	33.7
	100.0	100	100			SUM:	-8.5				

```

*****
*      DISTRICT:      8      COUNTY: TAYLOR      HIGHWAY: US 83      *
*      TYPE: D      COURSE: SURFACE      *
*      PROJECT: CSR 33-6-76      CONTROLL: 33-6-76      *
*****

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GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100	0.0				
1/2-3/8	0.0	2.5	3.7	3/8	96.3	97.5	1.2	100	3.7	3.7	3.7
3/8-#4	26.9	32.5	30.3	4	66.0	65	-1.0	73.1	7.1		
#4-#10	23.6	25.1	24.9	10	41.0	39.9	-1.1	49.5	8.5		
+ # 10	50.5	60.1	59.0							15.6	15.6
#10-#40	25.0	15.5	18.5	40	22.5	24.4	1.9	24.5	2.0		
#40-#80	7.8	12.5	10.2	80	12.4	11.9	-0.5	16.7	4.3	6.3	6.3
#80-#200	5.5	7.0	5.8	200	6.6	4.9	-1.7	11.2	4.6	4.6	4.6
-#200	11.2	4.9	6.5						TOTAL:	30.3	30.3
	100.0	100.0	100.0				SUM:		-1.1		

```

*****
*      DISTRICT:      8      COUNTY: TAYLOR      HIGHWAY: US 83      *
*      TYPE: D      COURSE: SURFACE      *
*      PROJECT: CSR 33-6-76      CONTROLL: 33-6-76      *
*****

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GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100	0.0				
1/2-3/8	0.0	2.5	3.7	3/8	96.3	97.5	1.2	100	3.7	3.7	3.7
3/8-#4	26.9	32.5	30.3	4	66.0	65	-1.0	73.1	7.1		
#4-#10	23.6	25.1	24.9	10	41.0	39.9	-1.1	49.5	8.5		
+ # 10	50.5	60.1	59.0							15.6	15.6
#10-#40	25.0	15.5	18.5	40	22.5	24.4	1.9	24.5	2.0		
#40-#80	7.8	12.5	10.2	80	12.4	11.9	-0.5	16.7	4.3	6.3	6.3
#80-#200	5.5	7.0	5.8	200	6.6	4.9	-1.7	11.2	4.6	4.6	4.6
-#200	11.2	4.9	6.5						TOTAL:	30.3	30.3
	100.0	100.0	100.0				SUM:		-1.1		

 * DISTRICT: 10 COUNTY: ANDERSON HIGHWAY: US 287 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CSB 109-1-39 CONTROL: 0109-01-039 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD. DS-3	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES	
+1/2	0.0	0.0	0.0	1/2	100.0	100	0.0					
1/2-3/8	0.0	5.0	5.2	3/8	94.8	95.0	0.2	100	5.2	5.2	5.2	
3/8-#4	26.9	34.6	36.3	4	58.5	60.5	1.9	73.1	14.6			
#4-#10	23.6	24.9	22.7	10	35.9	35.5	-0.3	49.5	13.6			
+ # 10	50.5	64.5	64.1							28.2	28.2	
#10-#40	25.0	11.2	9.6	40	26.2	24.3	-1.9	24.5	-1.7			
#40-#80	7.8	11.1	11.8	80	14.4	13.2	-1.2	16.7	2.3	0.5	4.0	
#80-#200	5.5	10.3	10.2	200	4.3	3.0	-1.3	11.2	6.9	6.9	6.9	
-#200	11.2	3.0	4.3							TOTAL:	40.9	44.3
	100.0	100.0	100.0				SUM:		-2.6			

 * DISTRICT: 12 COUNTY: GALVESTON & HARRISHIGHWAY: FM 1764 *
 * TYPE: D COURSE: LEVEL UP *
 * PROJECT: CSR 1607-1-27 CONTROL: 1607-1-27 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD. D-1	AVG. EXT. GRADATION D-1	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES	
+1/2	0.0	0.0	0.0	1/2	100.0	100	0.0					
1/2-3/8	0.0	13.0	6.8	3/8	93.2	87	-6.2	100	6.8	6.8	6.8	
3/8-#4	26.9	37.1	37.5	4	55.7	49.9	-5.8	73.1	17.4			
#4-#10	23.6	15.4	19.3	10	36.4	34.5	-1.9	49.5	13.1			
+ # 10	50.5	63.8	63.6							30.5	30.5	
#10-#40	25.0	10.8	11.1	40	25.3	23.7	-1.6	24.5	-0.8			
#40-#80	7.8	17.5	15.4	80	9.9	6.2	-3.7	16.7	6.8	6.0	7.6	
#80-#200	5.5	3.2	5.6	200	4.3	3	-1.3	11.2	6.9	6.9	6.9	
-#200	11.2	3.0	4.3							TOTAL:	50.1	51.7
	100.0	100.0	100.0				SUM:		-20.6			

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*****
* DISTRICT: 12 COUNTY: GALVESTON & HARRISHIGHWAY: FM 1764 *
* TYPE: D COURSE: LEVEL UP *
* PROJECT: CSR 1607-1-27 CONTROL: 1607-1-27 *
*****

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DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. DES. % PASS.	DES. GRAD % PASS	DES-EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
D2-3	D2-3	% PASS.							
0.0	0.0	1/2	100.0	100	0.0				
6.8	4.8	3/8	95.2	93.2	-2.0	100	4.8	4.8	4.8
37.9	33.9	4	61.3	55.3	-6.0	73.1	11.8		
19.1	21.4	10	39.9	36.2	-3.7	49.5	9.6		
63.8	60.1							21.4	21.4
11.0	12.8	40	27.1	25.2	-1.8	24.5	-2.6		
15.3	15.6	80	11.4	9.9	-1.5	16.7	5.3	2.7	7.8
5.6	6.4	200	5.0	4.3	-0.7	11.2	6.2	6.2	6.2
4.3	5.0						TOTAL:	35.2	40.3
100.0	100.0				SUM:	-15.7			

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*****
* DISTRICT: 12 COUNTY: MONTGOMERY FM 1314 *
* TYPE: D COURSE: SURFACE *
* PROJECT: CSR1986-1-18 1986-1-18 *
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GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. DES. % PASS.	DES. GRAD % PASS	DES-EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
		DS-1		% PASS.							
+1/2	0.0	0	0.0	1/2	100.0	100	0.0				
1/2-3/8	0.0	5.9	3.8	3/8	96.2	94.1	-2.1	100	3.8	3.8	3.8
3/8-#4	26.9	29.6	32.5	4	63.8	64.5	0.7	73.1	9.3		
#4-#10	23.6	23.7	22.5	10	41.2	40.8	-0.4	49.5	8.3		
+# 10	50.5	59.7	58.8							17.6	17.6
#10-#40	25.0	13.5	11.5	40	29.7	27.3	-2.4	24.5	-5.2		
#40-#80	7.8	16.5	16.4	80	13.4	10.8	-2.6	16.7	3.3	-1.9	8.6
#80-#200	5.5	5.5	6.7	200	6.7	5.3	-1.4	11.2	4.5	4.5	4.5
-#200	11.2	5.3	6.7						TOTAL:	24.1	34.5
	100.0	100	100.0				SUM:	-8.1			

 * DISTRICT: 12 COUNTY: MONTGOMERY HIGHWAY: IH 45 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: IR45-1(226)084 CONTROL: C675-08-48 *
 * *****

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD. DS-1	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. DES. GRAD % PASS.	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100	0.0			
1/2-3/8	0.0	7.3	6.0	3/8	94.0	92.7	-1.3	100	6.0	6.0
3/8-#4	26.9	36.4	39.1	4	54.9	56.3	1.4	73.1	18.2	
#4-#10	23.6	16.3	14.8	10	40.1	40	-0.1	49.5	9.4	
+ # 10	50.5	60.0	59.9						27.6	27.6
#10-#40	25.0	11.0	12.2	40	27.9	29	1.1	24.5	-3.4	
#40-#80	7.8	17.5	18.3	80	9.5	11.5	2.0	16.7	7.2	3.8
#80-#200	5.5	6.5	5.9	200	3.6	5	1.4	11.2	7.6	7.6
-#200	11.2	5.0	3.7					TOTAL:	44.9	51.7
	100.0	100.0	100.0		SUM:	4.4				

 * DISTRICT: 13 COUNTY: FAYETTE HIGHWAY: US 77 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CSR 26-3-35 CONTROL: 26-3-35 *
 * *****

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD. DW-2	AVG. EXT. GRADATION DW-2	SIEVES FOR % PASS.	AVG. EXT. DES. GRAD % PASS.	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100	0.0			
1/2-3/8	0.0	4.0	3.0	3/8	97.0	96	-1.0	100	3.0	3.0
3/8-#4	26.9	31.7	28.4	4	68.6	64.3	-4.3	73.1	4.5	
#4-#10	23.6	26.3	29.8	10	38.8	38	-0.8	49.5	10.7	
+ # 10	50.5	62.0	61.3						15.3	15.3
#10-#40	25.0	13.5	15.0	40	23.8	24.5	0.7	24.5	0.7	
#40-#80	7.8	11.3	12.4	80	11.4	13.2	1.8	16.7	5.3	6.0
#80-#200	5.5	10.0	7.6	200	3.8	3.2	-0.6	11.2	7.4	7.4
-#200	11.2	3.2	3.8					TOTAL:	31.7	31.7
	100.0	100.0	100.0		SUM:	-4.1				

 * DISTRICT: 13 FAYETTE HIGHWAY: US 77 *
 * TYPE: D SURFACE *
 * PROJECT: CSR 26-3-35 CONTROL: 26-3-35 *

DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE % PASSING	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
DW-4	DW-4	% PASS.							
0.0	0.0	1/2	100.0	100	0.0				
3.7	3.5	3/8	96.6	96.3	-0.3	100	3.5	3.5	3.5
29.4	28.2	4	68.3	66.9	-1.4	73.1	4.8		
28.5	29.7	10	38.6	38.4	-0.2	49.5	10.9		
61.6	61.4							15.7	15.7
14.9	14.9	40	23.7	23.5	-0.2	24.5	0.8		
11.9	12.0	80	11.7	11.6	-0.1	16.7	5.0	5.9	5.9
7.6	7.9	200	3.8	4	0.3	11.2	7.4	7.4	7.4
4.0	3.8						TOTAL:	32.4	32.4
100.0	100.0			SUM:	-1.9				

