BACKCALCULATION OF LAYER MODULI OF GRANULAR LAYERS FOR BOTH RIGID AND FLEXIBLE PAVEMENTS

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ABSTRACT

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The resilient moduli (MR) of surface, base and subbase pavement layers and that of the roadbed soil are primary design input parameters to all pavement design software. The modulus values could be obtained from the laboratory using cyclic load tests or backcalculated from Falling Weigh Deflectometer (FWD) data (deflection data). In this study FWD data were used to backcalculate the modulus values of unbound granular materials supporting rigid and flexible pavements. The backcalculated MR values were then compared to those values obtained by Michigan Technological University (MTU) in the laboratory. The results show that on average the backcalculated MR values of the unbound granular layer are about four times higher than the laboratory determined MR. The pavement type and the aggregate characteristics, such as aggregate type and gradation, did not have any significant impact on the backcalculated MR values.

To Mom and Dad

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CHAPTER 1

INTRODUCTION

1.1 BACKGROUND

The state of Michigan is geographically located within the AAHSTO identified wet-freeze zone where frost depth ranges from 2.5 feet near the Ohio and Indiana borders to about 5.0 feet in parts of the Upper Peninsula. To minimize the impact of freeze-thaw cycles on pavement performance, granular subbase (typically sand) and base (typically gravel) layers are conventionally used to provide protection to the roadbed soils from freezing and to minimize the stresses delivered to the roadbed soils. In general, the strengths of the granular layers are lower than that of the asphalt or concrete surface layer and, in most cases, higher than the strength of the roadbed soils.

The most common aggregate types used by the Michigan Department of Transportation (MDOT) in pavement construction include natural gravel, limestone/dolomite, slag, and crushed concrete. In most cases, the types of aggregate used in pavement construction are those available in the aggregate queries near the construction site. Further, MDOT specifies open or dense graded aggregate bases. The angularity of the aggregates varies from rounded (river gravel) to angular (crushed stones). Finally, the thickness of the granular layer is a function of the pavement type (flexible versus concrete) and varies from 9 to about 36 inches.

The value of resilient modulus of a given granular layer depends on the type, angularity and gradation of the aggregates used. In this study, the values of the resilient moduli of the granular layers throughout the State of Michigan were backcalculated using Nondestructive Deflection Test (NDT) data obtained by MDOT using the KUAB Falling Weight Deflectometer (FWD). The backcalculated resilient modulus values of the surface and granular layers and those of the

roadbed soil were compared to:

- The resilient modulus values of the roadbed soils that were backcalculated in a previous study to document the distribution of the design modulus of the roadbed soils throughout the State of Michigan.
- The resilient modulus values of granular base and subbase materials obtained from laboratory tests that were conducted at Michigan Technological University (MTU).
- Typical resilient modulus values reported by other State Highway Agencies and those recommended by the new AASHTO Mechanistic-Empirical Pavement Design Guide (M-E PDG).

1.2 PROBLEM STATEMENT

The new Mechanistic Empirical Pavement Design Guide (M-EPDG) developed under NCHRP Project 1-37A, as well as most existing pavement design methods such as the 1993 AASHTO Design Guide require the resilient moduli of the Hot Mix Asphalt (HMA), aggregate base and sand subbase layers, and the resilient modulus of the roadbed soils as the primary input parameters. Said moduli could be measured in the laboratory or backcalculated using Falling Weight Deflectometer (FWD) data (deflection data). Many highway agencies and engineers believe that laboratory testing for determining the resilient moduli is too complicated, unreliable, and very expensive to perform on a routine basis. In many cases, pavement designers either simply assume resilient modulus values or use various predictive or empirical equations to estimate them. For over 30 years researchers and practitioners have been developing methods to predict the laboratory resilient modulus of subgrade soils based on:

- Correlations to soil strength parameters such as unconfined compressive strength, Dynamic Cone Penetrometer data, California Bearing Ratio, Hveem Stabilometer R-

value, and so forth.

- Empirical relationships with soil descriptive or physical properties such as grain size, aggregate angularity, Atterberg limits, moisture content, density, soil classification and so on.

Although a large number of these empirical correlations currently exist, their accuracy and robustness are highly variable and generally unknown to the users (the pavement designers). Backcalculation of resilient modulus using nondestructive deflection test (NDT) data has its own merit and advantages which include:

- The test is nondestructive in nature, quick, and could be conducted along and across the pavement structure to study the variability of the material moduli.
- The NDT requires minimum traffic control and traffic disruption.
- Tests could be conducted to simulate various traffic loads.
- The tests are conducted under insitu conditions such as temperature, moisture, and stress boundary values/conditions.

For the unbound base and subbase pavement layers, the M-E PDG Level 1 design of new pavements calls for laboratory material testing and for nondestructive testing using FWD for rehabilitation/reconstruction purposes. The Level 2 design, on the other hand, allows the use of correlations that describes the relationships between some material indices, strength parameters and resilient modulus. Finally, the Level 3 design calls for the use of the AASHTO recommended default resilient modulus values based on the AASHTO classification system or on the Unified Soil Classification System (USCS).

In this study, the FWD deflection data collected for the roadbed resilient modulus study (Dawson 2008) were used to backcalculate the resilient moduli of the various base and subbase layers.

1.3 OBJECTIVES

The main objective of this project is to characterize the resilient moduli of the various granular base and subbase materials used by MDOT for the purpose of designing new pavements or rehabilitating/reconstructing existing ones using the existing 1993 AASHTO design procedure or the new M-E PDG.

To accomplish the objective, a research plan consisting of three tasks was developed and is presented in the next section.

1.4 RESEARCH PLAN

As stated above, the research plan for this study consists of the three tasks detailed below.

Task 1 – Information Gathering – In this task, the research team has become familiar with the types and variations of the unbound aggregate base and subbase materials used by MDOT in the construction and rehabilitation of flexible and rigid pavements. In particular, the specifications regarding dense- and open-graded aggregate bases were obtained from MDOT. Further, the final report submitted by researchers at Michigan Technological University (MTU) to MDOT regarding the lab testing of unbound granular materials used in Michigan was thoroughly reviewed. The objectives of the review include:

- Getting familiar with the laboratory test procedure and the test parameters used by the research team at MTU. For all tests, each load cycle consisted of 0.1 second pulse period and 0.9 second relaxation (rest) time.
- Determine whether or not the types of materials tested by MTU cover the spectrum of the granular material types used by MDOT in the construction of open graded aggregate base.
- Establish a database for the purpose of developing relationships between the

backcalculated resilient modulus of open graded materials and the laboratory obtained values that are listed in the MTU report.

- Scrutinize the impact of boundary conditions (test parameters) on the magnitude and variability of the laboratory obtained resilient modulus and their relationships to the field (in-situ) boundary conditions.
- Assess the applicability of the MTU laboratory test results to the various design levels of the M-EPDG.

The summary of the review of MTU report is presented in Chapter 2. Finally, all information and existing data that are needed for the other tasks in this study were tabulated. These include:

- The locations of all FWD tests that were used in the ongoing roadbed characterization study. This would include FWD tests that were conducted in different environmental seasons prior to and during the roadbed study and new FWD tests that will be conducted by MDOT through October of 2009. The tables will also include the pavement cross-section data (thickness and material type) and the type of roadbed soils. When possible, the locations of FWD tests that were conducted on pavements supported by dense- and open-graded bases will be identified and included in the table.
- The information obtained from MDOT regarding the depth of frost penetration especially in the northern part of the Lower Peninsula and in the Upper Peninsula.

Task 2 — Backcalculation of Layer Moduli - All deflection data collected during the on-going roadbed study or obtained from MDOT was used to backcalculate the layer moduli of the various pavement layers and the roadbed soils. Although the moduli of all pavement layers will be backcalculated, tabulated and reported to MDOT, only the resilient modulus of the granular bases, subbases and stabilized bases are subjected to further analyses in this study. Such analysis

includes:

- Possible correlations between the backcalculated and the laboratory measured resilient modulus values that are included in the MTU report.
- Possible correlations between the physical characteristics of the aggregates (open- and dense-graded) and the backcalculated resilient modulus values as well as the laboratory obtained MR values.

Task 3 – Resilient modulus Design Values - The material parameters to be used in the design of pavements are dependent on the pavement type being designed and the design method being used. For example, in the 1993 AASHTO Pavement Design Guide, the coefficients and moduli of all pavement layers and the effective resilient modulus of the roadbed soils are some of the required material inputs for flexible pavements. For rigid pavement design, on the other hand, the modulus of subgrade reaction is one of the required inputs. For the M-EPDG, the modulus of all pavement layers and the roadbed soils are some of the required inputs.

For flexible pavements, the backcalculation of layer moduli using deflection data yield the modulus values of the various layers and roadbed soils. On the other hand, the backcalculation for rigid pavements yield the modulus of subgrade reaction and the elastic modulus and the radius of relative stiffness of the concrete slabs. Hence, further analysis is needed to obtain the modulus values of the granular materials.

After obtaining the backcalculated resilient modulus of the unbound granular materials and comparing these values to the MTU laboratory obtained values, one design resilient modulus value will be recommended for each of the following materials:

- Dense-graded bases
- Open-graded bases

- Stabilized bases
- Sand subbase

1.5 THESIS LAYOUT

The thesis is composed of the following five chapters:

Chapter 1 – Introduction

Chapter 2 – Literature Review

Chapter 3 – Laboratory and Field Investigation

Chapter 4 – Data Analysis

Chapter 5 – Summary, Conclusions and Recommendations

CHAPTER 2

LITERATURE REVIEW

2.1 REVIEW OF MDOT PRACTICES

The Michigan Department of Transportation (MDOT) divides the State of Michigan into seven self administered regions: Superior, North, Grand, Bay, University, Southwest, and Metro, as shown in Figure 2.1. For some pavement projects, each region develops and uses its own practice to estimate the required engineering properties of the pavement materials and the roadbed soils. These practices are mainly based on local conditions, experience, and past practices.

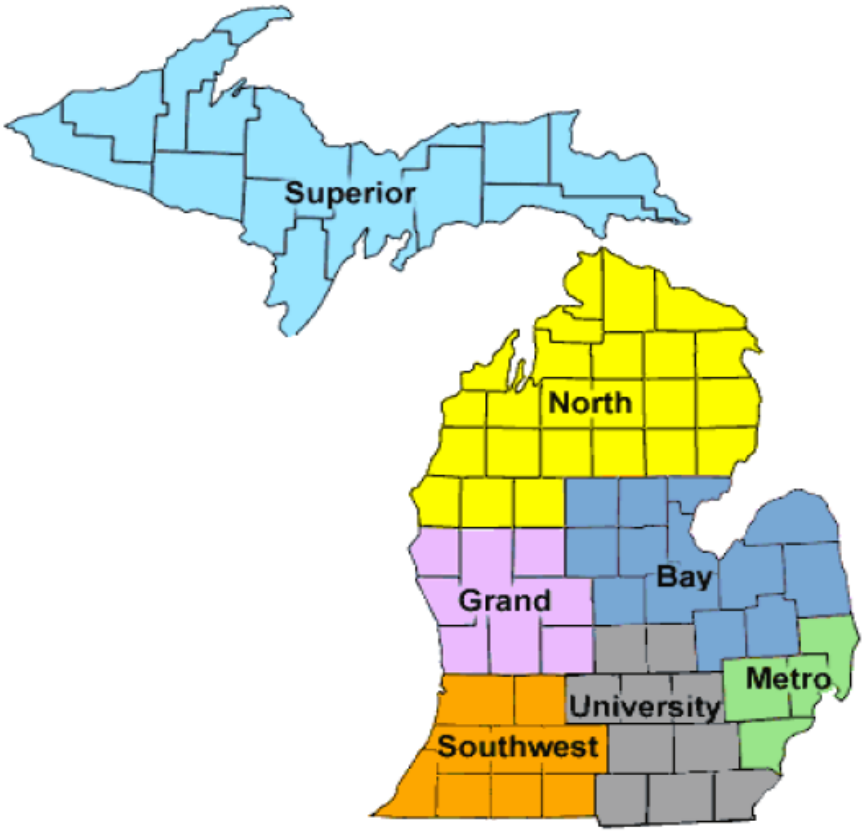

Figure 2.1 MDOT Regions (MDOT)

In each of the seven regions, various types of granular bases and subbases, stabilized granular materials, cemented and lean concrete, are used in their pavement construction. Most of the

granular bases consist of natural gravel, dolomite, slag, or crushed concrete. The particular materials used in construction of the base layer depend on its availability near the construction site. In general, in the project plan, MDOT specifies the gradation of the unbound granular layer. Modulus values of 30 ksi for dense graded granular bases and 24 ksi for open graded granular bases are typically used by MDOT during the pavement design process.

2.2 CHARACTERIZATION OF THE UNBOUND GRANULAR MATERIALS

Soil classification systems are used to differentiate between the various types of soils. The Unified Soil Classification System (USCS), the United States Department of Agriculture (USDA), and the American Association of State Highway and Transportation Officials (AASHTO) soil classification systems are widely used by most of the transportation agencies. Michigan Department of Transportation (MDOT) follows a separate soil classification system called Uniform Field Soil Classification System (UFSCS). Detailed description of these systems can be found elsewhere (Sessions 2008).

The UFSCS is primarily based on visual and manual examination of soil samples with respect to texture, plasticity, color, structure and moisture. A few examples of determining the soil type based on UFSCS include: (a) identification of sand particles and (b) the assumption that all particles that can be seen by the naked eye can be retained on the No. 200 sieve. The AASHTO soil classification is based on the particle size distribution and Atterberg limits. Granular materials are defined as the materials for which less than 35% of the particles by weight pass through the No. 200 sieve (Holtz and Kovacs 1981). Granular materials are classified into 3 groups, A-1, A-2 and A-3, based on the differences in their grain size distributions. Finally, The USCS defines granular materials as those materials for which no more than 50% of the particles by weight pass through No. 200 sieve. If a greater percent of coarse fraction is retained on the

No. 4 sieve it is considered as gravel or else it is treated as sand (Holtz and Kovacs 1981). A comparison between the USDA, the USCS and the AASHTO soil classification is presented in the Table 2.1.

Table 2.1 Comparison between three soil classification systems (USDA 1992)

USDA texture	Classification		Percent Passing Sieve Number				Liquid Limit	Plastic Limit
	USCS	AASHTO	4	10	40	200		
Muck	PT	A-8	100	100	90-100	40-100	0-14	NP
Sand	SP-SM, SM, SP, GP, GP-GM, GM	A-2-4, A-3, A-1-b, A-2, A-3, A-2	40-100	25-100	15-90	0-35	<25	NP
Loamy Sand	SM, SC-SM, ML, CL-ML, SP-SM, SP	A-2, A-4, A-1-b, A-1, A-2-4, A-3	85-100	60-100	30-90	3-55	<30	NP
Silty Loam	ML, CL, CL-ML, SC, SM, CH	A-4, A-6, A-7, A-2	95-100	85-100	60-100	30-95	<45	NP/P
Sandy Loam	SM, SC-SM, ML, CL-ML, SC, CL	A-2-4, A-4, A-2, A-1, A-1-b, A-6	70-100	60-100	35-90	15-75	<35	NP
Clay Loam	CL, CL-ML, SC, SC-SM	A-6, A-4, A-7, A-2	95-100	75-100	70-100	35-90	25-45	NP/P
Loam	CL, CL-ML, ML	A-4, A-6, A-7	90-100	75-100	70-100	50-90	15-45	NP/P
Mucky Sand	SM, SP, SP-SM	A-1-b, A-2-4, A-3	95-100	75-100	30-70	0-15	0-14	NP
Clay	CH, CL	A-6, A-7-6	90-100	85-100	65-95	45-95	30-65	P
Silty Clay	CL, SC, CL-ML	A-4, A-6, A-7	85-100	60-100	50-100	30-90	25-50	NP/P
NP = non-plastic, plastic limit<10 P = plastic soil, plastic limit>10								

2.3 ROLE OF THE RESILIENT MODULUS OF UNBOUND GRANULAR LAYER IN THE M-E PDG:

The new AASHTO Mechanistic-Empirical Pavement Design Guide (M-E PDG) is an analysis tool developed to predict the performance of newly constructed and rehabilitated pavements based on the design thicknesses and material properties taking into account the effect of climate at the construction site. The inputs to M-E PDG are classified into 4 different categories: traffic, climate, material, and inventory. For example, the traffic inputs include the Average Annual Daily Truck Traffic (AADTT), truck and axle load distribution, and so forth. Examples of material inputs include the modulus and Poisson's ratios of the pavement layers and roadbed soils. Climatic data include the maximum and minimum daily temperatures, precipitation for the past 30 years (the data could be obtained from weather station located near the construction site). The required inventory input data include the thicknesses of the pavement layers, the start and completion date of the project and so forth. It should be noted that the inputs for climatic and inventory data remain the same irrespective of the design level.

The same methodology is adopted by the M-E PDG to predict the pavement performance is used in the three design levels (Prozzi et al 2006). However, the degree of reliability varies from high for design level 1 to low for design level 3.

The accuracy of some of the input data depends upon the design level. Three design levels are specified in the M-E PDG. Design level 1 requires the most accurate and site specific data whereas design level 3 is based on default values and existing correlations.

The three design levels are detailed below.

2.3.1 The M-E PDG Design Level 1 – Laboratory Tests and NDT

For level 1 pavement design, the M-E PDG recommends that the resilient modulus values of

unbound granular materials, subgrade, and bedrock be determined in the laboratory using cyclic load tri-axial tests. The tests should be conducted on representative material samples according to one of two standard test procedures. These procedures are detailed in:

- The NCHRP 1-28A report titled, "Harmonized Test Methods for Laboratory Determination of Resilient Modulus for Flexible Pavement Design."
- The AASHTO test standard T307, "Determining the Resilient Modulus of Soil and Aggregate Materials."

The two test procedures describe the laboratory preparation, testing, and computation of the test results. For unbound granular materials, the stress conditions used in the test must represent the range of stress states likely to be developed beneath flexible or rigid pavements subjected to moving wheel loads. Stress states used for modulus testing are based upon the depth at which the material will be located within the pavement system. Hence, the stress states for specimens to be used as base or subbase or subgrade may differ considerably.

The M-E PDG includes the generalized NCHRP 1-28A MR constitutive model shown in equation 2.1. The model coefficients (k_1, k_2, and k_3) are estimated using laboratory generated MR data and linear or nonlinear regression analyses.

$$MR = k_1\left(\frac{\theta}{p_a}\right)^{k_2}\left(\frac{\tau_{oct}}{p_a}\right)^{k_3} \qquad \text{Equation 2.1}$$

Where, MR = resilient modulus, psi

θ = bulk stress (psi) = $\sigma_1 + \sigma_2 + \sigma_3$

σ_1 = major principal stress (axial stress, psi)

σ_2 = intermediate principal lateral stress (psi)

σ_3 = minor principal lateral stress (psi), in a triaxial test environment, the values of σ_2 and σ_3 are the same and equal to the confining pressure

τ_{oct} = octahedral shear stress (psi)

p_a = atmospheric pressure (psi)

k_1, k_2, k_3 = regression coefficients (obtained by fitting resilient modulus test data to the constitutive model of equation 2.1)

The constitutive model coefficients estimated for each test specimen should have a correlation coefficient (R^2) more than 0.90. Constitutive model coefficients from similar soils and test specimen conditions can be combined to obtain a "pooled" k_1, k_2, and k_3 values. If R^2 for a particular test specimen is less than 0.90, the test results and equipment should be checked for possible errors and/or test specimen disturbance. If no errors or disturbances are found, the use of a different constitutive relationship is recommended.

The value of the regression coefficient k_1 is proportional to Young's modulus. Thus, the values for k_1 should be positive since MR values are always positive. Increasing the bulk stress, θ, should produce stiffening or hardening of the material, which results in a higher MR values. Therefore, the exponent k_2, of the bulk stress term in the constitutive equation should also be positive. The value of the regression coefficient k_3 (the exponent of the octahedral shear stress term) should be negative since increasing the shear stress will produce material softening (i.e., lower MR values). It is very important to note that:

- The inputs to the M-E PDG include the values of the regression coefficients k_1, k_2, and k_3 (not the actual values of MR test data).
- The statistical analysis for the determination of the values of k_1, k_2, and k_3 is conducted outside the M-E PDG software.

Finally, level 1 design is applicable to new construction, reconstruction, and major rehabilitation. For new construction, the materials to be used by MDOT or by the contractor can be sampled and tested. For reconstruction, material samples can be obtained through destructive testing (i.e., coring and drilling). On the other hand, for rehabilitation and reconstruction of existing pavements, MR for level 1 design could be obtained by performing NDT using a falling weight deflectometer (FWD) and backcalculating the layer moduli.

2.3.2 The M-E PDG Design Level 2 – Correlations to Other Material Properties

In the M-E PDG design level 2, correlation equations that were developed to relate soil and unbound granular material index properties and strength to resilient modulus values can be used to estimate the MR values. The relationships could be direct or indirect. The direct relationships relate the index to the MR values directly. Whereas, the indirect relationships are based on two step correlations such as relating a known material parameter to California Bearing Ratio (CBR) and then estimating the MR values using the CBR values. Several correlation equations or models recommended in the M-E PDG for estimating MR are provided in Table 2.2. The Design Guide software allows the users the following two options:

- Input a representative value of MR values and use the Environment Integrated Climatic Model (EICM) to incorporate the seasonal climatic effects (such as the effects of freezing and thawing, and so on). In this option, the EICM estimates the temperature and moisture

profiles within the pavement system throughout the pavements design life which are then used to estimate the effective and representative MR value that account for the climatic effects.

- In this option, the users obtain representative samples and test them under the climatic conditions anticipated for each of the 12 months of the year and directly input the results to the EICM.

Table 2.2 Correlation equations included in the M-E PDG for Design level 2

Strength/Index Properties	Model	Comments	Standard Test
CBR	$M_r = 2555\ (CBR)^{0.64}$ M_r in psi	CBR = California Bearing Ratio (percent)	AASHTO T193, "The California Bearing Ratio"
R-value	$M_r = 1155 + 555\ R$ M_r in psi	R = R-value	AASHTO T 190, "Resistance R-Value and Expansion Pressure of Compacted Soils"
AASHTO layer coefficient	$M_r = 10^{\frac{a_2+0.977}{0.249}}$ M_r in psi	a_2 = AASHTO layer coefficient for base layer	AASHTO Guide for the Design of Pavement Structures, 1993
PI and gradation	$CBR = \frac{75}{1+0.728(P_{200}*PI)}$	PI = plasticity index P_{200}= percent passing no. 200 sieve size	AASHTO T27, "Sieve Analysis of Coarse and Fine Aggregates" AASHTO T90, "Determining the Plastic Limit and Plasticity Index of Soils"
DCP	$CBR = \frac{295}{DCP^{1.12}}$	CBR = California Bearing Ratio, percent DCP = Dynamic Cone Penetration index, mm/blow	ASTM D 6951, "Standard Test Method for Use of the Dynamic Cone Penetrometer in Shallow Pavement Applications"

2.3.3 Level 3 – Pavement Design - Typical MR Values Based on Calibrations

For design level 3, the M-E PDG includes recommended MR input values as listed in table 2.3. The values are based on:

- The national averages of MR values adjusted to account for the effect of shallow bedrock and other in-situ conditions that influence the pavement foundation strength.
- Data obtained from the long-term pavement performance (LTPP) test sites.
- The MR values of subgrade, base, and subbase materials that were tested at their optimum moisture conditions.

Significant caution should be taken when using the M-E PDG level 3 recommended MR values as they are very approximate. Results of tests performed for pavement design levels 1 and 2 are strongly preferred, especially FWD tests and backcalculation. The reason for caution is that the representative MR value to be used by the pavement designer is a function of the thickness of the materials and the depth to stiff layer. For semi-infinite conditions (thickness of 20 ft or more), the M-E PDG recommended MR value of 40,000 psi can be justified. However, for a few feet thick materials overlaying week or stiff materials, then the composite MR should be used. Hence, an extensive knowledge of the sub-layers on which the pavement is to be constructed must be obtained. Note that for new pavements, reconstruction, and rehabilitation; the material type may be obtained by reviewing historical boring records and material reports or county soil reports. The presence of bedrock is important and should always be investigated.

Finally, the above stated M-E PDG pavement design level 3 is applicable to new design, reconstruction, and rehabilitation.

Table 2.3 Typical MR Values used in M-E PDG

Classification System	Material Classification	pounds/square inch	
		MR Range	Typical MR
AASHTO	A-1-a	38,500 - 42,000	40,000
	A-1-b	35,500 - 40,000	38,000
	A-2-4	28,000 - 37,500	32,000
	A-2-5	24,000 - 33,000	28,000
	A-2-6	21,500 - 31,000	26,000
	A-2-7	21,500 - 28,000	24,000
	A-3	24,500 - 35,500	29,000
	A-4	21,500 - 29,000	24,000
	A-5	17,000 - 25,500	20,000
	A-6	13,500 - 24,000	17,000
	A-7-5	8,000 - 17,500	12,000
	A-7-6	5,000 - 13,500	8,000
USCS	CH	5,000 - 13,500	8,000
	MH	8,000 - 17,500	11,500
	CL	13,500 - 24,000	17,000
	ML	17,000 - 25,500	20,000
	SW	28,000 - 37,500	32,000
	SP	24,000 - 33,000	28,000
	SW - SC	21,500 - 31,000	25,500
	SW - SM	24,000 - 33,000	28,000
	SP - SC	21,500 - 31,000	25,500
	SP - SM	24,000 - 33,000	28,000
	SC	21,500 - 28,000	24,000
	SM	28,000 - 37,500	32,000
	GW	39,500 - 42,000	41,000
	GP	35,500 - 40,000	38,000
	GW - GC	28,000 - 40,000	34,500
	GW - GM	35,500 - 40,500	38,500
	GP - GC	28,000 - 39,000	34,000
	GP - GM	31,000 - 40,000	36,000
	GC	24,000 - 37,500	31,000
	GM	33,000 - 42,000	38,500

2.4 RESILIENT MODULUS OF GRANULAR MATERIALS IN MICHIGAN

Cyclic load triaxial tests were conducted at Michigan Technological University (MTU) to determine the resilient modulus of various granular materials (crushed concrete, natural gravel, slag, and dolomite), that are typically used in pavement construction projects in Michigan (Mayrberger et al 2007). During the study, which was sponsored by MDOT, the test samples were compacted using three gradations (4G lower bound, 4G upper bound, and 4G maximum density), and four moisture conditions (as compacted, wetting curve, drying curve, and fully saturated).

2.4.1 Gradation

The upper bound gradation is made of fine aggregate content, whereas the lower bound is made of coarse aggregate content. The maximum density gradation was developed using the Fuller's equation with a power of 0.45 [$PP = (D/D_{max})^{0.45}$].

Where, PP = percent passing sieve with D opening,

D = the opening of the sieve in question, and

D_{max} = the maximum particle size.

The gradation specifications used in preparation of the test samples are presented in Figure 2.2.

2.4.2 Moisture Condition

Each aggregate type was compacted at each of the four gradations ant tested at the following four different moisture conditions:

- As compacted – The moisture condition at which the specimen was compacted. The moisture contents and the unit weights of the samples are listed in Table 2.4.
- Wetting curve – The wetting curve simulates movement of water upward through the granular material by capillary action which is captured by monitoring the weight of the

water source at the bottom of the specimen. However, none of the test samples showed any propensity for the capillary movement of water.

- Drying curve – The drying curve simulates water draining from the base course. The weight of the drained water of a fully saturated specimen was monitored and later plotted against time until the water discharge reached equilibrium. The drying curves for different gradations of all material types can be found in (Mayrberger et al 2007).
- Fully saturated – Fully saturated condition represents the situation where all available voids in the test sample are filled with water without any possible drainage.

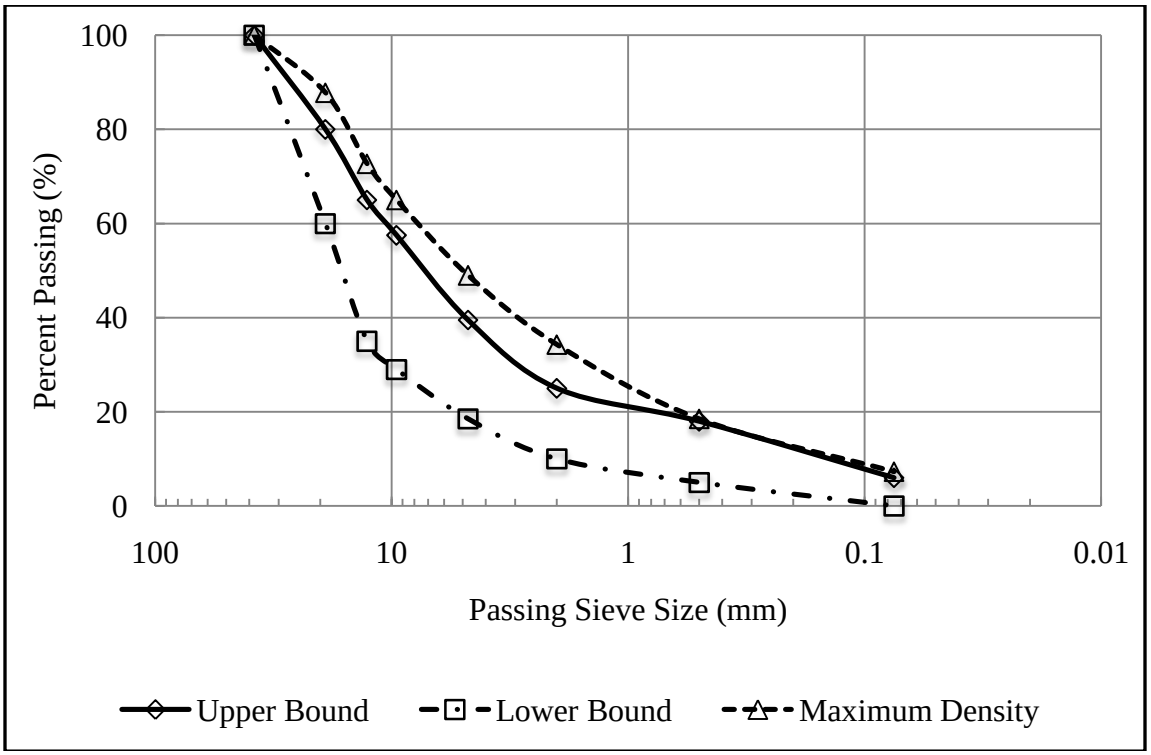

Figure 2.2 Gradations (Mayrberger et al 2007)

Table 2.4 Granular material type, gradation designation, dry unit weight and moisture contents of the test samples (Mayrberger et al 2007)

Granular Material Type	Gradation	Dry Unit Weight (pcf)	Moisture Content (%)
Natural Gravel	4G Lower Bound	122	3.5
	4G Upper Bound	140	3.5
	Maximum Density	143	4.5
Dolomite	4G Lower Bound	128	2.6
	4G Upper Bound	148	3.2
	Maximum Density	150	3.5
Slag	4G Lower Bound	105	4.5
	4G Upper Bound	116	5.5
	Maximum Density	127.5	7.5
Crushed Concrete	4G Lower Bound	102	6
	4G Upper Bound	119	7
	Maximum Density	120	8.6

2.4.3 Laboratory Tests

The AASHTO's Standard Test Method T 307-99 (Modulus of Soils and Aggregate Materials) was used to determine the Resilient moduli of all test specimens except the fully saturated ones. The T 307-99 test protocol has the 15 different stages listed in Table 2.5. For the drained test, the drainage lines were open and water allowed to drain out of the sample, hence, no excess pore water pressure develops upon the application of deviatoric stresses. Whereas, for the undrained test, the drainage line are closed, increasing the deviatoric stress causes the excess pore water pressure to increases and the effective stress to decrease causing softening in the sample. The undrained tests were halted at each stage and the sample was allowed to drain to reduce the excess pore water pressure. Saturation of the test samples was achieved by a combination of

high confining stress and pore water pressure. The effective stresses of the undrained test samples are listed in Table 2.6.

Table 2.5 Different stages of the T 307-99 test protocol (Mayrberger et al 2007)

Sequence Number	Maximum Stress σ_1 (psi)	Confinement Stress $\sigma_3 = \sigma'$ (psi)	Deviator stress σ_d (psi)
1	6	3	3
2	9	3	6
3	12	3	9
4	10	5	5
5	15	5	10
6	20	5	15
7	20	10	10
8	30	10	20
9	40	10	30
10	25	15	10
11	30	15	15
12	45	15	30
13	35	20	15
14	40	20	20
15	60	20	40

2.4.4 Summary of the Results

A summary of the effect of material type, gradation and moisture condition on the resilient modulus of granular materials is presented in this section. The detailed discussion can be found elsewhere (Mayrberger et al 2007).

The behavior of granular materials changed from over consolidation to normal consolidation at a bulk stress of 40 psi (Mayrberger et al 2003). Hence the resilient modulus and bulk stress were broken into two conditions, over and normal consolidation. When the behavior of the granular materials in each consolidation condition was treated separately, a linear relation between the resilient modulus and the bulk stress was found.

Table 2.6 Effective stress for 15 stages of T 307-99 for a fully saturated condition (Mayrberger et al 2007)

Sequence Number	Confinement Stress σ_3 (psi)	Pore Pressure u (psi)	Effective stress $\sigma' = \sigma_3 - u$ (psi)
1	115	112	3
2	115	112	3
3	115	112	3
4	115	110	5
5	115	110	5
6	115	110	5
7	115	105	10
8	115	105	10
9	115	105	10
10	115	100	15
11	115	100	15
12	115	100	15
13	115	95	20
14	115	95	20
15	115	95	20

Effect of Gradation - For all materials, the lower bound gradation was found to be the stiffest and the upper bound gradation was stiffer than the maximum density gradation. This relation is found to be true in both normally and over consolidated samples. The stiffness of the granular material decreased as the ratio of fine to coarse aggregates increased.

Effect of Material type - Natural gravel was the softest of all material types in both the normal and the over consolidation regions. Slag and dolomite are stiffer than natural gravel by 15 – 50% and crushed concrete is stiffer by 7 – 29%. Dolomite and Slag are almost similar in stiffness and produced the stiffest responses. Crushed concrete lies in between slag and dolomite and Natural gravel. It is 4 – 15 % softer than slag and dolomite.

Effect of Moisture Content - For all the three gradations, fully saturated condition showed marginal softening; however, for some materials considerable softening was observed. There was marginal softening or no change in stiffness for drying curve moisture content. Wetting

curve moisture content either caused stiffening or there was no effect on the stiffening. The effects of moisture conditions on the material stiffness are presented in Table 2.7.

Table 2.7 Effect of moisture conditions on the stiffness of granular materials (Mayrberger et al 2007)

Gradation	Moisture Condition	Natural Gravel	Dolomite	Slag	Crushed Concrete
4G Lower Bound Gradation	As-Compacted	Standard	Standard	Standard	Standard
	Wetting Curve	similar	NA	NA	similar
	Drying Curve	softer	similar	similar	softer
	Fully Saturated	softer	softer	similar	softer
4G Upper Bound Gradation	As-Compacted	Standard	Standard	Standard	Standard
	Wetting Curve	Stiffer	Stiffer	marginally stiffer	similar
	Drying Curve	similar	similar	marginally softer	similar
	Fully Saturated	marginally softer	similar	softer	similar
Maximum Density Gradation	As-Compacted	Standard	Standard	Standard	Standard
	Wetting Curve	marginally stiffer	similar	similar	Stiffer
	Drying Curve	similar	similar	similar	Stiffer
	Fully Saturated	similar	similar	softer	Stiffer

2.4.5 Laboratory Resilient Modulus of Unbound Granular Materials

As stated earlier, the resilient modulus of several granular materials compacted at various gradations and moisture contents were measured using cyclic load triaxial tests. Since these modulus values are stress dependent, the laboratory tests should be conducted to simulate the state of stress in the field. For a typical pavement cross section, the vertical and radial stresses at the centre of the base layer due to a 9000 pound load are about 12 and 2 psi, respectively. Hence,

the laboratory cyclic load triaxial tests were conducted using confining pressure of 3 and axial stress of 12 psi. A summary of the laboratory measured resilient modulus values of the unbound granular materials is presented in Figure 2.3 (Mayrberger et al 2007).

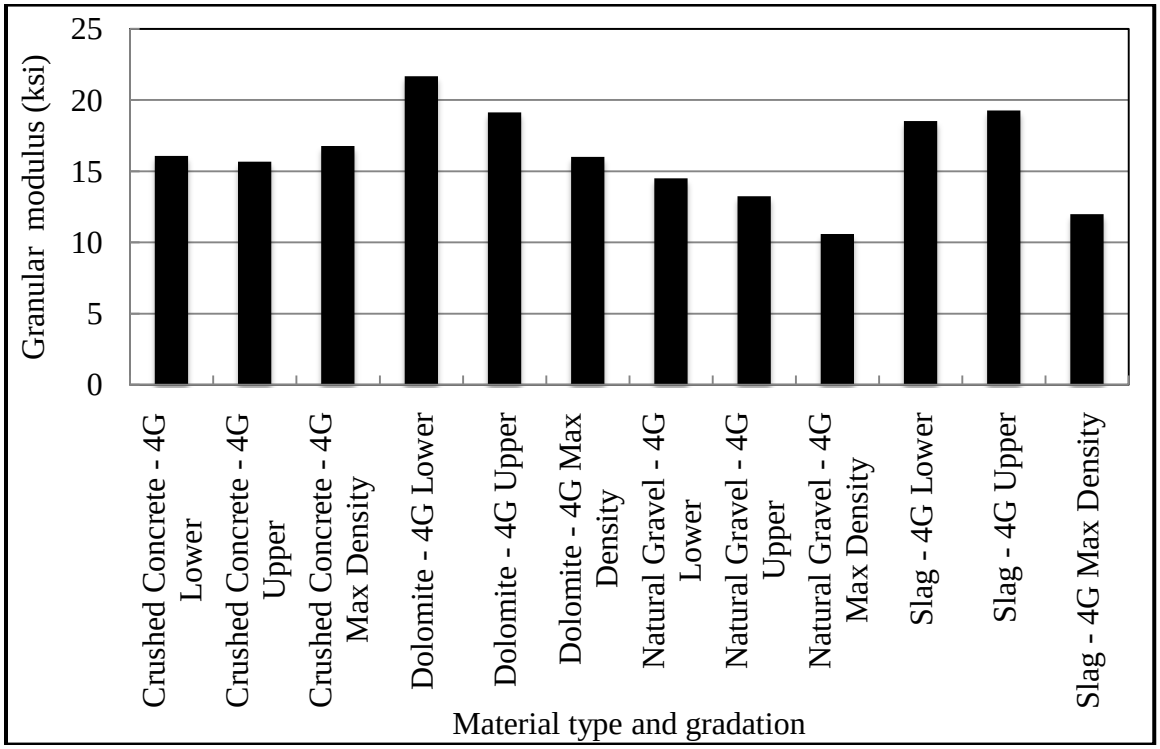

Figure 2.3 Laboratory modulus of several granular materials at different gradations (Mayrberger et al 2007)

The following conclusions were made from figure 2.3:

- The average range of the resilient modulus of all the granular materials irrespective of the material type was between 15,000 psi and 20,000psi.
- The variation in the resilient modulus was primarily due to changes in the moisture content.
- Gradation type had very little impact on the resilient modulus value of the unbound granular materials. Although insignificant, the resilient modulus value of all materials except crushed concrete was found to decrease as the gradation became denser. For the

crushed concrete, the resilient modulus value was almost independent of the material gradation.

2.5 NONDESTRUCTIVE DEFLECTION TESTS (NDT)

Nondestructive deflection test (NDT) is one of many field tests used by Departments of Transportation (DOT)'s to evaluate the pavement structural capacity. The advantages of using NDTs include (a) their non destructive nature, and (b) insignificant lane closure with minimum impact on traffic flow. The results from the NDT's are used to:

- Backcalculate the layer moduli for both flexible and rigid pavements.
- Estimate the load transfer efficiency of the dowel bars in rigid pavements.
- Evaluate the presence of voids beneath the slab.
- Design the thickness of pavement layers for rehabilitation.
- Design the thickness of the overlays.

Various types of NDT equipment such as the Benkelman Beam, la Croix Deflectograph, Road Rater, dynaflect, Cox Device, Falling Weight Deflectometer etc. are available. Detailed descriptions of the NDT devices can be found in (Mahmood 1993).

In this study, NDTs were conducted using the MDOT KUAB falling weight deflectometer (FWD). The pavement surface deflection were measured at various distances from the center of the load and were used to backcalculate the unbound granular layer moduli.

2.5.1 The MDOT KUAB Falling Weight Deflectometer (FWD)

As stated above, the MDOT KUAB FWD was used to conduct the NDTs. The KUAB FWD is capable of delivering to the pavement surface at various load levels. In all tests in this study, the 9000 pounds load level was used and the pavement surface deflections were measured at distances of 0, 8, 12, 18, 24, 36 and 60 inches from the center of the load. The 9000 pounds

force was achieved through dropping a particular weight at a predetermined distance. The force of the impact is typically considered a static force at the point of contact. In most analysis procedures of the deflection data, the pavement layers and the roadbed soil are typically considered elastic materials.

The weight of the falling mass can be calculated as follows (Kim et al 2006);

$$W_1(H+\delta_{\max})-.5K\delta^2{}_{\max}=0 \qquad \text{Equation 2.2}$$

Where, W_1 = weight corresponding to the mass M (lbs)

H = height of drop (in)

$\delta_{\max}$ = maximum pavement deflection (in)

K = spring constant (lb/in)

The impact factor ($\delta_{\max}/\delta_{st}$) can be calculated using equation 2.3.

$$\delta_{\max}/\delta_{st}=1+\left(1+\left(\frac{2H}{\delta_{st}}\right)\right)^{\frac{1}{2}} \qquad \text{Equation 2.3}$$

Where, δ_{st} = static deflection (in)

The impact load is calculated using equation 2.4, by multiplying the static load by the impact factor.

$$P_{dyn}=W_1\left(1+\left(1+\left(\frac{2H}{\delta_{st}}\right)\right)^{\frac{1}{2}}\right) \qquad \text{Equation 2.4}$$

Where, P_{dyn} = impact load (lbs)

Because of the difficulties associated with measuring the impact load, the force (*F*) is calculated by multiplying the drop weight (*W*) by the height of drop (*H).*

$$F = WH \qquad \text{Equation 2.5}$$

The uniformly distributed load can be obtained from equation 2.6.

$$q = \frac{F}{A} \qquad \text{Equation 2.6}$$

Where, q = applied load to plate (lbs)

A = loading plate area (in^2)

In order to backcalculate the moduli of the pavement layers with high accuracy, it is important to measure the deflections at the pavement surface with a very minimal error. Any random error in the measurement of deflection and variability in the thickness of the pavement layers leads to a high degree of pseudo variability in the backcalculated layer moduli. Hence, the following recommendations were made in order to reduce the errors in the measurement of deflections (Irwin et al 1989):

- Taking the average of the deflections measured by the FWD by replicating the drop three to five times at the same load level.
- Making at least two drops before recording the deflections for the purpose of seating the pavement.
- Calibrating the FWD every six to twelve months to minimize the possible systematic errors.

2.6 BACKCALCULATION OF LAYER MODULI

The process of converting the measured pavement surface deflections to layer moduli is called backcalculation. Backcalculation routines use the pavement surface deflections to determine the

layer moduli of the pavement using one or more of the following techniques:

- **Iterative approach** – In this approach, the deflection basin is calculated based on a set of estimated seed moduli and used as input to the computer program. The software uses the estimated seed moduli and calculates the pavement surface deflections due to the same load level used by the FWD to measure the deflection data. The calculated deflections are then compared to the measured ones. Based on the comparison, the estimated seed modulus values are then varied and a new set of pavement surface deflections are calculated. The process is repeated until the differences between the calculated and the measured deflections are equal to or less than the specified conversion criteria specified by the users. One of these criteria is the Root Mean Square (RMS) error between the measured deflection basin and the calculated one. The RMS error is calculated for each iteration and the layer moduli corresponding to a calculated deflection basin with an RMS error of less than 2% are considered accepted for flexible pavements. Some of the backcalculation routines that use iterative approach are MODTAG, MICHBACK, EVECALC, and so forth.
- **Database** - Deflection basins for all possible combinations of the layer moduli are calculated and are stored in a database. The moduli values corresponding to the deflection basin that is closest to the measured deflection basin are considered as the layer moduli. Example of such computer program is MODULUS.
- **Empirical Equations** – Backcalculation of the pavement layer moduli is based on a set of empirical equations, which gives a unique modulus for a given set of deflections. Examples of such method include the AREA, and the NUSBACK methods.

Some of the common assumptions made by the backcalculation routines include:

- The pavement materials are homogenous, isotropic, and linear elastic.
- The load is uniformly distributed over the circular loading plate.
- The pavement layers extend horizontally to infinity (no edge effects).
- The subgrade is considered to be a semi–infinite half-space.

Backcalculation can only determine the moduli of the pavement layers that have significant influence on the surface deflections. Deflections that are measured using the FWD are relatively insensitive to minor variations in the pavement moduli (Irwin 1994).

Various backcalculation programs are available in both the public and the private domains. Description of some of the backcalculation routines is presented in this section. A list of available backcalculation programs is presented in Table 2.9.

2.6.1 Backcalculation of Flexible Pavement Layer Moduli

This section provides a summary of some available computer software and methods used in the backcalculation of flexible pavement layer moduli.

2.6.1.1 The AASHTO Method

This AASHTO method is based on Boussinesq equation (Equation 2.7). The AASHTO method is based on the concept that pavement surface deflections measured at far distances from the center of the applied load are mainly due to deflections in the roadbed soils. Hence, Boussinesq equation is the most widely used equation to backcalculate the resilient modulus (MR) of the roadbed soils using a single pavement surface deflection (George 2003).

$$d_r = \frac{CP\left(1-\nu^2\right)}{\pi r MR} \; or \; MR = \frac{CP\left(1-\upsilon^2\right)}{\pi r d_r} \qquad \text{Equation 2.7}$$

Where, d_r = the surface deflection (in) at a distance r (in) from the load

P = applied load (lbs)

C = correlation/adjustment factor that accounts for the difference between the backcalculated and the laboratory obtained MR value

MR = resilient modulus (psi)

υ = poison's ratio of the asphalt layer

r = the radial distance from the center of the applied load (in).

Assuming a Poisson's ratio of 0.5, Equation 2.7 can be reduced to the following equation (AASHTO 1993).

$$MR = \frac{0.24CP}{d_r r}$$

Equation 2.8

AASHTO recommends the use of a C value no greater than 0.33. The minimum distance (r) in Equations 2.7 and 2.8 is given by the following relationship.

$$r = 0.7\sqrt{a + \left(D \times \sqrt[3]{\frac{E_p}{MR}}\right)}$$

Equation 2.9

Where, a = radius of load plate (in)

D = total thickness of pavement layers above the roadbed (in)

E_p = effective modulus of all layers above the roadbed (psi)

E_p in Equation 2.9 can be calculated using Equation 2.10.

$$\frac{MR \times d_o}{q \times a_1} = 1.5\left\{\frac{1}{\sqrt{1+\left[\frac{D}{a_1}\sqrt[3]{\frac{E_p}{MR}}\right]^2}} + \frac{1-\frac{1}{\sqrt{1+\left(\frac{D}{a_1}\right)^2}}}{\left(\frac{E_p}{MR}\right)}\right\}$$ Equation 2.10

Where, d_o = deflection measured at the center of the load plate (in)

a_1 = temperature of 68 ^{o}F

q = pressure on load plate (psi)

D = total thickness of pavement layers above the subgrade (in)

E_p = effective modulus of all layers above the subgrade (psi)

2.6.1.2 MICHBACK

The MICHBACK computer program for the backcalculation of layer moduli was developed at Michigan State University with support from the MDOT. The MICHBACK program uses an extended precision version of CHEVRON program, called CHEVRONX, as a forward calculation subroutine. The program uses three gradients modified Newtonian algorithm in its iteration to converge the calculated and the measured deflection basins (Harichandran et. al. 1993). In addition to the layer moduli, the depth to a stiff layer (e.g., bedrock, hard soil, or hard pan) or the thickness of one layer may also be backcalculated. However, the accuracy of the backcalculated thickness or depth to stiff layer is questionable. Hence, the program allows the user to specify the depth to the stiff layer during the backcalculation process. The MICHBACK software assumes the pavement layers to be homogeneous, isotropic and linearly elastic for its

backcalculation routine.

The MICHBACK software is a menu driven and it allows the user to choose between English and SI units. It can accommodate up to ten FWD sensors. The inputs of the deflection data into the program could be achieved through reading of user created FWD files in ASCII format, typing the data using the keyboard, or reading the data arranged in the standard KUAB FWD files. The input to the program includes the thickness and Poisson's ratios of the various pavement layers and the measured deflections corresponding to the selected sensor configuration. The program also requires the user to input the maximum, minimum and the seed moduli for each pavement layer and the roadbed soil along with the estimated depth to stiff layer. After defining all input parameters the program performs the backcalculation and the results can be viewed on the screen or can be printed to a file. Detailed description of the program can be found in (Mahmood 1993).

2.6.1.3 MODTAG

MODTAG is a backcalculation software developed by the Virginia Department of Transportation (VDOT) and Cornell University. MODTAG follows an iterative method that adjusts the moduli of the pavement layers to match the deflection basin. It uses CHEVLAY2 computer code as a forward calculation engine, which is based on elastic layer system. The computed deflections using CHEVLAY2 are compared to the measured deflections and the seed moduli are adjusted to match the difference in the deflections (Irwin 1994). This program can handle two to fifteen layers, including the bottom layer for which the thickness is assumed to be semi-infinite. However, no more than five unknown layers are recommended for the analysis. (Von Quintas et al 2002) used MODTAG (which is also known as MODCOMP4) to backcalculate the layer moduli of rigid pavements. His results showed that the Root Mean

Square (RMS) errors for most deflection basins were equal to or less than three percent. Hence, in this study, all backcalculated layer moduli where the RMS error was equal to or less than three percent were considered acceptable.

2.6.1.4 MODULUS 6.0

The computer program MODULUS 6.0 was developed at Texas Transportation Institute. The program uses WELSEA as the forward calculation subroutine. WELSEA is used to build a database of computed deflection basin. Once the database is build, a pattern search routine is used to match measured deflection basin with those in the database to determine the modulus of the layers in the pavement system (Scullion et al 1990). The maximum number of unknown layers is limited to 4. MODULUS 6.0 is generally used for the backcalculation of layer moduli of flexible pavements.

2.6.1.5 EVERCALC

The EVERCALC backcalculation software was written to estimate the elastic moduli of flexible pavement layers. The program uses an iterative approach to vary the modulus values of the pavement layers in order to match the calculated and the measured deflection basins within a pre-specified range of RMS error. EVERCALC program uses the WELSEA elastic layer computer program as the forward engine to calculate the deflection basin based on a given set of layer moduli. The program also uses a modified Augmented Gauss-Newton algorithm for optimization (Lee 1988). Like the MICHBACK software, EVERCALC can handle up to ten deflection sensors. The program is capable of evaluating the moduli of pavement structure containing up to five layers.

2.6.2 Backcalculation of Rigid Pavement Layer Moduli

Most of the programs used for backcalculation of the moduli of rigid pavement layer are based

on empirical equations. Two of these programs (the AREA Method and the NUS-BACK3) are briefly described below.

2.6.2.1 AREA Method

AREA method is used for backcalculation of the moduli of the subgrade and the concrete layers of rigid pavements (Frabizzio 1998). The method is based on the assumption of a slab on subgrade system. The term "AREA" references the area of the deflection basin where the deflections are measured at different radial distances from the center of the load. First, the measured deflections are normalized relative to the peak pavement deflection (δ_0). The AREA is then calculated using Equation 2.11. Second, the composite radius of relative stiffness of the slab is calculated using Equation 2.12 followed by the composite modulus of the concrete slab using Equation 2.13. The non dimensional deflection coefficient (δ_r^*) accounts for the dependence of pavement deflection on the distance from the load (pavement deflection decreases with increasing distance from the load) (Frabizzio 1998). The values for δ_r^* can be calculated using Equation 2.14 and the regression parameters listed in Table 2.8. Equation 2.15 can then be used to calculate the modulus of subgrade reaction; the latter is correlated to the resilient modulus of the roadbed soil through Equation 2.16 (AASHTO 1993). The AAHTO equation (Equation 2.16) is based on the assumption of slab placed on subgrade. Based on the backcalculated resilient modulus values of roadbed soils supporting rigid and flexible pavements throughout the State of Michigan, Dawson modified the AASHTO equation to account for slab on granular subbase (Dawson 2008). His data showed that the resilient modulus values of roadbed soils under flexible pavements are about four times higher than the resilient modulus values obtained using Equation 2.16 for the same roadbed soils supporting rigid pavements. His modified equation is included as Equation 2.17.

$$AREA = \left[4 + 6\left(\frac{\delta_8}{\delta_0}\right) + 5\left(\frac{\delta_{12}}{\delta_0}\right) + 6\left(\frac{\delta_{18}}{\delta_0}\right) + 9\left(\frac{\delta_{24}}{\delta_0}\right) + 18\left(\frac{\delta_{36}}{\delta_0}\right) + 12\left(\frac{\delta_{60}}{\delta_0}\right) \right]$$

Equation 2.11

$$l = \left[\frac{LN\left(\frac{60 - AREA}{289.708}\right)}{(-0.698)} \right]^{2.566}$$

Equation 2.12

$$E_c = \frac{12(1-\nu^2)Pl^2\delta_r^*}{\delta_r h^3}$$

Equation 2.13

$$\delta_r^* = ae^{\left[-be^{(-cl)}\right]}$$

Equation 2.14

$$k = \frac{E_c h^3}{12(1-\nu^2)l^4}$$

Equation 2.15

$$MR = 19.4(k)$$

Equation 2.16

$$MR = (4)(19.4)k$$

Equation 2.17

Where, *AREA* = area of deflection basin, (in)

δ_r = deflection at radial distance of r inches from the application of load (mils)

l = radius of relative stiffness (in)

E_c = modulus of slab (psi)

P = load applied on the pavement (lbs)

ν = Poisson's ratio of concrete slab

δ_r^* = non – dimensional deflection coefficient at the radial distance r (in)

a, b, c = regression coefficients

k = modulus of Subgrade reaction (pci)

MR = Resilient modulus of subgrade, (psi)

Table 2.8 Regression coefficients for δ_r^* (Frabizzio 1998)

Radial Distance, r (inches)	a	b	c
0	0.12450	0.14707	0.07565
8	0.12323	0.46911	0.07209
12	0.12188	0.79432	0.07074
18	0.11933	1.38363	0.06909
24	0.11634	2.06115	0.06775
36	0.10960	3.62187	0.06568
60	0.09521	7.41241	0.06255

The use of fewer sensor locations to calculate the AREA of the deflection basin was found to provide more accurate results during the backcalculation of layer moduli (Shuo et al 2000). Hence, it was recommended to use the deflections at the radial distances of 0, 12, 24, and 36 inches from the centre of the load (Hoffman et al, 1981). For the four deflection values measured at the stated radial distances, the $AREA_4$ and the radius of relative stiffness, l_4 are calculated using Equations 2.18 and 2.19, respectively.

$$AREA_4 = \frac{6}{\delta_0}\left(\delta_0 + 2\delta_{12} + 2\delta_{24} + \delta_{36}\right) \qquad \text{Equation 2.18}$$

$$l_4 = \left[\frac{\ln\left(\frac{36 - AREA_4}{1812.28} \right)}{-2.559} \right]^{4.387}$$

Equation 2.19

Where, $AREA_4$ = area of the deflection basin under the first 4 deflections (in)

l_4 = radius of relative stiffness (in)

The backcalculation procedure presented above is based on the Westergaard's assumptions of interior loading on an infinite slab. This assumption causes the backcalculation procedure to overestimate the modulus of the finite dimension slab and under estimate the modulus of the subgrade. (Crovetti 1994) conducted finite element analysis of concrete slab using ILLI-SLAB and developed Equations 2.20 and 2.21 to correct the deflection directly under the center of the load, δ_0 and the radius of relative stiffness, *l*.

$$\delta_0^* = \delta_0 * \left(1 - 1.15085 e^{-0.71878 \left(\frac{L}{l_{est}} \right)^{0.80151}} \right)$$

Equation 2.20

$$l^* = l_{est} * \left(1 - 0.89434 e^{-0.61662 \left(\frac{L}{l_{est}} \right)^{1.04831}} \right)$$

Equation 2.21

Where, L = length of square slab (in)

δ_0^* = corrected deflection (in)

l_{est} = radius of relative stiffness (in) backcalculated using equation 2.12

l^* = corrected radius of relative stiffness (in)

For concrete slabs with length equal to or less than twice the slab width the length of the square slab L, in Equations 2.20 and 2.21 is given by (Khazanovich et al 2001)

$$L = \sqrt{L_1 * L_2} \qquad \text{Equation 2.22}$$

Where, L = equivalent length (ft)

L_1 = slab width (ft)

L_2 = slab length (ft)

For slabs where the slab length is greater than twice the slab width, the length of the square slab is estimated using Equation 2.23.

$$L = \sqrt{2} * L_1 \qquad \text{Equation 2.23}$$

However, the errors in the backcalculated modulus values using Crovetti's corrections were higher when compared to those from the assumption of an infinite slab (Setiadji et al, 2007). Once again, the concrete slab modulus calculated using the AREA method is based on the assumption that the slab is placed directly on subgrade. For PCC slabs placed on base layer, the PCC slab modulus calculated using the AREA method is, in reality, the composite modulus of the PCC slab and the base layer. Equations 2.24 through 2.26 are used to estimate the PCC slab and the base layer moduli from the composite PCC modulus from the AREA method based on

the assumption that the flexural stiffness of the PCC and the base layers combined is equal to the sum of the flexural stiffness of the PCC and the base layer (Ioannides et al 1992).

$$E_{pcc} = \frac{h_{pcc}^3}{h_{pcc}^3 + \beta h_{base}^3} E_{effective}$$ Equation 2.24

$$E_{base} = \frac{\beta h_{pcc}^3}{h_{pcc}^3 + \beta h_{base}^3} E_{effective}$$ Equation 2.25

$$\beta = \frac{E_{base}}{E_{pcc}}$$ Equation 2.26

Where, $E_{effective}$ = composite PCC modulus (psi)

β = modular ratio

E_{pcc} = modulus of the surface layer (PCC) (psi)

h_{pcc} = thickness of the concrete slab (in)

E_{base} = modulus of the base layer (psi)

h_{base} = thickness of the base layer (in)

The value of the modular ratio β is less than 1.0 and is defined as the ratio of the modulus of the base layer to the modulus of the PCC slab. The accuracy of the backcalculated modulus depends on the accuracy of the estimation of the modular ratio. Modular ratios for various types of unbound granular bases are presented in (Khazanovich et al 2001). For a typical unbound granular layer the modular ratio varied from 0.0067 to 0.004. (Smith et al 1995) in their study concluded that the granular layer modulus was more sensitive to the modular ratio. Hence, this

methodology is not recommended for the backcalculation of the modulus of the granular bases (Khazanovich et al 2001).

2.6.2.2 NUS-BACK3

NUS-BACK3 is backcalculation software used to determine the layer moduli of rigid pavements **(**Shuo et al 1997). The method is based on a set of Equations that are based on the following assumptions:

- Infinite slab
- Presence of a base or subbase layer in between the concrete slab and the subgrade.
- The base/subbase and subgrade are elastic layers.

Equations 2.27 through 2.30, which are based on the work of (Burmister 1945) and (Panc 1975) are used for the backcalculation of layer moduli using measured pavement surface deflection data.

$$d_i = \frac{2(1-\vartheta_b)P}{\pi a E_b} F_E \qquad \text{Equation 2.27}$$

$$F_E = \frac{2l}{\pi a}\int_0^x \frac{J_0\left(\frac{r}{l}t\right)J_1\left(\frac{a}{l}t\right)}{t\left(1+t^3\right)}dt \qquad \text{Equation 2.28}$$

$$c = \frac{(1+\vartheta_b)E_s}{(1+\vartheta_s)E_b} \qquad \text{Equation 2.29}$$

$$l = \left(\frac{E_c h_c^3 (1 - \vartheta_b^2)}{6(1 - \vartheta_c^2) E_b} \right)^{(1/3)}$$ Equation 2.30

Where, d_i = deflection at sensor location I (in)

ϑ_b = Poisson's ratio of base

P = load applied (lbs)

a = radius of FWD plate (in)

E_b = modulus of base (psi)

F_E = deflection factor

l = radius of relative stiffness (in)

J_0 = Bessel function of first kind of order zero

J_1 = Bessel function of first kind of order one

t = dummy variable

r_i = radial distance i of the deflection sensor i from the center of the load (in)

ϑ_s = Poisson's ratio of subgrade

E_s = modulus of subgrade (psi)

E_c = modulus of the PCC slab (psi)

h_c = thickness of the PCC slab (in)

A minimum of three deflection values are required to backcalculate the modulus values of the three layers. Typically pavement surface deflections measured at radial distances of 0, 12 and 24in from the center of the load are used in the backcalculation (Setiadji et al 2006).

2.6.2.3 ILLI-BACK

ILLI-BACK is a closed form backcalculation procedure based on the principles of dimension analysis and is applicable to two layer rigid pavement systems. The backcalculation method is based on the following two fundamental concepts:

1. For any particular loading plate and deflection sensor arrangement, there exist a unique relationship between the deflection basin area, AREA, and the radius of relative stiffness, *l*, of the slab-subgrade system (Ioannides 1990).
2. The deflections of a concrete slab placed on subgrade, are dependent on the dimensionless load size ratio (a/*l*) which is defined as the ratio of the plate radius (a) and the radius of relative stiffness of the concrete slab (*l*) (Ioannides 1987).

The backcalculation procedure involves the calculation of the area of the deflection basin, AREA, and the radius of relative stiffness. Based on the value of *l*, dimensionless deflection values are calculated. The modulus values of the concrete slab and subgrade are then calculated using the dimensionless deflections and the radius of relative stiffness (Ioannides 1994)

2.6.3 Forwardcalculation

Most of the backcalculated programs use a forward calculation program where the pavement deflections at various distances from the load are calculated based on assumed sets of resilient modulus values and Poisson's ratios. The calculated deflection basins are then compared to the measured ones and the assumed layer modulus values are changed incrementally and a new set of deflection basins are calculated. The iteration process continues until the differences between the calculated and the measured deflection basins meet certain input conversion criteria. A serious disadvantage of this method is that, an error in one of the backcalculated layer modulus leads to errors in the other backcalculated layer moduli.

In order to overcome the disadvantage with the iterative backcalculation programs, another empirical approach for the calculation of the flexible and rigid pavement layer moduli was developed (Stubstad et al 2006). The approach is called forward calculation and it involves estimating the modulus of the pavement layer moduli by using the following steps:

Step 1: Estimation of the modulus of the subgrade

The modulus of the subgrade is estimated using Equations 2.31 (the Hogg model (Hogg A.H.A 1944)), which is based on the hypothetical two-layer system with a thin elastic plate resting on elastic foundation). Implementation of Hogg modulus is described by (Wiseman et al 1983), which simplifies the multi layer system into a simple two-layer model for the following three cases:

Case 1 – The subgrade is assumed as an infinite elastic solid foundation.

Case 2 – The subgrade is assumed as a finite elastic solid foundation, with Poisson's ratio of 0.4.

Case 3 – The subgrade is assumed as a finite elastic solid foundation, with Poisson's ratio of 0.5

For the three cases the thickness of the foundation is 10 times the characteristic length, l_c, estimated from Equation 2.33. The values that each constant takes depend on case of the Hogg model used for determining subgrade model. Case 2 Hogg model was used in the LTPP study (Stubstad et al 2006).

$$E_s = I\frac{(1+\upsilon_0)(3-4\upsilon_0)}{2(1-\upsilon_0)}\left(\frac{S_0}{S}\right)\left(\frac{P}{\delta_0 l_c}\right) \qquad \text{Equation 2.31}$$

$$r_{50} = r\frac{(1/\alpha)^{1/\beta} - B}{\left[\frac{1}{\alpha}\left(\frac{\delta_0}{\delta_r} - 1\right)\right]^{1/\beta} - B} \qquad \text{Equation 2.32}$$

$$l_c = y_0 \frac{r_{50}}{2} + \left[\left(y_0 r_{50} \right)^2 - 4mar_{50} \right]^{1/2}; if \ \frac{a}{l_c} < 0.2, l_c = \left(y_o - 0.2m \right) r_{50}$$

Equation 2.33

$$\left(\frac{S_0}{S} \right) = 1 - \overline{m} \left(\frac{a}{l_c} - 0.2 \right); \ if \ \frac{a}{l_c} < 0.2, \left(\frac{S_o}{S} \right) = 1.0$$

Equation 2.34

Where, E_S = Subgrade modulus under FWD load (psi)

υ_0 = Poisson's ratio for subgrade material

S_0 = theoretical point load stiffness (psi)

S = pavement stiffness (psi) = P/ δ_0

P = applied FWD load (lbs)

δ_0 = deflection at center of the load (in)

δ_r = deflection at a distance r from the center of the load (in)

r = distance from the center of the load (in)

r_{50} = offset distance (in) where, $\frac{\delta_0}{\delta_r} \cong 0.5$

l_c = characteristic length (in)

h = thickness of subgrade above apparent hard layer (in)

I = influence factor

α, β, B = curve-fitting coefficients

y_0, m = characteristic length coefficient

$\bar{m}$ = stiffness ratio coefficient

Step 2: Estimation of the modulus of the surface layer

For both flexible and rigid pavement, the modulus of the surface layer is estimated from the composite modulus of the entire pavement and the AREA factor.

The composite modulus of the entire pavement is given by:

$$E_0 = (1.5 * a * \sigma_0) / \delta_0 \qquad \text{Equation 2.35}$$

Where, E_0 = composite modulus of the entire pavement system

a = radius of the load plate

σ_0 = pressure due to the impact load

δ_0 = deflection measured at the center of the load

Rigid Pavements - For rigid pavements, the area of the deflection basin of the first 6 sensors, denoted by $AREA_{36}$, is used to determine the AREA factor. The following equations could be used to estimate the modulus of the concrete slab.

$$AREA_{36} = 6\left[1 + 2\left(\frac{\delta_{12}}{\delta_0}\right) + 2\left(\frac{\delta_{24}}{\delta_0}\right) + \left(\frac{\delta_{36}}{\delta_0}\right)\right] \qquad \text{Equation 2.36}$$

$$\mathrm{AF_{pcc}} = \left[\frac{(\mathrm{k_2}\text{-}1)}{\left\{\mathrm{k_2}\text{-}\left(\frac{AREA_{36}}{\mathrm{k_1}}\right)\right\}}\right]^{1.79} \qquad \text{Equation 2.37}$$

$$\mathrm{E_{pcc}} = \frac{\left[(\mathrm{E_o})(\mathrm{AF_{pcc}})(\mathrm{k_3})^{\left(\frac{1}{\mathrm{AF_{pcc}}}\right)}\right]}{\mathrm{k_3}^{2.38}} \qquad \text{Equation 2.38}$$

Where, $AREA_{36}$ = AREA beneath first 36 in of deflection basin (in)

δ_0 = deflection measured at the center of load (in)

δ_{12} = deflection measured at 1ft from the center of load (in)

δ_{24} = deflection measured at 2ft from the center of load (in)

δ_{36} = deflection measured at 3ft from the center of load (in)

AF_{pcc} = AREA factor for PCC layer

k_1 = 11.04

k_2 = 3.262

E_{pcc} = modulus of the PCC layer (psi)

E_o = composite modulus (psi)

k_3 = thickness ratio of surface layer (h_1) to plate diameter = $h_1/(2*a)$

a = plate radius

Flexible Pavements - For flexible pavements, which generally have a steeper deflection basin compared to the rigid pavements, area of the deflection basin under the first 3 sensors, denoted by $AREA_{12}$, is used to calculate the AREA Factor. The following equations could be used to estimate the modulus of the HMA layer:

$$AREA_{12} = 2\left[2 + 3\left(\frac{\delta_8}{\delta_0}\right) + \left(\frac{\delta_{12}}{\delta_0}\right)\right] \qquad \text{Equation 2.39}$$

$$AF_{ac} = \left[\frac{(k_2 - 1)}{\left\{k_2 - \left(\frac{AREA_{12}}{k_1}\right)\right\}}\right]^{1.35}$$ Equation 2.40

$$E_{ac} = \frac{\left[(E_o)(AF_{pcc})(k_3)^{\left(\frac{1}{AF_{ac}}\right)}\right]}{k_3^2}$$ Equation 2.41

Where, $AREA_{12}$ = AREA beneath first 12 inches of deflection basin (in)

δ_0 = deflection measured at the center of load (in)

δ_8 = deflection measured 8 in from center of load (in)

δ_{12} = deflection measured at 1ft from center of load (in)

AF_{ac} = AREA factor for AC modulus

$k_1 = 6.85$

$k_2 = 1.752$

E_{pcc} = modulus of the PCC layer (psi)

E_{ac} = modulus of the AC layer (psi)

E_o = composite modulus (psi)

k_3 = thickness ratio of surface layer (h_1) to load – plate diameter = $h_1/(2*a)$

a = plate radius

Step 3: Modulus of the base layer

In order to determine the modulus of an intermediate layer, such as base layer, one must assume

that the modulus of the subgrade and that of the surface layer (the PCC slab or the asphalt layer) determined from the earlier steps to be correct. The base layer modulus is then estimated using the relationships developed by (Khazanovich et al 2001), which are based on estimating the PCC and base layer moduli from the composite PCC modulus using the modular ratio (see Equation 2.26) or the Dorman and Metcalf method (Stubstad et al 2006), where the modulus of the base layer is estimated as a function of the thickness of the base layer and the modulus of the subgrade.

Pavement layer moduli estimated using forward calculation produced a relatively less scatter than that from the backcalculation techniques (Stubstad et al 2006).The advantage of forward calculation is that the modulus of subgrade and the surface layers are determined independently and have a unique solution for each deflection basin. However, in determining the base layer modulus, which is dependent on the modulus of the surface layer and that of the subgrade, errors in the two modulus values may cause significant error in the base modulus. Hence, this approach suffers the same drawback as the backcalculation.

2.7 COMPARISON OF LABORATORY AND BACKCALCULATED GRANULAR LAYER MODULI

Several researchers have studied the relationship between the backcalculated and the laboratory measured modulus values of the base layers. For example, the laboratory measured granular base layer moduli in the states of Washington and Nevada were found to be greater than the backcalculated moduli by an average of 28% (Newcomb et al 1989). The deflections measured by the FWD were not sensitive to the presence of a granular layer unless its thickness was 1.5 times the thickness of the surface layer. Seasonal variations in deflections showed more impact on the granular bases than on the subgrade layer. On the contrary, in a study conducted on the

instrumented test sections in Texas, the laboratory measured modulus values of the granular layer were found to be consistently lower than the backcalculated values (Akram et al 1994). Since the stress conditions of the base layer vary from top to bottom; the laboratory modulus was computed at various stress levels. For the lower half of the base layer, the backcalculated and the laboratory measured modulus values of the granular layer were found to be in good agreement. Further, (seeds et al 2000) reported that the backcalculated granular layer modulus values were at least two to three times higher than the laboratory obtained values. They concluded that the backcalculated layer modulus values are reasonable, while the laboratory ones are low. (Nazarian et al 1998) reported that a unique relationship between the laboratory and the backcalculated modulus values could not be established from tests conducted on the pavement sections across Texas. The ratio between the two values varied from 40 to 90 percent. They added that aggregate samples obtained from the pavement sections and virgin samples from the same quarry did not exhibit the same properties (Nazarian et al 1998). Finally, (Zhou 2000) reported that the differences between the backcalculated and the laboratory obtained modulus values were negligible for granular materials under the flexible pavement sections tested in Oregon. The backcalculated modulus values showed stress dependency similar to that observed in the laboratory. That is the modulus value increases as the bulk stress increases.

Finally, the resilient modulus of the granular layer is found to be sensitive to the type of aggregates and not much sensitive to their gradation and moisture content (Heydinger 1996). Natural gravel was found to have higher modulus than that of limestone and slag. Even though the modulus value was found to be insensitive to the gradation type, the open graded limestone had higher modulus values than the dense graded ones.

Table 2.9 Backcalculation programs (Dawson 2008)

Program name	Develop By	Forward calculation method	Forward calculation subroutine	Backcalculation subroutine	Non-linear analysis	Seed modulus	Comments
BISDEF	A. Bush USACE-WES	Multi-Layer elastic theory	BISAR	ITERATIVE	Non-linear analysis	Required	Sensitive to seed modulus. Uses gradient search method
BOUSEDEF	Zhou, et al.	Equivalent layer thickness	MET	ITERATIVE	Yes	Required	Program logic similar to BISDEF
CHEVDEF	A. Bush USACE-WES	Multi-Layer elastic theory	CHEVRON	ITERATIVE	Non-linear analysis	Required	Sensitive to seed modulus.
COMDEF	M Anderson	Multi-Layer elastic theory	DELTA	DATA BASE	Non-linear analysis	Required	For composite pavements only.
DBCONPAS	M. Tia, et al.	Finite element	FEACONSIII	DATA BASE	Yes		For rigid pavements only.
ELMOD	P. Ulditz	Equivalent layer thickness	MET	ITERATIVE	Yes roadbed only	Not required	Fast, but has limitation inherent to MET program
ELSDEF	Texas A&M University	Multi-Layer elastic theory	ELSYM5	ITERATIVE	No	Required	Sensitive to seed modulus.
EMOD		Multi-Layer elastic theory	CHEVRON	ITERATIVE	Yes roadbed only	Required	

Table 2.9 (cont'd)

Program name	Develop By	Forward calculation method	Forward calculation subroutine	Backcalculation subroutine	Non-linear analysis	Seed modulus	Comments
EVERCALC	Mahoney, J., et al.	Multi-Layer elastic theory	CHEVRON	ITERATIVE	Yes	Not required for up to 3 layers	Primarily for flexible pavements.
FPEDDI	W. Uddin	Multi-Layer elastic theory	BASNIF	ITERATIVE	Yes	Not required	
ISSEM4	P. Ulidtz	Multi-Layer elastic theory	ELSYM5	ITERATIVE	Yes	Required	Uses deflections at five point to calculate moduli for three layers.
MICHBACK	Michigan State University	Multi-Layer elastic theory	CHEVRON	ITERATIVE	No	Required	
MODOMP2	L. Irvin	Multi-Layer elastic theory	CHEVRON	ITERATIVE	Yes	Required	More oriented for research work.
MODULUS	J. Uzan	Multi-Layer elastic theory	WESLEA	DATA BASE	Yes	Required	Used in an expert system frame work.
PADAL	S. F. Brown	Finite element		ITERATIVE	Yes	Required	
RPEDDI	W. Uddin	Multi-Layer elastic theory	BASINR	ITERATIVE	Yes	Not required	For rigid pavements only.

CHAPTER 3

LABORATORY AND FIELD INVESTIGATION

3.1 INTRODUCTION

The laboratory and field investigations consisted of the following steps:

- Partitioning the State of Michigan to various clusters and areas according to the type of the roadbed soils. This step was accomplished during a previous study to determine the values of the resilient modulus and the modulus of subgrade reaction of the roadbed soils.
- Conducting new FWD tests at specific locations where deflection data were not available in the MDOT files.
- Obtaining all existing and available deflection data files from MDOT.
- Conducting laboratory cyclic load triaxial tests of granular layers at various moisture contents, gradation and compaction. All tests were conducted at Michigan Technological University (MTU) and the test results were used in this study to compare the backcalculated and the laboratory measured modulus values.

3.2 PARTITIONING THE STATE OF MICHIGAN

During a previous study sponsored by MDOT, the State of Michigan was partitioned into fifteen clusters and ninety nine areas based on the types of roadbed soils and their engineering and physical characteristics. Details of the clusters and areas can be found in (Sessions 2008).

3.3 LABORATORY TEST

During the pavement design process, the required unbound material input parameters for the 1993 AASHTO empirical design method are the resilient modulus values and the corresponding layer coefficients. Whereas, the required unbound material input parameters for the M-E PDG

are the resilient modulus and Poisson's ratio. The latter two parameters are used in the pavement response model to quantify the stress dependent stiffness of the materials (including the roadbed soils and shallow bedrock) under moving wheel loads. The resilient modulus is defined as the ratio of the repeated deviatoric stress (the difference between the axial and the radial stresses) to the recoverable axial strain as stated in Equation 3.1 and illustrated in Figure 3.1. In the laboratory, the resilient modulus is typically obtained using triaxial cell and a hydraulic system to generate the cyclic load.

$$MR = \frac{\sigma_1 - \sigma_3}{\varepsilon_R} = \frac{\sigma_d}{\varepsilon_R} \qquad \text{Equation 3.1}$$

Where, MR = resilient modulus (psi)

σ_d = deviator stress (psi)

σ_1 = axial normal stress (psi)

σ_3 = confining pressure (lateral stress), (psi)

ε_R = recoverable axial strain (inch/inch)

In general, unbound materials display stress-dependent behavior, the value of the resilient modulus is dependent on the magnitude of the applied axial and lateral stresses. However, at low stress levels, the resilient modulus of the unbound materials is almost constant.

Due to budget constraints, cyclic load triaxial tests were not conducted as a part of this research study. However, for comparison purposes, results of laboratory cyclic load triaxial tests that were conducted by MTU on four granular materials used in the pavement construction in Michigan were obtained and used. The four unbound granular materials are crushed concrete, natural gravel, slag, and dolomite. For each material, three different grades were used by MTU,

4G-lower bound, 4G-upper bound, and 4G-maximum density. All samples were tested at four different moisture conditions, as compacted, drying curve, wetting curve, and fully saturated. Table 3.1 presents a summary of the cyclic load triaxial tests that were conducted by MTU.

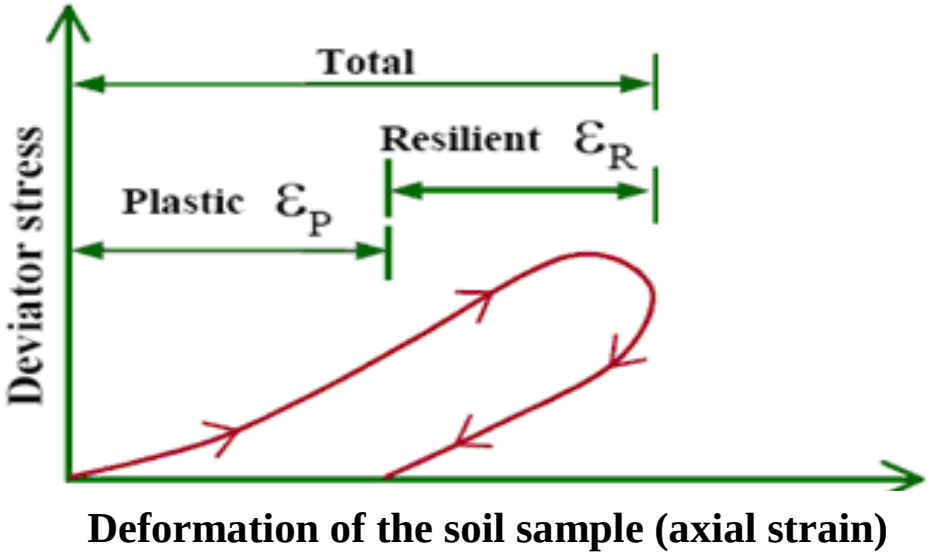

Figure 3.1 Stress-deformation loop (hysteresis loop) showing the deviatoric stress, and the resilient and plastic strains

Table 3.1 Summary of tests conducted by MTU (Mayrberger et al, 2007)

		Natural Gravel	Dolomite	Slag	Crushed Stone
Lower Bound Gradation	As Compacted MC	X	X	X	X
	Wetting Curve MC	X	X	X	X
	Drying Curve MC	X	X	X	X
	Fully Saturated	X	X	X	X
Upper Bound Gradation	As Compacted MC	X	X	X	X
	Wetting Curve MC	X	X	X	X
	Drying Curve MC	X	X	X	X
	Fully Saturated	X	X	X	X
Maximum Density Gradation	As Compacted MC	X	X	X	X
	Wetting Curve MC	X	X	X	X
	Drying Curve MC	X	X	X	X
	Fully Saturated	X	X	X	X

A summary of the MTU results and findings are included in chapter 2 (literature review). The detailed report can be found at (Mayrberger et al 2007). The resilient modulus values obtained from the laboratory cyclic load tri-axial tests were compared to those obtained through the backcalculation of the FWD data. Results of the comparison are presented in Chapter 4 of this thesis.

3.4 FIELD FWD TESTS

The required input parameters to the M-E PDG include the resilient modulus of the unbound granular layers. Cyclic load triaxial tests could be conducted in the laboratory to determine the resilient modulus of the unbound materials under different stress state and moisture contents. Such tests are laborious, time consuming, and expensive. The alternative is to conduct nondestructive deflection tests (NDTs), measure the pavement surface deflections due to a given load level and use the deflection data to backcalculate the pavement layer moduli. NDTs and backcalculation of layer moduli procedures are quicker, require less time and cheaper. In addition, the NDTs are conducted under in-situ condition and could cover the entire pavement network. Nevertheless, the M-E PDG accepts the laboratory determined and the backcalculated modulus as inputs for design level 1. In this study, all NDTs were conducted by MDOT using a KUAB FWD. In each test, 9000 pound load was delivered to the pavement surface and the resulting pavement surface deflections were measured at radial distances of 0, 8, 12, 18, 24, 36, and 60 inches from the center of the load. For rigid pavements, the FWD tests are generally conducted at mid slabs. However, in order to reduce the cost of traffic control and minimize traffic disruption, some NDTs were conducted on the pavement shoulder where the shoulder had the same cross section as that of the pavement.

Nevertheless, over the last 20 years period MDOT has been conducting NDTs along the entire

pavement network. The tests were conducted on all roadways types (Interstate (I), United States (US), and Michigan (M)). Hence, when requested the NDT data files, five hundred and five FWD data files (each file references the locations of various NDTs along one road segment) were received from MDOT. All files were examined and separated into two pools. One pool includes all FWD data files where the date of the test or the test location reference is missing or data regarding the pavement type and cross-section at the time of the FWD tests were not found in the MDOT project files. This pool was eliminated from any further analyses. The second pool of FWD data files consists of the remaining one hundred and one FWD data files containing six thousand two hundred and forty six FWD tests. This pool of data files was included in the analysis. In addition, the research team requested from MDOT to conduct additional FWD tests to populate certain regions along the roadways where the number of available FWD tests was low. Data from the new FWD tests were also included in this pool of FWD data files. The locations of these new FWD tests are listed in (Dawson 2008) and are shown in Figure 3.6.

In the next step, results of each FWD test were checked visually and the shape of the deflection basin was examined. Test data where the shape of the deflection basin was irregular were eliminated from further considerations. Examples of regular and irregular deflection basins are presented in Figures 3.2 and 3.3. After eliminating the irregular deflection basins, seven thousand three hundred and sixty eight deflection basins were used in this study to backcalculate the pavement layer moduli. The files are spread across the entire pavement network of Michigan covering all types of pavement (flexible and rigid) and the roadways (Interstate (I), United States (US), and Michigan (M)). The number of files and tests for each roadway and the region for both rigid and flexible pavements are listed in Tables 3.2 and 3.3. It should be noted that the term "files" refers to a pavement section where various FWD tests were conducted, whereas the term

"test" refers to one FWD test. Each FWD test consists of four drops, the first drop is used for pavement seating (no data are collected), the data from the other three drops are collected, averaged and used in the backcalculation.

In addition to the pavement cross-section data, the type and gradation of the aggregates used in the unbound granular layer are provided by MDOT. The aggregate types include natural gravel, dolomite, and crushed concrete and are both open and dense graded. Figures 3.4 and 3.5 show the distribution of the aggregate types number of FWD tests, for each aggregate type, conducted on both flexible and rigid pavements. Note that pavement sections containing a layer of crushed asphalt and granular layer made up of natural gravel are labeled crushed asphalt – natural gravel and crushed asphalt – aggregate base for sections where the aggregate type is not known.

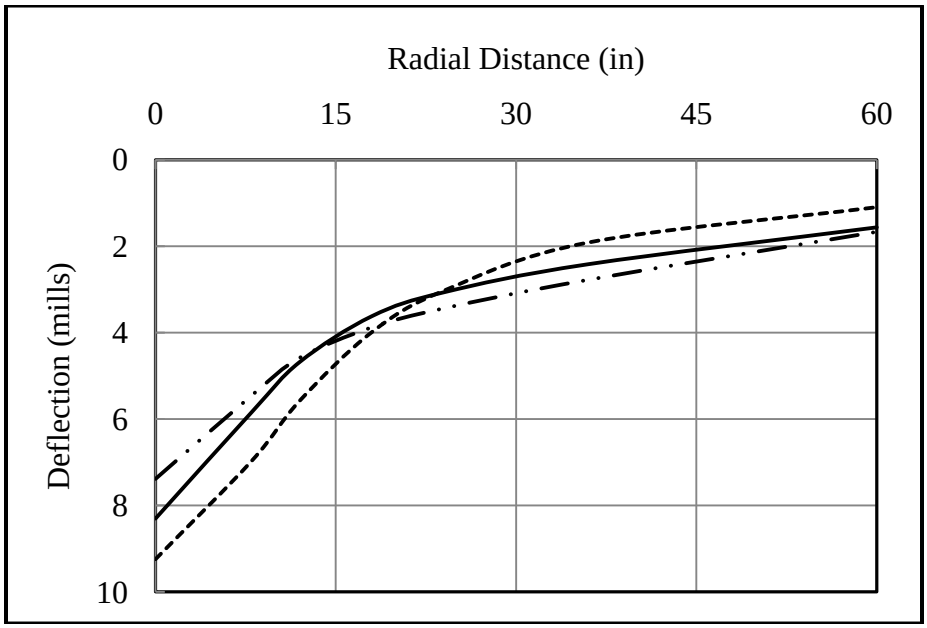

Figure 3.2 Examples of regular deflection basins

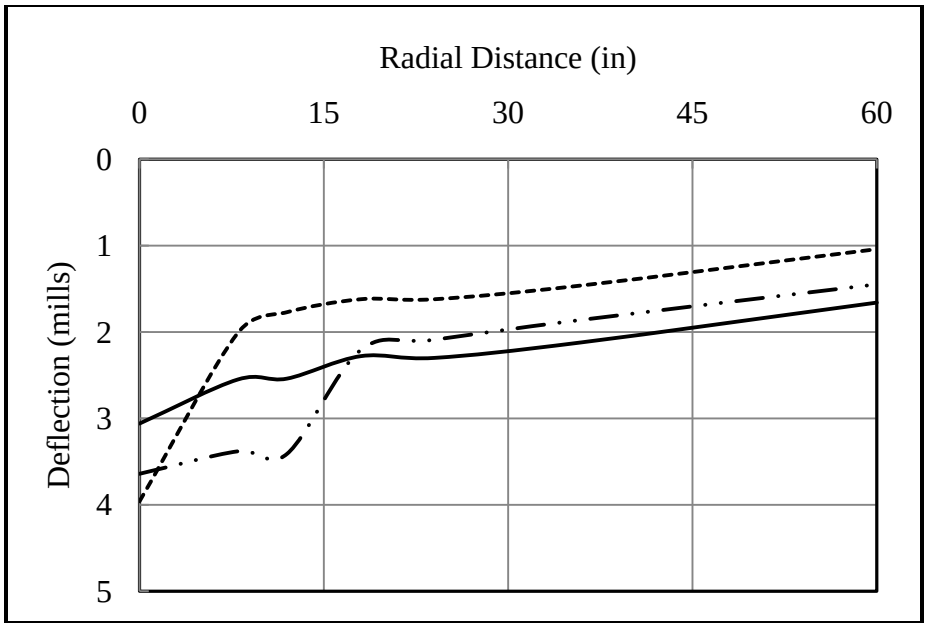

Figure 3.3 Examples of irregular deflection basins

The deflection data from these FWD files and test was used to determine the following:

- Backcalculate the moduli of the unbound granular layers
- Variation of the unbound granular layer moduli across the state
- Study the effect of the material used on the unbound granular layer moduli

The results of these analyses are presented and discussed in chapter 4.