 * DISTRICT: 13 COUNTY: FAYETTE HIGHWAY: US 77 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CSR 26-3-35 CONTROL: 26-3-35 *

DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR	.45 LINE % PASSING	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
DW-5	DW-5	% PASS.							
0.0	0.0	1/2		100.0	100	0.0			
2.8	4.1	3/8	100	95.9	97.2	1.3	4.1	4.1	4.1
35.0	34.9	4	73.1	61.1	62.2	1.1	12.0		
22.7	21.5	10	49.5	39.6	39.5	-0.1	9.9		
60.5	60.4							22.0	22.0
12.4	12.9	40	24.5	26.7	27.1	0.4	-2.2		
12.6	12.6	80	16.7	14.1	14.5	0.4	2.6	0.4	4.8
8.6	7.5	200	11.2	6.6	5.9	-0.7	4.6	4.6	4.6
5.9	6.6						TOTAL:	31.0	35.4
100.0	100.0				SUM:	2.4			


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*****
* DISTRICT:      13 COUNTY: FAYETTE      HIGHWAY: US 77      *
* TYPE: D        COURSE: SURFACE        *
* PROJECT: CSR 26-3-35      CONTROL: 26-3-35      *
*****

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DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN	SUM OF ABS.
DW-6	DW-6	% PASS.				PASSING		REGIONS	VALUES
0.0	0.0	1/2	100.0	100	0.0				
3.5	5.0	3/8	95.0	96.5	1.5	100	5.0	5.0	5.0
27.5	28.0	4	66.9	69	2.1	73.1	6.2		
28.9	26.9	10	40.0	40.1	0.1	49.5	9.5		
59.9	60.0							15.6	15.6
13.4	14.1	40	25.9	26.7	0.8	24.5	-1.4		
14.1	13.1	80	12.9	12.6	-0.3	16.7	3.8	2.4	5.3
10.1	8.5	200	4.3	2.5	-1.8	11.2	6.9	6.9	6.9
2.5	4.3						TOTAL:	30.0	32.8
100.0	100.0			SUM:	2.4				

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*****
* DISTRICT:      13 DISTRICT: GONZALES      HIGHWAY: SH 80      *
* TYPE: D        COURSE: SURFACE        *
* PROJECT: CSR-287-3-17      CONTROL: 0287-03-017      *
*****

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GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR	.45 LINE %	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE - AVG. EXT	SUM IN	SUM OF ABS.
		DS-3		% PASS.	PASSING					REGIONS	VALUES
+1/2	0.0	0.0	0.0	1/2		100.0	100	0.0			
1/2-3/8	0.0	9.3	6.5	3/8	100	93.5	90.7	-2.8	6.5	6.5	6.5
3/8-#4	26.9	31.1	31.4	4	73.1	62.1	59.6	-2.5	11.0		
#4-#10	23.6	21.5	23.6	10	49.5	38.5	38.1	-0.4	11.0		
+# 10	50.5	61.9	61.5							22.1	22.1
#10-#40	25.0	11.5	12.3	40	24.5	26.1	26.6	0.5	-1.6		
#40-#80	7.8	16.8	14.9	80	16.7	11.3	9.8	-1.5	5.4	3.8	7.1
#80-#200	5.5	6.1	7.8	200	11.2	3.5	3.7	0.2	7.7	7.7	7.7
-#200	11.2	3.7	3.5						TOTAL:	40.1	43.4
	100.0	100.0	100.0				SUM:	-6.4			

 * DISTRICT: 13 DISTRICT: GONZALES HIGHWAY: US 87 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CSR-143-7-31 CONTROL: 0143-07-031 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - EXT	SUM IN REGIONS	SUM OF ABS. VALUES
		DS-3						PASSING	AVG. EXT		
+1/2	0.0	0.0	0.0	1/2	100.0	100	0.0				
1/2-3/8	0.0	9.3	6.5	3/8	93.5	90.7	-2.8	100	6.5	6.5	6.5
3/8-#4	26.9	31.1	31.7	4	61.8	59.6	-2.2	73.1	11.3		
#4-#10	23.6	21.5	23.6	10	38.2	38.1	-0.1	49.5	11.3		
+ # 10	50.5	61.9	61.8							22.6	22.6
#10-#40	25.0	11.5	12.4	40	25.8	26.6	0.8	24.5	-1.3		
#40-#80	7.8	16.8	14.9	80	11.0	9.8	-1.2	16.7	5.7	4.4	7.1
#80-#200	5.5	6.1	7.6	200	3.4	3.7	0.3	11.2	7.8	7.8	7.8
-#200	11.2	3.7	3.4						TOTAL:	41.2	43.9
	100.0	100.0	100.0			SUM:	-5.3				

 * DISTRICT: 13 COUNTY: JACKSON HIGHWAY: SH 111 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: SR 40(5) CONTROL: 346-2-10 *

GRADATION INFORMATION

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - EXT	SUM IN REGIONS	SUM OF ABS. VALUES
		#86-184						PASSING	AVG. EXT		
+1/2	0.0	0.0	0.0	1/2	100.0	100	0.0				
1/2-3/8	0.0	2.8	3.0	3/8	97.0	97.2	0.2	100	3.0	3.0	3.0
3/8-#4	26.9	37.5	35.2	4	61.8	59.7	-2.1	73.1	11.3		
#4-#10	23.6	22.0	20.8	10	41.0	37.7	-3.3	49.5	8.5		
+ # 10	50.5	62.3	59.0							19.8	19.8
#10-#40	25.0	14.3	13.7	40	27.3	23.4	-3.9	24.5	-2.8		
#40-#80	7.8	9.6	10.9	80	16.4	13.8	-2.6	16.7	0.3	-2.5	3.1
#80-#200	5.5	8.8	9.6	200	6.8	5	-1.8	11.2	4.4	4.4	4.4
-#200	11.2	5.0	6.8						TOTAL:	24.7	30.3
	100.0	100.0	100.0			SUM:	-13.5				

 * DISTRICT: 13 DISTRICT: LAVACA HIGHWAY: SH 95 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CSR-26-3-35 CONTROL: CSRO324-02-012 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD. DW-5	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE % PASSING	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100	0.0				
1/2-3/8	0.0	2.8	5.3	3/8	94.7	97.2	2.5	100	5.3	5.3	5.3
3/8-#4	26.9	35.0	33.3	4	61.4	62.2	0.8	73.1	11.7		
#4-#10	23.6	22.7	20.2	10	41.2	39.5	-1.7	49.5	8.3		
+# 10	50.5	60.5	58.8							19.9	19.9
#10-#40	25.0	12.4	13.1	40	28.1	27.1	-1.0	24.5	-3.6		
#40-#80	7.8	12.6	11.2	80	16.9	14.5	-2.4	16.7	-0.2	-3.9	3.9
#80-#200	5.5	8.6	9.5	200	7.4	5.9	-1.5	11.2	3.8	3.8	3.8
-#200	11.2	5.9	7.4						TOTAL:	25.2	32.9
	100.0	100.0	100.0			SUM:	-3.4				

 * DISTRICT: 14 COUNTY: BASTROP HIGHWAY: SH 21 *
 * TYPE: C COURSE: SURFACE *
 * PROJECT: CSR-265-3-24 CONTROL: 0471-05-024 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD. #1	AVG. EXT. GRADATION #1	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE % PASSING	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+7/8	0.0	0.0	0.0	7/8	100.0	100	0.0				
7/8-5/8	0.0	0.2	0.7	5/8	99.3	99.8	0.5	100	0.7		
5/8-3/8	20.5	26.5	23.3	3/8	76.0	73.3	-2.7	79.5	3.5	4.2	4.2
3/8-#4	21.3	23.6	24.4	4	51.7	49.7	-2.0	58.1	6.4		
#4-#10	18.79	15.2	16.2	10	35.5	34.5	-1.0	39.4	3.9	10.3	10.3
+# 10	60.6	65.5	64.5								
#10-#40	19.9	19.5	17.6	40	17.9	15	-2.9	19.5	1.6		
#40-#80	6.3	8.8	8.5	80	9.4	6.2	-3.2	13.2	3.8	5.4	5.4
#80-#200	4.3	4.2	5.7	200	3.7	2	-1.7	8.9	5.2	5.2	5.2
-#200	8.9	2.0	3.7						TOTAL:	25.0	25.0
	100.0	100.0	100.0			SUM=	-13.1				

 * DISTRICT: 14 COUNTY: BASTROP HIGHWAY: SH 21 *
 * TYPE: C COURSE: SURFACE *
 * PROJECT: CSR-265-3-24 CONTROL: 0471-05-024 *

DESIGN GRAD. #2	AVG. EXT. GRADATION #2	SIEVES FOR % PASS.	AVG. EXT. DES. GRAD % PASS.	DES.- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN	SUM OF ABS. VALUES
0.0	0.0	7/8	100.0	100	0.0			
0.6	1.0	5/8	99.0	99.4	0.4	100	1.0	
23.3	22.4	3/8	76.7	76.1	-0.6	79.5	2.8	3.8
24.4	22.4	4	54.3	51.7	-2.6	58.1	3.8	
16.2	16.8	10	37.5	35.5	-2.0	39.4	1.9	5.8
64.5	62.5							
17.6	17.8	40	19.6	17.9	-1.7	19.5	-0.1	
8.5	9.5	80	10.2	9.4	-0.8	13.2	3.0	2.9
5.7	5.7	200	4.5	3.7	-0.8	8.9	4.4	4.4
3.7	4.5							
							TOTAL:	16.9
100.0	100.0		SUM=	-8.0				17.2

 * DISTRICT: 14 COUNTY: BASTROP HIGHWAY: SH 71 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: MA-F 283(13) CONTROL: 0265-05-046 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. DES. GRAD % PASS.	DES.- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100	0.0			
1/2-3/8	0.0	7.3	8.3	3/8	91.7	92.7	1.0	100	8.3	8.3
3/8-#4	26.9	35.4	32.8	4	58.8	57.3	-1.5	73.1	14.3	
#4-#10	23.6	22.5	23.0	10	35.8	34.8	-1.0	49.5	13.7	
+# 10	50.5	65.2	64.2						28.0	28.0
#10-#40	25.0	13.1	13.9	40	21.9	21.7	-0.2	24.5	2.6	
#40-#80	7.8	7.3	7.3	80	14.6	14.4	-0.2	16.7	2.1	4.7
#80-#200	5.5	8.4	8.2	200	6.5	6	-0.5	11.2	4.7	4.7
-#200	11.2	6.0	6.5							
								TOTAL:	45.7	45.7
	100.0	100.0	100.0		SUM:	-2.4				