Table 3.2: Number of files and tests conducted on the rigid pavement

Region	Road Designation	Files	No. of. Tests
Bay	I-675	4	259
	I-75	4	159
	US-127	2	45
	US-23	8	290
	I-475	2	125
	US-10	1	5
	Total	21	883
Grand	US - 131	2	31
	I-96	1	21
	M-6	4	1534
	US-27	1	37
	Total	8	1623
Metro	I-69	2	54
	I-75	1	5
	I-94	8	589
	M-5	1	69
	Total	12	717
North	I-75	6	354
Southwest	I-196	1	33
	I-69	4	115
	I-94	3	162
	US-31	5	162
	Total	13	472
Superior	I-75	5	189
	M-28	3	143
	Total	8	332
University	I-69	3	125
	I-75	2	78
	US-23	1	79
	Total	6	282

Table 3.3: Number of files and tests conducted on the flexible pavement

Region	Road Designation	Files	No. of. Tests
Bay	M-57	5	400
	M-88	6	188
	Total	11	588
Grand	M-120	2	148
	M-20	1	68
	M-37	1	40
	M-57	6	404
	US-131	7	434
	Total	17	1094
Metro	I-94	1	29
	M-53	6	75
	Total	7	104
North	I-75	6	573
	M-55	1	76
	US-131	1	93
	US-23	4	44
	Total	12	786
Superior	I-75	1	11
	M-28	2	21
	M-38	1	11
	US-141	1	13
	US-2	2	22
	US-41	1	11
	Total	8	89
University	M-52	1	44

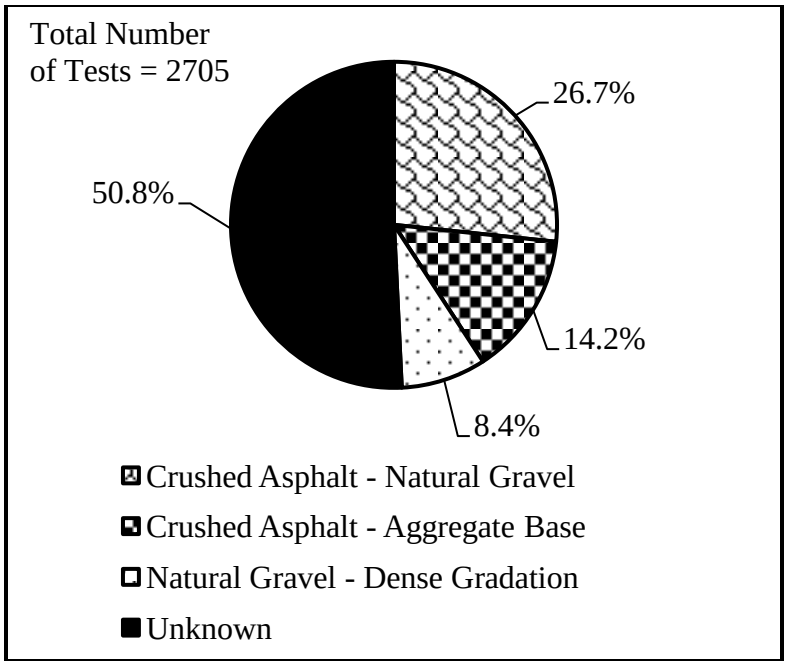

Figure 3.4 Distribution of base types in flexible pavements where FWD tests were conducted

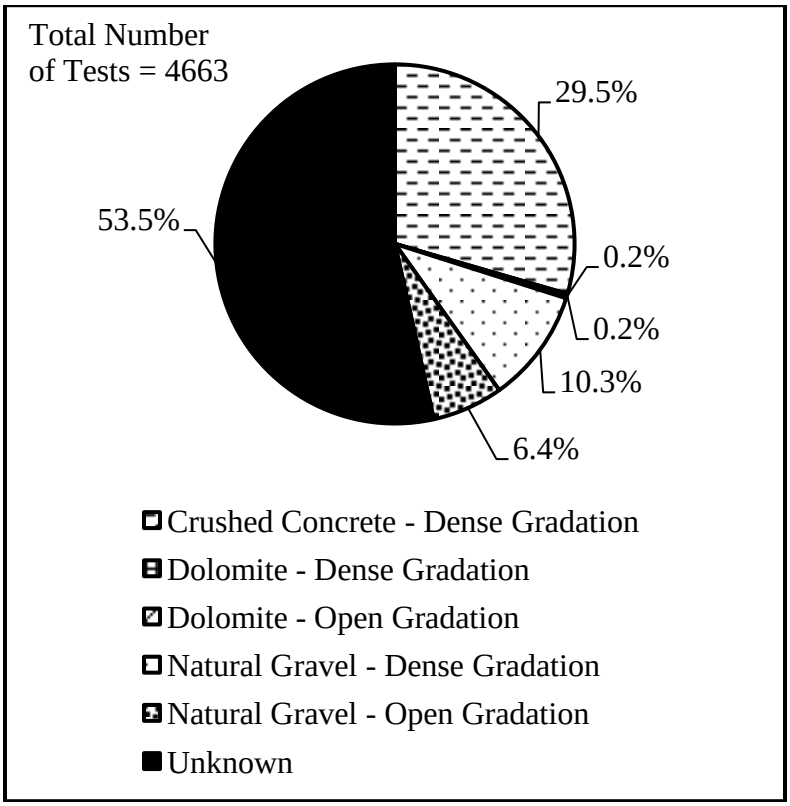

Figure 3.5 Distribution of base types in rigid pavements where FWD tests were conducted

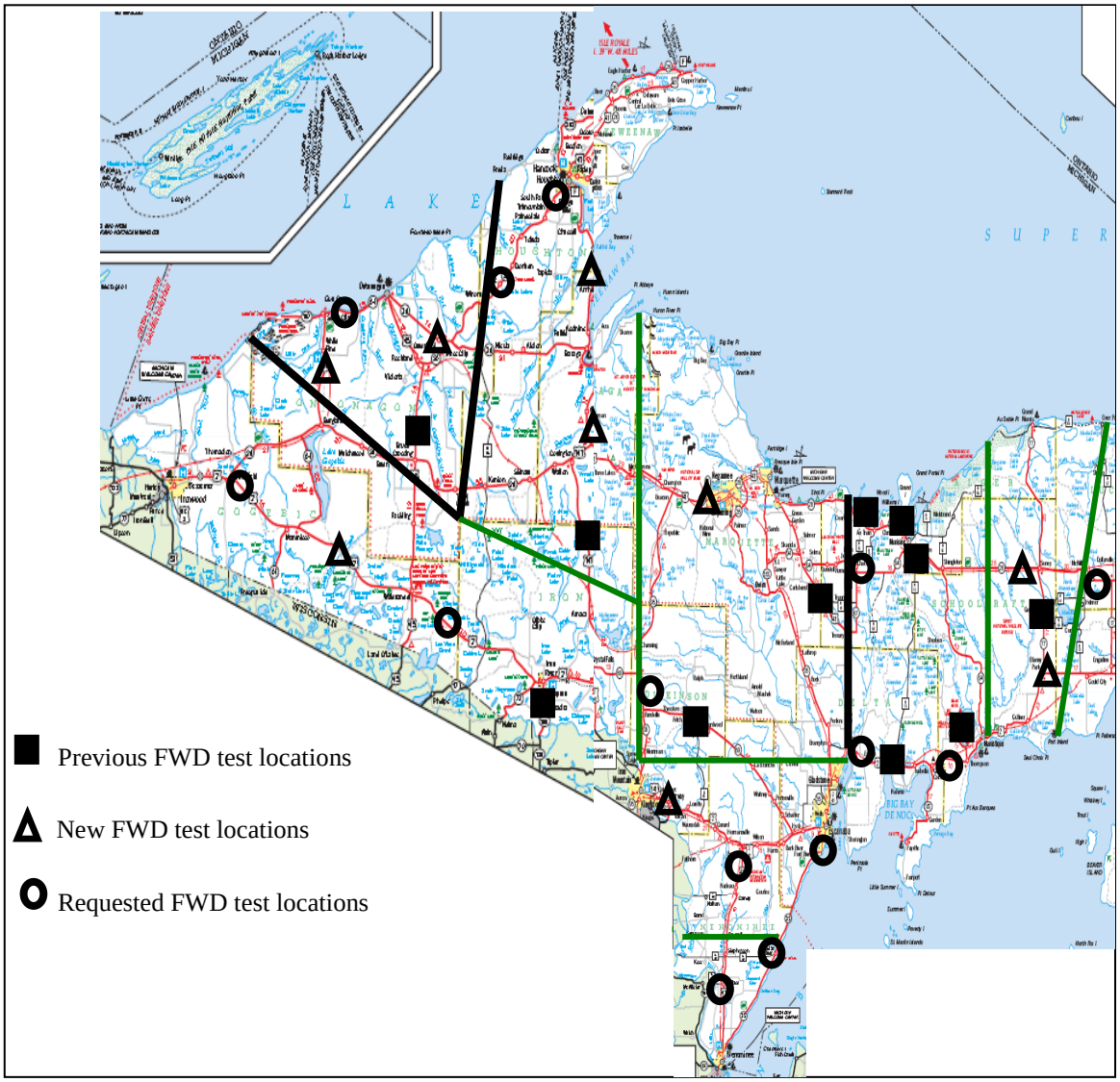

Figure 3.6 FWD test locations in the State of Michigan

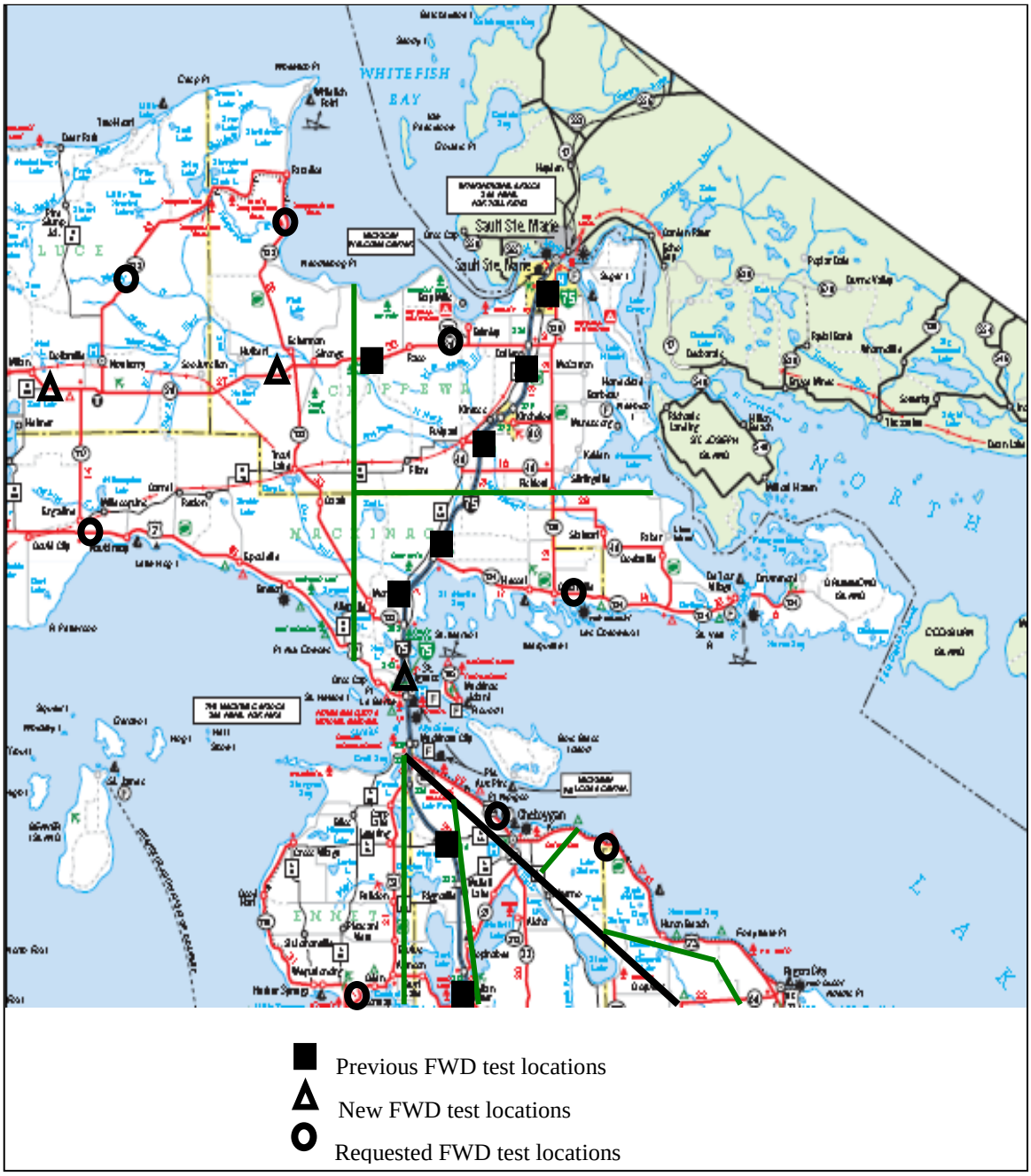

Figure 3.6 (cont'd)

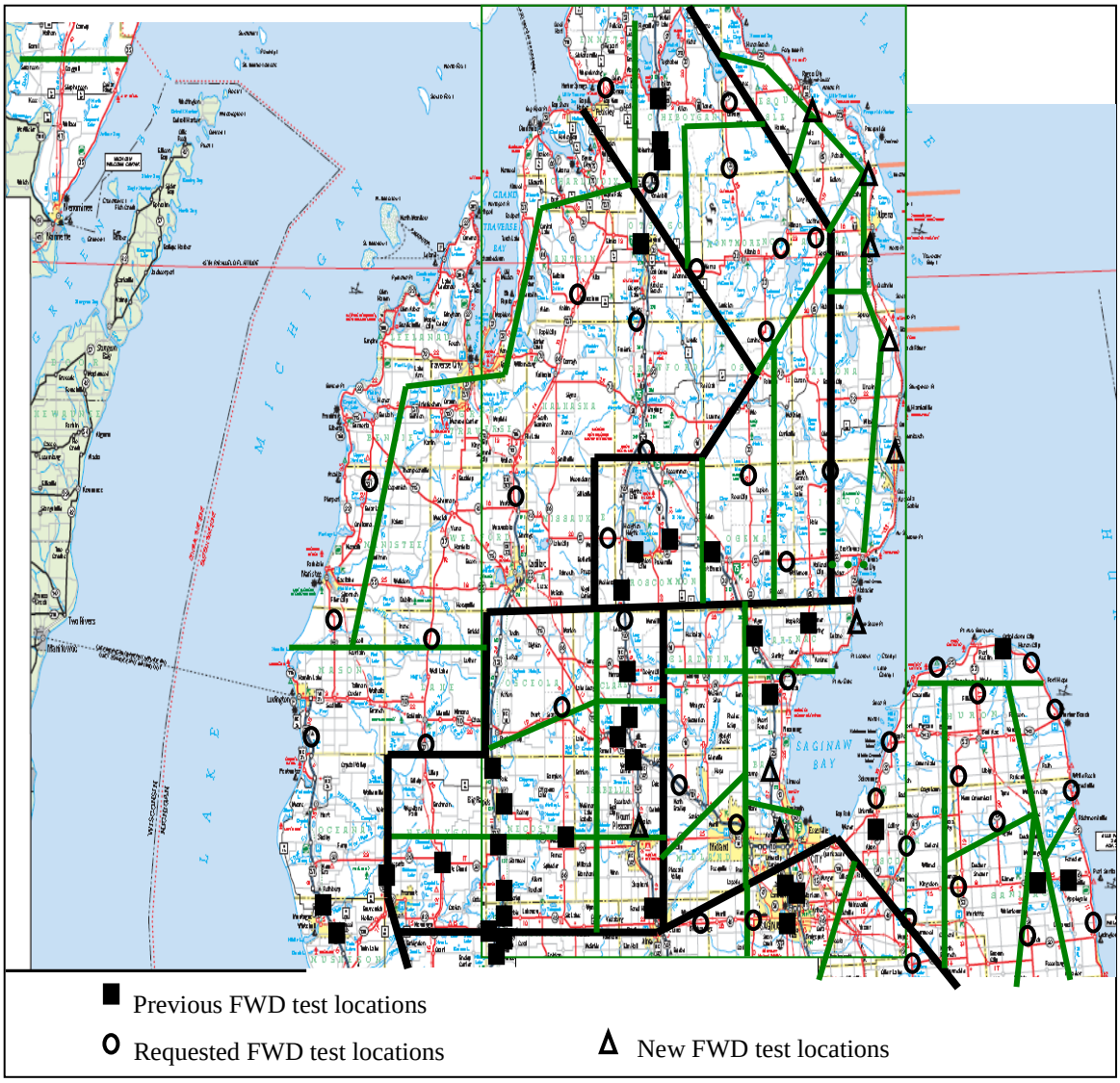

Figure 3.6 (cont'd)

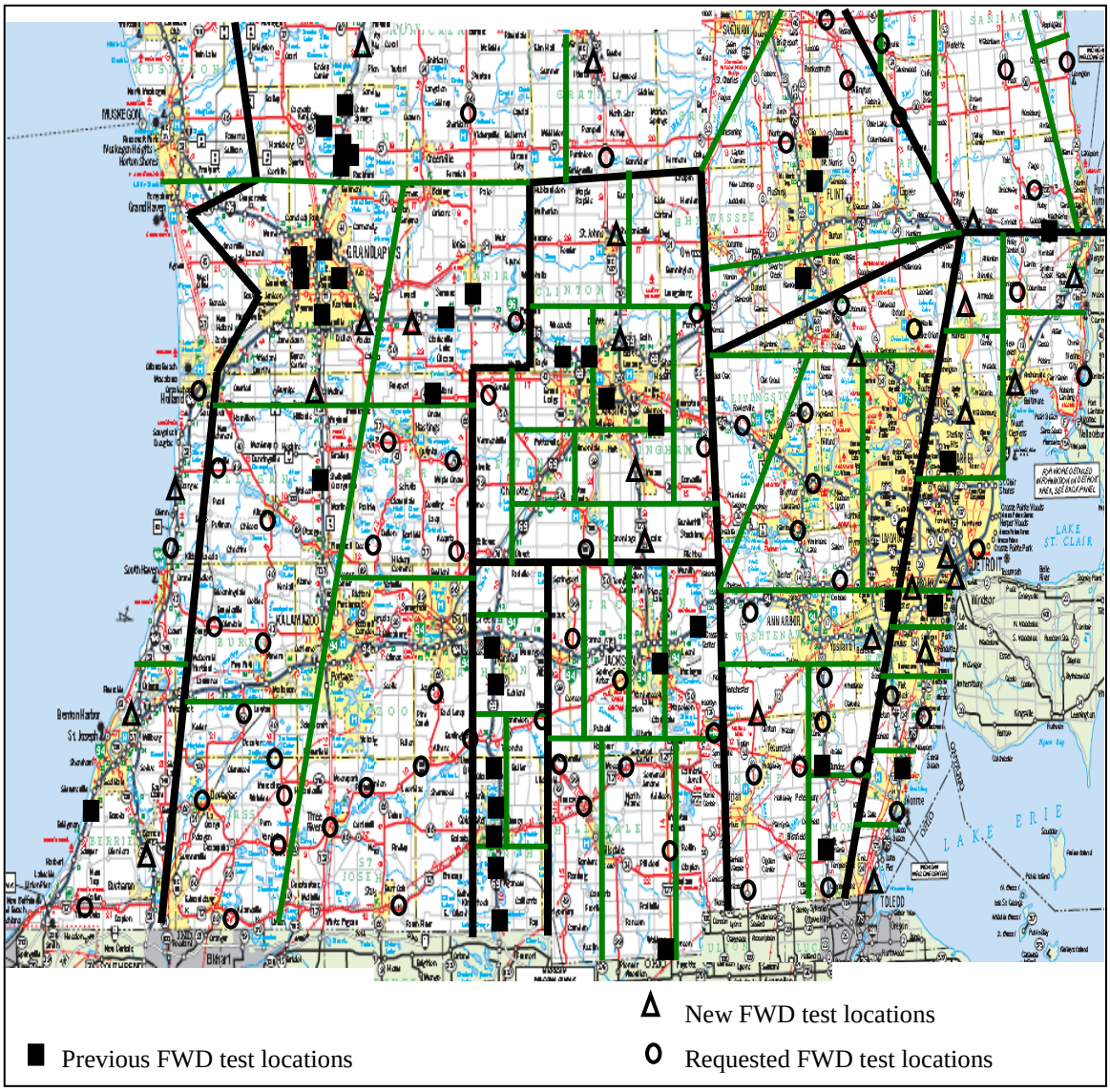

Figure 3.6 (cont'd)

CHAPTER 4

DATA ANALYSIS

4.1 INTRODUCTION

Deflection data obtained from the Michigan Department of Transportation (MDOT) falling weight deflectometer (FWD) files were used to backcalculate the resilient moduli of the unbound granular layer supporting both flexible and rigid pavements. Data obtained from FWD tests conducted on rigid pavements were used in the backcalculation procedure assuming a two layer pavement system (Portland cement concrete (PCC) and granular layer). On the other hand, data obtained from FWD tests conducted on flexible pavements were used in the backcalculation procedure assuming both two and three layer systems (asphalt concrete and granular layers and roadbed soils or asphalt concrete, base, and subbase layers and roadbed soils).

The backcalculated resilient modulus values of the pavement layers were then divided into three groups; two groups for flexible and one for rigid pavements as stated below.

- Group 1 - The backcalculated resilient modulus values for flexible pavements that were obtained using two layered system (the moduli of the asphalt and granular layers and the roadbed soils).
- Group 2 - The backcalculated resilient modulus values for flexible pavements that were obtained using three layered system (the moduli of the asphalt, aggregate base, and sand subbase layers and the roadbed soils).
- Group 3 - The backcalculated resilient modulus values for rigid pavements that were obtained using two layered system (the moduli of the concrete slab, the granular layer, and the roadbed soils).

For each of the three groups of resilient modulus values, the data were classified according to the

following four cases for analysis:

- Case 1 - All backcalculated resilient modulus values.
- Case 2 - All backcalculated resilient modulus values except the upper and lower ten percent, which were considered outliers.
- Case 3 - All backcalculated resilient modulus values except the upper and lower twenty percent, which were considered outliers.
- Case 4 - All backcalculated resilient modulus values less than the 75^{th} percentile.

For each of the three groups of data and for each of the four cases, the data were divided into different categories based on three variables; pavement type, aggregate type and aggregate gradation. To statistically assess the impact of each variable on the backcalculated resilient modulus values, t-tests at the 95% confidence interval were conducted on the means of all data categories. The results are presented and discussed in this chapter.

Finally, the relationships between the resilient modulus values that were determined in the laboratories of Michigan Technological University (MTU) and the backcalculated resilient modulus values of several aggregate and gradation types were investigated. The results are also presented and discussed in this chapter.

4.2 DEFLECTION DATA

As stated in Chapter 3, five hundred and five FWD data files were obtained from MDOT. Each file contained the results (the deflection data) of many tests that were conducted along a particular pavement section over the last 20 years period. Upon receiving the files, they were examined and separated into two pools. One pool (pool1) includes all FWD data files where the date of the test or the test location reference is missing or data regarding the pavement type and cross-section at the time of the FWD tests were not found in the MDOT project files. This pool

was eliminated from any further analyses. The second pool (pool 2) of FWD data files consists of the remaining one hundred and one (101) FWD data files containing six thousand two hundred and forty six (6246) FWD tests. This pool of data files was included in the analysis. In addition, the research team requested MDOT to conduct additional FWD tests to populate certain regions along the roadways where the number of available FWD tests was low. Data from the new FWD tests were also included in this pool (pool2) of FWD data files. The locations of these new FWD tests are listed in Dawson (Dawson 2008) and are shown in Figure 3.7 of Chapter 3. The deflection data in all FWD tests of pool2 were plotted against the radial distance from the center of the load. The resulting deflection basins were examined. The FWD test files where the deflection basins were irregular were also eliminated from further analyses. Summary of the tests used in the analyses is presented in Table 4.1. Table 4.2 shows a summary of the FWD test reference location, the MDOT Region, the road designation, the control section and job number, the pavement layer thicknesses, the aggregate type and gradation, and the roadbed soil type for tests conducted on rigid pavement. A similar summary for the FWD tests on flexible pavements is presented in Table 4.3.

Table 4.1 Distribution of FWD files and tests

MDOT region	Rigid pavement		Flexible pavement		Total	
	FWD Files	FWD Tests	FWD Files	FWD Tests	FWD Files	FWD Tests
Bay	21	883	11	588	32	1471
Grand	8	1623	17	1094	25	2717
Metro	12	717	7	104	19	821
North	6	354	12	786	18	1140
Southwest	13	472	0	0	13	472
Superior	8	332	8	89	16	421
University	6	282	1	44	7	326
Total	74	4663	56	2705	130	7368

Table 4.2 A summary of the FWD files for rigid pavement

FWD File Details				Material			Pavement Layer Thickness (in)		No. of. Tests
Region	Road	Control Section	File Name	Road-bed	Granular Layer		PCC Slab	Granular	
					Material	Gradation			
Bay	I-675	73101	rigid-B-I675-CS73101-10-24-2003	SC	NA	NA	9	20	72
Bay	I-675	73101	rigid-B-I675-CS73101-05-26-2004	SC	NA	NA	9	20	49
Bay	I-675	73101	rigid-B-I675-CS73101-10-14-2004	SC	NA	NA	9	20	75
Bay	I-675	73101	rigid-B-I675-CS73101-12-05-2005	SC	NA	NA	9	20	63
Bay	I-75	73101	rigid-BI75-CS73101-08-15-2001	SC	NA	NA	9	20	47
Bay	I-75	73101	rigid-BI75-CS73101-11-30-1999	SC	NA	NA	9	20	19
Bay	I-75	6111	rigid-B-I75-CS6111-09-13-2001	SC-SM	NA	NA	9	20	57
Bay	US-10	9101	rigid-B-US10-CS9101-12-18-2007	SC	NA	NA	7.3	35.4	5
Bay	US-127	29011	rigid-B-US127-CS29011-06-27-2008	SC	NA	NA	9	20	33
Bay	US-127	37014	rigid-B-US127-CS37014-12-19-2007	SC	NA	NA	8	24.3	12
Bay	US-23	25031	rigid-B-US23-CS25031-08-30-2005	SP2	NA	NA	10	20	19
Bay	US-23	25031	rigid-B-US23-CS25031-08-23-2005	SM	NA	NA	10	20	27
Bay	US-23	25031	rigid-B-US23-CS25031-11-15-2005	SP2	NA	NA	10	20	68
Bay	US-23	25031	rigid-B-US23-CS25031-11-16-2005	SP2	NA	NA	10	20	31
Bay	US-23	25031	rigid-B-US23-CS25031-11-16-2005-(2)	SP2	NA	NA	10	20	48
Bay	US-23	25031	rigid-B-US23-CS25031-10-21-1998	SM	NA	NA	9	20	34
Bay	US-23	25031	rigid-B-US23-CS25031-05-30-2001	SM	NA	NA	9	20	46
Bay	US-23	25031	rigid-B-US23-CS25031-08-23-2005-(2)	SM	NA	NA	9	20	17
Bay	I-475	25132	rigid-B-I475-CS25132-06-26-1997	SM	NA	NA	9	20	60
Bay	I-475	25132	rigid-B-I475-CS25132-06-24-2001	SM	NA	NA	9	20	65

Table 4.2 (Cont'd)

FWD File Details				Material			Pavement Layer Thickness (in)		No. of. Tests
Region	Road	Control Section	File Name	Road-bed	Granular Layer		PCC Slab	Granular	
					Material	Gradation			
Grand	US-131	41131	rigid-G-US131-CS41131-07-11-1996-(2)	SC-SM	Dolomite	Dense	9	24	9
Grand	US-131	59012	rigid-G-US131-CS59012-04-09-1998	SP1	NA	NA	9	24	22
Grand	I-96	34044	rigid-G-I96-CS34044-06-27-2001	SM	Natural Gravel	Dense	9	24	21
Grand	M-6	41064	rigid-G-M6-CS41064-09-15-2004	SC-SM	Crushed Concrete	Dense	10	24	57
Grand	M-6	41064	rigid-G-M6-CS41064-09-29-2004	SC-SM	Crushed Concrete	Dense	10	24	653
Grand	M-6	41064	rigid-G-M6-CS41064-09-08-2004	SC-SM	Crushed Concrete	Dense	10	24	665
Grand	M-6	41064	rigid-G-M6-CS41064-11-15-2001	SC-SM	NA	NA	10	24	159
Grand	US-27	19033	rigid-G-US27-CS19033-06-15-1998	SC-SM	NA	NA	10	24	37
Metro	I-69	77023	rigid-M-I69-CS77023-07-02-1997	CL	Natural Gravel	Open	10	20	18
Metro	I-69	77024	rigid-M-I69-CS77024-04-02-2008	CL	NA	NA	12	16	36
Metro	I-75	82194	rigid-M-I75-CS82194-09-16-2008	SC	NA	NA	12	20	5
Metro	I-94	82021	rigid-M-I94-CS82021-11-19-2006	SP2	NA	NA	10	20	333
Metro	I-94	82022	rigid-M-I94-CS82022-10-06-2005	SC	NA	NA	10	14	35
Metro	I-94	82022	rigid-M-I94-CS82022-10-13-2005	SC	NA	NA	10	14	20
Metro	I-94	82022	rigid-M-I94-CS82022-10-26-2005	SC	NA	NA	10	14	30
Metro	I-94	82022	rigid-M-I94-CS82022-10-31-2005	SC	NA	NA	10	14	36
Metro	I-94	82022	rigid-M-I94-CS82022-09-30-2005	SC	NA	NA	10	14	69

Table 4.2 (Cont'd)

FWD File Details				Material			Pavement Layer Thickness (in)		No. of. Tests
Region	Road	Control Section	File Name	Road-bed	Granular Layer		PCC Slab	Granular	
					Material	Gradation			
Metro	I-94	82022	rigid-M-I94-CS82022-11-01-2005	SC	NA	NA	9	12	43
Metro	I-94	82022	rigid-M-I94-CS82022-09-16-2008	SC	NA	NA	12.5	16	11
Metro	M-5	00000	rigid-M-M5-CS00000-11-29-2006	SC	NA	NA	12	20	69
North	I-75	65041	rigid-N-I75-CS65041-08-30-2001	SP2	Natural Gravel	Dense	9	14	20
North	I-75	65041	rigid-N-I75-CS65041-09-14-2001	SP2	Natural Gravel	Dense	9	14	29
North	I-75	16091	rigid-N-I75-CS16091-09-17-2001	SP1	Natural Gravel	Dense	9	14	68
North	I-75	16092	rigid-N-I75-CS16092-09-18-2001	SP1	Natural Gravel	Dense	9	14	98
North	I-75	16092	rigid-N-I75-CS16092-09-27-2001	SP1	Natural Gravel	Dense	9	14	86
North	I-75	16091	rigid-N-I75-CS16091-10-26-2001	SP1	NA	NA	9	14	53
Southwest	I-196	3033	rigid-So-I196-CS3033-05-14-2008	SP-SM	NA	NA	9	20	33
Southwest	I-69	12034	rigid-So-I69-CS12034-10-08-1998	SC-SM	Natural Gravel	Dense	9	20	7
Southwest	I-69	12034	rigid-So-I69-CS12034-10-09-1998	SC-SM	Natural Gravel	Dense	9	20	7
Southwest	I-69	12034	rigid-So-I69-CS12034-09-11-2001	SC-SM	Natural Gravel	Open	9	20	36
Southwest	I-69	12033	rigid-So-I69-CS12033-12-18-2001	SC-SM	NA	NA	9	20	65

Table 4.2 (Cont'd)

FWD File Details				Material			Pavement Layer Thickness (in)		No. of. Tests
Region	Road	Control Section	File Name	Road-bed	Granular Layer		PCC Slab	Granular	
					Material	Gradation			
Southwest	I-94	11081	rigid-So-I94-CS11081-11-18-2002	SP-SM	NA	NA	9	20	84
Southwest	I-94	11081	rigid-So-I94-CS11081-10-28-2004	SP-SM	NA	NA	9	14	66
Southwest	I-94	11081	rigid-So-I94-CS11081-10-30-2001	SP-SM	NA	NA	9	14	12
Southwest	US-31	11057	rigid-So-US31-CS11057-10-09-2001	SP-SM	Natural Gravel	Open	9	14	28
Southwest	US-31	11057	rigid-So-US31-CS11057-10-30-2001	SP-SM	Natural Gravel	Open	9	14	27
Southwest	US-31	11057	rigid-So-US31-CS11057-06-06-2003	SP-SM	Natural Gravel	Open	9	14	16
Southwest	US-31	11057	rigid-So-US31-CS11057-10-10-2002	SP-SM	Natural Gravel	Open	9	14	58
Southwest	US-31	11057	rigid-So-US31-CS11057-05-14-2008	SP-SM	NA	NA	9	14	33
Superior	I-75	49025	rigid-Su-I75-CS49025-06-13-2000	SC	NA	NA	9	22	63
Superior	I-75	49025	rigid-Su-I75-CS49025-06-02-2000	SC	NA	NA	9	22	40
Superior	I-75	17033	rigid-Su-I75-CS17033-05-31-2000	SP1	NA	NA	9	24	49
Superior	I-75	17034	rigid-Su-I75-CS17034-05-25-2000	SP1	NA	NA	9	48	16
Superior	I-75	17034	rigid-Su-I75-CS17034-05-22-2000	SP1	NA	NA	9	48	21
Superior	M-28	2041	rigid-Su-M28-CS02041-08-23-2001	SP-SM	Natural Gravel	Dense	10	25	21

Table 4.2 (Cont'd)

FWD File Details				Material			Pavement Layer Thickness (in)		No. of. Tests
Region	Road	Control Section	File Name	Road-bed	Granular Layer		PCC Slab	Granular	
					Material	Gradation			
Superior	M-28	2041	rigid-Su-M28-CS02041-08-23-2001-(2)	SP-SM	Natural Gravel	Dense	10	25	42
Superior	M-28	17062	rigid-Su-M28-CS17062-05-08-2001	SP1	NA	NA	8	24	80
University	I-69	19042	rigid-U-I69-CS19042-09-18-1999	SC	Dolomite	Open	9	14	10
University	I-69	19043	rigid-U-I69-CS19043-06-25-2001	SC	Natural Gravel	Open	9	14	17
University	I-69	19043	rigid-U-I69-CS19043-05-14-2002	SC	Natural Gravel	Open	9	14	98
University	I-75	58151	rigid-U-I75-CS58151-03-31-2008	SC	NA	NA	10	0	57
University	I-75	58152	rigid-U-I75-CS58152-10-06-2006	SC	NA	NA	10	20	21
University	US-23	58034	rigid-U-US23-CS58034-09-14-2006	SP-SM	Natural Gravel	Dense	10	15	79

Table 4.3 A summary of the FWD files for flexible pavement

FWD File Details				Material Types			Pavement Layer Thickness (in)			No. of. Tests
				Road-bed	Granular Layer					
Region	Road	Control Section	File Name		Material	Gradation	AC	Base	Sub-base	
Bay	M-57	29022	flex-B-M57-CS29022-01-28-1993	SC	CA-NG	NA	5.5	7	18	134
Bay	M-57	29022	flex-B-M57-CS29022-08-30-1994	SC	CA-NG	NA	5.5	7	18	66
Bay	M-57	29022	flex-B-M57-CS29022-08-30-1994-(2)	SC	CA-NG	NA	5.5	7	18	66
Bay	M-57	29022	flex-B-M57-CS29022-08-30-1994-(3)	SC	CA-NG	NA	5.5	7	18	67
Bay	M-57	29022	flex-B-M57-CS29022-08-30-1994-(4)	SC	CA-NG	NA	5.5	7	18	67
Bay	M-84	9011	flex-B-M84-CS9011-05-17-2005	SC	NA	NA	4.0	7	18	39
Bay	M-84	9011	flex-B-M84-CS9011-05-17-2005-(2)	SC	NA	NA	4.0	7	18	69
Bay	M-84	9011	flex-B-M84-CS9011-09-11-2005	SC	NA	NA	4.0	7	18	32
Bay	M-84	9011	flex-B-M84-CS9011-09-13-2005-(2)	SC	NA	NA	4.0	7	18	16
Bay	M-84	9011	flex-B-M84-CS9011-10-03-2005	SC	NA	NA	4.0	7	18	16
Bay	M-84	9011	flex-B-M84-CS9011-10-10-2005	SC	NA	NA	4.0	7	18	16
Grand	M-120	61012	flex-G-M120-CS61012-07-23-1998	SP1	NA	NA	7	7	18	74
Grand	M-120	61012	flex-G-M120-CS61012-07-24-1998	SP1	NA	NA	7	7	18	74
Grand	M-20	54041	flex-G-M20-CS54041-04-09-2002	SP1	NA	NA	6	7	18	68
Grand	M-37	62032	flex-G-M37-CS62032-05-18-2000	SP1	NA	NA	8	7	18	40
Grand	M-57	41122	flex-G-M57-CS41122-8-23-1994	SP1	CA-NG	NA	3.0	8	18	108
Grand	M-57	59021	flex-G-M57-CS59021-08-23-1994	SP1	CA-NG	NA	3	8	18	53
Grand	M-57	59021	flex-G-M57-CS59021-08-23-1994-(2)	SP1	CA-NG	NA	3	8	18	53
Grand	M-57	59021	flex-G-M57-CS59021-08-23-1994-(3)	SP1	CA-NG	NA	3.0	8	18	54

Table 4.3 (Cont'd)

FWD File Details				Material Types			Pavement Layer Thickness (in)			No. of. Tests
				Road-bed	Granular Layer					
Region	Road	Control Section	File Name		Material	Gradation	AC	Base	Sub-base	
Grand	M-57	59021	flex-G-M57-CS59021-08-23-1994-(4)	SP1	CA-NG	NA	3	8	18	53
Grand	M-57	29021	flex-G-M57-CS29021-5-23-1995	SP1	NA	NA	3.0	8	18	83
Grand	US-131	54013	flex-G-US131-CS54013-08-18-1994	SP1	Natural Gravel	Dense	7.3	6	18	65
Grand	US-131	54013	flex-G-US131-CS54013-08-18-1994-(2)	SP1	Natural Gravel	Dense	7.5	6	18	32
Grand	US-131	54013	flex-G-US131-CS54013-08-18-1994-(3)	SP1	Natural Gravel	Dense	7.5	6	18	65
Grand	US-131	54013	flex-G-US131-CS54013-08-18-1994-(4)	SP1	Natural Gravel	Dense	7.5	6	18	33
Grand	US-131	54013	flex-G-US131-CS54013-08-18-1994-(5)	SP1	Natural Gravel	Dense	7.5	6	18	33
Grand	US-131	54014	flex-G-US131-CS54014-05-13-1998	SP1	NA	NA	7.3	6	18	181
Grand	US-131	59012	flex-G-US131-CS59012-06-25-1998	SP1	NA	NA	8	6	18	25
Metro	I-94		flex-M-I94-CS77111-04-02-2008	CL	NA	NA	4.2	6	18	29
Metro	M-53		flex-M-M53-CS50015-02-27-2009	CL	NA	NA	8	6	18	13
Metro	M-53		flex-M-M53-CS50015-03-06-2009	CL	NA	NA	8	6	18	13
Metro	M-53		flex-M-M53-CS50015-03-09-2009	CL	NA	NA	8	6	18	13
Metro	M-53		flex-M-M53-CS50015-03-13-2009	CL	NA	NA	8	6	18	13
Metro	M-53		flex-M-M53-CS50015-04-04-2008	CL	NA	NA	8.0	6	18	10
Metro	M-53		flex-M-M53-CS50015-04-09-2009	CL	NA	NA	8	6	18	13

Table 4.3 (Cont'd)

FWD File Details				Material Types			Pavement Layer Thickness (in)			No. of. Tests
				Road-bed	Granular Layer					
Region	Road	Control Section	File Name		Material	Gradation	AC	Base	Sub-base	
North	I-75	69014	flex-N-I75-CS69014-08-03-1999	SP1	CA-AG	NA	6.25	6	18	90
North	I-75	69014	flex-N-I75-CS69014-08-03-1999-(2)	SP1	CA-AG	NA	6.3	6	18	90
North	I-75	69014	flex-N-I75-CS69014-08-04-1999	SP1	CA-AG	NA	6.25	6	18	92
North	I-75	69014	flex-N-I75-CS69014-08-04-1999-(2)	SP1	CA-AG	NA	6.3	6	18	111
North	I-75	69014	flex-N-I75-CS69014-11-12-1997	SP1	NA	NA	6.25	6	18	97
North	I-75	69014	flex-N-I75-CS69014-11-23-1997	SP1	NA	NA	6.3	6	18	93
North	M-55	72022	flex-N-M55-CS77022-8-20-2001-(2)	SP1	NA	NA	7.0	6	18	76
North	US-131	67017	flex-N-US131-CS67017-05-01-2002	SM	NA	NA	7.25	6	18	93
North	US-23	1052	flex-N-US23-CS1052-06-03-2008	SC-SM	NA	NA	3.5	8	18	11
North	US-23	4032	flex-N-US23-CS4032-06-03-2008	SC-SM	NA	NA	5.0	8	18	11
North	US-23	71073	flex-N-US23-CS71073-06-04-2008	SC-SM	NA	NA	6.5	8	18	11
North	US-23	71073	flex-N-US23-CS71073-06-04-2008-(2)	SC-SM	NA	NA	5.5	8	18	11
Superior	I-75	49025	flex-Su-I75-CS49025-05-22-2008	SC	NA	NA	7.5	6	18	11
Superior	M-28	17061	flex-Su-M28-CS17061-05-22-2008	SP-SM	NA	NA	5.0	8	18	10
Superior	M-28	75061	flex-Su-M28-CS75061-05-21-2008	SP-SM	NA	NA	5.5	8	18	11

Table 4.3 (Cont'd)

FWD File Details				Material Types			Pavement Layer Thickness (in)			No. of. Tests
				Road-bed	Granular Layer					
Region	Road	Control Section	File Name		Material	Gradation	AC	Base	Sub-base	
Superior	M-38	66072	flex-Su-M38-CS66042-05-20-2008	CL	NA	NA	3.5	8	24	11
Superior	US-141	7022	flex-Su-US141-CS7022-05-19-2008	ML	NA	NA	4.5	8	18	13
Superior	US-2	27022	flex-Su-US2-CS27022-05-20-2008	SM	NA	NA	3.5	8	18	11
Superior	US-2	75021	flex-Su-US2-CS75021-05-22-2008	SP-SM	NA	NA	5.5	8	18	11
Superior	US-41	7013	flex-Su-US41-CS7013-05-19-2008	ML	NA	NA	2.5	8	18	11
University	M-52	33051	flex-U-M52-CS33051-11-13-2002	SC	NA	NA	6.0	6	18	44

4.3 PAVEMENT STRUCTURES

In the design and construction of new pavements, two pavement cross-sections are typically used by MDOT and other State Highway Agencies. These are:

- A flexible section consisting of hot-mix asphalt (HMA) surface, aggregate base, and a sand subbase layer supported on roadbed soil. This cross section could be labeled as a three layered system (HMA, base, and subbase layers) or two layered system if the aggregate base and sand subbase are combined as a granular layer.
- A rigid section consisting of a PCC slab, optional aggregate base, and a sand subbase layer supported on roadbed soil. This cross section could also be labeled as a three layered system (PCC, base, and subbase layers). However, because of the stiffness of the concrete slab relative to the aggregate base and the high ratio of the thickness of the PCC slab to that of the aggregate base (typically 2 or more), most existing backcalculation software combine the aggregate base (if any) and the sand subbase as one granular layers.

In this study, the two layered system was used to backcalculate the resilient modulus of all flexible and rigid pavement sections. Hence, the base and subbase layers were combined as one granular layer whose thickness was taken as the sum of the thicknesses of the base and subbase layers as shown in Figure 4.1. In addition, for each FWD test conducted on flexible pavement sections, a three layered system was also used and the modulus values of the HMA, base, and subbase layers and the roadbed soils were backcalculated. The three layered system is also shown in Figure 4.1.

Few of the flexible pavement sections that were subjected to FWD tests consisted of an HMA layer, a crushed asphalt under the HMA layer, aggregate base, and sand subbase layer supported on roadbed soils as shown in Figure 4.2. This pavement structure was likely the result of break

and set action and HMA overlay. The crushed HMA was left in place as an additional base layer. Unfortunately, the exact thickness of the crushed asphalt layer was not recorded, hence its thickness was assumed to be equal to the thickness of the HMA overlay. In the backcalculation of the layer moduli of these pavement sections, the thickness of the base layer was considered as the sum the thicknesses of the crushed asphalt layer and the existing aggregate base as shown in Figure 4.2. It should be noted that, in this study, pavement sections containing layers of crushed asphalt and a natural gravel aggregate base are labeled "crushed asphalt – natural gravel (CA-NG)". Likewise, the label "crushed asphalt – aggregate base (CA-AG)" was used for sections where the aggregate base type is not known.

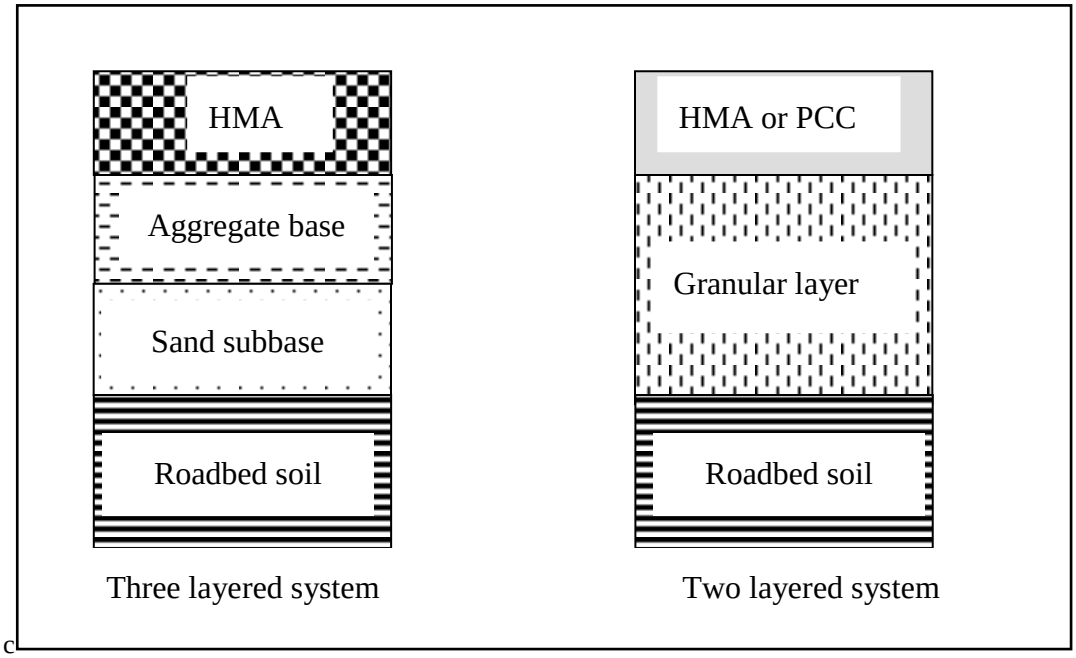

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Figure 4.1 Pavement structures used for backcalculation

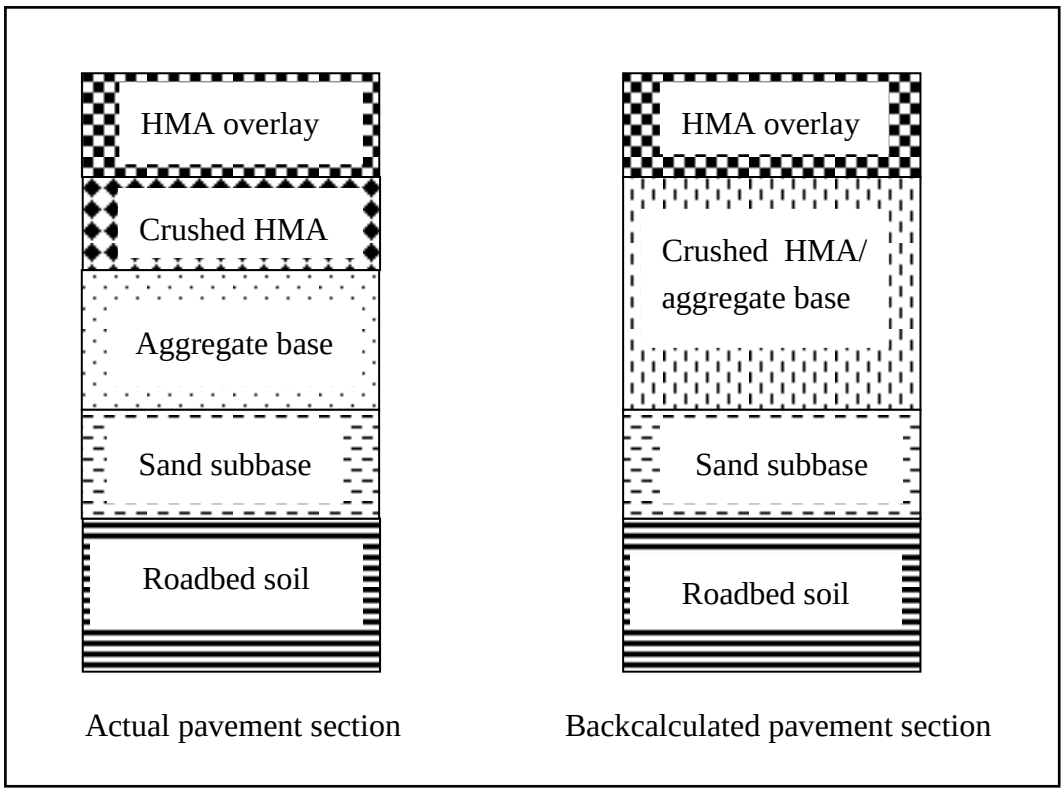

Figure 4.2 Pavement cross-sections for flexible pavements with a crushed asphalt layer

4.4 BACKCALCULATION OF UNBOUND GRANULAR LAYER MODULI

The MICHBACK software is a backcalculation program that was developed at Michigan State University for MDOT. It uses a linear elastic layered system, the Chevronx software as a forward engine, and a two gradient Newtonian based algorithm in the iteration process to converge the calculated and the measured deflection basins. The MICHBACK program was used in this study to backcalculate the pavement layer moduli for both flexible and rigid pavements. The user inputs to the MICHBACK program for each pavement layer, the thickness (provided by MDOT), Poisson's ratios, and the seed modulus and its possible maximum and minimum values.

The default values for Poisson's ratios and the maximum, minimum, and seed resilient modulus values included in the software were used for most of the pavement sections. The program accepts convergence based on the following criteria, set by the user.

- The difference in each of the backcalculated modulus in two consecutive iterations is 0.02 percent.
- The difference in the Root Mean Square (RMS) error between the measured and the calculated deflection basins in two consecutive iterations is 0.02 percent.

4.4.1 Rigid Pavements

The AREA method is an empirical backcalculation method based on a PCC slab on grade system. The method is generally used to backcalculate the layer moduli of rigid pavements. The AREA method backcalculates the composite modulus of the PCC slab, which is a combined modulus of the PCC slab and the granular layer, and the modulus of the roadbed soils. The resilient modulus of the unbound granular layer can be estimated from the composite modulus of the PCC slab using the correlations developed by (Ioannides et al, 1992). Said correlations utilize the modular ratio β (which is the ratio of the modulus of the base layer to that of the PCC slab, see Equation 2.26). For any given granular base, the modular ratio is typically very small. This makes the estimate of the resilient modulus of the base layer highly sensitive to the estimated modular ratio. Hence, the method is not recommended to be used for estimating the modulus of the unbound granular layers (smith et al, 1995).

In a study sponsored by the Federal Highway Administration (FHWA), Stubstad et al proposed an alternative backcalculation method that uses forward calculation (Stubstad et al 2006). The method involves backcalculation of the roadbed modulus using a modified Hogg model and of the slab using AREA factor. However, the modulus of the unbound granular layer has to be determined using the correlations developed by Ioannides et al (Ioannides et al 1992).

To study the impact of the unbound granular layer modulus on the surface deflections of rigid pavements, the ISLAB2000 software was used to calculate the surface deflection basins for

different base thickness and modulus while keeping the other variables constant. The resulting deflection basins are shown in Figure 4.3. Examination of the figure indicates that, as it was expected, the presence of an unbound granular layer does not have significant impact on the deflection basin. Hence, the development of empirical relations to estimate the granular layer modulus value based on the measured surface deflection is a difficult task.

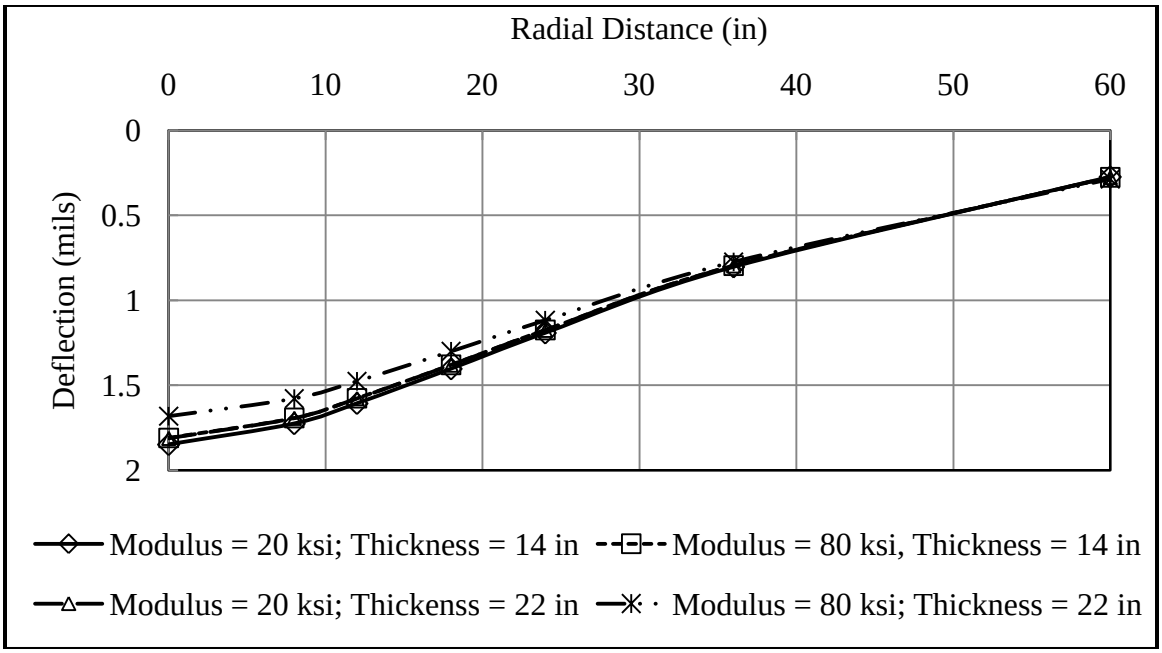

Figure 4.3 Impact of unbound granular layer modulus on the rigid pavement deflection basin

As an alternative, analysis of elastic layered system could be performed to backcalculate the layer moduli of rigid pavements. Indeed, in another study sponsored by FHWA, Von Quintas et al used the MODCOMP4 software to backcalculate the layer moduli of both rigid and flexible pavements (Von Quintas et al 2002). They reported that the RMS error between the measured and the calculated deflection basins was less than 3% for both pavements. They found that correct estimation of the depth to the stiff layer increases the accuracy of the backcalculated pavement layer moduli. Based on those findings, the MICHBACK software (which is based on elastic layered system with Chevronx as the forward engine) was used in this study to

backcalculate the layer moduli of both rigid and flexible pavements. The maximum acceptable RMS error levels were set at 3 percent for rigid pavements and at 2 percent for flexible pavements.

As mentioned in Table 4.1, a total of seventy four FWD files with four thousand six hundred sixty three FWD tests conducted on rigid pavements were used in this study. Pavement layer thicknesses were provided by the MDOT. The depth to stiff layer was estimated and then modified several times to minimize the RMS error. All tests with an RMS error greater than 3 percent were not included in further analyses. A total of two thousand nine hundred ninety five (64%) tests have an RMS error of less than 3 percent. The averages of the backcalculated resilient moduli for each aggregate type and gradation are shown in Figure 4.4. Irrespective of the unbound granular layer aggregate type, the average backcalculated modulus was found to vary between 30 and 40 ksi. A sample input (deflection data and layer thicknesses) and output (backcalculated layer moduli and the backcalculated modulus of the roadbed soil) data for I75 in North Region is presented in Table 4.4. The averages of backcalculated moduli for concrete slab, granular layer and the roadbed for all files are listed in Table 4.5. Details of the backcalculated granular layer modulus values for all tests conducted on rigid pavements are presented in Appendix A.

The backcalculated PCC resilient modulus results obtained from the MICHBACK software were compared to those obtained using the AREA method, as shown in Figure 4.5. The results indicate similarity between the two methods.

Figure 4.6 depicts the averages of the backcalculated modulus values of the granular layer and the roadbed soils under rigid pavements. It can be seen that the modulus values of the granular layer are not affected by those of the roadbed soils (no interaction). This observation indicates

that the elastic layered analysis embedded in the MICHBACK software could be used to simulate rigid pavement response to loads.

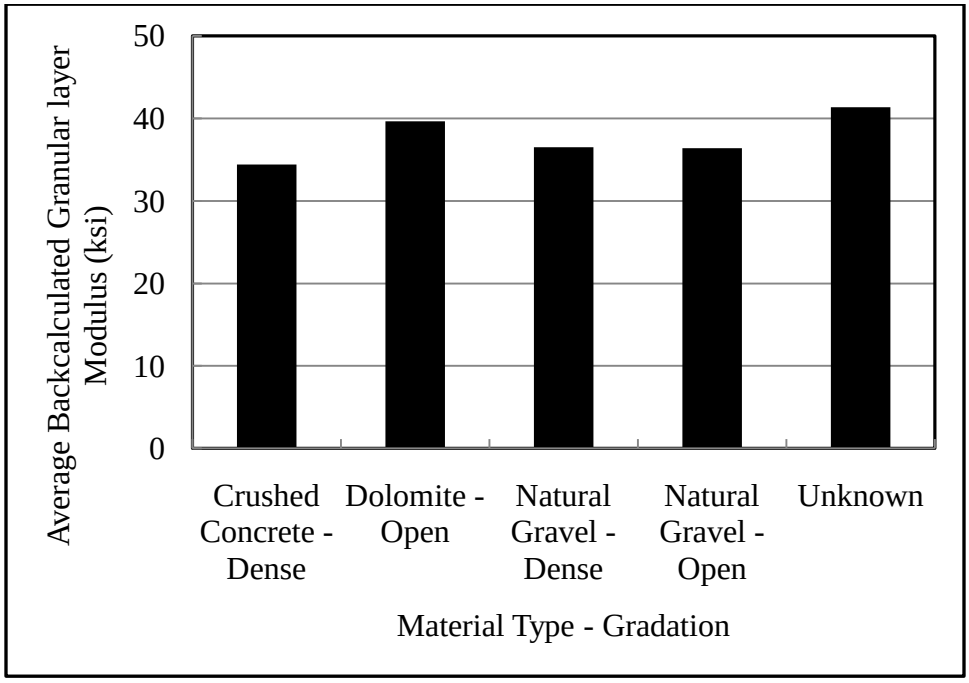

Figure 4.4 Unbound granular layer moduli for rigid pavements

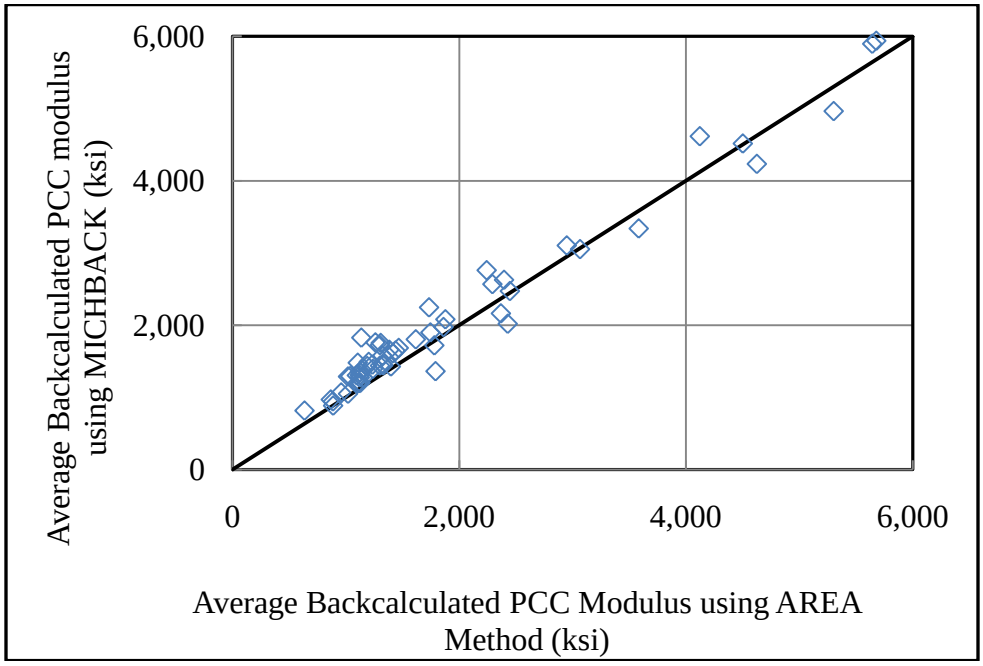

Figure 4.5 Backcalculated PCC modulus values obtained from the MICHBACK software versus those from the AREA method

Table 4.4 A sample backcalculated file for rigid pavement

Region	Road	Control Section	Project Number	FWD Date	Material Type			Pavement Layer Thicknesses (in)		Depth to Stiff layer (in)
North	I75	65041	947	7/2/1997	Roadbed	Aggregate Type	Gradation	PCC	Granular	
File Name	rigid-N-I75-CS65041-09-14-2001				SP2	Natural Gravel	Dense	9	14	700
Deflections (mils) measured by FWD at various radial distances (in)							RMS Error (%)	Backcalculated Moduli (ksi)		
0	8	12	18	24	36	60		PCC	Granular	Roadbed
8.54	7.13	6.46	5.71	5.00	3.82	2.13	1.81	931.5	35.4	18.5
7.36	6.10	5.51	4.80	4.13	3.11	1.65	1.91	1,077.6	32.2	24.2
7.95	6.81	6.30	5.63	5.00	3.94	2.20	1.97	1,389.3	24.4	18.4
8.15	6.97	6.46	5.75	5.04	4.02	2.24	2.00	1,270.9	26.9	17.8
7.56	6.22	5.67	4.92	4.29	3.23	1.73	2.06	1,053.8	33.0	22.9
7.01	5.87	5.31	4.69	4.06	3.07	1.61	2.10	1,283.2	25.6	24.8
6.97	5.83	5.31	4.65	4.06	3.07	1.61	2.12	1,311.5	25.5	25.0
7.56	6.26	5.67	4.92	4.25	3.19	1.65	2.15	1,079.6	25.8	23.8
7.56	6.22	5.63	4.92	4.29	3.23	1.73	2.16	1,042.1	34.4	23.0
8.15	6.73	6.14	5.43	4.76	3.66	2.01	2.24	991.0	36.4	19.5
7.72	6.38	5.79	5.04	4.37	3.31	1.73	2.28	1,351.4	28.0	22.6
8.15	6.73	6.14	5.39	4.76	3.66	2.01	2.28	983.6	37.4	19.6
7.91	6.73	6.26	5.55	4.92	3.90	2.13	2.29	1,377.6	23.0	18.9
7.32	6.06	5.47	4.76	4.09	3.11	1.61	2.31	1,120.0	28.7	24.7
10.24	8.43	7.72	6.77	5.91	4.37	2.24	2.33	896.8	14.7	17.9
9.88	8.15	7.44	6.54	5.67	4.25	2.17	2.41	955.0	15.4	18.9
9.92	8.19	7.44	6.54	5.71	4.25	2.17	2.45	945.3	15.2	18.8
7.09	5.91	5.39	4.72	4.09	3.15	1.61	2.60	1,257.8	24.7	24.3

Table 4.5 A summary of the backcalculated granular layer modulus for rigid pavements

FWD File Details			Depth to Stiff Layer (in)	No.of Tests	No. of. Tests Converged	Avg RMS Error (%)	Average Backcalculated Resilient Modulus (ksi)		
Region	Road	File Name					PCC	Granular	Road-bed
Bay	I-675	rigid-B-I675-CS73101-10-24-2003	250	72	65	1.49	1,136	34	18
Bay	I-675	rigid-B-I675-CS73101-05-26-2004	250	49	43	1.90	1,083	39	17
Bay	I-675	rigid-B-I675-CS73101-10-14-2004	250	75	56	1.78	875	24	13
Bay	I-675	rigid-B-I675-CS73101-12-05-2005	250	63	41	1.47	1,466	42	18
Bay	I-75	rigid-BI75-CS73101-08-15-2001	200	47	43	1.61	1,153	30	14
Bay	I-75	rigid-BI75-CS73101-11-30-1999	100	19	19	1.53	2,446	35	9
Bay	I-75	rigid-B-I75-CS6111-09-13-2001	700	57	51	1.93	1,353	39	21
Bay	I-75	rigid-B-I75-CS9035-07-02-2008	175	36	34	1.29	4,499	59	15
Bay	US-10	rigid-B-US10-CS9101-12-18-2007	700	5	0	NA	NA	NA	NA
Bay	US-127	rigid-B-US127-CS29011-06-27-2008	175	33	29	1.41	5,300	45	15
Bay	US-127	rigid-B-US127-CS37014-12-19-2007	NA	12	0	NA	NA	NA	NA
Bay	US-23	rigid-B-US23-CS25031-08-30-2005	700	19	19	2.05	1,123	62	28
Bay	US-23	rigid-B-US23-CS25031-08-23-2005	700	27	27	1.99	1,324	52	28
Bay	US-23	rigid-B-US23-CS25031-11-15-2005	700	68	42	1.76	1,101	45	27
Bay	US-23	rigid-B-US23-CS25031-11-16-2005	700	31	31	1.42	1,038	53	17
Bay	US-23	rigid-B-US23-CS25031-11-16-2005-(2)	700	48	24	1.59	936	25	20
Bay	US-23	rigid-B-US23-CS25031-10-21-1998	500	34	20	1.55	4,246	56	31
Bay	US-23	rigid-B-US23-CS25031-05-30-2001	500	46	35	1.47	2,241	57	26
Bay	US-23	rigid-B-US23-CS25031-08-23-2005-(2)	500	17	11	2.08	1,306	69	23
Bay	I-475	rigid-B-I475-CS25132-06-26-1997	500	60	48	0.67	2,948	32	25
Bay	I-475	rigid-B-I475-CS25132-06-24-2001	500	65	21	1.59	2,395	40	26

Table 4.5 (Cont'd)

FWD File Details			Depth to Stiff Layer (in)	No. of Tests	No. of. Tests Converged	Avg. RMS Error (%)	Average Backcalculated Resilient Modulus (ksi)		
Region	Road	File Name					PCC	Granular	Road-bed
Grand	US-131	rigid-G-US131-CS41131-07-11-1996-(2)	700	9	0	NA	NA	NA	NA
Grand	US-131	rigid-G-US131-CS59012-04-09-1998	700	22	14	1.22	1,358	31	22
Grand	I-96	rigid-G-I96-CS34044-06-27-2001	700	21	8	2.05	2,112	34	34
Grand	M-6	rigid-G-M6-CS41064-09-15-2004	700	57	41	2.09	2,284	38	38
Grand	M-6	rigid-G-M6-CS41064-09-29-2004	700	653	407	1.74	6,208	34	34
Grand	M-6	rigid-G-M6-CS41064-09-08-2004	700	665	419	1.74	6,234	34	34
Grand	M-6	rigid-G-M6-CS41064-11-15-2001	700	159	106	1.43	2,032	24	24
Grand	US-27	rigid-G-US27-CS19033-06-15-1998	400	37	19	1.02	1,397	30	20
Metro	I-69	rigid-M-I69-CS77023-07-02-1997	200	18	14	0.56	1,745	46	13
Metro	I-69	rigid-M-I69-CS77024-04-02-2008	NA	36	0	NA	NA	NA	NA
Metro	I-75	rigid-M-I75-CS82194-09-16-2008	700	5	2	1.54	3,065	85	18
Metro	I-94	rigid-M-I94-CS82021-11-19-2006	700	333	139	2.18	1,556	53	20
Metro	I-94	rigid-M-I94-CS82022-10-06-2005	NA	35	0	NA	NA	NA	NA
Metro	I-94	rigid-M-I94-CS82022-10-13-2005	NA	20	0	NA	NA	NA	NA
Metro	I-94	rigid-M-I94-CS82022-10-26-2005	NA	30	0	NA	NA	NA	NA
Metro	I-94	rigid-M-I94-CS82022-10-31-2005	NA	36	0	NA	NA	NA	NA
Metro	I-94	rigid-M-I94-CS82022-09-30-2005	NA	69	0	NA	NA	NA	NA
Metro	I-94	rigid-M-I94-CS82022-11-01-2005	NA	43	0	NA	NA	NA	NA
Metro	I-94	rigid-M-I94-CS82022-09-16-2008	NA	11	0	NA	NA	NA	NA
Metro	M-5	rigid-M-M5-CS00000-11-29-2006	175	69	66	1.28	1,791	37	16
North	I-75	rigid-N-I75-CS65041-08-30-2001	700	20	13	2.06	1,139	44	21
North	I-75	rigid-N-I75-CS65041-09-14-2001	700	29	18	2.19	1,129	27	21

Table 4.5 (Cont'd)

FWD File Details			Depth to Stiff Layer (in)	No. of Tests	No. of. Tests Converged	Avg RMS Error (%)	Average Backcalculated Resilient Modulus (ksi)		
Region	Road	File Name					PCC	Granular	Road-bed
North	I-75	rigid-N-I75-CS16091-09-17-2001	700	68	62	1.83	1,202	45	20
Grand	M-6	rigid-G-M6-CS41064-09-15-2004	700	57	41	2.09	2,284	38	38
North	I-75	rigid-N-I75-CS16092-09-18-2001	700	98	74	1.94	1,131	35	21
North	I-75	rigid-N-I75-CS16092-09-27-2001	700	86	62	1.77	1,238	32	21
North	I-75	rigid-N-I75-CS16091-10-26-2001	700	53	49	1.34	1,307	61	21
Southwest	I-196	rigid-So-I196-CS3033-05-14-2008	400	33	4	1.35	1,417	29	16
Southwest	I-69	rigid-So-I69-CS12034-10-08-1998	700	7	3	1.74	1,222	29	27
Southwest	I-69	rigid-So-I69-CS12034-10-09-1998	700	7	6	1.44	1,105	39	23
Southwest	I-69	rigid-So-I69-CS12034-09-11-2001	700	36	34	1.86	2,292	47	31
Southwest	I-69	rigid-So-I69-CS12033-12-18-2001	700	65	65	1.23	1,734	51	20
Southwest	I-94	rigid-So-I94-CS11081-11-18-2002	300	84	57	1.35	1,301	26	13
Southwest	I-94	rigid-So-I94-CS11081-10-28-2004	300	66	46	1.61	1,024	36	12
Southwest	I-94	rigid-So-I94-CS11081-10-30-2001	300	12	6	1.03	1,188	31	11
Southwest	US-31	rigid-So-US31-CS11057-10-09-2001	700	28	5	1.93	1,233	33	18
Southwest	US-31	rigid-So-US31-CS11057-10-30-2001	700	27	24	1.02	1,521	40	15
Southwest	US-31	rigid-So-US31-CS11057-06-06-2003	700	16	9	1.61	1,200	22	19
Southwest	US-31	rigid-So-US31-CS11057-10-10-2002	700	58	29	1.43	1,000	24	16
Southwest	US-31	rigid-So-US31-CS11057-05-14-2008	250	33	24	1.28	3,582	26	17
Superior	I-75	rigid-Su-I75-CS49025-06-13-2000	250	63	61	1.26	1,318	52	15
Superior	I-75	rigid-Su-I75-CS49025-06-02-2000	150	40	38	1.10	912	37	9
Superior	I-75	rigid-Su-I75-CS17033-05-31-2000	600	49	42	1.74	1,047	28	16
Superior	I-75	rigid-Su-I75-CS17034-05-25-2000	400	16	16	1.77	1,260	22	18

FWD File Details			Depth to Stiff Layer (in)	No. of Tests	No. of. Tests Converged	Avg RMS Error (%)	Average Backcalculated Resilient Modulus (ksi)		
Region	Road	File Name					PCC	Granular	Road-bed
Superior	I-75	rigid-Su-I75-CS17034-05-22-2000	400	21	20	1.88	1,151	29	13
Superior	M-28	rigid-Su-M28-CS02041-08-23-2001	300	21	17	1.31	1,330	37	17
Superior	M-28	rigid-Su-M28-CS02041-08-23-2001-(2)	300	42	35	1.01	1,019	24	15
Superior	M-28	rigid-Su-M28-CS17062-05-08-2001	400	80	72	1.27	1,137	61	16
University	I-69	rigid-U-I69-CS19042-09-18-1999	700	10	10	1.04	1,384	40	26
University	I-69	rigid-U-I69-CS19043-06-25-2001	700	17	5	1.68	1,617	29	22
University	I-69	rigid-U-I69-CS19043-05-14-2002	700	98	60	1.54	1,876	36	25
University	I-75	rigid-U-I75-CS58151-03-31-2008	225	57	40	1.51	4,623	43	12
University	I-75	rigid-U-I75-CS58152-10-06-2006	500	21	21	2.15	959	38	16
University	US-23	rigid-U-US23-CS58034-09-14-2006	225	79	72	1.93	886	41	20

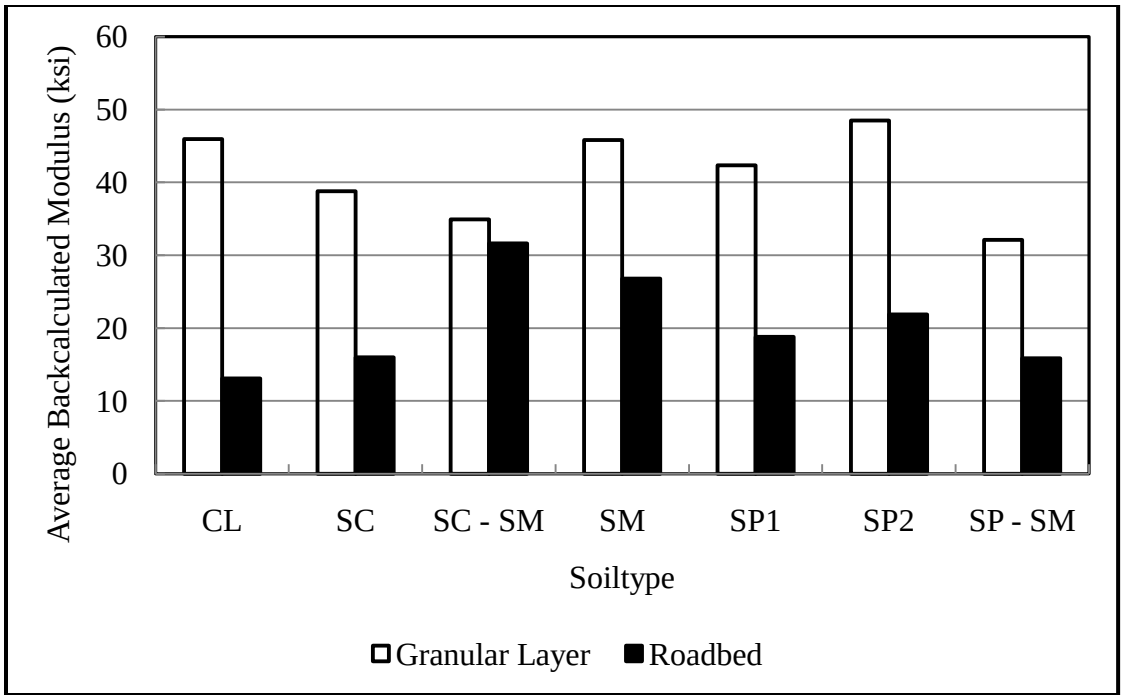

Figure 4.6 Average backcalculated granular layer and the roadbed modulus of rigid pavement obtained from the two layered system for various roadbed soils

Case 1 Analysis - Figure 4.7 shows the distribution of the backcalculated granular layer modulus for rigid pavement using a two layered system. The data from the figure indicate that the distribution is slightly skewed to the higher modulus, which might possibly be the outliers. Hence, it is important to remove all the outliers before the further analysis. Table 4.6 lists the statistical information including the average, maximum, and minimum values, the standard deviation and the 30^{th} percentile values for the backcalculated granular layer and roadbed moduli. It should be noted that for a normal distribution, the modulus value corresponding to average (μ) – 2/3*standard deviation (σ) will be similar to the 30^{th} percentile value. The maximum backcalculated modulus for the granular layer is about 150 ksi and is definitely an outlier.

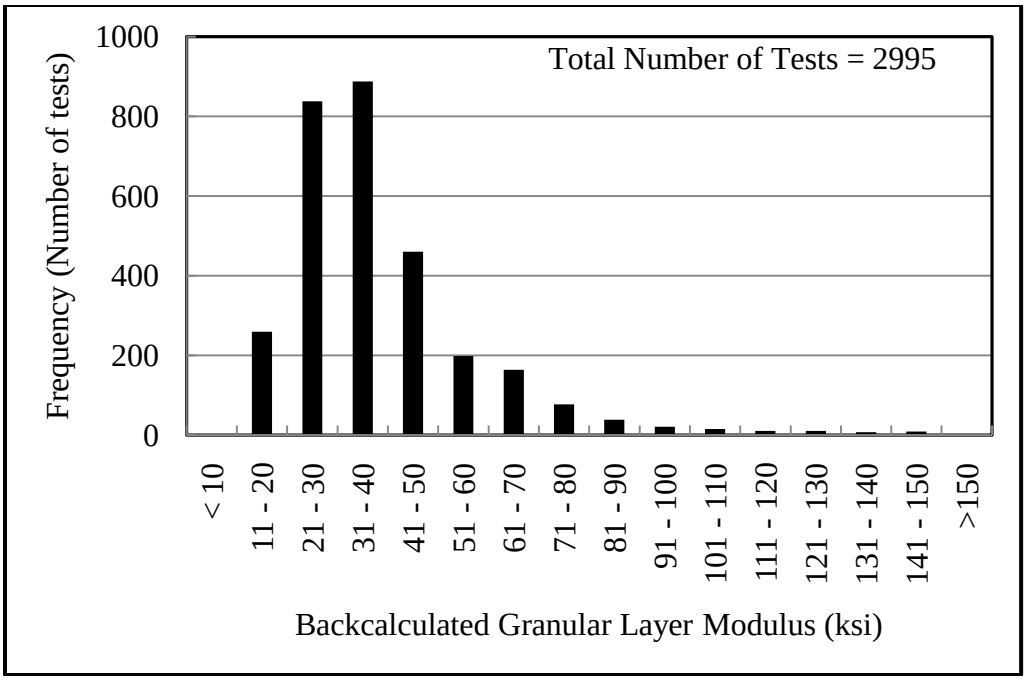

Figure 4.7 Distribution of the backcalculated granular layer moduli for rigid pavements for all data, case 1

Table 4.6 Descriptive statistics for backcalculated granular layer and roadbed modulus for rigid pavements for all data, case 1

Statistics	Backcalculated Layer Moduli (ksi)	
	Granular Layer	Roadbed
Average	38.44	23.49
Maximum	150.00	62.37
Minimum	10.00	6.55
Standard Deviation	19.07	9.50
30^{th} Percentile	28.22	17.20

Case 2 Analysis - Figure 4.8 shows the distribution of the backcalculated granular layer modulus values for case 2 analysis (after deleting the upper and lower 10% of the data) which are considered outliers. The data in the figure indicate that the number of test results where the modulus values are higher than 40 ksi decreased relative to case 1 analysis. This was expected since case 1 involves all the test data. Table 4.7 lists the descriptive statistics (the average, maximum, and minimum values, the standard deviation, and the 30^{th} percentile value) of the

backcalculated granular layer and roadbed modulus values. It can be inferred from Table 4.7 that the 30th percentile value for the backcalculated granular layer modulus is 30 ksi.

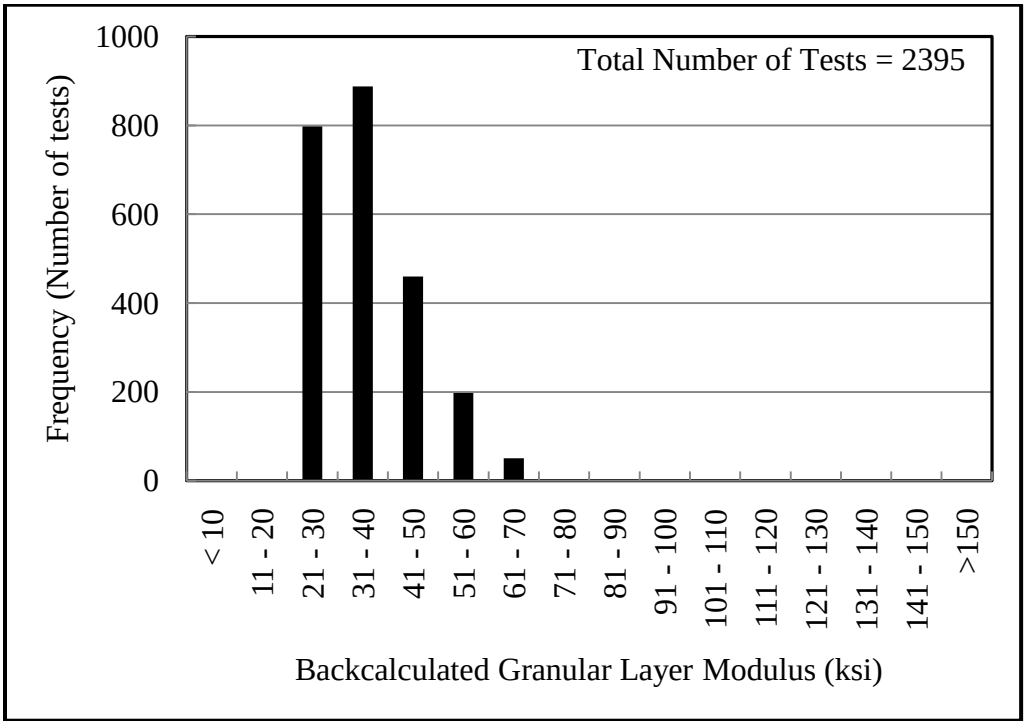

Figure 4.8 Distribution of the backcalculated granular layer modulus for rigid pavements after deleting the upper and lower 10% of the backcalculated moduli, case 2

Table 4.7 Descriptive statistics for backcalculated granular layer and roadbed modulus for rigid pavement after deleting the upper and lower 10% of the backcalculated moduli, case 2

Statistics	Backcalculated Layer Moduli (ksi)	
	Granular Layer	Roadbed
Average	35.65	24.96
Maximum	62.34	62.10
Minimum	20.81	6.76
Standard Deviation	9.75	9.59
30th Percentile	29.25	18.45

Case 3 Analysis - Figure 4.9 shows the distribution of the backcalculated granular layer modulus for case 3 analysis (after deleting the upper and lower 20% of the data, which are considered outliers). The data in the figure indicate that the majority of the modulus values are below 40 ksi

and about 25 percent of the data are higher than 40 ksi. The significance of this is that the number of outliers (modulus higher than 40 ksi) still high even after eliminating 20 percent of the data on the high side. This reflects the uncertainty in the material characteristics (specifically thicknesses) that used in the backcalculation routine. Table 4.8 lists the descriptive statistics (the average, maximum, and minimum values, the standard deviation, and the 30^{th} percentile value) of the backcalculated granular layer and roadbed modulus values. It can be concluded from Table 4.8 that the 30^{th} percentile value for the backcalculated granular layer modulus is also 30 ksi, as in the case 2 analysis. The minimum modulus of 25 ksi, indicates there are some tests with granular layer modulus in between 20 and 25 ksi, (which are reasonable), and are not included in this analysis.