 * DISTRICT: 14 COUNTY: BLANCO HIGHWAY: US 281 *
 * TYPE: C COURSE: SURFACE *
 * PROJECT: CSR-253-1-33 CONTROL: 0253-01-033 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD. DS-3	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES.- EXT	.45 LINE %	.45 LINE - EXT	SUM IN	SUM OF ABS. VALUES
+7/8	0.0	0.0	0.0	7/8	100.0	100	0.0				
7/8-5/8	0.0	1.1	0.2	5/8	99.8	98.9	-0.9	100	0.2		
5/8-3/8	20.5	22.8	22.2	3/8	77.6	76.1	-1.5	79.5	1.9	2.2	2.2
3/8-#4	21.3	16.4	18.3	4	59.3	59.7	0.4	58.1	-1.2		
#4-#10	18.79	21.3	21.2	10	38.1	38.4	0.3	39.4	1.3	0.2	2.5
+ # 10	60.6	61.6	61.9								
#10-#40	19.9	11.8	12.7	40	25.4	26.6	1.2	19.5	-5.9		
#40-#80	6.3	13.7	12.7	80	12.7	12.9	0.2	13.2	0.5	-5.4	6.4
#80-#200	4.3	9.2	8.1	200	4.5	3.7	-0.8	8.9	4.4	4.4	4.4
-#200	8.9	3.7	4.5						TOTAL:	1.3	15.4
	100.0	100.0	100.0			SUM=	-1.0				

 * DISTRICT: 14 COUNTY: LEE HIGHWAY: US 290 *
 * TYPE: C COURSE: SURFACE *
 * PROJECT: CRS-114-7-51 CONTROL: 0114-07-051 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD. #1	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES.- EXT	.45 LINE %	.45 LINE - EXT	SUM IN	SUM OF ABS. VALUES
+7/8	0.0	0.0	0.0	7/8	100.0	100	0.0				
7/8-5/8	0.0	0.9	0.4	5/8	99.6	99.1	-0.5	100	0.4		
5/8-3/8	20.5	23.0	23.8	3/8	75.8	76.1	0.3	79.5	3.7	4.1	4.1
3/8-#4	21.3	15.6	16.6	4	59.2	60.5	1.3	58.1	-1.1		
#4-#10	18.79	23.6	22.3	10	37.0	36.9	-0.1	39.4	2.4	1.3	3.6
+ # 10	60.6	63.1	63.0								
#10-#40	19.9	19.4	17.2	40	19.8	17.5	-2.3	19.5	-0.3		
#40-#80	6.3	12.9	13.0	80	6.8	4.6	-2.2	13.2	6.4	6.1	6.7
#80-#200	4.3	3.2	4.4	200	2.4	1.4	-1.0	8.9	6.5	6.5	6.5
-#200	8.9	1.4	2.4						TOTAL:	18.0	20.8
	100.0	100.0	100.0			SUM=	-4.5				

```

*****
*      DISTRICT: 14      COUNTY: TRAVIS      HIGHWAY: IH35 MAIN LANES      *
*      TYPE: C          COURSE: SURFACE      *
*      PROJECT: CSR-15-13-201      CONTROL: 0015-13-201      *
*****

```

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES.- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN	SUM OF ABS. VALUES
		DS-3						PASSING		REGIONS	
+7/8	0.0	0.0	0.0	7/8	100.0	100	0.0				
7/8-5/8	0.0	1.1	0.1	5/8	99.9	98.9	-1.0	100	0.1		
5/8-3/8	20.5	22.8	21.1	3/8	78.8	76.1	-2.7	79.5	0.7	0.9	0.9
3/8-#4	21.3	16.4	18.4	4	60.4	59.7	-0.7	58.1	-2.3		
#4-#10	18.79	21.3	22.2	10	38.2	38.4	0.2	39.4	1.2	-1.2	3.5
+# 10	60.6	61.6	61.8								
#10-#40	19.9	11.8	12.3	40	26.0	26.6	0.6	19.5	-6.5		
#40-#80	6.3	13.7	12.5	80	13.5	12.9	-0.6	13.2	-0.3	-6.7	6.7
#80-#200	4.3	9.2	8.8	200	4.7	3.7	-1.0	8.9	4.2	4.2	4.2
-#200	8.9	3.7	4.7							TOTAL:	-2.8 15.3
	100.0	100.0	100.0			SUM=	-5.1				

```

*****
*      DISTRICT: 14      COUNTY: TRAVIS      HIGHWAY: IH35 FRONTAGE RD      *
*      TYPE: C          COURSE: SURFACE      *
*      PROJECT: CSB-15-13-200      CONTROL: 0015-13-200      *
*****

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GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES.- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN	SUM OF ABS. VALUES
								PASSING		REGIONS	
+7/8	0.0	0.0	0.0	7/8	100.0	100	0.0				
7/8-5/8	0.0	0.0	0.0	5/8	100.0	100	0.0	100	0.0		
5/8-3/8	20.5	32.1	28.4	3/8	71.6	67.9	-3.7	79.5	7.9	7.9	7.9
3/8-#4	21.3	16.1	17.1	4	54.5	51.8	-2.7	58.1	3.6		
#4-#10	18.79	19.1	19.7	10	34.8	32.7	-2.1	39.4	4.6	8.2	8.2
+# 10	60.6	67.3	65.2								
#10-#40	19.9	12.1	12.9	40	21.9	20.6	-1.3	19.5	-2.4		
#40-#80	6.3	7.7	7.3	80	14.6	12.9	-1.7	13.2	-1.4	-3.8	3.8
#80-#200	4.3	7.7	7.9	200	6.7	5.2	-1.5	8.9	2.2	2.2	2.2
-#200	8.9	5.2	6.7							TOTAL:	14.4 22.1
	100.0	100.0	100.0			SUM=	-13.1				

```

*****
*      DISTRICT:    14      COUNTY: TRAVIS      HIGHWAY: IH 35      *
*      TYPE: A      COURSE: LEVEL UP      *
*      PROJECT: IR-35-3(128)239      CONTROL: 0015-13-163      *
*****

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GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD. #2	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES.- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
1 3/4-7/8	0.0	19.0	18.8	7/8	81.2	81	-0.2	100			
7/8-3/8	31.7	25.5	23.6	3/8	57.6	55.5	-2.1	68.3	10.7	10.7	10.7
3/8-#4	18.4	15.7	16.9	4	40.7	39.8	-0.9	49.9	9.2		
#4-#10	16.1	11.1	11.6	10	29.2	28.7	-0.5	33.8	4.6		
+# 10	66.2	71.3	70.6							13.8	13.8
#10-#40	17.1	13.1	11.6	40	17.5	15.6	-1.9	16.7	-0.8		
#40-#80	5.4	8.2	10.8	80	6.7	7.4	0.7	11.4	4.7	3.8	5.5
#80-#200	3.7	4.0	3.4	200	3.4	3.4	0.0	7.7	4.3	4.3	4.3
-#200	7.7	3.4	3.3						TOTAL:	32.7	34.4
	100.0	100.0	100.0			SUM=	-4.9				

```

*****
*      DISTRICT:    16      COUNTY: JIM WELL      HIGHWAY US 281      *
*      TYPE: C      COURSE: SURFACE      *
*      PROJECT: MA F 429(32)      CONTROL 255-2-34      *
*****

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GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD. #4	AVG. EXT. GRADATION #4	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES.- -EXT.	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
7/8	0.0	0.0	0.0	7/8	100.0	100	0.0				
7/8-5/8	0.0	0.8	1.0	5/8	99.0	99.2	0.2	100	1.0		
5/8-3/8	20.5	18.6	20.3	3/8	78.7	80.6	1.9	79.5	0.8	1.8	1.8
3/8-#4	21.3	23.1	23.8	4	55.0	57.5	2.5	58.1	3.1		
#4-#10	18.8	17.6	16.4	10	38.6	39.9	1.3	39.4	0.8	3.9	3.9
+# 10	60.6	60.1	61.4								
#10-#40	19.9	16.2	14.9	40	23.7	23.7	-0.0	19.5	-4.2		
#40-#80	6.3	8.8	8.3	80	15.5	14.9	-0.6	13.2	-2.3	-6.5	6.5
#80-#200	4.3	10.7	11.3	200	4.1	4.2	0.1	8.9	4.8	4.8	4.8
-#200	8.9	4.2	4.1						TOTAL:	3.9	16.9
	100.0	100.0	100.0								

 * DISTRICT: 16 COUNTY: JIM WELL HIGHWAY: US 281 *
 * TYPE: C COURSE: SURFACE *
 * PROJECT: MA F 429(32) CONTROL: 255-2-34 *

DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. DES. GRAD % PASS.	DES. GRAD -EXT.	DES. .45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
0.0	0.0	7/8	100.0	100	0.0			
0.4	0.9	5/8	99.1	99.6	0.5	100	0.9	
19.1	20.3	3/8	78.8	80.5	1.7	79.5	0.7	1.6
22.5	21.5	4	57.3	58	0.7	58.1	0.8	
17.5	17.1	10	40.2	40.5	0.3	39.4	-0.8	0.0
59.5	59.8							1.6
16.7	16.4	40	23.8	23.8	-0.0	19.5	-4.3	
12.2	9.9	80	13.9	11.6	-2.3	13.2	-0.7	-5.0
9.3	10.1	200	3.8	2.3	-1.5	8.9	5.1	5.1
2.3	3.8							5.1
						TOTAL:	1.7	13.2
100.0	100.0							

 * DISTRICT: 16 COUNTY: NUECES HIGHWAY: SH 44 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CSR102-2-68 CONTROL: 373-2-66 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. DES. GRAD % PASS.	DES- EXT	.45 LINE % PASSING	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100	0.0			
1/2-3/8	0.0	10.2	9.4	3/8	90.6	89.8	-0.8	100	9.4	9.4
3/8-#4	26.9	32.2	30.5	4	60.0	57.6	-2.4	73.1	13.1	
#4-#10	23.6	17.1	18.9	10	41.1	40.5	-0.6	49.5	8.4	
+ # 10	50.5	59.5	58.9						21.5	21.5
#10-#40	25.0	22.5	21.8	40	19.3	18	-1.3	24.5	5.2	
#40-#80	7.8	13.0	11.7	80	7.6	5	-2.6	16.7	9.1	14.4
#80-#200	5.5	3.6	4.4	200	3.1	1.4	-1.7	11.2	8.1	8.1
-#200	11.2	1.4	3.1						TOTAL:	53.4
	100.0	100.0	100.0			SUM =	-9.3			


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*****
*      DISTRICT:      16 DISTRICT:  REFUGIO      HIGHWAY: FM 2678      *
*      TYPE: D        COURSE: LEVEL-UP          *
*      PROJECT: SR 2753(2)          CONTROL: 155-6-11      *
*****

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GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100	0.0				
1/2-3/8	0.0	8.7	7.7	3/8	92.3	91.3	-1.0	100	7.7	7.7	7.7
3/8-#4	26.9	36.0	35.9	4	56.4	55.3	-1.1	73.1	16.7		
#4-#10	23.6	20.9	21.3	10	35.1	34.4	-0.7	49.5	14.4		
+ # 10	50.5	65.6	64.9							31.1	31.1
#10-#40	25.0	15.1	15.5	40	19.7	19.3	-0.4	24.5	4.8		
#40-#80	7.8	8.4	8.1	80	11.6	10.9	-0.7	16.7	5.1	9.9	9.9
#80-#200	5.5	8.1	7.8	200	3.7	2.8	-0.9	11.2	7.5	7.5	7.5
-#200	11.2	2.8	3.8							TOTAL:	56.1
	100.0	100.0	100.0			SUM =	-4.9				