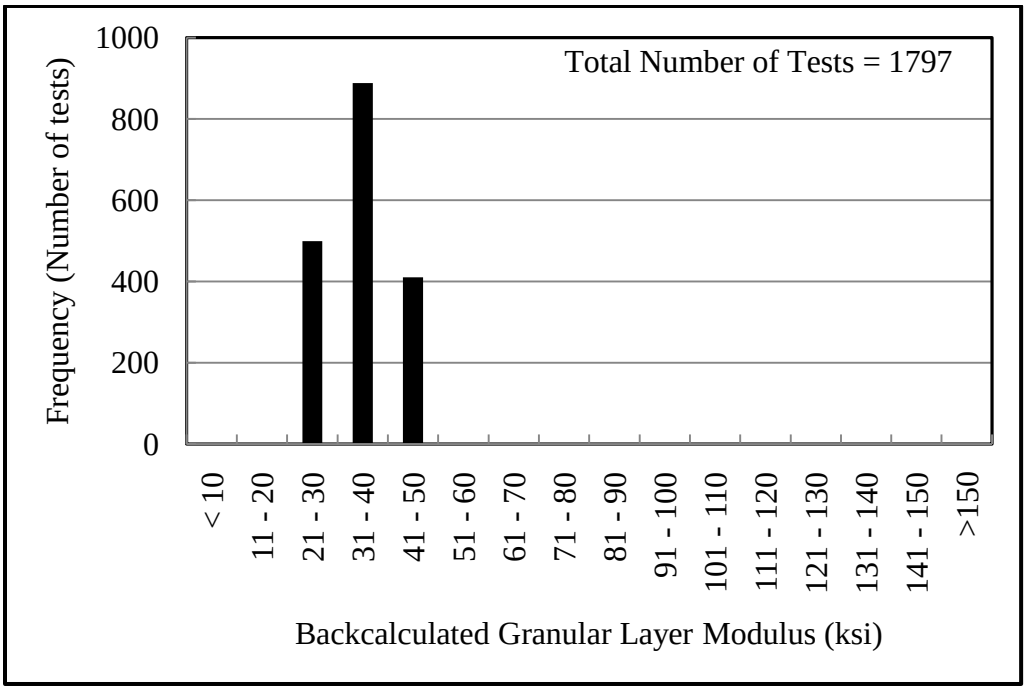

Figure 4.9 Distribution of the backcalculated granular layer modulus for rigid pavement after deleting the upper and lower 20% of the backcalculated moduli, case 3

Table 4.8 Descriptive statistics for backcalculated granular layer and roadbed modulus for rigid pavement after deleting the upper and lower 20% of the backcalculated moduli, case 3

Statistics	Backcalculated Layer Moduli (ksi)	
	Granular Layer	Roadbed
Average	34.58	26.25
Maximum	48.23	47.76
Minimum	25.57	6.76
Standard Deviation	6.01	9.57
30^{th} Percentile	30.40	19.46

Case 4 Analysis - Results of the backcalculated modulus values using case 4 analyses (75 percentile) are shown in Figure 4.10. As it was expected, the lower modulus values were retained whereas the number of occurrences where the modulus value is higher than 40 ksi decreased to about 250 (about 10%). Table 4.9 provides a list of the statistical descriptive of the data of case 4. It can be seen that the average backcalculated modulus value is lower than the averages reported for analyses cases 1 through 3.This is mainly due to the 75 percentile statistics where the upper values were eliminated while the lower values were kept in the analyses. The 30^{th} percentile value for the backcalculated granular layer moduli is 26.5 ksi. Once again, this value corresponds to (average (μ) – 2/3*standard deviation (σ)) for a normal distribution. It also means that modulus of only 30% of the tests are below the recommended value of the granular layer modulus of rigid pavement. Therefore it is more conservative.

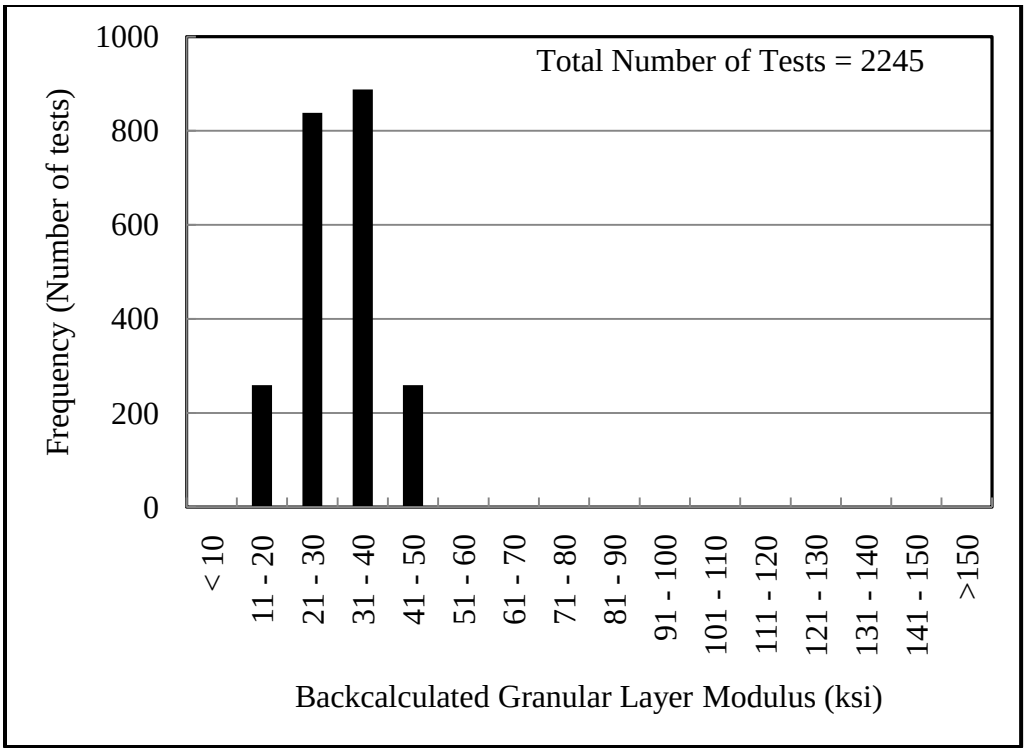

Figure 4.10 Distribution of the backcalculated granular layer modulus for rigid pavement for backcalculated moduli less than the 75th percentile value, case 4

Table 4.9 Descriptive statistics for backcalculated granular layer and roadbed modulus for rigid pavement for backcalculated moduli less than the 75th percentile value, case 4

Statistics	Backcalculated Layer Moduli (ksi)	
	Granular Layer	Roadbed
Average	29.95	24.75
Maximum	44.12	46.38
Minimum	10.00	6.55
Standard Deviation	7.65	9.24
30th Percentile	26.5	18.54

4.4.2 Flexible Pavements

As stated earlier, the layer moduli of flexible pavements were backcalculated based using both two and three layered systems and the MICHBACK software. A total of fifty six FWD data files containing two thousand seven hundred five FWD tests conducted on flexible pavements were used for the backcalculation of layer moduli (see Table 4.1). The convergence criteria in

MICHBACK remained the same as the one noted for rigid pavements. However, the maximum acceptable RMS error for flexible pavements was set at 2 percent. A sample input (deflection data and layer thicknesses) and output (backcalculated layer moduli and the backcalculated modulus of the roadbed soil) data for a segment of US 131 in Grand Region is presented in Table 4.10. A summary of the backcalculated granular layer moduli for all tests conducted on flexible pavements is presented in Appendix B.

First, a two-layer pavement system (where the aggregate base and the sand subbase were combined into one granular layer) was used in the backcalculation of layer moduli. One thousand seven hundred and sixty three (65%) test locations satisfied the convergence criteria. The averages of the backcalculated granular layer modulus values for each aggregate type and the roadbed modulus are presented in Figure 4.11. The averages of the backcalculated modulus values of the AC and granular layers and of the roadbed soils along each road segment of each FWD data files are listed in Table 4.11.

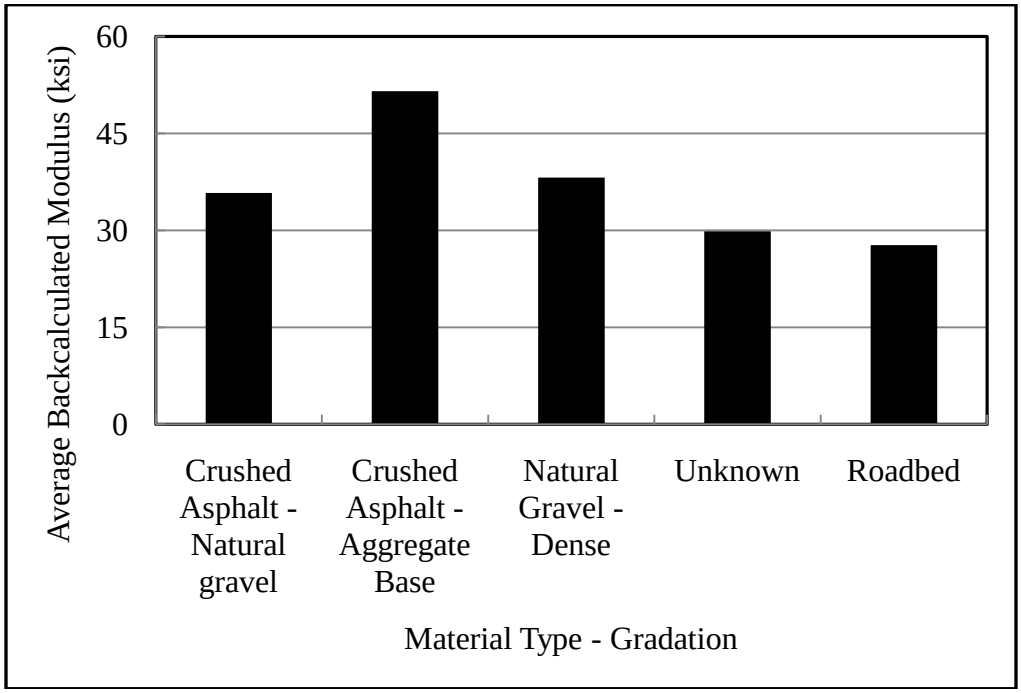

Figure 4.11 Unbound granular layer moduli for flexible pavements (two-layer system)

Second, a three-layer pavement system was used to backcalculate the moduli of the base and subbase layers separately. Note that the types of the aggregate base and sand subbase used in construction vary with location and the availability of the materials near the construction site. Having said that, the data indicate that similar sand is used for the subbase layer in all pavement sections in Michigan. The convergence criteria for the three layer system were set the same as that for the two layer system. A total of two thousand two hundred three (81%) tests satisfied the convergence criteria. A summary of the backcalculated moduli of the base and sand subbase layers along with the roadbed modulus are shown in Figure 4.12. The averages of the backcalculated modulus values of the AC, aggregate base, and sand subbase layers and of the roadbed soils along each road segment of each FWD data files are listed in Table 4.12.

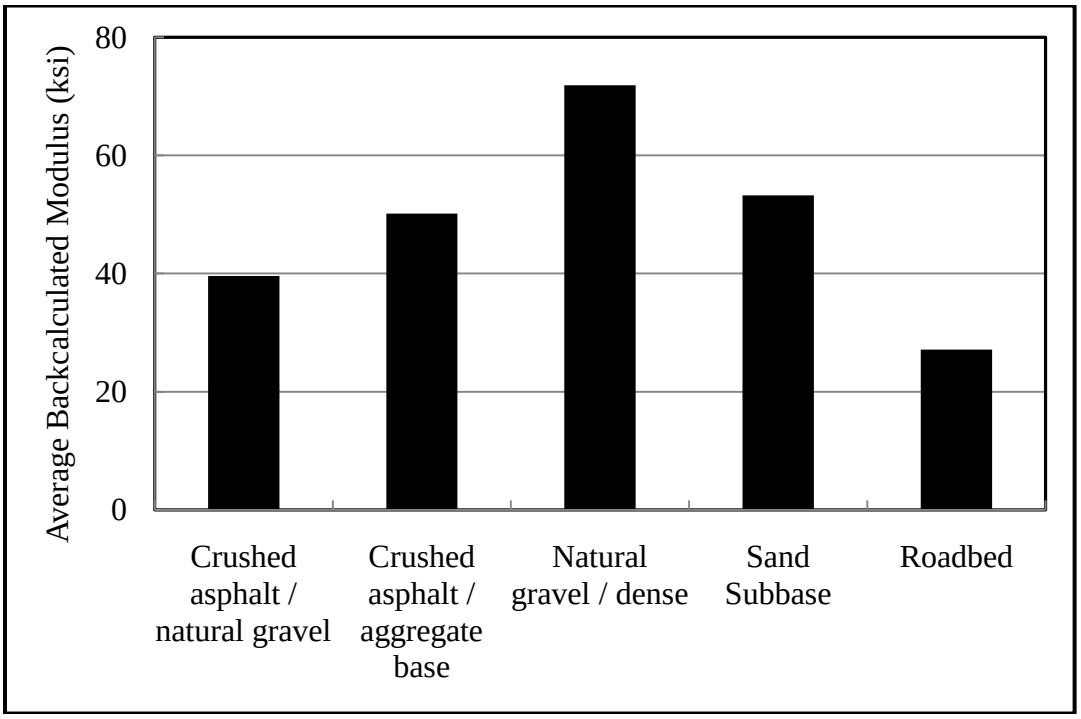

Figure 4.12 Unbound granular layer moduli for flexible pavements (three-layer system)

All the backcalculated layer moduli using the two and the three layer systems that satisfied the convergence criteria were further scrutinized using the two concepts stated below.

- For a given pavement section, the resilient modulus of the base layer should be greater than or equal to that of the subbase layer.
- The modulus of the granular layer of the two layer system should be lower than the base modulus and higher than the subbase modulus.

The backcalculated modulus values that satisfied the two concepts were subjected to statistical analyses. Figure 4.13 shows a statistical summary in the form of a bar chart depicting the total number of FWD tests, the percent of the tests satisfied the conversion criteria for the two and the three layer systems, the percent of the tests satisfied the criteria for both systems, the percent of the tests satisfied the first concept, and the percent of tests satisfied the second concept. Table 4.13 provides a list of the statistical summary of Figure 4.13. It can be seen from Figure 4.13 and Table 4.13 that FWD tests satisfying the convergence criteria based on the three layered system analysis is higher than that based on the two layered system. This should not be interpreted that the results of the three layered system are better or more accurate than the results from the two layered system.

Table 4.10 Sample backcalculated file for a flexible pavement

Region	Road	Control Section	Project Number	FWD Date	Material Type			Pavement Layer Thicknesses (in)		Depth to Stiff layer (in)
Grand	US131	54013	28121	8/18/1994	Roadbed	Aggregate Type	Gradation	AC	Granular	
File Name	Flex-G-US131-CS54013-08-18-1994-(2)				SP1	Natural Gravel	Dense	7.5	25	700
Deflections (mils) measured by FWD at various radial distances (in)							RMS Error (%)	Backcalculated Moduli (ksi)		
0	8	12	18	24	36	60		AC	Granular	Roadbed
9.99	7.57	5.97	4.88	4.01	2.67	1.55	2.07	371.3	44.1	23.5
9.62	7.27	5.80	4.54	3.56	2.48	1.30	2.07	399.2	41.7	27.7
10.78	7.83	6.35	4.90	3.98	2.75	1.26	4.89	398.3	31.6	26.3
10.72	7.94	6.69	5.29	4.09	2.43	1.26	1.91	449.2	26.5	27.6
9.80	7.30	6.07	4.74	3.79	2.50	1.46	0.89	383.7	41.8	25.0
10.60	7.54	6.10	4.75	3.79	2.35	1.29	2.08	338.2	35.5	27.2
9.44	7.27	5.66	4.38	3.52	2.08	1.02	2.62	481.8	29.4	33.2
10.99	8.18	6.50	5.36	4.01	2.66	1.24	3.75	447.0	25.5	26.8
9.07	7.76	6.50	4.93	3.74	2.67	1.51	3.46	500.5	36.9	24.1
9.47	7.39	5.81	4.56	3.36	2.35	1.42	3.10	339.8	45.7	26.4
9.84	7.55	5.57	4.24	3.25	2.17	1.20	2.61	297.7	40.7	29.5
9.37	6.98	5.79	4.66	3.39	2.38	1.35	2.17	390.8	42.1	26.5
9.02	6.75	5.13	4.07	3.16	2.03	1.10	2.15	377.6	41.5	31.6
9.58	7.05	5.29	4.11	3.16	2.12	1.05	3.25	348.6	39.2	32.3
8.92	6.48	5.36	3.85	3.22	2.12	1.05	3.50	419.8	40.2	32.1
9.15	6.52	5.24	4.05	3.10	2.07	1.07	1.94	378.1	41.0	31.9
9.35	7.09	5.57	4.01	3.16	2.11	1.16	2.09	330.1	42.7	30.9
9.59	7.00	5.66	4.24	3.34	2.33	1.15	3.11	373.0	39.9	29.7
9.05	6.72	5.43	3.98	3.04	1.89	1.00	0.51	392.6	37.1	34.7

Table 4.10 (Cont'd)

Region	Road	Control Section	Project Number	FWD Date	Material Type			Pavement Layer Thicknesses (in)		Depth to Stiff layer (in)
Grand	US131	54013	28121	8/18/1994	Roadbed	Aggregate Type	Gradation	AC	Granular	
File Name	Flex-G-US131-CS54013-08-18-1994-(2)				SP1	Natural Gravel	Dense	7.5	25	700
Deflections (mils) measured by FWD at various radial distances (in)							RMS Error (%)	Backcalculated Moduli (ksi)		
0	8	12	18	24	36	60		AC	Granular	Roadbed
9.13	6.89	5.55	4.14	3.23	2.17	1.29	1.80	341.2	46.8	28.4
8.58	6.01	4.59	3.32	2.48	1.51	0.85	1.22	310.1	46.2	41.9
10.49	7.66	6.07	4.52	3.47	2.20	1.07	2.28	346.7	31.1	31.2
10.69	7.51	5.88	4.35	3.33	2.17	1.14	1.40	279.9	36.7	30.3
9.52	6.79	5.39	4.07	3.15	2.07	1.07	1.79	342.7	40.0	31.9
9.69	6.83	5.34	3.93	3.11	1.99	1.04	1.89	310.9	40.5	32.8
9.81	7.32	5.96	4.43	3.51	2.25	1.13	1.84	399.1	33.4	30.0
9.25	6.88	5.56	4.23	3.34	2.23	1.20	1.17	390.6	40.7	29.1
9.20	7.05	5.78	4.48	3.62	2.51	1.51	1.03	372.7	49.2	24.1
9.65	7.19	5.70	4.20	3.23	2.04	1.02	1.70	383.6	33.2	33.3
9.73	7.36	5.86	4.36	3.34	2.06	0.99	1.76	421.3	29.4	33.7
9.08	6.71	5.33	3.91	3.04	1.93	1.01	1.15	378.4	38.5	34.2
9.55	7.33	5.85	4.42	3.44	2.21	1.10	1.83	429.2	32.4	30.8

Table 4.11 A summary of the backcalculated granular layer modulus for flexible pavements (two – layered system)

FWD File Details			Depth to Stiff Layer (in)	No. of Tests	No. of Tests Converged	Avg. RMS Error (%)	Average Backcalculated Modulus (ksi)		
Region	Road	File Name					AC	Granular	Road-bed
Bay	M-57	flex-B-M57-CS29022-01-28-1993	700	134	65	1.41	269	26	26
Bay	M-57	flex-B-M57-CS29022-08-30-1994	700	66	43	1.41	279	27	26
Bay	M-57	flex-B-M57-CS29022-08-30-1994-(2)	700	66	41	1.39	279	27	26
Bay	M-57	flex-B-M57-CS29022-08-30-1994-(3)	700	67	25	1.70	266	28	29
Bay	M-57	flex-B-M57-CS29022-08-30-1994-(4)	700	67	24	1.69	266	28	30
Bay	M-84	flex-B-M84-CS9011-05-17-2005	300	39	30	1.07	1058	25	19
Bay	M-84	flex-B-M84-CS9011-05-17-2005-(2)	400	69	52	1.15	1224	23	20
Bay	M-84	flex-B-M84-CS9011-09-11-2005	160	32	30	1.40	2959	47	20
Bay	M-84	flex-B-M84-CS9011-09-13-2005-(2)	250	16	16	0.91	774	32	27
Bay	M-84	flex-B-M84-CS9011-10-03-2005	200	16	8	1.52	413	36	22
Bay	M-84	flex-B-M84-CS9011-10-10-2005	275	16	16	0.97	1179	35	26
Grand	M-120	flex-G-M120-CS61012-07-23-1998	700	74	28	1.43	192	29	19
Grand	M-120	flex-G-M120-CS61012-07-24-1998	700	74	28	1.43	192	29	19
Grand	M-20	flex-G-M20-CS54041-04-09-2002	700	68	48	1.09	593	24	26
Grand	M-37	flex-G-M37-CS62032-05-18-2000	700	40	25	1.28	433	21	21
Grand	M-57	flex-G-M57-CS41122-8-23-1994	700	108	81	1.20	2447	44	29
Grand	M-57	flex-G-M57-CS59021-08-23-1994	700	53	40	1.21	2756	43	30
Grand	M-57	flex-G-M57-CS59021-08-23-1994-(2)	700	53	43	1.27	2680	44	30
Grand	M-57	flex-G-M57-CS59021-08-23-1994-(3)	700	54	34	1.32	2658	44	32
Grand	M-57	flex-G-M57-CS59021-08-23-1994-(4)	700	53	33	1.27	2664	44	29
Grand	M-57	flex-G-M57-CS29021-5-23-1995	200	83	61	1.28	2331	38	23
Grand	US-131	flex-G-US131-CS54013-08-18-1994	700	65	64	0.89	311	70	30
Grand	US-131	flex-G-US131-CS54013-08-18-1994-(2)	700	32	16	1.49	373	38	31
Grand	US-131	flex-G-US131-CS54013-08-18-1994-(3)	700	65	47	1.51	355	38	28

Table 4.11 (Cont'd)

FWD File Details			Depth to Stiff Layer (in)	No. of Tests	No. of Tests Converged	Avg. RMS Error (%)	Average Backcalculated Modulus (ksi)		
Region	Road	File Name					AC	Granular	Road-bed
Grand	US-131	flex-G-US131-CS54013-08-18-1994-(4)	700	33	18	1.15	352	38	31
Grand	US-131	flex-G-US131-CS54013-08-18-1994-(5)	700	33	18	1.52	352	38	31
Grand	US-131	flex-G-US131-CS54014-05-13-1998	700	181	130	1.26	937	31	34
Grand	US-131	flex-G-US131-CS59012-06-25-1998	700	25	20	1.46	530	38	29
Metro	I-94	flex-M-I94-CS77111-04-02-2008	100	29	5	1.78	1938	12	5
Metro	M-53	flex-M-M53-CS50015-02-27-2009	300	13	13	0.65	1511	7	25
Metro	M-53	flex-M-M53-CS50015-03-06-2009	300	13	13	0.95	979	9	24
Metro	M-53	flex-M-M53-CS50015-03-09-2009	300	13	13	0.84	1350	9	25
Metro	M-53	flex-M-M53-CS50015-03-13-2009	300	13	13	0.83	1413	9	24
Metro	M-53	flex-M-M53-CS50015-04-04-2008	300	10	8	1.07	1122	16	22
Metro	M-53	flex-M-M53-CS50015-04-09-2009	300	13	11	1	553	11	23
North	I-75	flex-N-I75-CS69014-08-03-1999	700	90	62	1.34	460	49	31
North	I-75	flex-N-I75-CS69014-08-03-1999-(2)	700	90	61	1.36	516	55	40
North	I-75	flex-N-I75-CS69014-08-04-1999	700	92	65	1.36	364	49	30
North	I-75	flex-N-I75-CS69014-08-04-1999-(2)	700	111	63	1.53	441	53	40
North	I-75	flex-N-I75-CS69014-11-12-1997	700	97	61	1.09	1073	37	30
North	I-75	flex-N-I75-CS69014-11-23-1997	700	93	71	1.09	977	38	31
North	M-55	flex-N-M55-CS77022-8-20-2001-(2)	700	76	35	1.74	250	30	23
North	US-131	flex-N-US131-CS67017-05-01-2002	700	93	79	0.63	1696	27	23
North	US-23	flex-N-US23-CS1052-06-03-2008	200	11	6	1.77	1293	62	16
North	US-23	flex-N-US23-CS4032-06-03-2008	150	11	9	1.49	2127	60	14
North	US-23	flex-N-US23-CS71073-06-04-2008	700	11	11	0.91	552	31	21
North	US-23	flex-N-US23-CS71073-06-04-2008-(2)	300	11	8	1.60	2175	63	24

Table 4.11 (Cont'd)

FWD File Details			Depth to Stiff Layer (in)	No. of Tests	No. of Tests Converged	Avg. RMS Error (%)	Average Backcalculated Modulus (ksi)		
Region	Road	File Name					AC	Granular	Road-bed
Superior	I-75	flex-Su-I75-CS49025-05-22-2008	150	11	4	1.41	784	35	55
Superior	M-28	flex-Su-M28-CS17061-05-22-2008	700	10	10	0.66	2256	23	22
Superior	M-28	flex-Su-M28-CS75061-05-21-2008	700	11	11	0.65	1720	27	21
Superior	M-38	flex-Su-M38-CS66042-05-20-2008	350	11	7	1.74	1569	31	18
Superior	US-141	flex-Su-US141-CS7022-05-19-2008	700	13	12	1.10	1075	17	21
Superior	US-2	flex-Su-US2-CS27022-05-20-2008	250	11	7	1.47	973	45	21
Superior	US-2	flex-Su-US2-CS75021-05-22-2008	300	11	10	1.28	3988	60	21
Superior	US-41	flex-Su-US41-CS7013-05-19-2008	150	11	11	1.28	2060	30	11
University	M-52	flex-U-M52-CS33051-11-13-2002	250	44	39	1.14	777	24	24

Table 4.12 A summary of the backcalculated granular layer modulus for flexible pavements (three – layered system)

FWD File Information			Depth to Stiff Layer (in)	No. of Tests	No. of Tests Converged	Avg. RMS Error (%)	Average Backcalculated Modulus (ksi)			
Region	Road	File Name					AC	Base	Sub-base	Road-bed
Bay	M-57	flex-B-M57-CS29022-01-28-1993	700	134	65	1.16	261	26	26	26
Bay	M-57	flex-B-M57-CS29022-08-30-1994	700	66	60	1.12	275	27	27	26
Bay	M-57	flex-B-M57-CS29022-08-30-1994-(2)	700	66	54	1.09	287	27	27	26
Bay	M-57	flex-B-M57-CS29022-08-30-1994-(3)	700	67	55	1.10	284	28	28	26
Bay	M-57	flex-B-M57-CS29022-08-30-1994-(4)	700	67	60	1.12	274	25	28	26
Bay	M-84	flex-B-M84-CS9011-05-17-2005	300	39	39	0.67	858	37	22	19
Bay	M-84	flex-B-M84-CS9011-05-17-2005-(2)	400	69	69	0.68	987	38	22	20
Bay	M-84	flex-B-M84-CS9011-09-11-2005	160	32	32	1.23	2275	82	41	20
Bay	M-84	flex-B-M84-CS9011-09-13-2005-(2)	250	16	16	0.51	670	38	31	27
Bay	M-84	flex-B-M84-CS9011-10-03-2005	200	16	8	1.14	372	38	35	22
Bay	M-84	flex-B-M84-CS9011-10-10-2005	275	16	16	0.48	977	46	33	26
Grand	M-120	flex-G-M120-CS61012-07-23-1998	700	74	68	1.10	180	30	31	19
Grand	M-120	flex-G-M120-CS61012-07-24-1998	700	74	68	1.10	180	30	31	19
Grand	M-20	flex-G-M20-CS54041-04-09-2002	700	68	58	0.71	516	33	26	26
Grand	M-37	flex-G-M37-CS62032-05-18-2000	700	40	35	0.96	401	26	50	18
Grand	M-57	flex-G-M57-CS41122-8-23-1994	700	108	78	0.77	2088	52	38	30
Grand	M-57	flex-G-M57-CS59021-08-23-1994	700	53	40	0.80	2571	45	46	30
Grand	M-57	flex-G-M57-CS59021-08-23-1994-(2)	700	53	43	0.84	2509	44	47	30
Grand	M-57	flex-G-M57-CS59021-08-23-1994-(3)	700	54	34	0.85	2558	41	54	28
Grand	M-57	flex-G-M57-CS59021-08-23-1994-(4)	700	53	33	0.72	2382	49	46	29
Grand	M-57	flex-G-M57-CS29021-5-23-1995	200	83	80	0.96	2157	41	41	23
Grand	US-131	flex-G-US131-CS54013-08-18-1994	700	65	63	0.72	326	58	34	28
Grand	US-131	flex-G-US131-CS54013-08-18-1994-(2)	700	32	22	1.05	334	48	38	31

Table 4.12 (Cont'd)

FWD File Information			Depth to Stiff Layer (in)	No. of Tests	No. of Tests Converged	Avg. RMS Error (%)	Average Backcalculated Modulus (ksi)			
Region	Road	File Name					AC	Base	Sub-base	Road-bed
Grand	US-131	flex-G-US131-CS54013-08-18-1994-(3)	700	65	64	0.76	319	53	34	28
Grand	US-131	flex-G-US131-CS54013-08-18-1994-(4)	700	33	23	1.12	330	49	38	31
Grand	US-131	flex-G-US131-CS54013-08-18-1994-(5)	700	33	24	1.12	330	49	38	31
Grand	US-131	flex-G-US131-CS54014-05-13-1998	700	181	106	0.90	972	13	169	30
Grand	US-131	flex-G-US131-CS59012-06-25-1998	700	25	22	1.24	543	33	62	29
Metro	I-94	flex-M-I94-CS77111-04-02-2008	100	29	0	0.00	NA	NA	NA	NA
Metro	M-53	flex-M-M53-CS50015-02-27-2009	300	13	NA	NA	NA	NA	NA	NA
Metro	M-53	flex-M-M53-CS50015-03-06-2009	300	13	NA	NA	NA	NA	NA	NA
Metro	M-53	flex-M-M53-CS50015-03-09-2009	300	13	NA	NA	NA	NA	NA	NA
Metro	M-53	flex-M-M53-CS50015-03-13-2009	300	13	NA	NA	NA	NA	NA	NA
Metro	M-53	flex-M-M53-CS50015-04-04-2008	300	10	NA	NA	NA	NA	NA	NA
Metro	M-53	flex-M-M53-CS50015-04-09-2009	300	13	NA	NA	NA	NA	NA	NA
North	I-75	flex-N-I75-CS69014-08-03-1999	700	90	88	1.09	440	56	50	31
North	I-75	flex-N-I75-CS69014-08-03-1999-(2)	700	90	86	1.26	549	39	86	36
North	I-75	flex-N-I75-CS69014-08-04-1999	700	92	90	1.07	354	52	47	30
North	I-75	flex-N-I75-CS69014-08-04-1999-(2)	700	111	76	1.32	472	47	68	36
North	I-75	flex-N-I75-CS69014-11-12-1997	700	97	62	0.76	968	47	58	30
North	I-75	flex-N-I75-CS69014-11-23-1997	700	93	75	0.73	1043	31	77	31
North	M-55	flex-N-M55-CS77022-8-20-2001-(2)	700	76	73	1.17	279	14	59	20
North	US-131	flex-N-US131-CS67017-05-01-2002	700	93	79	0.36	1506	49	27	23
North	US-23	flex-N-US23-CS1052-06-03-2008	200	11	8	1.65	1068	72	58	17

Table 4.12 (Cont'd)

FWD File Information			Depth to Stiff Layer (in)	No. of Tests	No. of Tests Converged	Avg. RMS Error (%)	Average Backcalculated Modulus (ksi)			
Region	Road	File Name					AC	Base	Sub-base	Road-bed
Grand	US-131	flex-G-US131-CS54013-08-18-1994-(3)	700	65	64	0.76	319	53	34	28
North	US-23	flex-N-US23-CS4032-06-03-2008	150	11	8	1.00	1184	174	43	13
North	US-23	flex-N-US23-CS71073-06-04-2008	700	11	11	0.45	461	49	35	21
North	US-23	flex-N-US23-CS71073-06-04-2008-(2)	300	11	9	1.00	1108	218	37	25
Superior	I-75	flex-Su-I75-CS49025-05-22-2008	150	11	6	0.88	761	41	55	54
Superior	M-28	flex-Su-M28-CS17061-05-22-2008	700	10	10	0.39	1831	54	18	22
Superior	M-28	flex-Su-M28-CS75061-05-21-2008	700	11	11	0.41	1366	56	21	22
Superior	M-38	flex-Su-M38-CS66042-05-20-2008	350	11	11	0.67	920	57	25	18
Superior	US-141	flex-Su-US141-CS7022-05-19-2008	700	13	13	0.59	807	29	14	21
Superior	US-2	flex-Su-US2-CS27022-05-20-2008	250	11	10	0.82	855	43	33	22
Superior	US-2	flex-Su-US2-CS75021-05-22-2008	300	11	10	0.73	2035	282	30	23
Superior	US-41	flex-Su-US41-CS7013-05-19-2008	150	11	11	1.15	1802	34	30	11
University	M-52	flex-U-M52-CS33051-11-13-2002	250	44	42	0.51	963	7	140	24

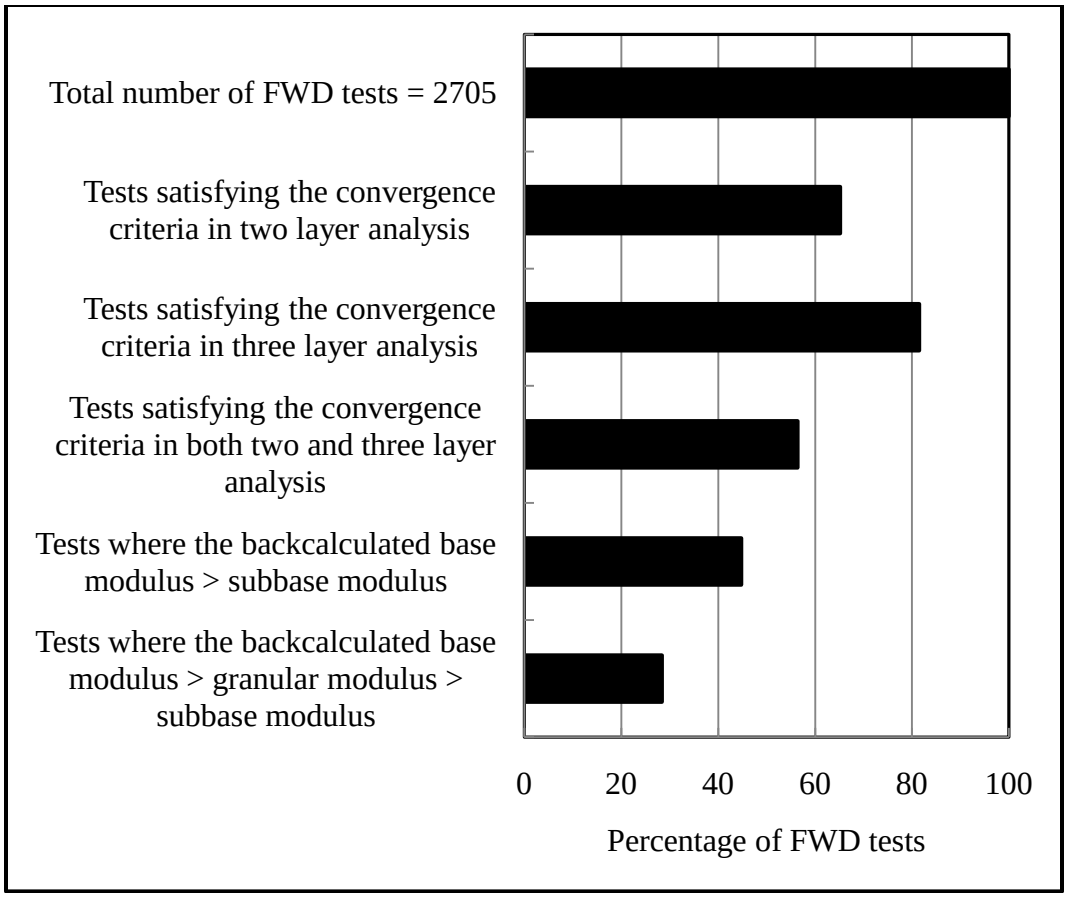

Figure 4.13 A summary of the tests converged in two and three layer analyses

Table 4.13 Statistical summary of the tests converged in two and three layered analyses

Statistics	Tests	Percent
Total number of FWD tests	2705	100
Tests satisfying the convergence criteria in two layer analysis	1763	65
Tests satisfying the convergence criteria in three layer analysis	2204	81
Tests satisfying the convergence criteria in both two and three layer analysis	1525	56
Tests where the backcalculated base modulus > subbase modulus	1212	45
Tests where the backcalculated base modulus > granular modulus > subbase modulus	768	28

Table 4.14 A summary of the average backcalculated moduli using two and three layer analyses for flexible pavements

Material Type	Pavement Layer Moduli for Two Layer System (ksi)		Pavement Layer Moduli for Three Layer System (ksi)		
	Granular Layer	Roadbed	Roadbed	Sand Subbase Layer	Base Layer
Crushed Asphalt - Natural Gravel	35.8	28.7	28.5	41.5	39.6
Crushed Asphalt - Aggregate Base	51.5	35.4	33.7	77.6	50.2
Natural Gravel - Dense Gradation	38.2	28.7	29.7	36.4	71.9
Unknown	29.8	25.0	23.5	55.8	46.3

Indeed, on the average, the results of the two layered system are more reasonable than those of the three layered system. To illustrate, consider the data shown in Figures 4.11 and 4.12 and listed in Table 4.14. It can be seen that:

- For all base types, the average backcalculated modulus values of the roadbed soils from the three layered system are almost the same as that from the two layered system.
- For the crushed asphalt over natural gravel bases, the average backcalculated modulus of the granular layer (two layered system) is reasonable and similar to that of the average backcalculated modulus of the base layer using the three layered system. However, the average backcalculated modulus of the sand subbase (three layered system) is very high and unreasonable.
- For the crushed asphalt over aggregate base, the average of the backcalculated modulus value of the sand subbase is greater than the average backcalculated modulus of the base layer, and is unreasonable. The average backcalculated modulus of the granular layer (two layer system) the average backcalculated modulus of the base layer (three layer

system) are similar.

- For the dense natural gravel, the average backcalculated granular layer modulus is reasonable. However, the averages of the backcalculated modulus values of the base and subbase layers (three layered system) are very high and not reasonable.

Some of the reasons of the above observations include:

- The number of unknowns (modulus and Poisson's ratio of each layer) in the three layered system is higher than that of the two layered system. Whereas the number of measured deflections in both systems is the same.
- The uncertainty in the input data especially the layer thicknesses is higher in the three layered system than in the two layered system.

Perhaps, the other way to scrutinize the above observations is to examine the average backcalculated layers and roadbed moduli using the two and three layer systems shown in Figure 4.14. Once again, regardless of the type of the roadbed soils, the averages of the backcalculated modulus values of the roadbed soils using two and three layered systems are almost the same. The data in Figure 4.14 also shows that the backcalculation of the layer moduli based on three layered system produces some high and unreasonable base and subbase moduli. Whereas, for all roadbed soil types, the two layered system, produces reasonable modulus values.

Based on the above observations, one may conclude that the results from the two layered system are more reasonable than those from the three layered system. Hence, the results of the two layered system should be considered first to be used in the flexible and rigid pavement design processes. However, if it is desirable to use different modulus values for the base and subbase layers, additional statistical analysis should be conducted. Results of such analyses are presented below.

Nevertheless, the backcalculated base and subbase moduli where bracketed in certain modulus ranges separated by 10 ksi intervals. The brackets are less than 10 ksi, 10 to 20, 20 to 30, 30 to 40, 40 to 50, 50 to 60, 60 to70, 70 to 80, 80 to 90, 90 to 100, and more than100 ksi. The frequency of the base or subbase modulus value that fall within a modulus bracket was calculated and the data are plotted in Figure 4.15. The backcalculated modulus of the sand subbase varies from about 10 to about 80 ksi. The results are not reasonable and probably not accurate. In the other 25 percent of all tests, the backcalculate base modulus varied from about 50 to about 200 ksi. Certainly, the latter value is not acceptable and not reasonable.

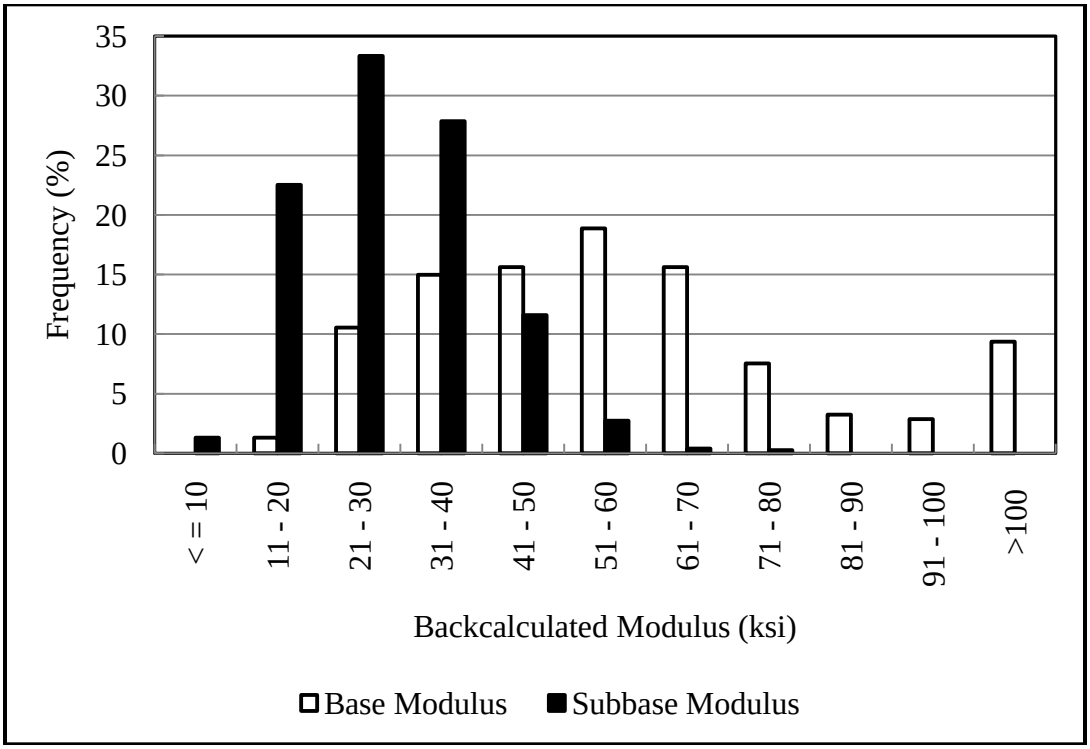

Figure 4.15 Distribution of backcalculated base and subbase moduli (three layered system)

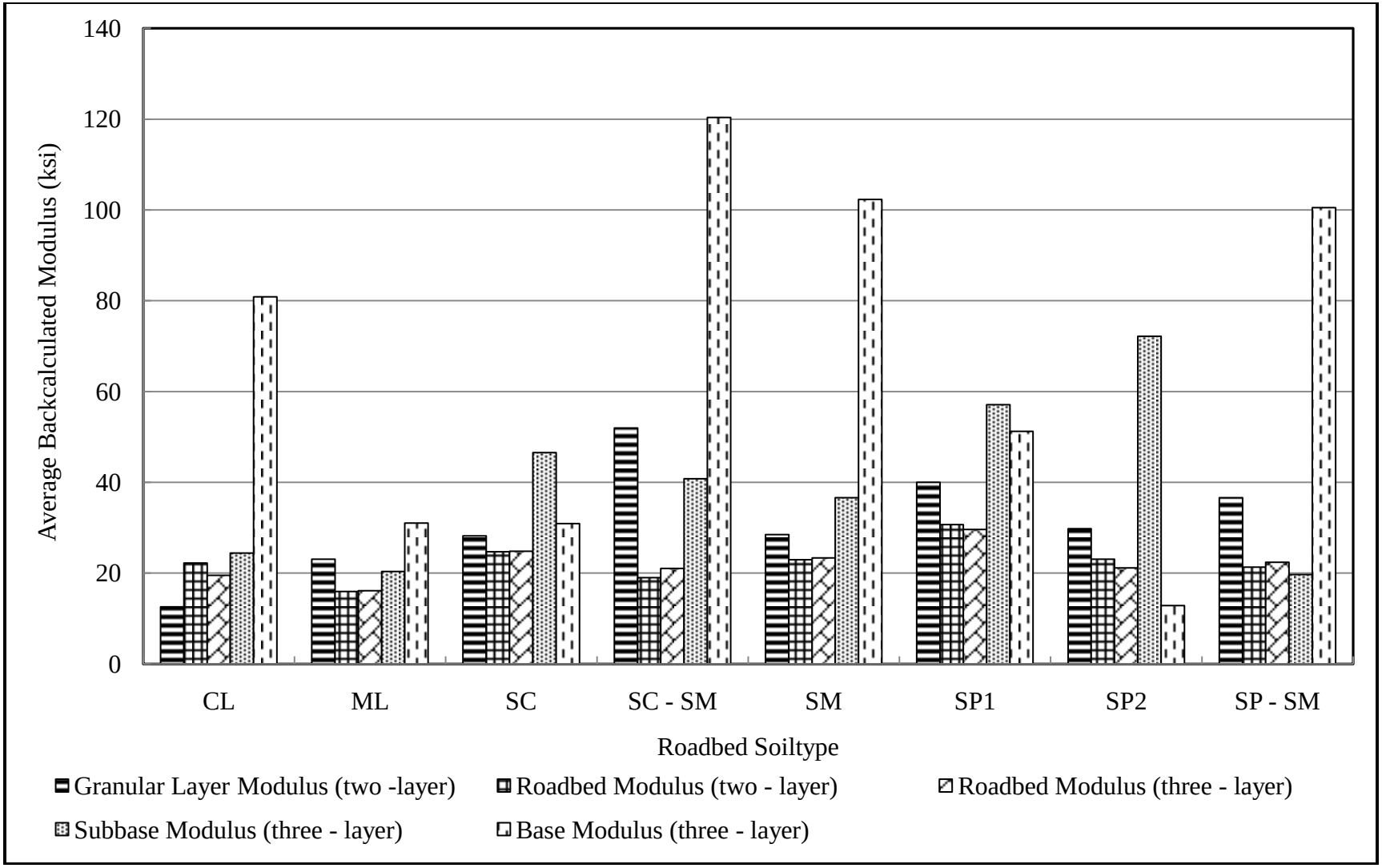

Figure 4.14 Average backcalculated layers and roadbed soil moduli obtained from two and three layered systems for various types of roadbed soils

Case 1 Analysis - Figure 4.16 depicts the distribution of the backcalculated base modulus in flexible pavements using the three layered system. Once again, it can be seen from the figure that more than 70 percent (562 tests) showed a base modulus higher than 40 ksi. Likewise, figure 4.17 shows the distribution of the backcalculated subbase modulus in flexible pavements using the three layered system. The data in the figure indicate that about 15 percent of the test results are higher than 40 ksi. Once again, modulus values of the base and subbase higher than 40 ksi are not acceptable unless information regarding the stability of the materials is known. In the above cases, no information suggests that the bases and subbases were stabilized using asphalt or cement.

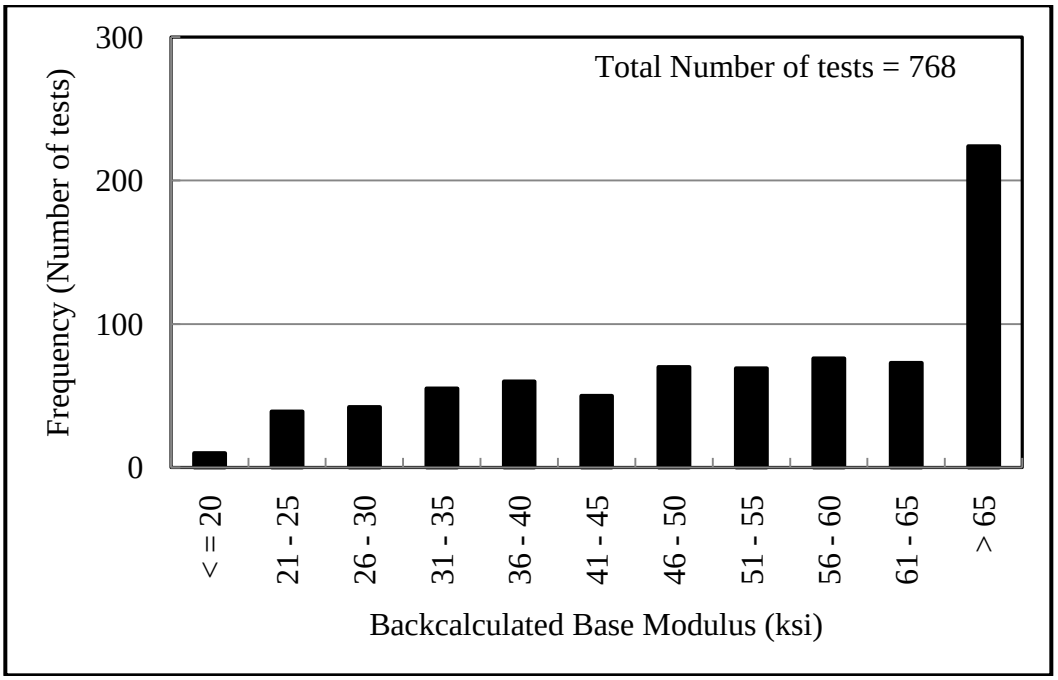

Figure 4.16 Distribution of the backcalculated base moduli of flexible pavements using three layered system, case 1

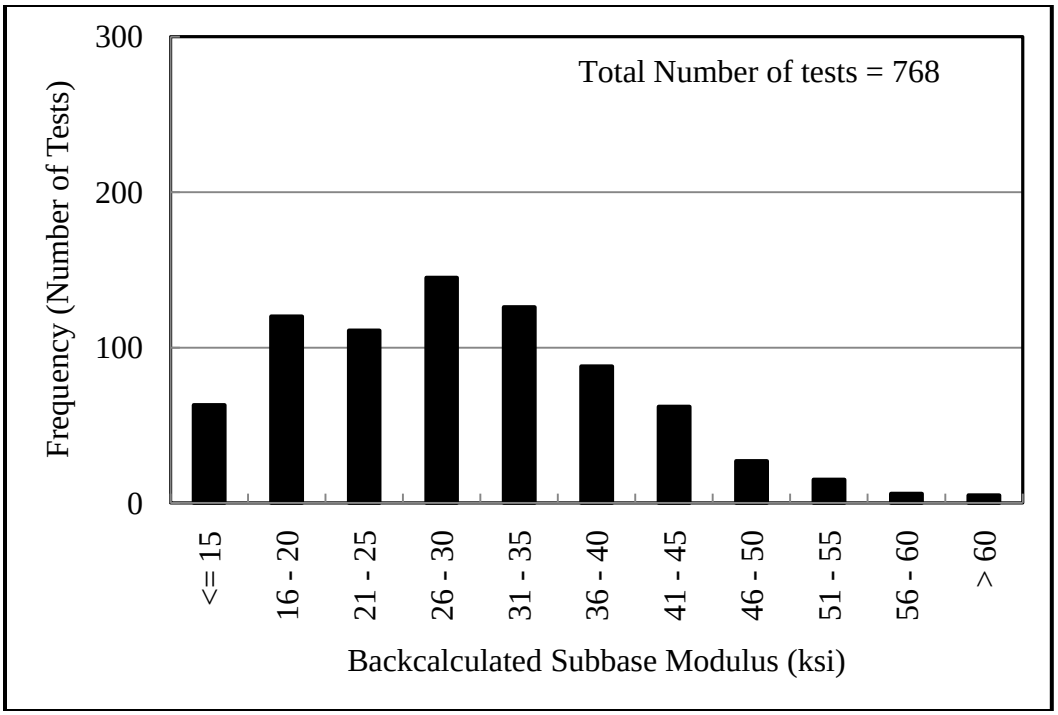

Figure 4.17 Distribution of the backcalculated subbase moduli of flexible pavements using three layered system, case 1

The descriptive statistics, (average, maximum and minimum values, the standard deviation and the 30th percentile modulus value) of the backcalculated base, subbase and roadbed moduli are listed in Table 4.15. Once again, the value of average – 2/3*standard deviation for a normal distribution should be similar to the 30th percentile value. For comparison purposes, similar descriptive statistics are also included for the granular layer and roadbed modulus values obtained from the two layered system. The data in the table show that the maximum, minimum and average roadbed modulus values are similar for both two and three layer system. Another observation is that the minimum, maximum and average modulus values of the granular layer are between the corresponding values of the base and subbase layers of the three layered system. Both observations were expected because the roadbed soils are not influenced much by the applied load due to their depths. On the other hand, the granular layer modulus represents the

combined moduli of the base and subbase layers.

Table 4.15 Descriptive statistics for backcalculated pavement layer moduli for flexible pavements using both two and three layered systems, case 1

Statistics	Backcalculated Pavement Layer Modulus (ksi)				
	Two layer Analysis		Three Layer Analysis		
	Granular Layer	Roadbed	Roadbed	Subbase Layer	Base
Average	34.00	25.95	26.10	28.77	63.49
Maximum	94.23	67.79	67.84	78.54	388.12
Minimum	11.12	7.09	7.34	8.34	16.94
Standard Deviation	12.43	7.54	7.44	10.72	46.13
30^{th} Percentile	26.40	21.34	21.70	22.44	42.84

Case 2 Analysis – In this case, the upper and lower ten percent of the backcalculated resilient modulus values were eliminated from the analyses and considered as outliers. The remaining 80 percent of the data were subjected to further analyses. Figure 4.18 shows the distribution of the backcalculated base modulus values for flexible pavements using the three layered system. The data in the figure shows that the modulus values of about 80% (412) of the test results are more than 40 ksi. Figure 4.19 shows the distribution of the backcalculated subbase layer modulus values for case 2. There are only 49 backcalculated subbase modulus values higher than 40 ksi. Once again, the backcalculated base and subbase modulus values greater than 40 ksi are not acceptable. The descriptive statistics, (average, maximum and minimum modulus values, the standard deviation and the 30^{th} percentile modulus value) for the base, subbase and roadbed modulus and those obtained from the two layered system are listed in Table 4.16. The data in the table shows similar trends as those reported in Table 4.15.

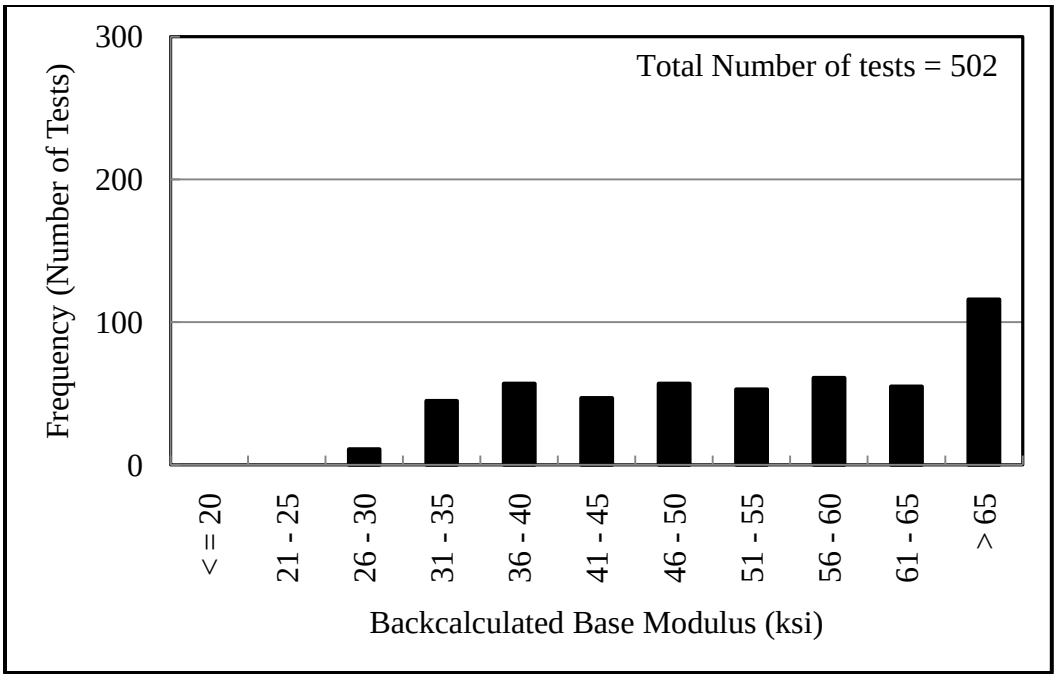

Figure 4.18 Distribution of the backcalculated base moduli of flexible pavements using three layered system after deleting the upper and lower 10 percent of the backcalculated moduli, case 2

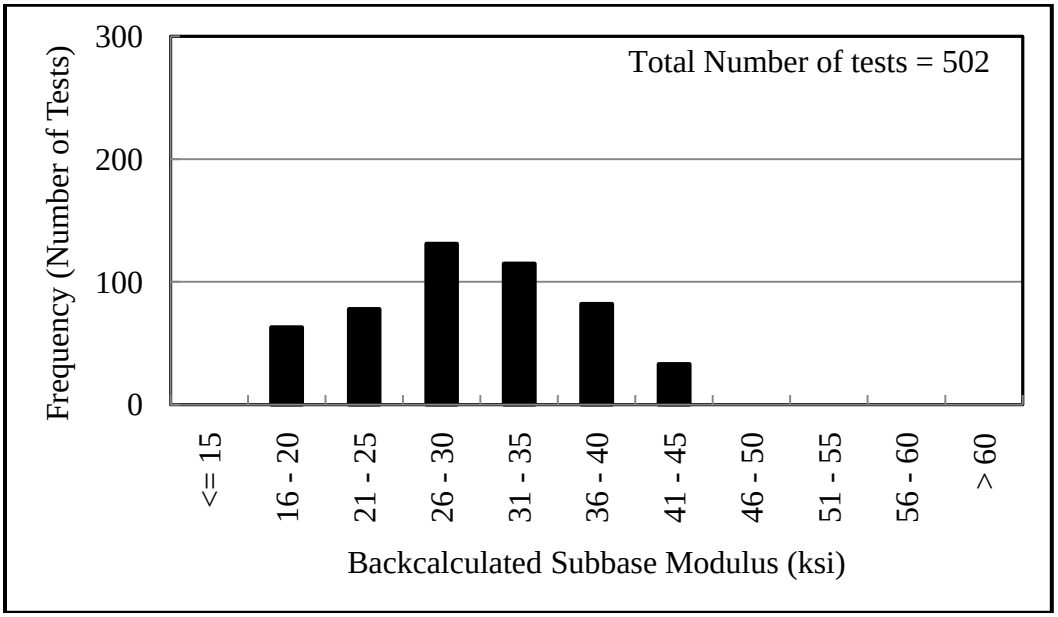

Figure 4.19 Distribution of the backcalculated subbase moduli of flexible pavements using three layered system after deleting the upper and lower 10 percent of the backcalculated moduli, case 2

Table 4.16 Descriptive statistics for backcalculated pavement layer moduli for flexible pavements using both two and three layered systems after deleting the upper and lower 10 percent of the backcalculated moduli, case 2

Statistics	Backcalculated Pavement Layer Modulus (ksi)				
	Two layer Analysis		Three Layer Analysis		
	Granular Layer	Roadbed	Roadbed	Subbase Layer	Base
Average	33.79	26.96	27.02	29.16	54.43
Maximum	67.37	67.79	67.84	42.74	98.37
Minimum	18.73	8.71	8.71	16.02	27.95
Standard Deviation	7.38	7.38	7.29	6.90	16.07
30^{th} Percentile	29.71	23.41	23.55	25.33	44.03

Case 3 Analysis – In this case, the upper and lower twenty percent of the backcalculated resilient modulus values were eliminated from the analyses and considered as outliers. The remaining 60 percent of the data were subjected to further analyses. Figure 4.20 shows the distribution of the backcalculated base modulus values after deleting the upper and lower 20% from the file. The data in the figure shows that about 85% (234) of the backcalculated base modulus values are higher than 40 ksi. Figure 4.21 shows the distribution of the backcalculated subbase layer modulus values for analysis case 3. It can be seen that none of the backcalculated subbase layer modulus values is greater than 40 ksi. These results, as it was expected, are better than those reported for analysis case 1. However, the number of tests has decreased substantially. The descriptive statistics, (average, maximum and minimum modulus values, the standard deviation and the 30^{th} percentile modulus value) for the base, subbase and roadbed modulus and those obtained from the two layered system are listed in Table 4.17. The data in the table shows similar trends as those reported in Table 4.15.

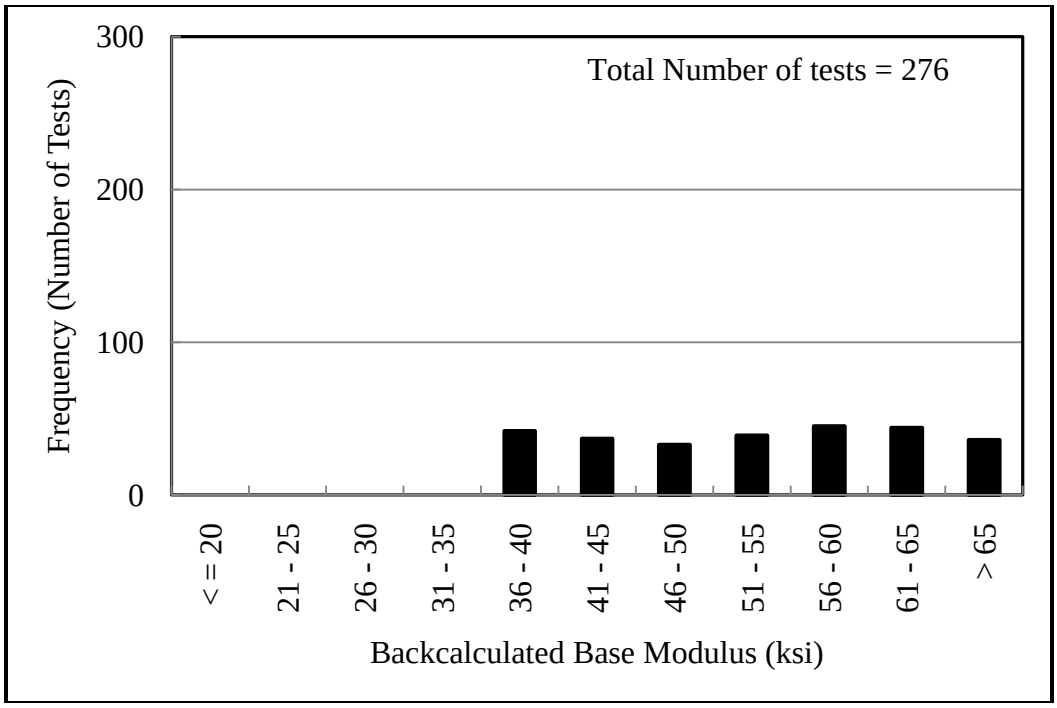

Figure 4.20 Distribution of the backcalculated base moduli of flexible pavements using three layered system after deleting the upper and lower 20 percent of the backcalculated moduli, case 3

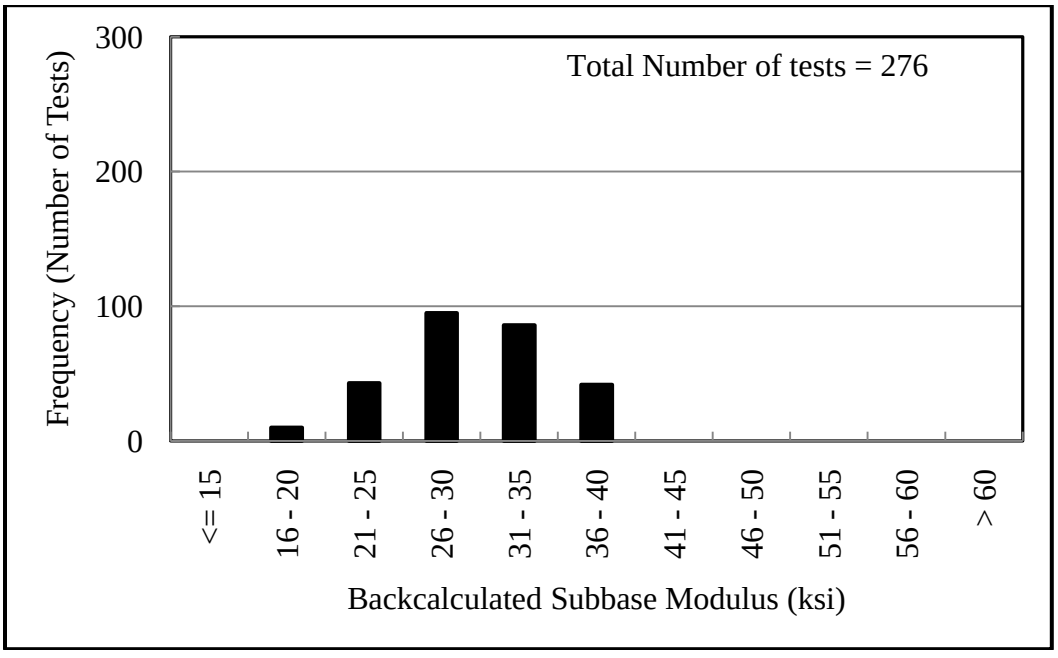

Figure 4.21 Distribution of the backcalculated subbase moduli of flexible pavements using three layered system after deleting the upper and lower 20 percent of the backcalculated moduli, case 3

Table 4.17 Descriptive statistics for backcalculated pavement layer moduli for flexible pavements using both two and three layered systems after deleting the upper and lower 20 percent of the backcalculated moduli, case 3

Statistics	Backcalculated Pavement Layer Modulus (ksi)				
	Two layer Analysis		Three Layer Analysis		
	Granular Layer	Roadbed	Roadbed	Subbase Layer	Base
Average	34.01	27.46	27.55	29.33	52.84
Maximum	48.32	67.79	67.84	37.37	72.43
Minimum	22.10	11.95	11.99	18.93	35.54
Standard Deviation	5.27	7.21	7.06	4.79	10.32
30^{th} Percentile	31.10	23.97	24.23	26.48	45.66

Case 4 Analysis – In this case, all backcalculated base and subbase modulus values less than the 75 percentile were analyzed. The upper 25 percent of the data were considered outliers. It should be noted that for any given FWD test, if the backcalculated moduli from both the base and the subbase were less than the corresponding 75^{th} percentile, the data were included in this case. Otherwise, the data were excluded. The backcalculated layer moduli from 425 tests passed the test and are included in the analysis. The distributions of the backcalculated base and subbase moduli for this case are depicted in Figures 4.22 and 4.23 based on bracket interval of 5 ksi. It can be seen that the backcalculated base modulus value varies from a low of 20 ksi to a high of more than 65 ksi. Likewise, the subbase modulus varies from less than 15 ksi to more than 60 ksi. Table 4.18 summarizes the maximum, minimum, and the average backcalculated modulus values, the standard deviation and 30^{th} percentile modulus values for both two and three layered systems. Examination of the data listed in Table 4.18 indicates that the average backcalculated base modulus for the 75 percentile data slightly high. Hence, the average base, subbase, and granular layer modulus values to be used in the design of flexible pavements was reduced by two thirds of the standard deviation. The recommended values are listed at the bottom part of Table

4.18.

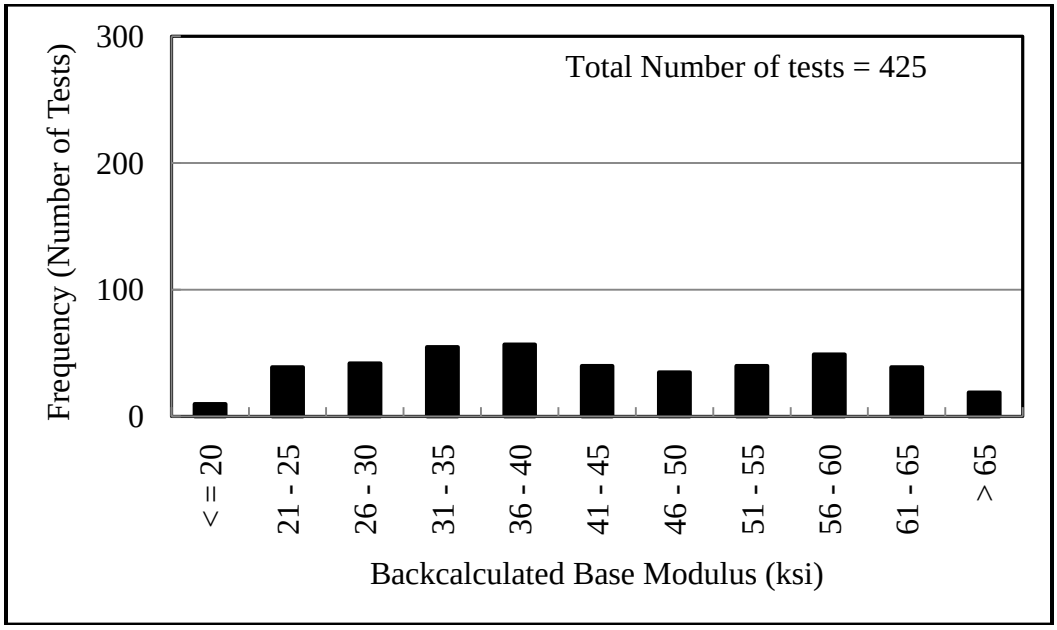

Figure 4.22 Distribution of the backcalculated base moduli of flexible pavements using three layered system for data less than the 75th percentile value of the backcalculated moduli, case 4

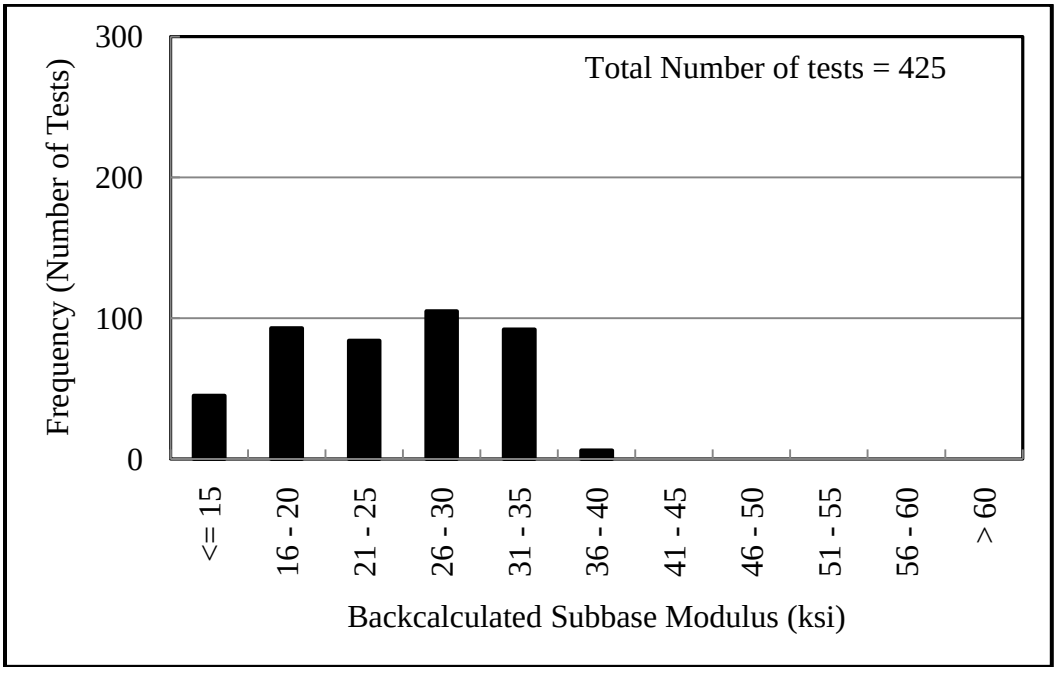

Figure 4.23 Distribution of the backcalculated subbase moduli of flexible pavements using three layered system for data less than the 75th percentile value of the backcalculated moduli, case 4

Table 4.18 Descriptive statistics for backcalculated pavement layer moduli for flexible pavements using both two and three layered systems for all data less than the 75th percentile value of the backcalculated moduli, case 4

Statistics	Backcalculated Pavement Layer Modulus (ksi)				
	Two layer Analysis		Three Layer Analysis		
	Granular Layer	Roadbed	Roadbed	Subbase Layer	Base
Average	27.30	24.51	24.58	23.86	42.68
Maximum	46.44	67.79	67.84	35.85	67.71
Minimum	11.18	8.71	8.71	8.56	16.94
Standard Deviation	7.48	7.27	7.22	6.62	13.78
30th Percentile	23.50	20.30	19.77	19.45	33.49

From the data listed in Tables 4.9 and 4.18, it can be seen that:

- The modulus of the roadbed under flexible and rigid pavements is similar. Hence, it can be concluded that the pavement type (rigid or flexible) did not have much impact on the roadbed modulus.
- The backcalculated granular layer modulus for rigid and flexible pavements is similar, which indicate that the pavement type did not have much impact on the backcalculated granular layer moduli. Nevertheless, further analyses are conducted on the backcalculated granular layer moduli for both flexible and rigid pavements to study the impact of the pavement type and are presented in the next section (4.5).

4.5 IMPACT OF PAVEMENT TYPE ON THE BACKCALCULATED MODULI

As stated earlier, MICHBACK was used to backcalculate the resilient modulus of both rigid and flexible pavements in a two layer pavement system. A total of two thousand nine hundred ninety three (64%) FWD tests conducted on rigid pavements and one thousand seven hundred and sixty three tests (65%) on flexible pavements satisfied the convergence criteria. The backcalculated granular layer moduli for both flexible and rigid pavements follow a similar distribution, as shown in Figure 4.24, which is slightly skewed towards the higher moduli. The granular layer

modulus values varied from 3 to 150 ksi. However, the 75th percentile modulus value of the granular layer under both flexible and rigid pavements is about 50 ksi. Hence, one may conclude that the two sets of data (under rigid and flexible pavements) are similar. Indeed, t-tests at confidence level of 95 percent were conducted on all averages of cases 1 through 4. It was found that the two sets of data of cases 3 and 4 are similar whereas the data for cases 1 and 2 are statistically different. Results of the t-tests are summarized in Table 4.19. Figure 4.25 shows the averages of the backcalculated granular layer modulus, using two layered system, for both flexible and the pavement layer. The data in the figure indicate the average backcalculated granular layer moduli for flexible and rigid pavement correspond very well. It should be noted that, for rigid pavements, the effect of temperature and curling of the PCC slab were not considered during the backcalculation.

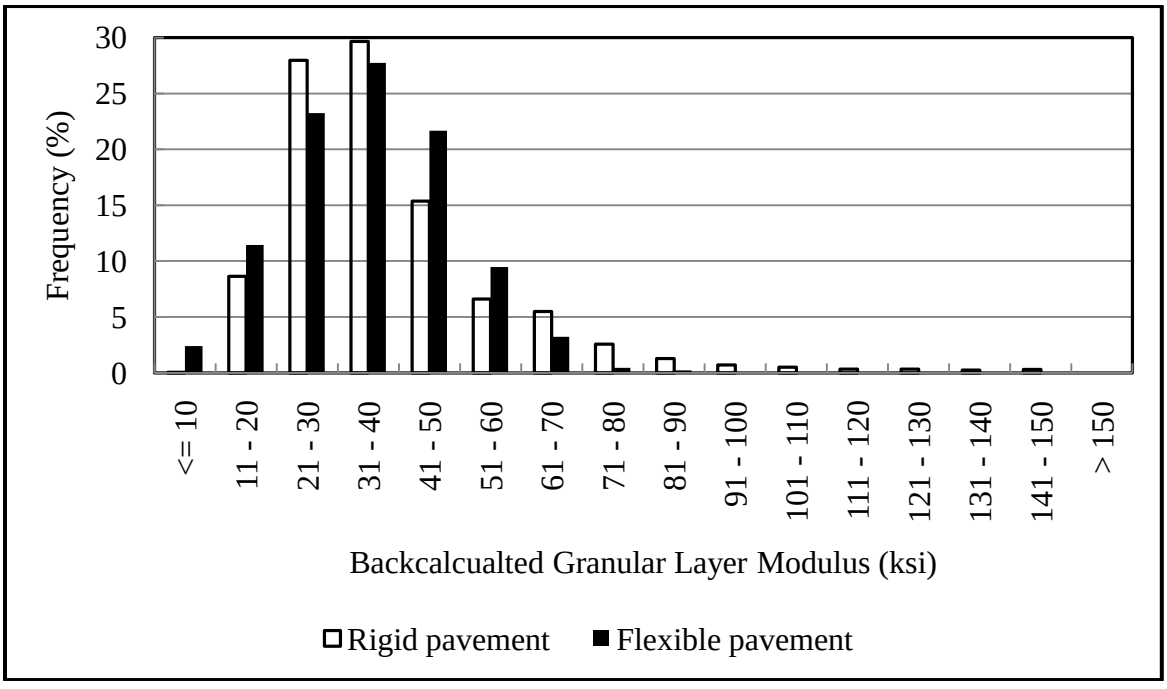

Figure 4.24 Distribution of the backcalculated granular layer moduli

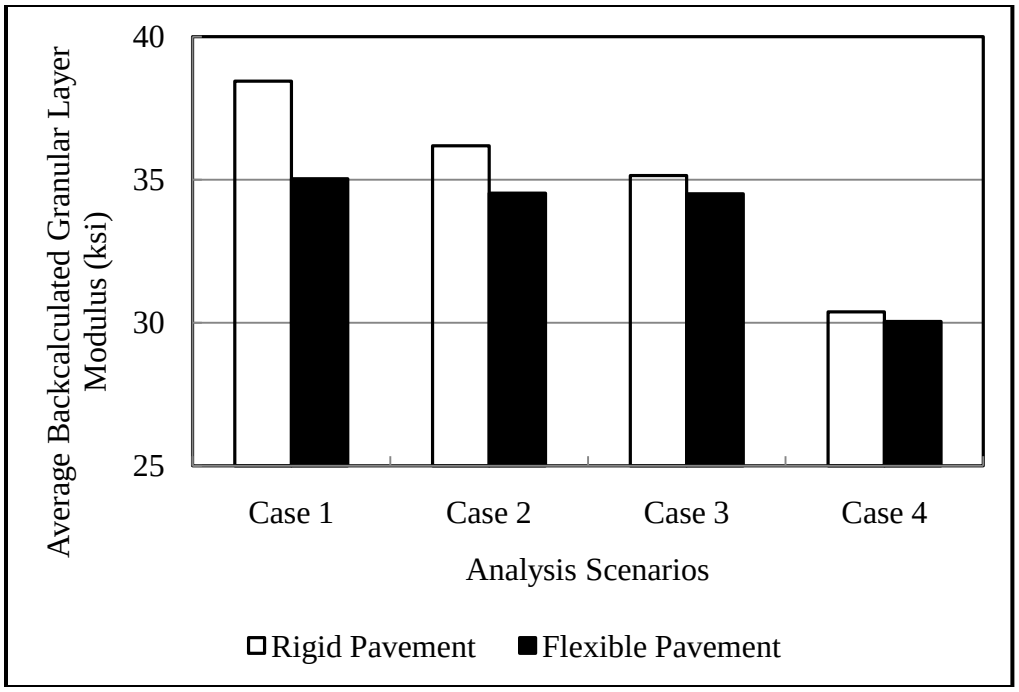

Figure 4.25 Comparison between backcalculated granular layer resilient moduli for flexible and rigid pavements

Table 4.19 A summary of the results of the statistical analysis of backcalculated granular modulus for rigid and flexible pavements

Analysis scenario	Mean difference (psi)	t - statistic	P - value	95% confidence interval for the difference (psi)		Statistically similar?
				Lower	Upper	
Case 1	3407.1	7.098	0.000	2466.0	4348.2	No
Case 2	1645.3	4.415	0.000	914.7	2375.8	No
Case 3	629.7	1.854	0.064	-36.3	1295.7	Yes
Case 4	333.0	0.944	0.345	-358.6	1024.6	Yes

Additionally, for cases 1 and 2, where the means are significantly different, the mean values of the granular layer modulus under flexible and rigid pavements vary between 30 and 40 ksi. The pavement design software DNPS86 of the American Association of State Highway and Transportation Officials (AASHTO) was used to study the impact of the granular layer moduli on the thickness of the PCC slab and the HMA. The results are shown, respectively, in Figures 4.26. The data in Figure 4.26 indicate that the unbound granular layer modulus does not have

much impact on the PCC slab thicknesses. This may be due to the very high modulus of the concrete slab. However, the granular layer modulus has a significant impact on the HMA thickness.

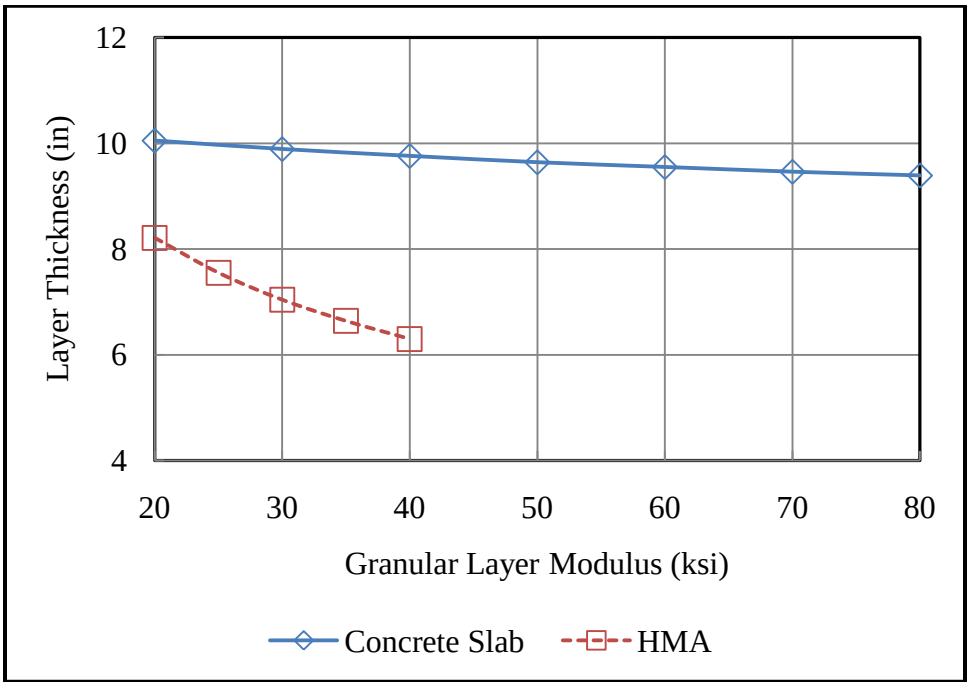

Figure 4.26 Impact of unbound granular layer moduli on the thicknesses of concrete slab and the HMA layer

4.6 IMPACT OF AGGREGATE CHARACTERISTICS ON THE MODULUS OF THE UNBOUND GRANULAR LAYER

Some aggregate characteristics such as type, gradation, angularity and moisture content have a significant impact on the resilient modulus. Some of the commonly used aggregates in Michigan include natural gravel, dolomite, and crushed concrete. The gradation of these aggregates, either open or dense, depends upon the type of pavement and its location. Table 4.20 lists the number of test for each aggregate type that converged in the backcalculation procedure. The angularity and the moisture content of the aggregates used in the unbound granular layer are not known. Therefore, the impact of only the aggregate type and gradation on the unbound granular layer

moduli is analyzed and presented in the next few subsections.

Table 4.20 Number of tests for each aggregate type and gradation

Material Type	Gradation	No of Tests	
		Rigid Pavement	Flexible Pavement
Crushed Concrete	Dense	867	N/A
Dolomite	Open	10	N/A
Natural Gravel	Dense	370	131
	Open	180	N/A
N/A - Not Available			

4.6.1 Aggregate Type

The average of backcalculated resilient moduli for each material type and for the two and three layered analysis and for the four cases are shown in Figures 4.27 through 4.30. The data in the figures indicate that irrespective of the material type, the average backcalculated modulus was found to range from about 30 to about 40 ksi.