```

*****
*      DISTRICT:      16 DISTRICT:  REFUGIO      US 77      *
*      TYPE: B        COURSE: BASE          *
*      PROJECT: MA-F1100(10)          371-3-80      *
*****

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GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+7/8	0.0	0.0	0.0	7/8	100.0	100.0	0.0	100			
7/8-3/8	31.7	26.9	26.1	3/8	73.9	73.1	-0.8	68.3	-5.6	-5.6	5.6
3/8-#4	18.3	23.4	26.0	4	47.9	49.7	1.8	49.9	2.0		
#4-#10	16.1	15.8	15.5	10	32.4	33.9	1.5	33.8	1.4		
+ # 10	66.2	66.1	67.6							3.4	3.4
#10-#40	17.1	14.6	13.1	40	19.3	19.3	-0.0	16.7	-2.6		
#40-#80	5.4	7.7	7.7	80	11.6	11.6	-0.0	11.4	-0.2	-2.9	2.9
#80-#200	3.7	7.7	8.7	200	2.9	3.9	1.0	7.7	4.8	4.8	4.8
-#200	7.7	3.9	2.9							TOTAL:	-0.3
	100.0	100.0	100.0			SUM =	3.4				

```

*****
*          DISTRICT:    16 DISTRICT:REFUGIO          US 77          *
*          TYPE: B      COURSE: BASE                  *
*          PROJECT: MA-F1100(10)                    371-3-80        *
*****

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DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR	AVG. EXT. DES. GRAD	DES- % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN	SUM OF ABS. VALUES
#3D	#3D	% PASS.	#3D	% PASS		PASSING		REGIONS	
0.0	0.0	7/8	100.0	100.0	0.0	100			
24.0	23.9	3/8	76.1	76.0	-0.1	68.3	-7.8	-7.8	7.8
28.0	26.9	4	49.3	48.0	-1.3	49.9	0.6		
16.1	16.5	10	32.8	31.9	-0.9	33.8	1.0		
68.1	67.2							1.7	1.7
12.6	13.0	40	19.8	19.3	-0.5	16.7	-3.1		
7.8	8.0	80	11.8	11.5	-0.3	11.4	-0.4	-3.5	3.5
8.7	9.0	200	2.8	2.8	-0.0	7.7	4.9	4.9	4.9
2.8	2.8						TOTAL:	-4.8	17.9
100.0	100.0			SUM =	-3.1				