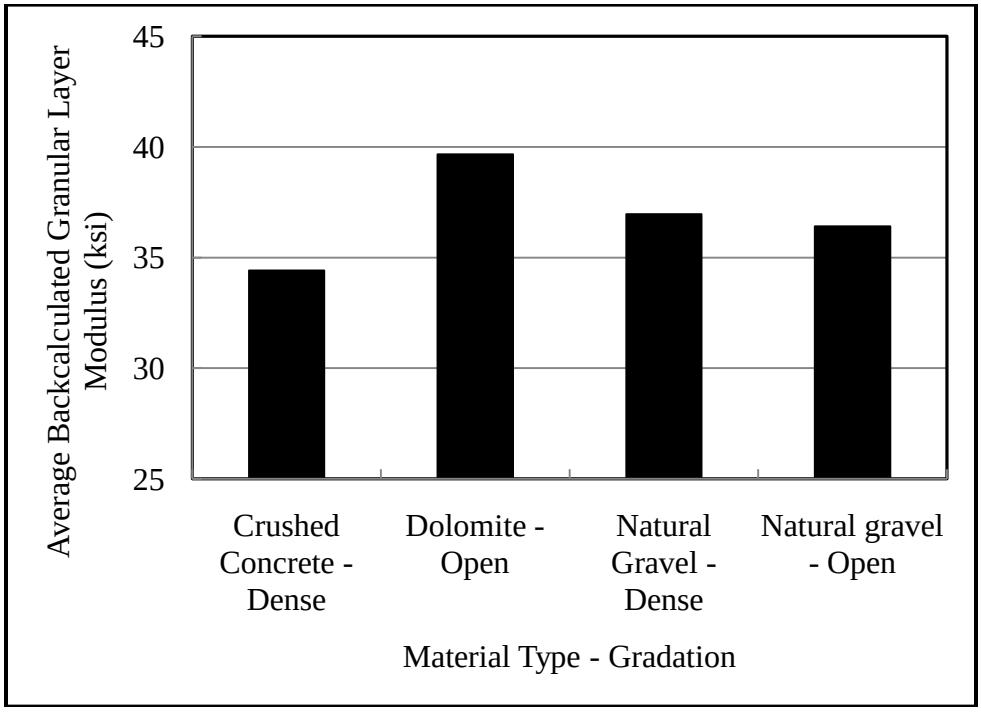

Figure 4.27 Averages of the backcalculated granular layer resilient modulus from two layered system for each material type for all backcalculated moduli data, case 1

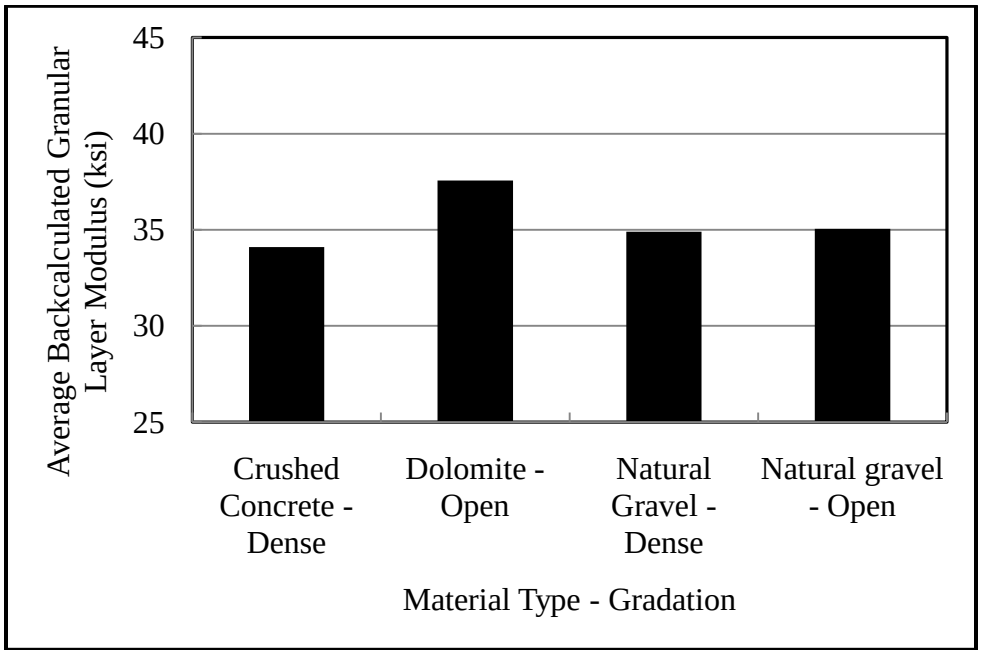

Figure 4.28 Averages of the backcalculated granular layer resilient modulus from two layered system for each material type after deleting the upper and lower 10 percent of the backcalculated moduli, case 2

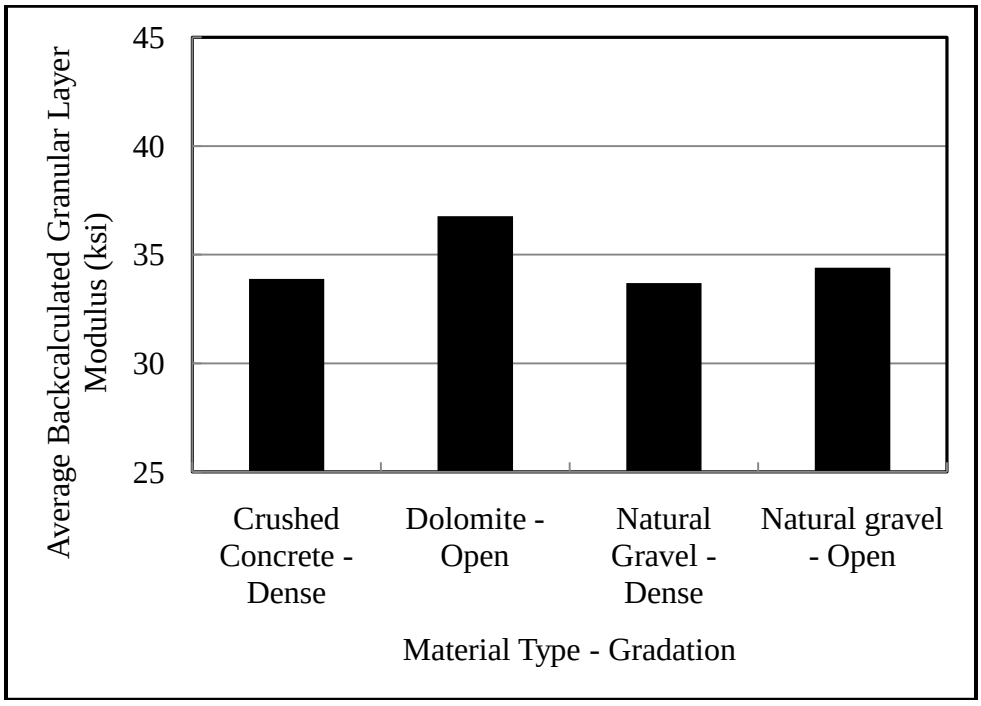

Figure 4.29 Averages of the backcalculated granular layer resilient modulus from two layered system for each material type after deleting the upper and lower 20 percent of the backcalculated moduli, case 3

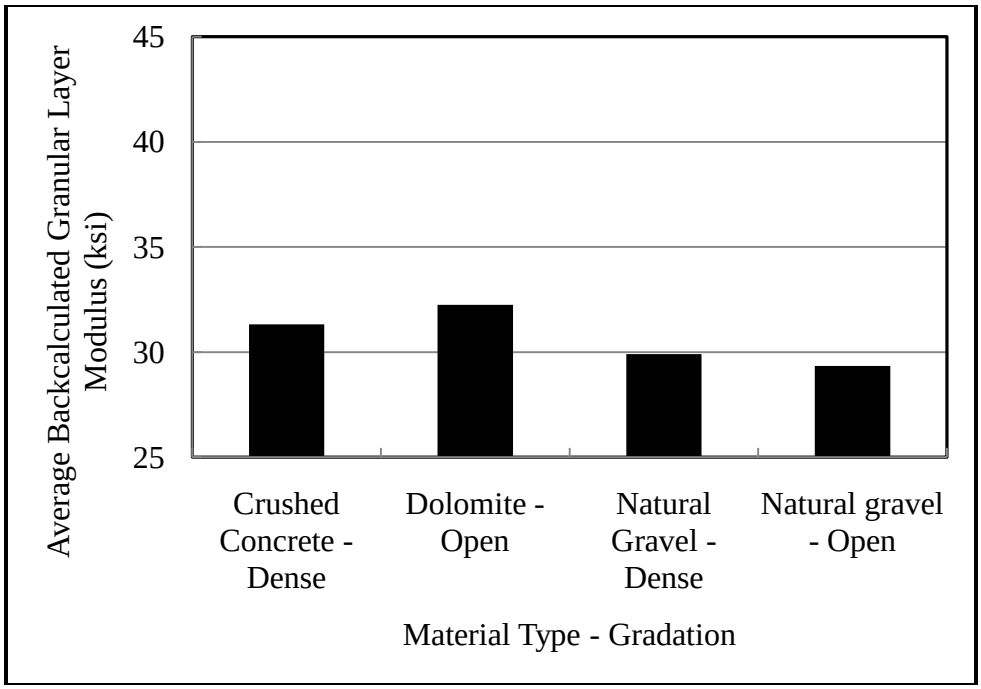

Figure 4.30 Averages of the backcalculated granular layer resilient modulus from two layered system for each material type for moduli less than the 75th percentile value, case 4.

4.6.2 Aggregate Gradation

Granular bases are classified as either open or dense graded. Base layers with an aggregate gradation of 21AA, 21A, 22A are dense graded and 2G and 4G are open graded bases per MDOT specifications. The primary purpose of the open graded base is to provide better drainage facilities and hence is typically referred to as Open Graded Drainable Course (OGDC). The grading requirements for dense (22A) and open (4G) graded aggregates are listed in Table 4.21. In the pavement design process, MDOT typically uses 30 and 24 ksi as the design moduli for dense and open graded bases, respectively. Comparison of the average backcalculated resilient modulus for open and dense graded bases, for all analysis scenarios, is presented in Figure 4.31. The data in the figure indicate that the differences in the means are negligible. An independent sample t-test conducted on the means of the backcalculated granular layer moduli for open and dense graded bases proved that the results are statistically similar. The results of the independent

sample t-test at 95% confidence interval, for all analysis scenarios, are listed in Table 4.22. The data in the table indicate that the aggregate gradation does not have much impact on the backcalculated granular layer modulus.

Table 4.21 Grading requirements for dense and open graded aggregates (MDOT 2003)

Sieve Sizes	Total Percent Passing	
	Dense Gradation (22A)	Open Gradation (4G)
1.5 in		100
1 in	100	
¾ in	90-100	60-80
½ in		35-65
3/8 in	65-85	
No. 4		
No. 8	30-50	10-25
No. 30		5-18
Passing No. 200	4-8	6.0 Max

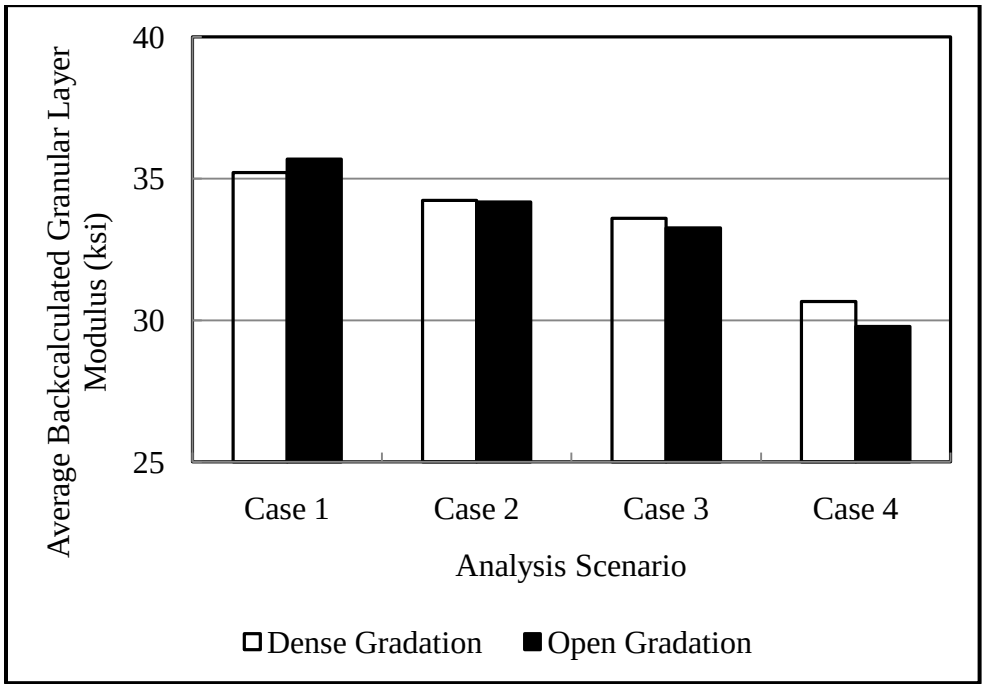

Figure 4.31 Comparison of backcalculated granular layer resilient modulus for dense and open graded bases from two layered pavement system

Table 4.22 Summary of the results of statistical analysis of backcalculated granular moduli for dense and open graded unbound granular layer moduli

Analysis scenario	Mean difference (psi)	t - statistic	P - value	95% confidence interval for the difference (psi)		Statistically similar?
				Lower	Upper	
Case a	-1230.7	-1.079	0.282	-3477.9	1016.5	Yes
Case b	-788.8	-0.910	0.364	-2500.0	922.4	Yes
Case c	-716.0	-1.000	0.319	-2133.2	701.3	Yes
Case d	1320.0	1.748	0.082	-171.9	2813.9	Yes

4.7 COMPARISON BETWEEN LABORATORY AND BACKCALCULATED GRANULAR LAYER MODULI

Some of the most commonly used aggregate in the granular layer include crushed concrete, natural gravel, and dolomite. As stated earlier, the results from the laboratory tests conducted on unbound granular materials by researchers at the Michigan Technological University were used to compare the laboratory measured and the backcalculated modulus values. The resilient modulus of the granular materials is stress dependent. For a given interstate pavement section in the State of Michigan, the estimated principal stresses (vertical and radial) at the center of 6–inch base layer due to a 9000-pound (one side of a standard single axle load) are 12 and 2 psi respectively. Since some of the laboratory tests were not conducted at the same stress boundary conditions, the laboratory modulus corresponding to principal stresses of 12 and 3 psi only were used for comparison purposes. The mean of the laboratory determined moduli for each aggregate type is presented in Figure 4.32. Statistical t-tests were conducted on all means using 95% confidence level. The results indicate that the laboratory determined aggregate base modulus values except those for the dolomite aggregate, are statistically similar and represent similar population.

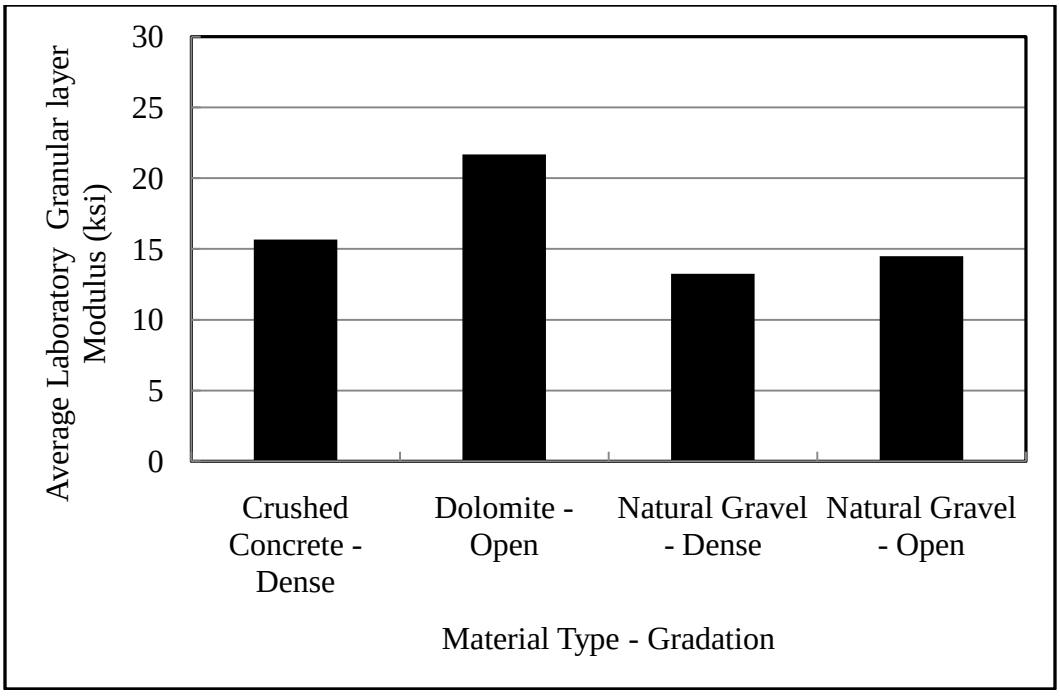

Figure 4.32 Laboratory measured resilient modulus of various granular materials

For flexible pavements in three layered system, the average of 120 backcalculated modulus values of dense graded natural gravel base layer of the four analyses cases and the average laboratory determined dense graded natural gravel base modulus are listed in Table 4.23. It should be noted that MTU conducted laboratory tests on different aggregate types, however, in this study, information regarding one aggregate type only were available. Hence, the laboratory determined and the backcalculated modulus values for one aggregate type are listed in Table 4.23. The data in the table indicate that the average backcalculated modulus value is about 4 to 5 times higher than the laboratory obtained value depending on the analysis case. This was expected although the ratio is slightly higher than the 2 to 3 reported in the literature. One reason for the slightly higher ratio is that the FWD tests; were dense natural gravel was and still is the base material, were conducted in Grand region only. The source from which MTU obtained their aggregate is stated in their report as from selected quarries. Nevertheless, no additional

information regarding the type of aggregate base are available to compare the backcalculated and the laboratory determined modulus value. Further, Table 4.24 provides a list of the averages of the granular layer modulus obtained from 2-layered system analysis and the average laboratory modulus of the base. The ratios between the two sets of data vary from 2.2 to 2.4 depending on the analysis case. These ratios are more or less parallel to those reported in the next section (Table 4.25) for rigid pavements.

Table 4.23 Summary of backcalculated and laboratory determined base layer modulus for flexible pavement

Material Type	Average backcalculated Modulus (ksi)	Average Laboratory Modulus (ksi)	Ratio of Backcalculated and Laboratory Modulus
Case 1	67.0	13.3	5.1
Case 2	65.5	13.3	4.9
Case 3	59.2	13.3	4.5
Case 4	57.8	13.3	4.4
Average			4.75

Table 4.24 A summary of backcalculated and laboratory determined granular layer modulus for flexible pavements

Analysis Cases	Average backcalculated Modulus (ksi)	Average Laboratory Modulus (ksi)	Ratio of Backcalculated and Laboratory Modulus
Case 1	32.2	13.3	2.4
Case 2	31.6	13.3	2.4
Case 3	29.8	13.3	2.3
Case 4	28.7	13.3	2.2

A typical cross section of rigid pavement consists of a concrete slab, very thin aggregate base (4-6 inches) and a thick sand subbase (9 – 24 inches) supported by roadbed soil. Because of the thickness ratio, the modulus of the subbase layer tends to have larger role on pavement response

to load than the base layer. Hence, the modulus of the subbase controls the composite modulus of all materials between the concrete slab and the roadbed soils; the base layer has insignificant impact on the granular layer modulus. Having said that and recall that all backcalculation of the layer moduli for rigid pavements were conducted using the two layered system, the backcalculated granular layer modulus represents the composite modulus of the base and subbase layers combined. Hence, if the backcalculated granular layer modulus is compared to the laboratory determined modulus of the base layer, one should expect the ratio between the two modulus values to be similar to those reported in Table 4.25 for flexible pavements. Such comparison was conducted and the results are listed in Table 4.26.

Table 4.25 Comparison of the backcalculated granular layer modulus with laboratory determined base modulus for all analyses cases.

Material Type	Gradation	Average Laboratory Modulus (ksi)	Average Backcalculated Modulus for all analyses cases (ksi)				Ratio of Backcalculated and Laboratory Modulus for all analyses cases			
			1	2	3	4	1	2	3	4
Natural Gravel	Dense	13.3	36.5	33.8	32.3	27.9	2.8	2.6	2.4	2.1
Natural Gravel	Open	14.5	36.4	35.1	34.4	29.3	2.5	2.4	2.4	2.0
Dolomite	Open	21.7	39.7	37.6	36.8	32.3	1.8	1.7	1.7	1.5
Crushed Concrete	Dense	15.7	34.4	34.1	33.9	31.3	2.2	2.2	2.2	2.0
Average ratio							2.3	2.2	2.2	1.9

4.8 EQUIVALENT GRANULAR LAYER RESILIENT MODULUS

In general, a typical flexible pavement section consists of a surface (HMA) layer, base layer, and subbase layer supported by the roadbed soil. Most DOTs including MDOT specifies the aggregate type, gradation and density and other requirements in its construction proposals.

Occasionally, most of the DOT's including the MDOT use a form of Equation 4.1 to convert the base and subbase modulus into an equivalent granular layer modulus, which can also be referred to as the weighted average modulus.

$$E_g = \frac{(T_b)(E_b)+(T_{sb})(E_{sb})}{T_b + T_{sb}} \qquad \text{Equation 4.1}$$

Where, E_g = equivalent granular layer modulus (psi)

T_b = thickness of base layer (in)

E_b = modulus of the base layer (psi)

T_{sb} = thickness of the subbase layer (in)

E_{sb} = modulus of the subbase layer (psi)

At the outset, it should be noted that, in general, the modulus of the granular layer (the composite modulus of the base and subbase layers) should be less than the base layer and greater than the subbase layer. This scenario was true for all of the backcalculated moduli in this study.

Recall that, in this study, the deflection data measured along each flexible pavement section was used to backcalculate the moduli of the asphalt concrete, the aggregate base, the sand subbase and the roadbed soils using three layered analysis. The same deflection data were also used to backcalculate the moduli of the asphalt concrete, the granular layer and the roadbed soils using two layered system. The backcalculated moduli of the base and subbase layers from the three layered system were then used as inputs to Equation 4.1 and the equivalent granular layer moduli (E_g) were calculated. The average error, calculated as the ratio of the difference between the granular layer moduli from two and three layer system to granular layer moduli from the two

layer system, for analysis cases 3 and 4 (where most of the possible outliers are eliminated) is 10 and 9 percent respectively.

In order to reduce the error a correction factor α was introduced to the modulus of the base layer and the equation 4.1 was modified to the one shown in Equation 4.2.

$$E_g = \frac{(\alpha)(T_b)(E_b)+(T_{sb})(E_{sb})}{T_b + T_{sb}} \qquad \text{Equation 4.2}$$

Where, α = correction factor for the base modulus = 0.825

The value of the correction factor α was determined by trial and error with the objective to minimize the cumulative error between the values of E_g and the backcalculated granular layer moduli. For each deflection basin, the error was defined as the ratio of the difference between the backcalculated granular layer modulus and E_g to the backcalculated granular layer modulus. The cumulative error was calculated as the sum of the error of all backcalculated deflection basins. The objective of the analysis was accomplished when the correction factor α was assigned a value of 0.825.

Figures 4.33 through 4.36 show that for all four cases of analysis, the relationship between the backcalculated granular layer modulus using the two layered system and the E_g values estimated using Equation 4.2. Examination of the data depicted in Figures 4.33 through 4.36 indicates that the spread of the data points around the line of equality decreases as more outliers are eliminated. Stated differently, the spread of the data decreases from analysis case 1 to analysis case 2 to analysis case 3 and finally to analysis case 4. Indeed, for case 3 analyses and case 4 analyses, the spread in the data is so insignificant that one can conclude that the two sets of data are almost the same. The average error dropped for both cases 3 and 4 dropped to 5 percent from the average

error 10 and 9 percent reported earlier using Equation 4.1. Such error is smaller than a typical error incurred in the measurement or estimation of the thicknesses of the aggregate base and sand subbase.

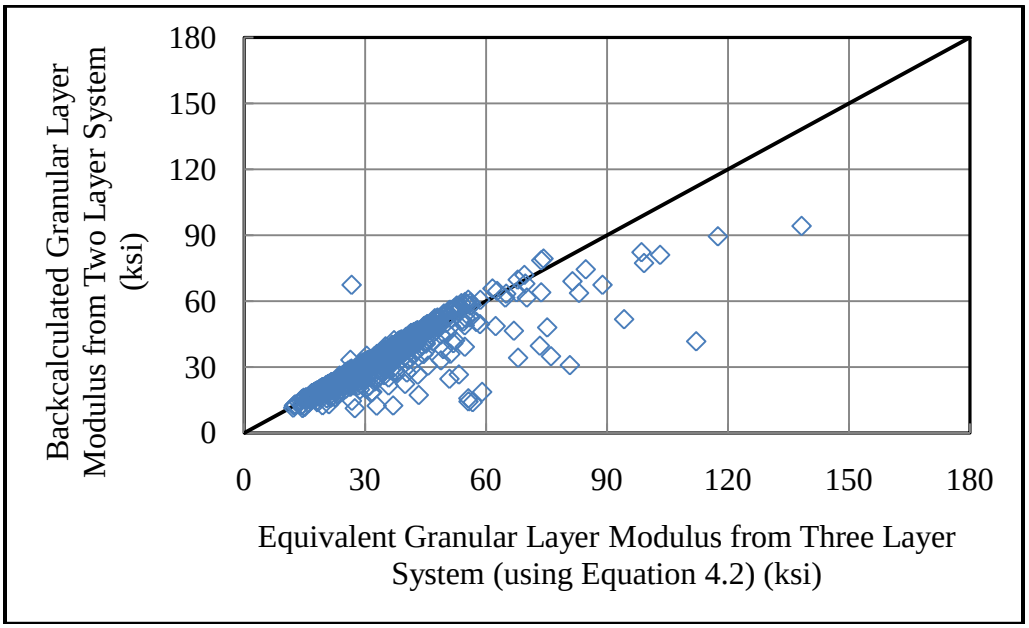

Figure 4.33 Comparison between equivalent and backcalculated granular layer resilient modulus for all tests, case 1

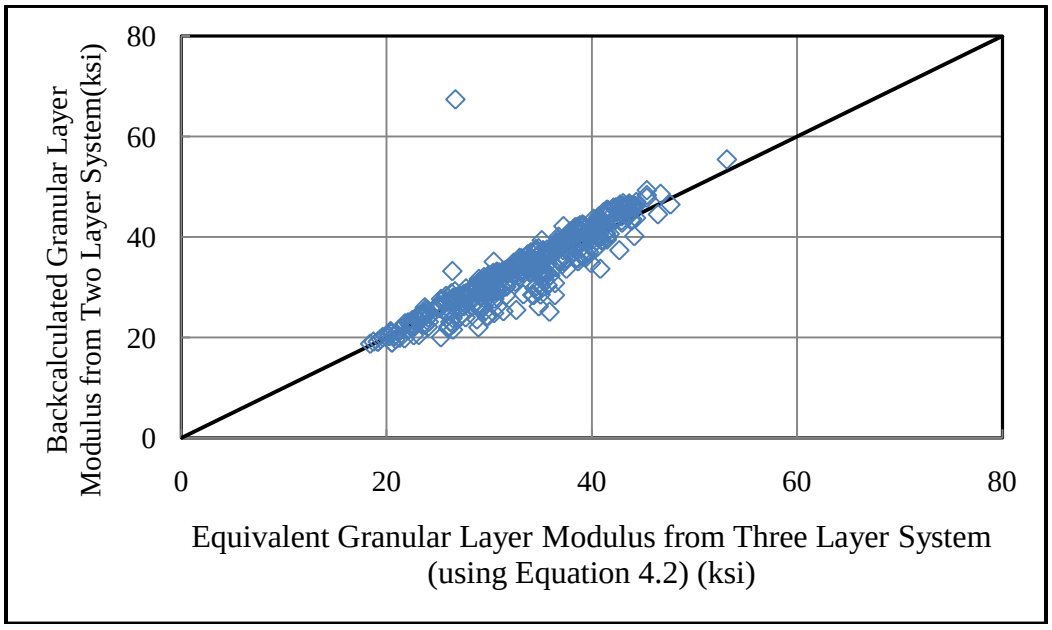

Figure 4.34 Comparison between equivalent and backcalculated granular layer resilient modulus for after deleting the upper and lower 10% of the backcalculated moduli, case 2

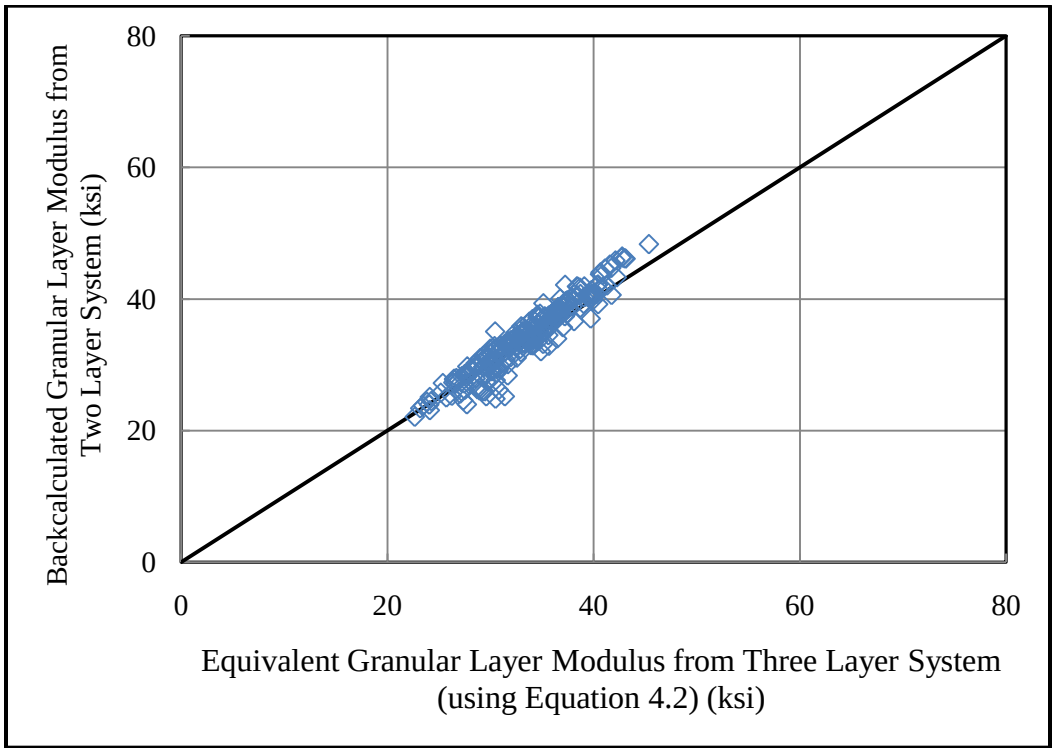

Figure 4.35 Comparison between equivalent and backcalculated granular layer resilient modulus for after deleting the upper and lower 20% of the backcalculated moduli, case 3

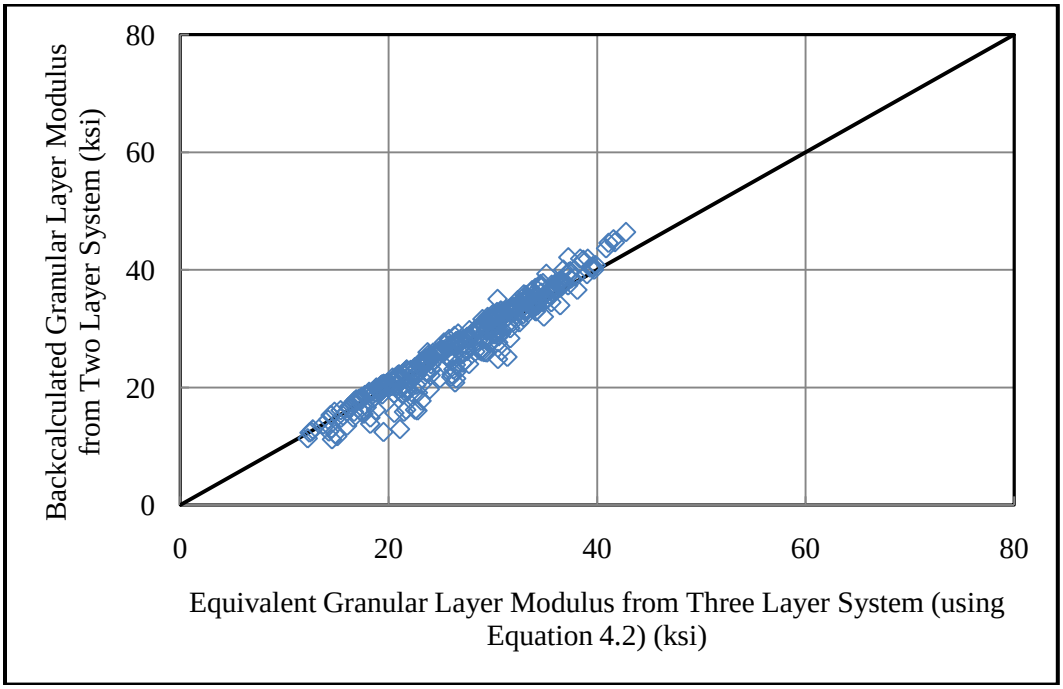

Figure 4.36 Comparison between equivalent and backcalculated granular layer resilient modulus for all values less than the 75th Percentile value for the backcalculated modulus, case 4

CHAPTER 5

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

5.1 SUMMARY

The new M-E PDG, the 1993 AASHTO Pavement Design Guide, and some other existing pavement design procedures require the resilient modulus of the pavement materials (surface, base and subbase layers) and the roadbed soils as input. The resilient modulus of granular materials can be determined by using many methods including backcalculation using deflection data, laboratory cyclic load tests, and from correlations with California Bearing Ratio (CBR), Dynamic Cone Penetrometer (DCP) index etc. The M-E PDG design level 1 requires, as inputs, the resilient modulus values determined from either backcalculation or from laboratory tests.

In this study, FWD measured deflections data were used to backcalculate the modulus of the base and subbase layers. Deflections at the surface of the pavement are measured at distances of 0, 8, 12, 18, 24, 36 and 60 inches from the center of the application of a 9000 pound load. All deflection data used in this study were provided by MDOT. The FWD tests were conducted over the last 20 years period. The MICHBACK software was used to backcalculate the moduli of the base and subbase layers and the roadbed soils for both rigid and flexible pavements. For rigid pavement, the pavement layer moduli were backcalculated using two layered system (PCC slab and granular base) and the roadbed soils. For flexible pavements, two (asphalt surface and granular base) and three (asphalt surface, granular base, and sand subbase) layered systems were used.

Some of the flexible pavement sections, at the time of the FWD tests, consist of a layer of crushed asphalt on top of the aggregate base. Unfortunately, the thickness of the crushed asphalt layer is not known, hence, its thickness was assumed to be the same as that of asphalt surface

layer. Information regarding the aggregate base type and gradation were provided by MDOT. The most common material types used by MDOT include natural gravel, crushed concrete, and dolomite. Aggregates could be either open or dense graded depending on the project requirements.

5.2 CONCLUSIONS

Based upon the FWD test results and the backcalculated layer moduli and on the existing and future pavement design procedures, the following conclusions were drawn:

- The average modulus value of the granular layer (combination of the aggregate base and sand subbase) is independent of the material type.
- Backcalculation of the pavement layer moduli using three layered system produces some unreasonable results (high aggregate base and sand subbase moduli).
- Backcalculation of the roadbed soil modulus using two or three layered system produces almost the same results.
- The backcalculated modulus values of the roadbed soils are independent of the pavement types.
- For some flexible pavement sections, backcalculation of the pavement layers using three layered systems produce unreasonably high or low modulus values. The average modulus value of the 75 percentile modulus values tends to reduce the number of outliers considerably. Whereas, backcalculation using two layered system produces more consistent and reasonable results.
- For rigid pavements, existing empirical backcalculation procedures yield highly variable and unreasonable modulus values for the granular layers. The MICHBACK software produces consistent and reasonable results.

- For rigid pavements, the use of three layer system in the backcalculation may cause more than ten fold error in the backcalculated layer moduli.
- The average backcalculated base layer modulus is about four times higher than the average laboratory estimated value.
- The backcalculated moduli of the granular layer under rigid and flexible pavements are found to be statistically similar.
- The unbound granular layer moduli have little impact on the PCC surface thickness and significant impact on the asphalt surface layer thickness.
- The backcalculated moduli for dense and open graded granular bases were found to be similar.
- Equation 5.1 could be used to combine the moduli of the base and subbase layers into one equivalent granular modulus.

$$E_g = \frac{(\alpha = 0.825)(T_b)(E_b) + (T_{sb})(E_{sb})}{T_b + T_{sb}} \qquad \text{Equation 5.1}$$

Where, E_G = equivalent granular layer modulus (psi)

T_b = thickness of base layer (in)

E_b = modulus of the base layer (psi)

T_{sb} = thickness of the subbase layer (in)

E_{sb} = modulus of the subbase layer (psi)

5.3 RECOMMENDATIONS

Based on the results and the conclusions of the study it is strongly recommended that:

- In the design of flexible pavement sections using design levels 2 or 3 of the M-E PDG or the AASHTO 1993 Design Guide, the materials beneath the HMA surface layer should consists of the following two layers:
    1. Layer 1 – An aggregate base whose modulus value is 33,000 psi and minimum thickness of 6-inch. The corresponding layer coefficient is 0.148.
    2. Layer 2 – The aggregate base be supported by a sand subbase whose modulus is 20,000 psi and thickness of 30-inch minus the combines thicknesses of the aggregate base and HMA layers. The corresponding layer coefficient is 0.137.

  The drainability of both layers should be good to very good, which correspond to a minimum AASHTO drainage coefficient of 1.1. The drainage coefficient could be increased if the drainage time is shortened by installing edge or other means of drain. The total thickness of the aggregate base and sand subbase could be decreased to a minimum of 18-inch, if the drainage coefficient could be increased to 1.2.

  The use of crushed (angular) aggregate base and sand subbase is highly recommended. Higher angularity enhances the material drainability and increases the material strength and stiffness.
- In the design of rigid pavement sections using design levels 2 or 3 of the M-E PDG or the AASHTO 1993 Design Guide, the materials beneath the PCC slab could be either:
    1. An aggregate base layer whose modulus value is 33,000 psi and minimum thickness of 6-inch. Supported by sand subbase whose modulus value is 20,000 psi and thickness of 30-inch minus the combined thickness of the slab and the

aggregate base layer.

2. A granular layer made up of aggregate and sand mix whose composite modulus value is 25,000 psi and thickness of 30-inch minus the thickness of the PCC slab.
3. A sand subbase whose modulus value is 20,000 psi and thickness of 30-inch minus the thickness of the PCC slab.

The drainability of the materials should be good to very good, which correspond to a minimum AASHTO drainage coefficient of 1.1. The drainage coefficient could be increased if the drainage time is shortened by installing edge or other means of drain. The total thickness of the aggregate base and sand subbase could be decreased to a minimum of 18-inch, if the drainage coefficient could be increased to 1.2.

The use of crushed (angular) aggregate base and sand subbase is highly recommended. Higher angularity enhances the material drainability and increases the material strength and stiffness.

For the design of flexible or rigid pavement sections using Design level 1 of the M-E PDG, it is recommended that:

For an existing pavement structure where the PCC slabs or the HMA surface will be replaced, FWD tests be conducted every 500 feet along the project and the deflection data be used to backcalculate the moduli of the aggregate base and sand subbase or the granular layer. The modulus values to be used in the design should correspond to the 33 percentile of all values.

- For a total reconstruction, the aggregate base and sand subbase or the granular layer be subjected to cyclic load triaxial tests to determine their modulus values. The design modulus should be twice the average laboratory determined modulus.

- The composite modulus or the equivalent modulus of a granular layer (combined aggregate base and sand subbase) be estimated using Equation 5.1.
- Additional FWD tests and backcalculation analyses shall be conducted when information regarding the types of the aggregate bases under rigid and flexible pavements become known.
- MDOT should keep all information regarding the various pavement layers. The information shall include the mix design parameters of the HMA and the PCC, the type, source, gradation and angularity of the aggregate and the subbase material type, source, gradation and angularity. The above information should be kept in easily searchable electronic files.

APPENDICES

Appendix A

Table A.1 Backcalculated Pavement Layer Moduli for Rigid Pavement (Two – Layer System)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-B-I475-CS25132-06-26-1997	11.34	10.14	9.55	8.66	7.82	6.18	3.76	0.69	500	2,706	34	23
rigid-B-I475-CS25132-06-26-1997	9.13	8.24	7.76	7.03	6.39	5.00	2.97	0.70	500	3,673	28	30
rigid-B-I475-CS25132-06-26-1997	11.30	10.10	9.55	8.66	7.83	6.18	3.75	0.72	500	2,760	32	23
rigid-B-I475-CS25132-06-26-1997	7.45	6.67	6.30	5.68	5.04	3.98	2.31	0.73	500	3,069	28	28
rigid-B-I475-CS25132-06-26-1997	9.24	8.31	7.79	7.06	6.40	5.03	3.02	0.75	500	3,385	36	28
rigid-B-I475-CS25132-06-26-1997	10.09	9.00	8.44	7.68	6.89	5.38	3.20	0.75	500	3,049	33	28
rigid-B-I475-CS25132-06-26-1997	9.93	8.85	8.36	7.61	6.80	5.33	3.14	0.78	500	3,186	28	28
rigid-B-I475-CS25132-06-26-1997	6.83	6.19	5.81	5.24	4.72	3.74	2.28	0.78	500	3,280	40	27
rigid-B-I475-CS25132-06-26-1997	9.18	8.21	7.76	7.03	6.36	5.01	2.99	0.79	500	3,532	33	29
rigid-B-I475-CS25132-06-26-1997	8.46	7.65	7.14	6.49	5.88	4.69	2.84	0.80	500	2,744	30	22
rigid-B-I475-CS25132-06-26-1997	10.24	9.12	8.58	7.72	6.92	5.41	3.12	0.82	500	2,998	27	29
rigid-B-I475-CS25132-06-26-1997	13.72	12.04	11.08	9.84	8.69	6.60	3.69	0.83	500	1,709	26	23
rigid-B-I475-CS25132-06-26-1997	7.71	6.88	6.51	5.81	5.20	4.06	2.35	0.84	500	2,832	29	27
rigid-B-I475-CS25132-06-26-1997	11.58	10.33	9.76	8.74	7.91	6.17	3.59	0.84	500	2,714	23	25
rigid-B-I475-CS25132-06-26-1997	10.09	8.98	8.49	7.63	6.87	5.36	3.10	0.85	500	3,138	25	29
rigid-B-I475-CS25132-06-26-1997	11.73	10.47	9.84	8.85	7.99	6.24	3.60	0.89	500	2,703	22	25
rigid-B-I475-CS25132-06-26-1997	7.56	6.74	6.30	5.65	5.06	4.01	2.35	0.91	500	2,798	35	27
rigid-B-I475-CS25132-06-26-1997	13.79	12.04	11.16	9.87	8.79	6.70	3.81	0.92	500	1,688	29	22
rigid-B-I475-CS25132-06-26-1997	10.34	9.07	8.38	7.44	6.59	5.07	2.86	0.95	500	1,727	27	22
rigid-B-I475-CS25132-06-26-1997	11.62	10.33	9.71	8.81	7.93	6.20	3.60	0.97	500	2,746	22	25
rigid-B-I475-CS25132-06-26-1997	10.34	9.07	8.40	7.43	6.62	5.07	2.83	1.04	500	1,786	24	23
rigid-B-I475-CS25132-06-26-1997	13.89	12.04	11.21	9.91	8.86	6.72	3.84	1.04	500	1,679	29	22
rigid-B-I475-CS25132-06-26-1997	8.57	7.61	7.14	6.49	5.80	4.57	2.63	1.05	500	2,737	22	25
rigid-B-I475-CS25132-06-26-1997	10.29	8.99	8.30	7.39	6.56	5.01	2.77	1.15	500	1,787	23	23

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-B-I475-CS25132-06-24-2001	3.46	3.15	2.95	2.72	2.48	2.05	1.30	0.97	500	4,336	54	27
rigid-B-I475-CS25132-06-24-2001	4.02	3.58	3.31	2.99	2.68	2.13	1.26	1.07	500	2,902	45	29
rigid-B-I475-CS25132-06-24-2001	3.70	3.31	3.07	2.83	2.52	2.05	1.26	1.09	500	3,290	57	28
rigid-B-I475-CS25132-06-24-2001	3.70	3.31	3.07	2.80	2.56	2.05	1.26	1.18	500	3,423	54	28
rigid-B-I475-CS25132-06-24-2001	4.29	3.86	3.54	3.15	2.87	2.24	1.30	1.23	500	2,707	36	28
rigid-B-I475-CS25132-06-24-2001	4.06	3.62	3.35	3.03	2.72	2.20	1.30	1.37	500	3,005	44	28
rigid-B-I475-CS25132-06-24-2001	3.82	3.43	3.19	2.91	2.72	2.24	1.46	1.38	500	3,257	87	23
rigid-B-I475-CS25132-06-24-2001	4.33	3.78	3.46	3.03	2.68	2.05	1.10	1.42	500	2,344	33	34
rigid-B-I475-CS25132-06-24-2001	4.76	4.17	3.86	3.50	3.15	2.52	1.50	1.48	500	2,401	43	24
rigid-B-I475-CS25132-06-24-2001	4.61	4.13	3.86	3.54	3.27	2.72	1.73	1.50	500	3,007	56	20
rigid-B-I475-CS25132-06-24-2001	6.02	5.24	4.69	4.17	3.66	2.83	1.57	1.61	500	1,478	34	23
rigid-B-I475-CS25132-06-24-2001	5.98	5.20	4.69	4.13	3.66	2.83	1.57	1.61	500	1,501	34	23
rigid-B-I475-CS25132-06-24-2001	5.98	5.24	4.69	4.17	3.66	2.80	1.50	1.65	500	1,593	26	24
rigid-B-I475-CS25132-06-24-2001	6.06	5.28	4.69	4.17	3.70	2.80	1.54	1.69	500	1,481	31	23
rigid-B-I475-CS25132-06-24-2001	5.04	4.29	3.94	3.43	2.99	2.28	1.18	1.84	500	1,912	29	32
rigid-B-I475-CS25132-06-24-2001	9.49	8.15	7.40	6.46	5.71	4.29	2.20	1.85	500	1,029	14	17
rigid-B-I475-CS25132-06-24-2001	4.72	4.21	3.86	3.46	3.11	2.52	1.42	1.93	500	2,653	30	26
rigid-B-I475-CS25132-06-24-2001	6.38	5.51	4.96	4.37	3.90	2.99	1.61	2.00	500	1,432	28	22
rigid-B-I475-CS25132-06-24-2001	4.06	3.50	3.23	2.83	2.48	1.97	1.06	2.07	500	2,525	41	35
rigid-B-I475-CS25132-06-24-2001	4.06	3.46	3.19	2.80	2.48	1.93	1.02	2.19	500	2,524	37	37
rigid-B-I475-CS25132-06-24-2001	6.14	5.24	4.69	4.17	3.66	2.80	1.46	2.28	500	1,488	27	25
rigid-B-I675-CS73101-10-24-2003	6.42	5.47	5	4.41	3.86	2.99	1.77	0.51	250	1,045	64	15
rigid-B-I675-CS73101-10-24-2003	6.57	5.55	5	4.41	3.86	2.99	1.77	0.67	250	906	67	15
rigid-B-I675-CS73101-10-24-2003	6.42	5.47	4.96	4.41	3.82	2.99	1.77	0.71	250	1,009	66	15