```

*****
*          DISTRICT:    16 DISTRICT: REFUGIO          US 77          *
*          TYPE: D      COURSE: LEVEL-UP              *
*          PROJECT: MA-F1100(10)                    371-3-80        *
*****

```

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR	AVG. EXT. DES. GRAD	DES- % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN	SUM OF ABS. VALUES
				% PASS.				PASSING		REGIONS	
+1/2	0.0	0.0	0.0	1/2	100.0	100.0	0.0				
1/2-3/8	0.0	8.7	6.6	3/8	93.4	91.3	-2.1	100	6.6	6.6	6.6
3/8-#4	26.9	36.0	35.9	4	57.5	55.3	-2.2	73.1	15.6		
#4-#10	23.6	20.9	21.9	10	35.6	34.4	-1.2	49.5	13.9		
+# 10	50.5	65.6	64.4							29.6	29.6
#10-#40	25.0	15.1	15.6	40	20.0	19.3	-0.7	24.5	4.5		
#40-#80	7.8	8.4	7.9	80	12.1	10.9	-1.2	16.7	4.6	9.1	9.1
#80-#200	5.5	8.1	7.6	200	4.5	2.8	-1.7	11.2	6.7	6.7	6.7
-#200	11.2	2.8	4.5						TOTAL:	52.0	52.0
	100.0	100.0	100.0			SUM =	-9.0				

 * DISTRICT: 16 DISTRICT: REFUGIO US 77 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: MA-F1100(10) 371-3-80 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD. #1A	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100.0	0.0	.			
1/2-3/8	0.0	9.4	9.3	3/8	90.8	90.6	-0.2	100	9.3	9.3	9.3
3/8-#4	26.9	37.4	37.0	4	53.8	53.2	-0.6	73.1	19.3		
#4-#10	23.6	14.4	14.5	10	39.2	38.8	-0.4	49.5	10.3		
+ # 10	50.5	61.2	60.8							29.6	29.6
#10-#40	25.0	12.2	12.3	40	26.9	26.6	-0.3	24.5	-2.4		
#40-#80	7.8	5.8	6.0	80	20.9	20.8	-0.1	16.7	-4.2	-6.7	6.7
#80-#200	5.5	15.5	15.6	200	5.4	5.3	-0.1	11.2	5.8	5.8	5.8
-#200	11.2	5.3	5.4						TOTAL:	38.0	51.4
	100.0	100.0	100.0				SUM =		-1.7		

 * DISTRICT: 16 COUNTY: SAN PATRICIO HIGHWAY: US 181 *
 * TYPE: B COURSE: BASE *
 * PROJECT: MA-F 180(16) CONTROL: 101-4-61 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+7/8	0.0	0.0	0.0	7/8	100.0	100	0.0	100			
7/8-3/8	31.7	23.7	22.9	3/8	77.2	76.3	-0.9	68.3	-8.9	-8.9	8.9
3/8-#4	18.4	27.6	29.3	4	47.8	48.7	0.9	49.9	2.1		
#4-#10	16.1	11.8	12.0	10	35.8	36.9	1.1	33.8	-2.0		
+ # 10	66.2	63.1	64.2							0.1	0.1
#10-#40	17.1	13.1	11.9	40	23.9	23.8	-0.1	16.7	-7.2		
#40-#80	5.3	13.3	13.6	80	10.3	10.5	0.2	11.4	1.1	-6.1	6.1
#80-#200	3.7	6.8	6.9	200	3.4	3.7	0.3	7.7	4.3	4.3	4.3
-#200	7.7	3.7	3.4						TOTAL:	-10.5	19.3
	100.0	100.0	100.0				SUM =		1.6		

 * DISTRICT: 16 COUNTY: SAN PATRICIO HIGHWAY: US 181 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: MA-F 180(16) CONTROL: 101-4-61 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD. #5D	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100	0.0				
1/2-3/8	0.0	9.9	11.8	3/8	88.2	90.1	1.9	100	11.8	11.8	11.8
3/8-#4	26.9	28.6	26.9	4	61.3	61.5	0.2	73.1	11.8		
#4-#10	23.6	19.8	19.3	10	42.0	41.7	-0.3	49.5	7.5		
+# 10	50.5	58.3	58.0							19.3	19.3
#10-#40	25.0	20.9	21.4	40	20.6	20.8	0.2	24.5	3.9		
#40-#80	7.8	12.5	12.3	80	8.3	8.3	-0.0	16.7	8.4	12.3	12.3
#80-#200	5.5	5.5	4.3	200	4.0	2.8	-1.2	11.2	7.2	7.2	7.2
-#200	11.2	2.8	4.0						TOTAL:	50.6	50.6
	100.0	100.0	100.0			SUM =	0.8				

 * DISTRICT: 17 DISTRICT: BRAZOS HIGHWAY: FM 2818 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: MJ 000 (1) CONTROL: 2399-01-021 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100.0	0.0				
1/2-3/8	0.0	5.0	4.1	3/8	95.9	95.0	-0.9	100	4.1	4.1	4.1
3/8-#4	26.9	30.0	31.4	4	64.5	65.0	0.5	73.1	8.6		
#4-#10	23.6	25.0	24.6	10	40.0	40.0	0.0	49.5	9.5		
+# 10	50.5	60.0	60.0							18.1	18.1
#10-#40	25.0	13.0	11.4	40	28.6	27.0	-1.6	24.5	-4.1		
#40-#80	7.8	11.0	13.0	80	15.5	16.0	0.5	16.7	1.2	-2.9	5.2
#80-#200	5.5	11.0	10.6	200	4.9	5.0	0.1	11.2	6.3	6.3	6.3
-#200	11.2	5.0	4.9						TOTAL:	25.5	33.7
	100.0	100.0	100.0			SUM =	-1.5				

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*****
*      DISTRICT:   17      COUNTY: BRAZOS      HIGHWAY: SH 21      *
*      TYPE: D      COURSE: SURFACE      *
*      PROJECT: CSR116-4-72      CONTROL: 0116-04-072      *
*****

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GRADATION INFORMATION

SIEVE	0.45 LINE	DESIGN GRAD. #1	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - EXT	SUM IN REGIONS	SUM OF ABS. VALUES	
+1/2	0.0	0.0	0.0	1/2	100.0	100.0	0.0					
1/2-3/8	0.0	5.0	4.0	3/8	96.0	95.0	-1.0	100	4.0	4.0	4.0	
3/8-#4	26.9	30.0	27.7	4	68.3	65.0	-3.3	73.1	4.8			
#4-#10	23.6	25.0	28.2	10	40.0	40.0	-0.0	49.5	9.5			
#10	50.5	60.0	60.0							14.3	14.3	
#10-#40	25.0	13.0	12.5	40	27.5	27.0	-0.5	24.5	-3.0			
#40-#80	7.8	11.0	9.8	80	17.7	16.0	-1.7	16.7	-1.0	-4.0	4.0	
#80-#200	5.5	11.0	11.3	200	6.4	5.0	-1.4	11.2	4.8	4.8	4.8	
-#200	11.2	5.0	6.4							TOTAL:	19.2	27.1
	100.0	100.0	100.0			SUM =	-7.8					

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*****
*      DISTRICT:   17 DISTRICT: BURLESON      HIGHWAY: SH 36      *
*      TYPE: D      COURSE: SURFACE      *
*      PROJECT: MAF 628 (10)      CONTROL: 0186-04-019      *
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GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - EXT	SUM IN REGIONS	SUM OF ABS. VALUES	
+1/2	0.0	0.0	0.0	1/2	100.0	100.0	0.0					
1/2-3/8	0.0	5.0	4.7	3/8	95.3	95.0	-0.3	100	4.7	4.7	4.7	
3/8-#4	26.9	30.0	30.5	4	64.8	65.0	0.2	73.1	8.3			
#4-#10	23.6	25.0	23.9	10	40.9	40.0	-0.9	49.5	8.6			
+ # 10	50.5	60.0	59.1							16.9	16.9	
#10-#40	25.0	13.0	11.6	40	29.3	27.0	-2.3	24.5	-4.8			
#40-#80	7.8	11.0	12.9	80	16.4	16.0	-0.4	16.7	0.3	-4.5	5.1	
#80-#200	5.5	11.0	11.2	200	5.2	5.0	-0.2	11.2	6.0	6.0	6.0	
-#200	11.2	5.0	5.2							TOTAL:	23.0	32.7
	100.0	100.0	100.0			SUM =	-4.0					

 * DISTRICT: 17 DISTRICT: BURLESON HIGHWAY: SH 36 *
 * TYPE: B COURSE: SURFACE *
 * PROJECT: MAP 628 (10) CONTROL: 0186-04-019 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+7/8	0.0	4.3	4.8	7/8	95.2	95.7	0.5	100	4.8		
7/8-3/8	31.7	25.1	18.7	3/8	76.5	70.6	-5.9	68.3	-8.2	-3.4	13.0
3/8-#4	18.4	14.4	16.6	4	59.9	56.2	-3.7	49.9	-10.0		
#4-#10	16.1	16.7	18.0	10	41.8	39.5	-2.3	33.8	-8.0		
+ #10	66.2	38.6	58.2							-18.0	18.0
#10-#40	17.1	12.7	12.9	40	28.9	26.8	-2.1	16.7	-12.2		
#40-#80	5.3	12.5	11.7	80	17.2	14.3	-2.9	11.4	-5.8	-18.0	18.0
#80-#200	3.7	8.6	9.9	200	7.4	5.7	-1.7	7.7	0.3	0.3	0.3
-#200	7.7	5.7	7.4							TOTAL:	-39.1 49.4
	100.0	100.0	100.0				SUM =			-18.1	

 * DISTRICT: 17 COUNTY: BURLESON HIGHWAY: SH 21 *
 * TYPE: B COURSE: SURFACE *
 * PROJECT: F620(24) CONTROL: 0116-03-042 *

GRADATION INFORMATION

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
7/8	0.0	1.0	3.7	7/8	96.3	99.0	2.7	100	3.7		
7/8-3/8	31.7	26.0	22.9	3/8	73.4	73.0	-0.4	68.3	-5.1	-1.3	8.8
3/8-#4	18.4	17.0	18.4	4	54.9	56.0	1.1	49.9	-5.0		
#4-#10	16.1	19.0	17.4	10	37.5	37.0	-0.5	33.8	-3.7		
#10	66.2	63.0	62.5							-8.8	8.8
#10-#40	17.1	10.0	10.8	40	26.7	27.0	0.3	16.7	-10.0		
#40-#80	5.3	10.0	11.0	80	15.7	17.0	1.3	11.4	-4.3	-14.3	14.3
#80-#200	3.7	11.0	9.5	200	6.1	6.0	-0.1	7.7	1.6	1.6	1.6
-#200	7.7	6.0	6.1							TOTAL:	-22.8 33.4
	100.0	100.0	100.0				SUM =			4.4	

 * DISTRICT: 17 COUNTY: GRIMES, ETC. HIGHWAY: SH 6, ETC. *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CD50-3-59 ETC CONTROL: 114-10-62 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - EXT	SUM IN	SUM OF ABS. REGIONS VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100	0.0	-			
1/2-3/8	0.0	4.2	3.9	3/8	96.1	95.8	-0.3	100	3.9	3.9	3.9
3/8-#4	26.9	30.7	29.8	4	66.3	65.1	-1.2	73.1	6.8		
#4-#10	23.6	26.2	27.2	10	39.1	38.9	-0.2	49.5	10.4		
+ # 10	50.5	61.0	60.9							17.2	17.2
#10-#40	25.0	17.6	17.6	40	21.5	21.3	-0.2	24.5	3.0		
#40-#80	7.8	12.6	12.8	80	8.8	8.7	-0.1	16.7	7.9	10.9	10.9
#80-#200	5.5	5.0	5.2	200	3.5	3.7	0.2	11.2	7.7	7.7	7.7
-#200	11.2	3.7	3.5							TOTAL:	39.7
	100.0	100.0	100.0				SUM =		-1.8		

 * DISTRICT: 17 COUNTY: GRIMES, ETC. HIGHWAY: SH 6, ETC *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CD50-3-59 ETC CONTROL: 114-10-62 *

DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - EXT	SUM IN	SUM OF ABS. REGIONS VALUES
#6	#6	% PASS.				PASSING	AVG. EXT		
0.0	0.0	1/2	100.0	100	0.0				
4.2	3.8	3/8	96.2	95.8	-0.4	100	3.8	3.8	3.8
30.7	34.4	4	61.8	65.1	3.3	73.1	11.3		
26.2	23.1	10	38.7	38.9	0.2	49.5	10.8		
61.0	61.3							22.1	22.1
17.6	16.8	40	21.9	21.3	-0.6	24.5	2.6		
12.6	14.0	80	7.8	8.7	0.9	16.7	8.9	11.5	11.5
5.0	4.9	200	2.9	3.7	0.8	11.2	8.3	8.3	8.3
3.7	2.9							TOTAL:	45.7
100.0	100.0				SUM =	4.2			

 * DISTRICT: 17 COUNTY: GRIMES, ETC. HIGHWAY: SH 6, ETC *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CD50-3-59 ETC CONTROL: 114-10-62 *

DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. % PASS	GRAD EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
0.0	0.0	1/2	100.0	100.0	0.0				
4.5	4.3	3/8	95.7	95.5	-0.2	100	4.3	4.3	4.3
36.1	35.4	4	60.3	59.4	-0.8	73.1	12.8		
23.2	23.8	10	36.5	36.2	-0.3	49.5	13.0		
63.8	63.5							25.8	25.8
15.0	15.4	40	21.1	21.2	0.1	24.5	3.4		
13.0	12.5	80	8.6	8.3	-0.4	16.7	8.1	11.4	11.4
5.3	5.2	200	3.4	3.0	-0.4	11.2	7.8	7.8	7.8
3.0	3.4						TOTAL:	49.3	49.3
100.0	100.0				SUM = -2.0				

 * DISTRICT: 17 COUNTY: WASHINGTON HIGHWAY: US 290 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: F 236(21) CONTROL: 0114-09-046 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. % PASS	GRAD EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100.0	0.0				
1/2-3/8	12.2	8.9	10.7	3/8	89.3	91.1	1.8	100	10.7	10.7	10.7
3/8-#4	23.5	35.0	34.6	4	54.7	56.1	1.4	73.1	18.4		
#4-#10	20.8	16.7	15.2	10	39.5	39.4	-0.1	49.5	10.0		
+ # 10	56.5	60.6	60.5							28.4	28.4
#10-#40	21.9	13.7	13.2	40	26.3	25.7	-0.6	24.5	-1.8		
#40-#80	6.9	12.2	11.1	80	15.2	13.5	-1.7	16.7	1.5	-0.3	3.3
#80-#200	4.7	9.1	9.2	200	6.0	4.4	-1.6	11.2	5.2	5.2	5.2
-#200	9.9	4.4	6.0						TOTAL:	44.0	47.6
	100.0	100.0	100.0				SUM =		-0.8		

 * DISTRICT: 17 COUNTY: WASHINGTON HIGHWAY: US 290 *
 * TYPE: B COURSE: BASE *
 * PROJECT: F236 (21) CONTROL: 0114-09-046 *

EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD. #7	AVG. EXT. GRADATION #7	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
1	0.0	0.0	0.0		100.0	100.0	0.0				
1-7/8	5.8	1.0	0.6	7/8	99.4	99.0	-0.4	100	0.6		
7/8-3/8	29.8	27.0	27.4	3/8	72.0	72.0	-0.0	68.3	-3.7	-3.1	4.3
3/8-#4	17.3	19.0	18.9	4	53.1	53.0	-0.1	49.9	-3.2		
#4-#10	15.2	17.0	16.0	10	37.1	36.0	-1.1	33.8	-3.3		
+ #10	68.1	64.0	62.9							-6.5	6.5
#10-#40	16.1	13.0	12.9	40	24.3	23.0	-1.3	16.7	-7.6		
#40-#80	5.1	12.0	11.7	80	12.6	11.0	-1.6	11.4	-1.2	-8.8	8.8
#80-#200	3.5	8.0	9.3	200	3.3	3.0	-0.3	7.7	4.4	4.4	4.4
-#200	7.2	3.0	3.3							TOTAL:	-14.0 24.0
	100.0	100.0	100.0				SUM =		-4.8		

 * DISTRICT: 17 COUNTY: WASHINGTON HIGHWAY: US 290 *
 * TYPE: B COURSE: BASE *
 * PROJECT: F236 (21) CONTROL: 0114-09-0 *

DESIGN GRAD.	AVG. EXT. GRADATION #8	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
0.0	0.0		100.0	100.0	0.0				
1.0	0.0	7/8	100.0	99.0	-1.0	100			
27.0	26.1	3/8	73.9	72.0	-1.9	68.3	-5.6	-5.6	5.6
19.0	23.0	4	51.0	53.0	2.0	49.9	-1.1		
17.0	16.2	10	34.8	36.0	1.2	33.8	-1.0		
64.0	65.2							-2.0	2.0
13.0	12.2	40	22.6	23.0	0.4	16.7	-5.9		
12.0	10.1	80	12.4	11.0	-1.4	11.4	-1.0	-6.9	6.9
8.0	9.3	200	3.1	3.0	-0.1	7.7	4.6	4.6	4.6
3.0	3.1							TOTAL:	-10.0 19.2
100.0	100.0				SUM =	-0.8			

```

*****
*      DISTRICT:    17  COUNTY: WASHINGTON    HIGHWAY: US 290    *
*      TYPE: B      COURSE: BASE              *
*      PROJECT: F236 (21)                    CONTROL: 0114-09-0 *
*****

```

DESIGN GRAD.	AVG. EXT. GRADATION #9	SIEVES FOR % PASS.	AVG. EXT. DES. % PASS.	GRAD % PASS	DES-EXT	.45 LINE % PASSING	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
0.0	0.0		100.0	100.0	0.0				
1.0	0.0	7/8	100.0	99.0	-1.0	100			
27.0	28.5	3/8	71.6	72.0	0.5	68.3	-3.3	-3.3	3.3
19.0	24.5	4	47.1	53.0	5.9	49.9	2.8		
17.0	12.1	10	35.0	36.0	1.0	33.8	-1.2		
64.0	65.0							1.6	4.0
13.0	11.7	40	23.3	23.0	-0.3	16.7	-6.6		
12.0	10.5	80	12.8	11.0	-1.8	11.4	-1.4	-8.0	8.0
8.0	8.4	200	4.4	3.0	-1.4	7.7	3.3	3.3	3.3
3.0	4.4						TOTAL:	-6.3	18.6
100.0	100.0			SUM =	2.9				

```

*****
*      DISTRICT:    17  COUNTY: WASHINGTON    HIGHWAY: US 290    *
*      TYPE: B      COURSE: BASE              *
*      PROJECT: F236 (21)                    CONTROL: 0114-09-0 *
*****

```

DESIGN GRAD.	AVG. EXT. GRADATION #10	SIEVES FOR % PASS.	AVG. EXT. DES. % PASS.	GRAD % PASS	DES-EXT	.45 LINE % PASSING	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
0.0	0.0		100.0	100.0	0.0				
1.0	0.0	7/8	100.0	99.0	-1.0	100			
27.0	27.0	3/8	73.0	72.0	-1.0	68.3	-4.7	-4.7	4.7
19.0	22.1	4	50.9	53.0	2.1	49.9	-1.0		
17.0	12.6	10	38.3	36.0	-2.3	33.8	-4.5		
64.0	61.7							-5.4	5.4
13.0	13.4	40	24.9	23.0	-1.9	16.7	-8.2		
12.0	10.7	80	14.2	11.0	-3.2	11.4	-2.8	-10.9	10.9
8.0	9.2	200	4.9	3.0	-1.9	7.7	2.8	2.8	2.8
3.0	4.9						TOTAL:	-18.3	23.8
100.0	100.0			SUM =	-9.1				

 * DISTRICT: 17 COUNTY: MADISON HIGHWAY: SH 21 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CD50-3-59 (G17COMB) CONTROL: 0117-05-026 *

EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100.0	0.0				
1/2-3/8	0.0	5.0	5.4	3/8	94.6	95.0	0.4	100	5.4	5.4	5.4
3/8-#4	26.9	35.0	34.2	4	60.4	60.0	-0.4	73.1	12.7		
#4-#10	23.6	20.0	20.8	10	39.6	40.0	0.4	49.5	9.9		
+ # 10	50.5	60.0	60.4							22.5	22.5
#10-#40	25.0	14.0	14.4	40	25.3	26.0	0.7	24.5	-0.8		
#40-#80	7.8	10.0	10.5	80	14.8	16.0	1.2	16.7	1.9	1.2	2.7
#80-#200	5.5	10.0	10.1	200	4.7	6.0	1.3	11.2	6.5	6.5	6.5
-#200	11.2	6.0	4.7						TOTAL:	35.6	37.1
	100.0	100.0	100.0			SUM =	3.6				

 * DISTRICT: 17 DISTRICT: GRIMES HIGHWAY: SH 105 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: MMC 315-4-44 CONTROL: 0315-04-044 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100.0	0.0				
1/2-3/8	0.0	5.0	4.7	3/8	95.3	95.0	-0.3	100	4.7	4.7	4.7
3/8-#4	26.9	35.0	36.4	4	58.9	60.0	1.1	73.1	14.2		
#4-#10	23.6	20.0	22.5	10	36.4	40.0	3.6	49.5	13.1		
+ # 10	50.5	60.0	63.6							27.3	27.3
#10-#40	25.0	13.0	12.2	40	24.2	27.0	2.8	24.5	0.3		
#40-#80	7.8	13.0	10.5	80	13.7	14.0	0.3	16.7	3.0	3.3	3.3
#80-#200	5.5	9.0	8.2	200	5.5	5.0	-0.5	11.2	5.7	5.7	5.7
-#200	11.2	5.0	5.5						TOTAL:	41.1	41.1
	100.0	100.0	100.0			SUM =	7.1				

 * DISTRICT: 17 COUNTY: WASHINGTON HIGHWAY: US 290 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CD50-3-59 (G17COMB) CONTROL: 0114-10-062 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100.0	0.0				
1/2-3/8	0.0	5.0	2.6	3/8	97.4	95.0	-2.4	100	2.6	2.6	2.6
3/8-#4	26.9	35.0	33.9	4	63.5	60.0	-3.5	73.1	9.6		
#4-#10	23.6	20.0	25.2	10	38.3	40.0	1.7	49.5	11.2		
+ # 10	50.5	60.0	61.7							20.7	20.7
#10-#40	25.0	14.0	12.8	40	25.5	26.0	0.5	24.5	-1.0		
#40-#80	7.8	7.0	5.5	80	20.1	19.0	-1.1	16.7	-3.4	-4.4	4.4
#80-#200	5.5	14.0	15.6	200	4.4	5.0	0.6	11.2	6.8	6.8	6.8
-#200	11.2	5.0	4.4						TOTAL:	25.7	34.5
	100.0	100.0	100.0				SUM =		-4.3		

 * DISTRICT: 17 COUNTY: BRAZOS HIGHWAY: SH 30/OSR *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CD50-3-59 (G17COMB) CONTROL: CSD-475-1-17 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100.0	0.0				
1/2-3/8	0.0	5.0	5.1	3/8	94.9	95.0	0.1	100	5.1	5.1	5.1
3/8-#4	26.9	35.0	36.3	4	58.6	60.0	1.4	73.1	14.5		
#4-#10	23.6	20.0	18.7	10	39.9	40.0	0.1	49.5	9.6		
+ # 10	50.5	60.0	60.1							24.1	24.1
#10-#40	25.0	14.0	12.8	40	27.1	26.0	-1.1	24.5	-2.6		
#40-#80	7.8	9.0	8.5	80	18.5	17.0	-1.5	16.7	-1.8	-4.4	4.4
#80-#200	5.5	12.0	15.4	200	3.2	5.0	1.8	11.2	8.0	8.0	8.0
-#200	11.2	5.0	3.2						TOTAL:	32.8	41.6
	100.0	100.0	100.0				SUM =		0.8		

 * DISTRICT: 17 COUNTY: BRAZOS HIGHWAY: SH 30 & SH 21 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CD50-3-59 (G17COMB) CONTROL: CSD-212-3-23 *

EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN	SUM OF ABS. VALUES	
+1/2	0.0	0.0	0.0	1/2	100.0	100.0	0.0					
1/2-3/8	0.0	5.0	5.8	3/8	94.2	95.0	0.8	100	5.8	5.8	5.8	
3/8-#4	26.9	35.0	38.0	4	56.2	60.0	3.8	73.1	16.9			
#4-#10	23.6	20.0	17.3	10	38.9	40.0	1.1	49.5	10.6			
+ # 10	50.5	60.0	61.1							27.6	27.6	
#10-#40	25.0	14.0	13.8	40	25.1	26.0	0.9	24.5	-0.6			
#40-#80	7.8	9.0	9.0	80	16.1	17.0	0.9	16.7	0.6	0.0	1.1	
#80-#200	5.5	12.0	13.0	200	3.1	5.0	1.9	11.2	8.1	8.1	8.1	
-#200	11.2	5.0	3.1							TOTAL:	41.6	42.7
	100.0	100.0	100.0			SUM =	9.6					

 * DISTRICT: 17 COUNTY: ROBERTSON HIGHWAY: US 79 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CD50-3-59 (G17COMB) CONTROL: 0205-01-027 *

EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN	SUM OF ABS. VALUES	
+1/2	0.0	0.0	0.0	1/2	100.0	100.0	0.0					
1/2-3/8	0.0	5.0	2.6	3/8	97.4	95.0	-2.4	100	2.6	2.6	2.6	
3/8-#4	26.9	35.0	32.5	4	64.8	60.0	-4.8	73.1	8.3			
#4-#10	23.6	20.0	24.4	10	40.4	40.0	-0.4	49.5	9.1			
+ # 10	50.5	60.0	59.6							17.3	17.3	
#10-#40	25.0	14.0	13.3	40	27.2	26.0	-1.2	24.5	-2.7			
#40-#80	7.8	9.0	8.0	80	19.1	17.0	-2.1	16.7	-2.4	-5.1	5.1	
#80-#200	5.5	12.0	15.2	200	3.9	5.0	1.1	11.2	7.3	7.3	7.3	
-#200	11.2	5.0	3.9							TOTAL:	22.2	32.3
	100.0	100.0	100.0			SUM =	-9.8					

```

*****
*      DISTRICT: 18      COUNTY: DALLAS      HIGHWAY: IH635      *
*      TYPE: C          COURSE: LEVEL UP      *
*      PROJECT: IR635-6(286)435      CONTROL: 2374-02-049      *
*****

```

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES.- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN	SUM OF ABS. VALUES
		2449B						PASSING		REGIONS	
+7/8	0.0	0.0	0.0	7/8	100.0	100	0.0				
7/8+5/8	0.0	0.0	0.0	5/8	100.0	100	0.0	100	0.0		
5/8-3/8	20.5	24.7	25.2	3/8	74.8	75.3	0.5	79.5	4.7	4.7	4.7
3/8-#4	21.4	21.8	23.5	4	51.2	53.5	2.3	58.1	6.9		
#4-#10	18.7	17.2	13.9	10	37.3	36.3	-1.0	39.4	2.1	9.0	9.0
+ # 10	60.6	63.7	62.7								
#10-#40	19.9	13.5	13.0	40	24.3	22.8	-1.5	19.5	-4.8		
#40-#80	6.3	17.0	15.7	80	8.7	5.8	-2.9	13.2	4.5	-0.3	9.4
#80-#200	4.3	4.6	5.6	200	3.1	1.2	-1.9	8.9	5.8	5.8	5.8
#200	8.9	1.2	3.1							TOTAL:	19.2 28.9
	100.0	100.0	100.0			SUM =	-4.5				

```

*****
*      DISTRICT: 18      COUNTY: NAVARRO      HIGHWAY: FM1603      *
*      TYPE: G          COURSE: SURFACE & BASE      *
*      PROJECT: CSR 1522-1-9      CONTROL: 1522-1-9      *
*****

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GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES.- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN	SUM OF ABS. VALUES
		G-3						PASSING		REGIONS	
1.5	0.0	0.0	0.0		100	100	0.0				
1.5-7/8	21.6	3.2	2.5	7/8	97.5	96.8	-0.7				
7/8-3/8	24.9	31.2	29.7	3/8	67.8	65.6	-2.2	79.5	11.7	11.7	11.7
3/8-#10	27.0	24.5	26.4	10	41.5	41.1	-0.4	39.4	-2.1	-2.1	2.1
+ #10	73.5	58.9	58.5								
#10-#40	13.4	13.6	15.8	40	25.6	27.5	1.9	19.5	-6.1		
#40-#200	7.1	26.9	23.6	200	2.0	0.6	-1.4	8.9	6.9	0.7	13.0
-#200	6.0	0.6	2.0							TOTAL:	10.3 26.8
	100.0	100.0	100			SUM =	-2.8				

 * DISTRICT: 19 COUNTY: CASS HIGHWAY: US 59 *
 * TYPE: D COURSE: 4 COURSES *
 * PROJECT: CSR 218-3-57 CONTROL: 218-3-57 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD. #1	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100	100	0.0				
1/2-3/8	0.0	0.7	3.6	3/8	96.4	99.3	2.9	100	3.6	3.6	3.6
3/8-#4	26.9	34.6	33.6	4	62.8	64.7	1.9	73.1	10.3		
#4-#10	23.6	23.2	21.2	10	41.6	41.5	-0.1	49.5	7.9		
+ # 10	50.5	58.5	58.4							18.2	18.2
#10-#40	25.0	19.0	19.4	40	22.2	22.5	0.3	24.5	2.3		
#40-#80	7.8	15.3	13.3	80	8.8	7.2	-1.6	16.7	7.9	10.2	10.2
#80-#200	5.5	4.7	5.3	200	3.6	2.5	-1.1	11.2	7.6	7.6	7.6
-#200	11.2	2.5	3.6						TOTAL:	39.7	39.7
	100.0	100.0	100.0			SUM =	2.4				

 * DISTRICT: 19 COUNTY: MARION HIGHWAY: US 59 *
 * TYPE: C COURSE: THREE COURSES *
 * PROJECT: C62-7-46 CONTROL: 62-7-46 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD. #2	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+7/8	0.0	0.0	0.0	7/8	100.0	100	0.0				
7/8-5/8	0.0	2.3	4.1	5/8	95.9	97.7	1.8	100	4.1		
5/8-3/8	20.5	23.6	26.7	3/8	69.1	74.1	5.0	79.5	10.4	14.5	14.5
3/8-#4	21.4	17.5	17.1	4	52.1	56.6	4.5	58.1	6.0		
#4-#10	18.7	14.5	13.3	10	38.8	42.1	3.3	39.4	0.6	6.6	6.6
+ # 10	60.6	57.9	61.2								
#10-#40	19.9	15.0	13.7	40	25.1	27.1	2.0	19.5	-5.6		
#40-#80	6.3	12.8	11.1	80	14.0	14.3	0.3	13.2	-0.8	-6.5	6.5
#80-#200	4.3	12.4	11.7	200	2.3	1.9	-0.4	8.9	6.6	6.6	6.6
-#200	8.9	1.9	2.3						TOTAL:	21.2	34.2
	100.0	100.0	100.0			SUM=	16.4				

 * DISTRICT: 19 DISTRICT: PANOLA HIGHWAY: US 59 *
 * TYPE: C COURSE: BASE *
 * PROJECT: MA-FR458(7) CONTROL: 63-4-29 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES.- EXT	.45 LINE % PASSING	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES	
		2-C										
+7/8	0.0	0.0	0.0	7/8	100.0	100	0.0					
7/8-5/8	0.0	2.0	2.4	5/8	97.6	98	0.4	100	2.4			
5/8-3/8	20.5	19.7	18.6	3/8	79.0	78.3	-0.7	79.5	0.5	2.9	2.9	
3/8-#4	21.4	23.5	21.0	4	58.1	54.8	-3.3	58.1	0.0			
#4-#10	18.7	16.2	18.6	10	39.5	38.6	-0.9	39.4	-0.1	-0.0	0.1	
+# 10	60.6	61.4	60.5									
#10-#40	19.9	12.0	13.6	40	25.8	26.6	0.8	19.5	-6.3			
#40-#80	6.3	8.4	6.7	80	19.2	18.2	-1.0	13.2	-6.0	-12.3	12.3	
#80-#200	4.3	14.8	13.5	200	5.7	3.4	-2.3	8.9	3.2	3.2	3.2	
-#200	8.9	3.4	5.7							TOTAL:	-6.2	18.5
	100.0	100.0	100.0			SUM=	-6.9					

 * DISTRICT: 20 COUNTY: TYLER HIGHWAY: US 69 *
 * TYPE: G COURSE: SURFACE *
 * PROJECT: CSR 200-7-38 CONTROL: 200-7-38 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES.- EXT	.45 LINE % PASSING	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES	
		#1										
+1/2	0.0	0.0	0.0	1/2	100.0	100.0	0.0					
1/2-3/8	0.0	5.8	5.2	3/8	94.8	94.2	-0.6	100	5.2	5.2	5.2	
3/8-#4	26.9	30.5	30.5	4	64.3	63.7	-0.6	73.1	8.8			
#4-#10	23.6	24.7	22.2	10	42.1	39.0	-3.0	49.5	7.5			
+# 10	50.5	61.0	57.8							16.3	16.3	
#10-#40	25.0	15.4	14.9	40	27.2	23.6	-3.6	24.5	-2.7			
#40-#80	7.8	15.9	17.6	80	9.5	7.7	-1.8	16.7	7.2	4.5	9.8	
#80-#200	5.5	4.0	4.7	200	4.8	3.7	-1.1	11.2	6.4	6.4	6.4	
-#200	11.2	3.7	4.8							TOTAL:	32.4	37.7
	100.0	100.0	100.0			SUM =	-10.7					


```

*****
*           DISTRICT:    21 DISTRICT: CAMERON           HIGHWAY: FM 1419           *
*           TYPE: D           COURSE: SURFACE           *
*           PROJECT: MCO039-07-151           CONTROL: 33-7-151           *
*****

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GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD. 1D	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE % PASSING	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100.0	0.0				
1/2-3/8	0.0	3.8	4.4	3/8	95.6	96.2	0.6	100	4.4	4.4	4.4
3/8-#4	26.9	32.8	34.6	4	61.0	63.4	2.4	73.1	12.1		
#4-#10	23.6	23.0	24.4	10	36.6	40.4	3.8	49.5	12.9		
+# 10	50.5	59.6	149.0							25.1	25.1
#10-#40	25.0	14.4	13.2	40	23.3	26.0	2.7	24.5	1.2		
#40-#80	7.8	15.4	15.1	80	8.2	10.6	2.4	16.7	8.5	9.6	9.6
#80-#200	5.5	8.8	6.4	200	1.8	1.8	-0.0	11.2	9.4	9.4	9.4
-#200	11.2	1.8	1.8						TOTAL:	48.5	48.5
	100.0	100.0	141.2				11.9				

```

*****
*           DISTRICT:    21 DISTRICT:HIDALGO           HIGHWAY: US 83           *
*           TYPE: D           COURSE: SURFACE           *
*           PROJECT: CSR 39-17-101           CONTROL: 39-17-101           *
*****

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GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD. 1D	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE % PASSING	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100.0	0.0				
1/2-3/8	0.0	9.0	8.4	3/8	91.6	91.0	-0.5	100	8.4	8.4	8.4
3/8-#4	26.9	29.5	31.0	4	60.6	61.5	0.9	73.1	12.5		
#4-#10	23.6	20.9	21.8	10	38.8	40.6	1.8	49.5	10.7		
+# 10	50.5	59.4	61.2							23.2	23.2
#10-#40	25.0	13.7	13.0	40	25.8	26.9	1.0	24.5	-1.3		
#40-#80	7.8	15.4	15.8	80	10.1	11.5	1.5	16.7	6.6	5.3	8.0
#80-#200	5.5	8.7	8.0	200	2.1	2.8	0.8	11.2	9.1	9.1	9.1
-#200	11.2	2.8	2.1						TOTAL:	46.1	48.8
	100.0	100.0	100.0			SUM =	5.4				

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*****
*           DISTRICT:    21 DISTRICT:  STARR           HIGHWAY: FM 755           *
*           TYPE: D      COURSE: SURFACE                *
*           PROJECT: SR1270(3)                       CONTROL: 1103-04-17      *
*****

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GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES	
+1/2	0.0	0.0	0.0	1/2	100.0	100.0	0.0					
1/2-3/8	0.0	11.7	10.6	3/8	89.4	88.3	-1.1	100	10.6	10.6	10.6	
3/8-#4	26.9	32.5	29.1	4	60.3	55.8	-4.5	73.1	12.8			
#4-#10	23.6	17.5	21.7	10	38.5	38.3	-0.3	49.5	11.0			
+ # 10	50.5	61.7	61.5							23.8	23.8	
#10-#40	25.0	10.4	12.0	40	26.6	27.9	1.3	24.5	-2.1			
#40-#80	7.8	20.2	16.0	80	10.6	7.7	-2.9	16.7	6.1	4.0	8.2	
#80-#200	5.5	7.1	7.6	200	3.0	0.6	-2.4	11.2	8.2	8.2	8.2	
-#200	11.2	0.6	3.0							TOTAL:	46.6	50.7
	100.0	100.0	100.0				SUM =		-9.9			

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*****
*           DISTRICT:    23 DISTRICT:  BROWN          HIGHWAY: FM 45           *
*           TYPE: D      COURSE: SURFACE                *
*           PROJECT: MC 480-6-9                       CONTROL: 480-6-9        *
*****

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GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES	
+1/2	0.0	0.0	0.0	1/2	100.0	100.0	0.0					
1/2-3/8	0.0	5.5	0.4	3/8	99.7	94.5	-5.2	100	0.3	0.3	0.3	
3/8-#4	26.9	37.0	31.9	4	67.8	57.5	-10.3	73.1	5.3			
#4-#10	23.6	21.6	29.8	10	38.0	35.9	-2.1	49.5	11.5			
+ # 10	50.5	64.1	62.1							16.9	16.9	
#10-#40	25.0	14.8	13.4	40	24.6	21.1	-3.5	24.5	-0.1			
#40-#80	7.8	15.2	10.8	80	13.8	5.9	-7.9	16.7	2.9	2.8	3.0	
#80-#200	5.5	3.0	7.8	200	6.0	2.9	-3.1	11.2	5.2	5.2	5.2	
-#200	11.2	2.9	6.0							TOTAL:	25.2	25.4
	100.0	100.0	100.0				SUM =		-32.0			

 * DISTRICT: 23 DISTRICT: BROWN HIGHWAY: US 67 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: CSB-45-5-2 CONTROL: 54-6-57 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE % PASSING	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100.0	0.0				
1/2-3/8	0.0	5.5	0.2	3/8	99.8	94.5	-5.3	100	0.2	0.2	0.2
3/8-#4	26.9	37.0	32.9	4	66.9	57.5	-9.4	73.1	6.2		
#4-#10	23.6	21.6	30.1	10	36.8	35.9	-0.9	49.5	12.7		
+ # 10	50.5	64.1	63.2							18.9	18.9
#10-#40	25.0	14.8	13.3	40	23.5	21.1	-2.4	24.5			
#40-#80	7.8	15.2	10.0	80	13.5	5.9	-7.6	16.7	3.2	4.2	4.2
#80-#200	5.5	3.0	7.6	200	5.9	2.9	-3.0	11.2	5.3	5.3	5.3
-#200	11.2	2.9	5.9						TOTAL:	28.7	28.7
	100.0	100.0	100.0				SUM =				-28.5

 * DISTRICT: 23 DISTRICT: EASTLAND HIGHWAY: HIGHWAY: IH 20 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: IR20-3(39)324 CONTROL: CONTROL: 7-3-49ETC *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT.DES. % PASS.	GRAD % PASS	DES- EXT	.45 LINE % PASSING	.45 LINE - AVG. EXT	SUM IN REGIONS	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100.0	0.0				
1/2-3/8	0.0	5.5	6.1	3/8	94.0	94.5	0.5	100	6.0	6.0	6.0
3/8-#4	26.9	37.0	33.0	4	60.9	57.5	-3.4	73.1	12.2		
#4-#10	23.6	21.6	24.9	10	36.0	35.9	-0.1	49.5	13.5		
+ # 10	50.5	64.1	64.0							25.7	25.7
#10-#40	25.0	14.8	12.9	40	23.1	21.1	-2.0	24.5	1.4		
#40-#80	7.8	15.2	13.9	80	9.2	5.9	-3.3	16.7	7.5	8.9	8.9
#80-#200	5.5	3.0	4.5	200	4.7	2.9	-1.8	11.2	6.5	6.5	6.5
-#200	11.2	2.9	4.7						TOTAL:	47.1	47.1
	100.0	100.0	100.0				SUM =				-10.1

 * DISTRICT: 23 DISTRICT: EASTLAND HIGHWAY: HIGHWAY: IH 20 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: IR20-3(39)324 CONTROL: CONTROL: 7-3-49ETC *

DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE -	SUM IN	SUM OF ABS.
#4	#4	% PASS.	#4			PASSING	AVG. EXT	REGIONS	VALUES
0.0	0.0	1/2	100.0	100.0	0.0				
6	6.4	3/8	93.6	94.0	0.4	100	6.4	6.4	6.4
33	31.3	4	62.3	61.0	-1.3	73.1	10.8		
24.5	28.0	10	34.3	36.5	2.2	49.5	15.2		
63.5	65.7							26.0	26.0
13.4	12	40	21.6	23.1	1.5	24.5	2.9		
12.4	12	80	9.4	10.7	1.3	16.7	7.3	10.3	10.3
6	2.6	200	6.8	4.7	-2.1	11.2	4.4	4.4	4.4
4.7	6.8						TOTAL:	47.1	47.1
100.0	100.0			SUM =	2.1				

 * DISTRICT: 23 DISTRICT: LAMPASAS HIGHWAY: US 190 *
 * TYPE: D COURSE: SURFACE *
 * PROJECT: C231-1-24 CONTROL: 231-1-24 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR	AVG. EXT. % PASS.	DES. GRAD % PASS	DES- EXT	.45 LINE %	.45 LINE -	SUM IN	SUM OF ABS.
		1D		% PASS.				PASSING	AVG. EXT	REGIONS	VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100.0	0.0				
1/2-3/8	0.0	7.2	5.7	3/8	94.3	92.8	-1.5	100	5.7	5.7	5.7
3/8-#4	26.9	31.3	33.4	4	60.9	61.5	0.6	73.1	12.2		
#4-#10	23.6	27.3	26.9	10	34.1	34.2	0.1	49.5	15.4		
+ # 10	50.5	65.8	65.9							27.6	27.6
#10-#40	25.0	10.6	9.2	40	24.9	23.6	-1.3	24.5	-0.4		
#40-#80	7.8	13.7	8.0	80	16.9	9.9	-7.0	16.7	-0.2	-0.6	0.6
#80-#200	5.5	7.5	12.3	200	4.6	2.4	-2.2	11.2	6.6	6.6	6.6
-#200	11.2	2.4	4.6						TOTAL:	39.3	40.5
	100.0	100.0	100.0			SUM =	-11.3				

 * DISTRICT: 23 DISTRICT: McCulloch HIGHWAY: US 87 *
 * TYPE: Gr. 4 COURSE: SURFACE *
 * PROJECT: CSR 71-1-30 CONTROL: 007101030 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES.- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN	SUM OF ABS. VALUES
+7/8	0.0	0.0	0.0	+7/8	100.0	100.0	0.0				
5/8-1/2	0.0	19.2	12.4	1/2	87.6	80.8	-6.8	100.0	12.38		
1/2-3/8	12.1	32.5	36.5	3/8	51.1	48.3	-2.8	87.9	36.82	49.2	49.2
3/8-#4	23.6	10.2	11.2	4	39.9	38.1	-1.8	64.2	24.32		
#4-#10	26.9	1.6	5.3	10	34.6	36.5	1.9	43.5	8.94		
+ # 10	62.6	63.5	65.4							33.3	33.3
#10-#40	15.8	16.8	17.1	40	17.5	19.7	2.2	21.5	4.0		
#40-#80	6.9	7.5	6.4	80	11.1	12.2	1.1	14.7	3.6	7.6	7.6
#80-#200	4.8	5.8	4.6	200	6.6	6.4	-0.2	9.9	3.3	3.3	3.3
-#200	9.9	6.4	6.6							TOTAL:	93.4
	100.0	100.0	100.0			SUM=	-6.3				

 * DISTRICT: 24 DISTRICT: CULBERSON HIGHWAY: US 62/180 *
 * TYPE: D COURSE: SURFACE & LEVEL-UP *
 * PROJECT: CD 233-1-31 CONTROL: 23301031 *

GRADATION INFORMATION EXTRACTED GRADATIONS

SIEVE	0.45 LINE	DESIGN GRAD.	AVG. EXT. GRADATION	SIEVES FOR % PASS.	AVG. EXT. % PASS.	DES. GRAD % PASS	DES.- EXT	.45 LINE %	.45 LINE - AVG. EXT	SUM IN	SUM OF ABS. VALUES
+1/2	0.0	0.0	0.0	1/2	100.0	100.0	0.0				
1/2-3/8	0.0	4.9	4.6	3/8	95.4	95.1	-0.3	100	4.6	4.6	4.6
3/8-#4	26.9	31.6	30.0	4	65.4	63.5	-1.9	73.1	7.7		
#4-#10	23.6	24.2	26.3	10	39.1	39.3	0.2	49.5	10.4		
+ # 10	50.5	60.7	60.9							18.0	18.0
#10-#40	25.0	19.2	20.0	40	19.2	20.1	0.9	24.5	5.3		
#40-#80	7.8	8.5	7.1	80	12.0	11.6	-0.4	16.7	4.7	10.0	10.0
#80-#200	5.5	8.3	6.9	200	5.1	3.3	-1.8	11.2	6.1	6.1	6.1
-#200	11.2	3.3	5.1							TOTAL:	38.7
	100.0	100.0	100.0			SUM =	-3.4				