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-B-I675-CS73101-10-24-2003	6.5	5.67	5.24	4.65	4.06	3.11	1.69	0.87	250	1,527	33	18
rigid-B-I675-CS73101-10-24-2003	7.99	6.85	6.22	5.47	4.76	3.58	1.93	0.96	250	984	32	15
rigid-B-I675-CS73101-10-24-2003	7.01	6.02	5.51	4.88	4.21	3.23	1.77	1.00	250	1,176	38	16
rigid-B-I675-CS73101-10-24-2003	7.17	6.18	5.63	4.96	4.33	3.31	1.81	1.01	250	1,138	38	16
rigid-B-I675-CS73101-10-24-2003	6.97	5.91	5.39	4.8	4.17	3.23	1.85	1.03	250	1,017	51	15
rigid-B-I675-CS73101-10-24-2003	7.17	6.18	5.63	4.96	4.29	3.31	1.81	1.06	250	1,116	39	16
rigid-B-I675-CS73101-10-24-2003	7.09	6.06	5.47	4.88	4.21	3.27	1.85	1.09	250	1,020	48	15
rigid-B-I675-CS73101-10-24-2003	6.54	5.55	4.96	4.41	3.82	2.99	1.73	1.10	250	957	62	15
rigid-B-I675-CS73101-10-24-2003	9.29	8.07	7.32	6.42	5.55	4.21	2.2	1.11	250	905	23	13
rigid-B-I675-CS73101-10-24-2003	9.21	7.91	7.24	6.34	5.47	4.09	2.09	1.11	250	932	20	14
rigid-B-I675-CS73101-10-24-2003	7.17	6.14	5.63	4.96	4.29	3.31	1.81	1.11	250	1,101	39	15
rigid-B-I675-CS73101-10-24-2003	7.95	6.81	6.18	5.47	4.72	3.62	1.97	1.13	250	983	34	14
rigid-B-I675-CS73101-10-24-2003	6.3	5.39	4.88	4.29	3.66	2.8	1.5	1.14	250	1,202	43	19
rigid-B-I675-CS73101-10-24-2003	9.76	8.27	7.56	6.54	5.59	4.09	2.01	1.15	250	835	18	14
rigid-B-I675-CS73101-10-24-2003	7.09	6.06	5.51	4.92	4.25	3.27	1.81	1.16	250	1,115	41	15
rigid-B-I675-CS73101-10-24-2003	6.34	5.39	4.88	4.33	3.7	2.8	1.5	1.16	250	1,231	41	19
rigid-B-I675-CS73101-10-24-2003	6.54	5.71	5.24	4.69	4.09	3.15	1.69	1.17	250	1,583	30	18
rigid-B-I675-CS73101-10-24-2003	6.38	5.47	4.96	4.41	3.82	3.03	1.73	1.26	250	1,131	58	16
rigid-B-I675-CS73101-10-24-2003	7.91	6.81	6.18	5.43	4.72	3.62	1.93	1.30	250	1,024	31	14
rigid-B-I675-CS73101-10-24-2003	6.73	5.67	5.2	4.53	3.86	2.8	1.34	1.35	250	1,283	23	23
rigid-B-I675-CS73101-10-24-2003	8.11	6.81	6.18	5.43	4.65	3.54	1.89	1.35	250	883	35	15
rigid-B-I675-CS73101-10-24-2003	7.36	6.26	5.67	4.96	4.17	3.11	1.54	1.36	250	1,103	27	19
rigid-B-I675-CS73101-10-24-2003	6.73	5.67	5.2	4.53	3.9	2.83	1.38	1.36	250	1,302	23	22
rigid-B-I675-CS73101-10-24-2003	8.15	6.85	6.18	5.47	4.72	3.54	1.89	1.36	250	895	34	15

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-B-I675-CS73101-10-24-2003	6.93	5.87	5.35	4.76	4.17	3.23	1.81	1.38	250	1,076	47	15
rigid-B-I675-CS73101-10-24-2003	6.5	5.67	5.2	4.57	4.02	3.11	1.65	1.39	250	1,518	32	18
rigid-B-I675-CS73101-10-24-2003	7.32	6.22	5.63	4.92	4.17	3.11	1.54	1.42	250	1,122	27	19
rigid-B-I675-CS73101-10-24-2003	6.1	5.16	4.69	4.13	3.54	2.64	1.34	1.43	250	1,372	33	22
rigid-B-I675-CS73101-10-24-2003	6.14	5.16	4.65	4.13	3.54	2.6	1.34	1.43	250	1,288	36	22
rigid-B-I675-CS73101-10-24-2003	7.56	6.38	5.75	5	4.29	3.19	1.61	1.44	250	1,010	29	18
rigid-B-I675-CS73101-10-24-2003	6.26	5.31	4.84	4.25	3.66	2.76	1.42	1.44	250	1,313	35	20
rigid-B-I675-CS73101-10-24-2003	8.07	6.73	6.14	5.31	4.53	3.27	1.57	1.45	250	988	21	19
rigid-B-I675-CS73101-10-24-2003	8.11	6.81	6.14	5.47	4.65	3.5	1.85	1.45	250	905	32	15
rigid-B-I675-CS73101-10-24-2003	6.73	5.71	5.2	4.53	3.9	2.83	1.34	1.46	250	1,341	21	23
rigid-B-I675-CS73101-10-24-2003	7.01	5.91	5.39	4.72	4.13	3.03	1.54	1.52	250	1,203	28	19
rigid-B-I675-CS73101-10-24-2003	7.17	6.06	5.47	4.76	4.13	3.03	1.5	1.56	250	1,130	26	19
rigid-B-I675-CS73101-10-24-2003	7.8	6.57	5.94	5.16	4.45	3.27	1.61	1.56	250	1,057	24	18
rigid-B-I675-CS73101-10-24-2003	8.07	6.77	6.1	5.31	4.49	3.31	1.61	1.57	250	953	24	18
rigid-B-I675-CS73101-10-24-2003	6.18	5.28	4.72	4.17	3.62	2.76	1.46	1.58	250	1,260	42	19
rigid-B-I675-CS73101-10-24-2003	7.56	6.34	5.71	5.04	4.29	3.19	1.61	1.61	250	996	29	17
rigid-B-I675-CS73101-10-24-2003	6.18	5.28	4.76	4.21	3.66	2.76	1.42	1.62	250	1,377	35	20
rigid-B-I675-CS73101-10-24-2003	8.07	6.77	6.1	5.28	4.45	3.23	1.5	1.62	250	982	20	20
rigid-B-I675-CS73101-10-24-2003	6.1	5.12	4.65	4.09	3.5	2.6	1.3	1.62	250	1,338	33	22
rigid-B-I675-CS73101-10-24-2003	7.17	6.02	5.39	4.76	4.09	3.03	1.54	1.66	250	1,039	32	18
rigid-B-I675-CS73101-10-24-2003	6.14	5.28	4.76	4.21	3.62	2.72	1.34	1.66	250	1,484	27	22
rigid-B-I675-CS73101-10-24-2003	7.05	5.91	5.39	4.72	4.09	2.99	1.46	1.73	250	1,228	24	20
rigid-B-I675-CS73101-10-24-2003	7.4	6.22	5.59	4.96	4.17	3.11	1.54	1.73	250	1,085	27	19
rigid-B-I675-CS73101-10-24-2003	6.77	5.75	5.2	4.57	3.9	2.95	1.46	1.79	250	1,295	28	21

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-B-I675-CS73101-10-24-2003	7.2	6.02	5.43	4.8	4.09	3.03	1.5	1.79	250	1,097	28	19
rigid-B-I675-CS73101-10-24-2003	7.13	5.94	5.43	4.76	4.13	3.03	1.5	1.82	250	1,187	26	19
rigid-B-I675-CS73101-10-24-2003	6.73	5.71	5.16	4.57	3.86	2.91	1.42	1.83	250	1,319	26	21
rigid-B-I675-CS73101-10-24-2003	7.83	6.61	5.98	5.2	4.49	3.31	1.57	1.89	250	1,145	20	19
rigid-B-I675-CS73101-10-24-2003	8.98	7.4	6.69	5.94	5.16	3.9	2.09	1.90	250	1,050	44	18
rigid-B-I675-CS73101-10-24-2003	7.56	6.34	5.71	5.08	4.37	3.27	1.65	1.92	250	1,144	28	18
rigid-B-I675-CS73101-10-24-2003	7.6	6.38	5.75	5.08	4.33	3.23	1.57	1.97	250	1,084	24	18
rigid-B-I675-CS73101-10-24-2003	7.48	6.3	5.67	5.04	4.33	3.23	1.57	2.08	250	1,211	23	19
rigid-B-I675-CS73101-10-24-2003	7.8	6.61	5.94	5.2	4.45	3.31	1.54	2.11	250	1,152	19	20
rigid-B-I675-CS73101-10-24-2003	6.77	5.75	5.2	4.57	3.86	2.95	1.42	2.12	250	1,303	26	21
rigid-B-I675-CS73101-10-24-2003	7.52	6.26	5.71	5.04	4.33	3.27	1.61	2.20	250	1,180	26	19
rigid-B-I675-CS73101-10-24-2003	8.94	7.36	6.61	5.91	5.12	3.94	2.05	2.53	250	867	29	13
rigid-B-I675-CS73101-10-24-2003	6.57	5.24	4.8	4.29	3.74	2.91	1.57	2.86	250	953	59	17
rigid-B-I675-CS73101-10-24-2003	6.65	5.55	5.08	4.57	4.02	3.19	1.65	2.93	250	1,413	35	17
rigid-B-I675-CS73101-05-26-2004	5.35	4.88	4.53	4.06	3.7	3.03	1.85	1.05	250	2,194	59	15
rigid-B-I675-CS73101-05-26-2004	5.35	4.88	4.53	4.02	3.7	2.99	1.81	1.15	250	2,190	55	15
rigid-B-I675-CS73101-05-26-2004	6.38	5.51	4.96	4.25	3.74	2.8	1.46	1.35	250	1,194	37	19
rigid-B-I675-CS73101-05-26-2004	6.54	5.59	5.08	4.37	3.9	2.95	1.61	1.35	250	1,148	45	17
rigid-B-I675-CS73101-05-26-2004	5.31	4.84	4.45	4.02	3.66	2.99	1.77	1.38	250	2,340	49	16
rigid-B-I675-CS73101-05-26-2004	6.3	5.47	4.88	4.25	3.7	2.8	1.46	1.41	250	1,234	37	19
rigid-B-I675-CS73101-05-26-2004	6.42	5.35	4.8	4.09	3.58	2.64	1.38	1.43	250	1,005	44	20
rigid-B-I675-CS73101-05-26-2004	9.13	7.91	7.2	6.22	5.51	4.17	2.17	1.47	250	957	23	13
rigid-B-I675-CS73101-05-26-2004	11.34	9.76	8.9	7.64	6.73	5.12	2.68	1.48	250	701	20	10
rigid-B-I675-CS73101-05-26-2004	9.88	8.46	7.64	6.57	5.75	4.29	2.17	1.51	250	802	21	13

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-B-I675-CS73101-05-26-2004	7.17	5.94	5.43	4.72	4.25	3.35	1.97	1.55	250	810	68	13
rigid-B-I675-CS73101-05-26-2004	6.34	5.47	4.96	4.25	3.74	2.83	1.46	1.55	250	1,275	35	19
rigid-B-I675-CS73101-05-26-2004	6.61	5.63	5.08	4.33	3.82	2.87	1.5	1.55	250	1,089	40	19
rigid-B-I675-CS73101-05-26-2004	6.5	5.55	5.08	4.37	3.9	2.95	1.57	1.56	250	1,231	39	18
rigid-B-I675-CS73101-05-26-2004	10.55	9.17	8.39	7.28	6.42	4.88	2.48	1.56	250	893	16	12
rigid-B-I675-CS73101-05-26-2004	6.57	5.59	5.08	4.33	3.9	2.91	1.57	1.57	250	1,109	44	18
rigid-B-I675-CS73101-05-26-2004	8.82	7.64	6.93	5.98	5.28	4.02	2.09	1.58	250	965	24	13
rigid-B-I675-CS73101-05-26-2004	6.46	5.39	4.84	4.13	3.58	2.68	1.38	1.60	250	1,009	43	20
rigid-B-I675-CS73101-05-26-2004	6.81	5.75	5.16	4.41	3.9	2.95	1.57	1.65	250	981	44	17
rigid-B-I675-CS73101-05-26-2004	6.69	5.67	5.12	4.33	3.82	2.91	1.54	1.71	250	1,032	44	18
rigid-B-I675-CS73101-05-26-2004	7.36	6.3	5.67	4.88	4.25	3.23	1.65	1.72	250	1,017	32	17
rigid-B-I675-CS73101-05-26-2004	6.1	4.92	4.49	3.86	3.46	2.68	1.54	1.81	250	893	75	17
rigid-B-I675-CS73101-05-26-2004	6.42	5.35	4.8	4.06	3.54	2.64	1.34	1.81	250	1,006	42	21
rigid-B-I675-CS73101-05-26-2004	6.93	5.94	5.35	4.61	4.06	3.03	1.5	1.85	250	1,208	27	19
rigid-B-I675-CS73101-05-26-2004	7.24	5.98	5.43	4.72	4.25	3.35	1.93	1.86	250	807	65	14
rigid-B-I675-CS73101-05-26-2004	6.93	5.94	5.31	4.57	4.06	3.03	1.54	1.89	250	1,138	31	18
rigid-B-I675-CS73101-05-26-2004	6.81	5.75	5.2	4.41	3.94	2.99	1.57	1.99	250	1,039	41	17
rigid-B-I675-CS73101-05-26-2004	7.4	6.3	5.67	4.88	4.25	3.23	1.61	2.02	250	1,056	29	17
rigid-B-I675-CS73101-05-26-2004	7.32	6.26	5.63	4.84	4.25	3.23	1.61	2.10	250	1,109	28	18
rigid-B-I675-CS73101-05-26-2004	6.06	4.92	4.45	3.86	3.46	2.68	1.5	2.14	250	915	72	17
rigid-B-I675-CS73101-05-26-2004	7.24	5.98	5.47	4.72	4.29	3.39	1.93	2.19	250	834	63	14
rigid-B-I675-CS73101-05-26-2004	6.93	5.91	5.35	4.53	4.02	2.95	1.38	2.21	250	1,250	21	21
rigid-B-I675-CS73101-05-26-2004	6.93	5.94	5.35	4.57	4.02	2.99	1.38	2.33	250	1,300	19	22
rigid-B-I675-CS73101-05-26-2004	7.36	6.14	5.51	4.72	4.17	3.15	1.57	2.46	250	984	33	18

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-B-I675-CS73101-05-26-2004	10.04	8.58	7.91	7.05	6.42	5.08	2.76	2.48	250	1,036	23	10
rigid-B-I675-CS73101-05-26-2004	7.48	6.22	5.59	4.76	4.25	3.23	1.65	2.53	250	963	35	17
rigid-B-I675-CS73101-05-26-2004	7.72	6.34	5.67	4.84	4.25	3.19	1.57	2.62	250	883	32	18
rigid-B-I675-CS73101-05-26-2004	7.4	6.14	5.51	4.72	4.21	3.19	1.61	2.64	250	971	34	17
rigid-B-I675-CS73101-05-26-2004	8.07	6.57	5.91	5	4.45	3.35	1.69	2.70	250	791	36	16
rigid-B-I675-CS73101-05-26-2004	8.94	7.17	6.5	5.59	4.96	3.74	1.93	2.71	250	727	35	14
rigid-B-I675-CS73101-05-26-2004	8.07	6.57	5.91	5	4.49	3.35	1.69	2.78	250	819	34	16
rigid-B-I675-CS73101-05-26-2004	7.68	6.3	5.63	4.8	4.25	3.19	1.57	2.79	250	891	33	17
rigid-B-I675-CS73101-05-26-2004	8.07	6.57	5.91	4.96	4.45	3.35	1.69	2.84	250	784	36	16
rigid-B-I675-CS73101-10-14-2004	13.86	12.13	11.14	9.69	8.54	6.57	3.66	0.80	250	596	19	7
rigid-B-I675-CS73101-10-14-2004	9.84	8.62	7.99	7.01	6.34	4.92	2.87	0.93	250	905	32	9
rigid-B-I675-CS73101-10-14-2004	9.88	8.58	7.99	7.01	6.3	4.92	2.87	0.97	250	906	32	9
rigid-B-I675-CS73101-10-14-2004	16.81	14.72	13.54	11.8	10.3	7.6	3.86	1.00	250	810	13	11
rigid-B-I675-CS73101-10-14-2004	14.02	12.2	11.22	9.8	8.58	6.54	3.46	1.07	250	654	15	8
rigid-B-I675-CS73101-10-14-2004	9.92	8.62	7.99	6.97	6.3	4.96	2.91	1.12	250	834	36	9
rigid-B-I675-CS73101-10-14-2004	17.8	15.51	14.17	12.4	10.9	8.27	4.33	1.14	250	515	11	7
rigid-B-I675-CS73101-10-14-2004	10.51	9.21	8.5	7.4	6.57	5	2.64	1.16	250	928	18	11
rigid-B-I675-CS73101-10-14-2004	10.47	9.17	8.43	7.32	6.5	4.96	2.64	1.20	250	894	19	11
rigid-B-I675-CS73101-10-14-2004	17.6	15.08	13.94	12.1	10.5	7.8	3.9	1.26	250	743	13	11
rigid-B-I675-CS73101-10-14-2004	10.47	9.17	8.43	7.32	6.5	5	2.68	1.27	250	881	21	11
rigid-B-I675-CS73101-10-14-2004	6.69	5.63	5.16	4.49	3.98	3.03	1.69	1.27	250	1,085	49	16
rigid-B-I675-CS73101-10-14-2004	10.08	8.62	7.91	6.89	6.1	4.57	2.4	1.37	250	861	21	12
rigid-B-I675-CS73101-10-14-2004	9.25	7.91	7.2	6.22	5.43	4.13	2.17	1.37	250	840	27	13
rigid-B-I675-CS73101-10-14-2004	10.51	9.02	8.19	7.01	6.1	4.57	2.32	1.38	250	751	20	12

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-B-I675-CS73101-10-14-2004	10.12	8.66	7.91	6.89	6.1	4.57	2.4	1.39	250	840	22	12
rigid-B-I675-CS73101-10-14-2004	10.87	9.33	8.5	7.32	6.46	4.8	2.44	1.43	250	776	18	12
rigid-B-I675-CS73101-10-14-2004	7.44	6.34	5.71	4.84	4.21	3.07	1.5	1.46	250	1,017	26	19
rigid-B-I675-CS73101-10-14-2004	7.01	6.02	5.47	4.69	4.09	3.11	1.61	1.48	250	1,112	34	18
rigid-B-I675-CS73101-10-14-2004	10.91	9.37	8.54	7.32	6.5	4.84	2.48	1.52	250	767	18	11
rigid-B-I675-CS73101-10-14-2004	10.04	8.58	7.87	6.81	6.02	4.57	2.4	1.52	250	840	23	12
rigid-B-I675-CS73101-10-14-2004	10.51	9.02	8.15	6.97	6.14	4.57	2.32	1.54	250	753	20	12
rigid-B-I675-CS73101-10-14-2004	10.91	9.37	8.54	7.36	6.5	4.84	2.44	1.54	250	791	17	12
rigid-B-I675-CS73101-10-14-2004	7.09	6.02	5.51	4.69	4.13	3.11	1.61	1.57	250	1,089	34	18
rigid-B-I675-CS73101-10-14-2004	10.55	9.02	8.19	7.01	6.14	4.57	2.28	1.58	250	773	19	13
rigid-B-I675-CS73101-10-14-2004	7.48	6.38	5.71	4.88	4.25	3.15	1.57	1.62	250	1,002	28	18
rigid-B-I675-CS73101-10-14-2004	13.46	11.57	10.63	9.17	8.07	6.02	2.95	1.63	250	713	11	10
rigid-B-I675-CS73101-10-14-2004	8.03	6.97	6.34	5.43	4.76	3.58	1.77	1.64	250	1,114	21	17
rigid-B-I675-CS73101-10-14-2004	7.68	6.54	5.91	5.08	4.45	3.31	1.65	1.69	250	1,049	26	17
rigid-B-I675-CS73101-10-14-2004	9.17	7.87	7.13	6.1	5.39	4.13	2.17	1.72	250	841	28	13
rigid-B-I675-CS73101-10-14-2004	8.07	6.97	6.3	5.43	4.76	3.58	1.77	1.76	250	1,065	22	16
rigid-B-I675-CS73101-10-14-2004	7.52	6.42	5.75	4.92	4.29	3.19	1.57	1.80	250	1,061	26	18
rigid-B-I675-CS73101-10-14-2004	6.69	5.59	5.12	4.41	3.94	2.99	1.61	1.82	250	1,090	45	17
rigid-B-I675-CS73101-10-14-2004	7.09	6.02	5.47	4.69	4.13	3.11	1.57	1.86	250	1,134	31	18
rigid-B-I675-CS73101-10-14-2004	9.21	7.87	7.17	6.14	5.43	4.17	2.17	1.86	250	856	27	13
rigid-B-I675-CS73101-10-14-2004	9.09	7.72	7.01	5.91	5.2	3.86	1.89	1.91	250	854	22	15
rigid-B-I675-CS73101-10-14-2004	11.14	9.53	8.54	7.28	6.38	4.72	2.28	1.92	250	724	16	13
rigid-B-I675-CS73101-10-14-2004	9.13	7.76	7.01	5.91	5.2	3.86	1.89	1.96	250	840	22	15
rigid-B-I675-CS73101-10-14-2004	7.76	6.61	5.98	5.12	4.53	3.39	1.69	1.96	250	1,078	25	17

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-B-I675-CS73101-10-14-2004	10.94	9.37	8.35	7.2	6.26	4.65	2.2	2.08	250	770	15	13
rigid-B-I675-CS73101-10-14-2004	8.94	7.68	6.85	5.91	5.12	3.78	1.73	2.11	250	998	15	18
rigid-B-I675-CS73101-10-14-2004	6.65	5.55	5.12	4.41	3.94	3.03	1.61	2.13	250	1,197	41	17
rigid-B-I675-CS73101-10-14-2004	10.98	9.41	8.35	7.17	6.26	4.65	2.2	2.21	250	749	15	13
rigid-B-I675-CS73101-10-14-2004	8.94	7.64	6.85	5.87	5.08	3.78	1.73	2.25	250	969	16	17
rigid-B-I675-CS73101-10-14-2004	8.07	6.97	6.26	5.39	4.72	3.58	1.69	2.36	250	1,152	18	18
rigid-B-I675-CS73101-10-14-2004	8.11	6.93	6.26	5.39	4.76	3.58	1.69	2.42	250	1,135	18	18
rigid-B-I675-CS73101-10-14-2004	14.29	11.69	10.87	9.53	8.39	6.38	3.27	2.51	250	599	16	9
rigid-B-I675-CS73101-10-14-2004	9.57	7.8	7.13	6.18	5.55	4.33	2.36	2.53	250	673	40	11
rigid-B-I675-CS73101-10-14-2004	8.9	7.6	6.81	5.83	5.08	3.78	1.69	2.54	250	1,031	13	18
rigid-B-I675-CS73101-10-14-2004	8.62	7.17	6.5	5.59	4.96	3.74	1.85	2.55	250	945	25	15
rigid-B-I675-CS73101-10-14-2004	8.62	7.17	6.54	5.63	5	3.78	1.85	2.65	250	989	23	15
rigid-B-I675-CS73101-10-14-2004	9.57	7.76	7.09	6.14	5.51	4.33	2.36	2.68	250	681	40	11
rigid-B-I675-CS73101-10-14-2004	8.74	7.28	6.57	5.67	5.04	3.82	1.89	2.69	250	951	24	15
rigid-B-I675-CS73101-10-14-2004	9.61	7.76	7.13	6.14	5.55	4.33	2.36	2.73	250	658	41	11
rigid-B-I675-CS73101-10-14-2004	10.2	8.19	7.4	6.38	5.63	4.25	2.17	2.74	250	634	30	12
rigid-B-I675-CS73101-10-14-2004	15.24	12.28	11.22	9.84	8.66	6.54	3.31	2.87	250	500	17	8
rigid-B-I675-CS73101-12-05-2005	6.5	5.67	5.31	4.72	4.21	3.39	2.09	0.67	250	1,301	67	13
rigid-B-I675-CS73101-12-05-2005	5.63	4.96	4.61	4.09	3.7	3.03	1.93	0.70	250	1,428	93	13
rigid-B-I675-CS73101-12-05-2005	5.87	5.16	4.8	4.21	3.78	2.95	1.69	0.94	250	1,639	47	17
rigid-B-I675-CS73101-12-05-2005	5.47	4.84	4.53	4.06	3.62	2.87	1.65	0.96	250	2,142	45	18
rigid-B-I675-CS73101-12-05-2005	5.83	4.96	4.61	4.02	3.5	2.72	1.54	0.98	250	1,312	58	18
rigid-B-I675-CS73101-12-05-2005	6.57	5.75	5.35	4.72	4.25	3.43	2.09	0.98	250	1,277	65	13
rigid-B-I675-CS73101-12-05-2005	5.87	4.96	4.61	4.02	3.54	2.68	1.5	1.04	250	1,342	53	19

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-B-I675-CS73101-12-05-2005	7.2	6.18	5.75	5.04	4.45	3.5	2.01	1.08	250	1,132	48	14
rigid-B-I675-CS73101-12-05-2005	6.54	5.75	5.35	4.72	4.25	3.35	1.93	1.09	250	1,545	44	15
rigid-B-I675-CS73101-12-05-2005	7.24	6.38	5.91	5.12	4.57	3.62	2.09	1.11	250	1,175	46	13
rigid-B-I675-CS73101-12-05-2005	7.2	6.22	5.83	5.08	4.45	3.5	1.97	1.13	250	1,203	41	14
rigid-B-I675-CS73101-12-05-2005	7.2	6.22	5.79	5	4.45	3.5	2.01	1.13	250	1,119	48	14
rigid-B-I675-CS73101-12-05-2005	5.2	4.53	4.21	3.7	3.31	2.64	1.54	1.16	250	1,727	67	18
rigid-B-I675-CS73101-12-05-2005	6.65	5.83	5.43	4.8	4.33	3.39	1.93	1.18	250	1,576	39	15
rigid-B-I675-CS73101-12-05-2005	5.87	5	4.61	4.02	3.54	2.72	1.5	1.20	250	1,375	51	19
rigid-B-I675-CS73101-12-05-2005	6.02	5.12	4.69	4.06	3.54	2.68	1.42	1.24	250	1,342	43	21
rigid-B-I675-CS73101-12-05-2005	5.91	5.2	4.84	4.25	3.82	3.03	1.73	1.25	250	1,682	48	16
rigid-B-I675-CS73101-12-05-2005	7.01	6.06	5.63	4.92	4.41	3.46	1.97	1.28	250	1,263	44	14
rigid-B-I675-CS73101-12-05-2005	5.98	5.2	4.84	4.25	3.82	2.99	1.69	1.29	250	1,612	46	17
rigid-B-I675-CS73101-12-05-2005	7.48	6.38	5.94	5.12	4.53	3.35	1.73	1.29	250	1,240	25	17
rigid-B-I675-CS73101-12-05-2005	6.06	5.12	4.72	4.06	3.54	2.68	1.42	1.30	250	1,301	44	20
rigid-B-I675-CS73101-12-05-2005	6.69	5.83	5.47	4.84	4.33	3.43	1.93	1.39	250	1,608	37	15
rigid-B-I675-CS73101-12-05-2005	7.48	6.38	5.94	5.16	4.49	3.39	1.73	1.42	250	1,229	25	17
rigid-B-I675-CS73101-12-05-2005	7.44	6.34	5.94	5.12	4.49	3.35	1.69	1.43	250	1,299	22	18
rigid-B-I675-CS73101-12-05-2005	5.47	4.8	4.53	4.02	3.62	2.91	1.65	1.54	250	2,211	43	18
rigid-B-I675-CS73101-12-05-2005	6.1	5.16	4.72	4.09	3.58	2.72	1.42	1.60	250	1,346	41	21
rigid-B-I675-CS73101-12-05-2005	5.55	4.84	4.57	4.09	3.7	2.99	1.73	1.64	250	2,188	49	17
rigid-B-I675-CS73101-12-05-2005	7.28	6.14	5.67	4.88	4.25	3.11	1.46	1.78	250	1,318	18	22
rigid-B-I675-CS73101-12-05-2005	6.89	5.79	5.24	4.49	3.94	2.95	1.5	1.82	250	1,131	36	20
rigid-B-I675-CS73101-12-05-2005	5.47	4.65	4.37	3.78	3.35	2.6	1.38	1.82	250	1,745	40	21
rigid-B-I675-CS73101-12-05-2005	7.17	6.22	5.75	5	4.41	3.39	1.69	1.84	250	1,485	19	18

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-B-I675-CS73101-12-05-2005	5.39	4.65	4.33	3.78	3.35	2.6	1.34	1.85	250	1,948	32	22
rigid-B-I675-CS73101-12-05-2005	5.51	4.72	4.37	3.82	3.35	2.6	1.34	1.87	250	1,811	34	22
rigid-B-I675-CS73101-12-05-2005	5.31	4.61	4.29	3.74	3.35	2.6	1.34	1.92	250	2,108	27	23
rigid-B-I675-CS73101-12-05-2005	7.24	6.1	5.63	4.84	4.21	3.11	1.46	1.93	250	1,324	18	21
rigid-B-I675-CS73101-12-05-2005	6.34	5.16	4.72	4.09	3.58	2.72	1.46	1.94	250	1,046	54	19
rigid-B-I675-CS73101-12-05-2005	7.17	6.22	5.75	5	4.41	3.43	1.73	1.97	250	1,494	21	18
rigid-B-I675-CS73101-12-05-2005	6.38	5.16	4.72	4.13	3.62	2.76	1.5	2.08	250	1,018	57	19
rigid-B-I675-CS73101-12-05-2005	7.2	6.22	5.71	5	4.41	3.43	1.69	2.28	250	1,558	17	19
rigid-B-I675-CS73101-12-05-2005	6.46	5.2	4.8	4.13	3.66	2.76	1.46	2.37	250	1,041	51	19
rigid-B-I675-CS73101-12-05-2005	7.36	6.14	5.75	5.04	4.57	3.58	1.85	2.94	250	1,484	26	16
rigid-BI75-CS73101-08-15-2001	5.28	4.72	4.33	3.86	3.43	2.68	1.57	0.41	200	1,761	66	16
rigid-BI75-CS73101-08-15-2001	5.28	4.69	4.29	3.82	3.39	2.68	1.57	0.69	200	1,713	69	16
rigid-BI75-CS73101-08-15-2001	8.03	6.77	6.06	5.2	4.41	3.15	1.5	0.95	200	885	27	17
rigid-BI75-CS73101-08-15-2001	3.98	3.58	3.39	2.99	2.72	2.17	1.26	0.99	200	3,210	62	20
rigid-BI75-CS73101-08-15-2001	9.72	8.5	7.87	7.01	6.18	4.72	2.48	1.07	200	1,128	20	11
rigid-BI75-CS73101-08-15-2001	8.03	6.73	6.02	5.16	4.37	3.11	1.46	1.10	200	881	26	18
rigid-BI75-CS73101-08-15-2001	3.94	3.54	3.35	2.99	2.68	2.17	1.22	1.22	200	3,460	50	21
rigid-BI75-CS73101-08-15-2001	7.91	6.65	6.02	5.31	4.65	3.5	1.89	1.25	200	909	42	13
rigid-BI75-CS73101-08-15-2001	8.27	6.97	6.3	5.47	4.72	3.54	1.81	1.30	200	891	35	14
rigid-BI75-CS73101-08-15-2001	8.66	7.28	6.61	5.75	5.04	3.74	1.93	1.37	200	884	33	13
rigid-BI75-CS73101-08-15-2001	9.8	8.35	7.6	6.69	5.79	4.21	2.01	1.38	200	951	16	13
rigid-BI75-CS73101-08-15-2001	8.03	6.73	6.02	5.2	4.37	3.15	1.46	1.38	200	911	25	18
rigid-BI75-CS73101-08-15-2001	9.88	8.66	7.91	7.09	6.22	4.84	2.56	1.39	200	1,033	24	10
rigid-BI75-CS73101-08-15-2001	9.8	8.39	7.64	6.69	5.79	4.25	2.01	1.43	200	968	16	13

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-BI75-CS73101-08-15-2001	8.07	6.81	6.22	5.47	4.76	3.62	1.89	1.47	200	1,000	35	13
rigid-BI75-CS73101-08-15-2001	11.14	9.49	8.66	7.64	6.65	5	2.52	1.50	200	817	20	10
rigid-BI75-CS73101-08-15-2001	6.42	5.47	5.08	4.45	3.94	3.03	1.61	1.50	200	1,412	42	16
rigid-BI75-CS73101-08-15-2001	6.42	5.47	5.08	4.45	3.94	3.03	1.61	1.50	200	1,410	42	16
rigid-BI75-CS73101-08-15-2001	8.15	6.93	6.3	5.59	4.88	3.74	1.97	1.54	200	1,029	34	13
rigid-BI75-CS73101-08-15-2001	7.44	6.3	5.75	5	4.37	3.31	1.69	1.56	200	1,100	36	15
rigid-BI75-CS73101-08-15-2001	9.76	8.54	7.8	6.93	6.18	4.76	2.48	1.58	200	1,110	21	11
rigid-BI75-CS73101-08-15-2001	12.32	10.59	9.61	8.54	7.36	5.47	2.6	1.59	200	811	12	10
rigid-BI75-CS73101-08-15-2001	7.44	6.3	5.75	5	4.41	3.31	1.69	1.60	200	1,109	35	15
rigid-BI75-CS73101-08-15-2001	10.59	9.06	8.23	7.24	6.3	4.72	2.32	1.60	200	884	19	11
rigid-BI75-CS73101-08-15-2001	9.69	8.27	7.56	6.65	5.71	4.25	2.01	1.61	200	969	17	13
rigid-BI75-CS73101-08-15-2001	8.31	6.97	6.3	5.47	4.72	3.58	1.81	1.68	200	892	35	14
rigid-BI75-CS73101-08-15-2001	8.31	7.05	6.46	5.67	4.96	3.78	1.93	1.68	200	1,022	31	13
rigid-BI75-CS73101-08-15-2001	8.07	6.81	6.26	5.43	4.72	3.62	1.85	1.69	200	997	34	14
rigid-BI75-CS73101-08-15-2001	12.44	10.67	9.72	8.58	7.44	5.51	2.56	1.72	200	821	10	11
rigid-BI75-CS73101-08-15-2001	6.42	5.47	5.08	4.45	3.9	3.03	1.57	1.75	200	1,440	39	16
rigid-BI75-CS73101-08-15-2001	7.44	6.26	5.75	5	4.33	3.27	1.61	1.79	200	1,168	29	16
rigid-BI75-CS73101-08-15-2001	12.13	10.2	9.29	8.11	6.93	5	2.2	1.82	200	770	10	13
rigid-BI75-CS73101-08-15-2001	7.44	6.3	5.79	5	4.41	3.39	1.73	1.90	200	1,142	36	15
rigid-BI75-CS73101-08-15-2001	10.63	9.06	8.19	7.24	6.3	4.76	2.32	1.96	200	887	19	11
rigid-BI75-CS73101-08-15-2001	10.83	9.25	8.46	7.48	6.34	4.84	2.28	2.00	200	876	16	12
rigid-BI75-CS73101-08-15-2001	10.83	9.29	8.39	7.4	6.38	4.84	2.28	2.07	200	906	15	12
rigid-BI75-CS73101-08-15-2001	7.36	6.22	5.71	4.96	4.29	3.27	1.57	2.08	200	1,243	26	17
rigid-BI75-CS73101-08-15-2001	7.44	6.26	5.71	5	4.33	3.27	1.57	2.09	200	1,221	26	17

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-BI75-CS73101-08-15-2001	7.87	6.65	6.1	5.31	4.65	3.66	1.89	2.15	200	1,033	37	13
rigid-BI75-CS73101-08-15-2001	10.91	9.25	8.43	7.48	6.38	4.88	2.28	2.30	200	906	14	12
rigid-BI75-CS73101-08-15-2001	7.95	6.5	5.94	5.28	4.61	3.5	1.81	2.30	200	1,000	38	14
rigid-BI75-CS73101-08-15-2001	7.95	6.5	5.94	5.24	4.61	3.5	1.77	2.53	200	1,004	36	14
rigid-BI75-CS73101-08-15-2001	7.95	6.5	5.94	5.28	4.65	3.5	1.77	2.55	200	1,028	34	14
rigid-BI75-CS73101-11-30-1999	3.70	3.43	3.23	3.03	2.72	2.24	1.34	0.68	100	4,963	87	8
rigid-BI75-CS73101-11-30-1999	3.90	3.74	3.54	3.31	3.07	2.48	1.54	0.76	100	6,484	43	7
rigid-BI75-CS73101-11-30-1999	3.46	3.23	3.07	2.91	2.60	2.13	1.30	0.77	100	6,064	76	9
rigid-BI75-CS73101-11-30-1999	3.43	3.19	3.03	2.87	2.56	2.09	1.26	0.79	100	5,988	73	9
rigid-BI75-CS73101-11-30-1999	3.62	3.43	3.23	3.03	2.72	2.20	1.30	0.81	100	5,903	54	9
rigid-BI75-CS73101-11-30-1999	3.66	3.39	3.19	3.03	2.72	2.20	1.34	0.88	100	5,076	86	8
rigid-BI75-CS73101-11-30-1999	6.89	6.26	5.67	5.04	4.33	3.07	1.42	0.92	100	1,475	31	9
rigid-BI75-CS73101-11-30-1999	6.81	6.26	5.71	5.04	4.29	3.03	1.42	1.41	100	1,455	32	9
rigid-BI75-CS73101-11-30-1999	11.50	10.39	9.41	8.15	6.77	4.49	1.85	1.71	100	731	15	7
rigid-BI75-CS73101-11-30-1999	10.28	9.13	8.31	7.20	5.91	3.90	1.61	1.78	100	777	19	8
rigid-BI75-CS73101-11-30-1999	11.34	10.28	9.37	8.15	6.73	4.49	1.85	1.81	100	771	14	7
rigid-BI75-CS73101-11-30-1999	11.38	10.31	9.29	8.19	6.73	4.49	1.85	1.83	100	764	14	7
rigid-BI75-CS73101-11-30-1999	10.39	9.21	8.31	7.24	5.98	3.94	1.69	1.92	100	735	22	8
rigid-BI75-CS73101-11-30-1999	9.69	8.62	7.80	6.93	5.63	3.70	1.50	1.99	100	882	18	9
rigid-BI75-CS73101-11-30-1999	10.24	9.13	8.27	7.24	5.91	3.94	1.69	2.02	100	765	22	8
rigid-BI75-CS73101-11-30-1999	9.72	8.70	7.87	7.01	5.71	3.74	1.50	2.04	100	927	15	9
rigid-BI75-CS73101-11-30-1999	9.61	8.70	7.87	6.97	5.71	3.74	1.50	2.06	100	954	14	9
rigid-BI75-CS73101-11-30-1999	9.09	8.19	7.36	6.34	5.12	3.23	1.22	2.40	100	859	17	11
rigid-BI75-CS73101-11-30-1999	9.09	8.23	7.40	6.42	5.16	3.27	1.22	2.41	100	904	15	12

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-B-I75-CS6111-09-13-2001	4.06	3.66	3.43	3.11	2.80	2.28	1.42	0.83	700	3,275	51	28
rigid-B-I75-CS6111-09-13-2001	6.22	5.31	4.88	4.37	3.90	3.07	1.93	1.04	700	1,323	59	20
rigid-B-I75-CS6111-09-13-2001	6.89	5.91	5.35	4.76	4.21	3.23	1.93	1.08	700	1,150	43	20
rigid-B-I75-CS6111-09-13-2001	5.67	5.00	4.57	4.02	3.58	2.80	1.61	1.25	700	1,796	35	25
rigid-B-I75-CS6111-09-13-2001	6.06	5.20	4.80	4.29	3.82	3.07	1.89	1.33	700	1,440	58	20
rigid-B-I75-CS6111-09-13-2001	5.71	4.96	4.61	4.06	3.58	2.80	1.57	1.39	700	1,852	30	26
rigid-B-I75-CS6111-09-13-2001	7.05	6.10	5.59	4.96	4.41	3.43	1.97	1.42	700	1,389	30	20
rigid-B-I75-CS6111-09-13-2001	6.06	5.20	4.80	4.29	3.82	3.11	1.93	1.42	700	1,412	64	20
rigid-B-I75-CS6111-09-13-2001	6.89	5.98	5.47	4.92	4.33	3.39	1.93	1.51	700	1,526	28	21
rigid-B-I75-CS6111-09-13-2001	7.20	6.10	5.55	4.92	4.29	3.27	1.81	1.61	700	1,243	28	22
rigid-B-I75-CS6111-09-13-2001	5.83	5.08	4.65	4.09	3.66	2.83	1.57	1.61	700	1,826	28	26
rigid-B-I75-CS6111-09-13-2001	6.69	5.71	5.20	4.65	4.06	3.23	1.89	1.65	700	1,270	43	20
rigid-B-I75-CS6111-09-13-2001	5.94	5.08	4.61	4.09	3.54	2.76	1.54	1.65	700	1,476	38	25
rigid-B-I75-CS6111-09-13-2001	6.61	5.59	5.16	4.53	4.02	3.11	1.77	1.70	700	1,362	35	22
rigid-B-I75-CS6111-09-13-2001	7.68	6.50	5.91	5.20	4.53	3.46	1.89	1.70	700	1,133	26	21
rigid-B-I75-CS6111-09-13-2001	6.50	5.59	5.20	4.61	4.13	3.27	1.89	1.75	700	1,641	33	21
rigid-B-I75-CS6111-09-13-2001	6.81	5.75	5.28	4.65	4.09	3.19	1.81	1.77	700	1,259	36	21
rigid-B-I75-CS6111-09-13-2001	6.93	5.98	5.51	4.92	4.33	3.43	1.93	1.78	700	1,542	27	21
rigid-B-I75-CS6111-09-13-2001	6.61	5.55	5.12	4.53	4.09	3.31	2.05	1.80	700	1,133	64	18
rigid-B-I75-CS6111-09-13-2001	7.32	6.02	5.47	4.76	4.17	3.15	1.77	1.81	700	1,001	37	22
rigid-B-I75-CS6111-09-13-2001	7.32	6.06	5.51	4.84	4.17	3.19	1.77	1.81	700	1,051	34	22
rigid-B-I75-CS6111-09-13-2001	5.87	4.96	4.57	4.02	3.50	2.72	1.50	1.82	700	1,597	35	27
rigid-B-I75-CS6111-09-13-2001	6.61	5.55	5.08	4.53	4.06	3.31	2.05	1.85	700	1,098	67	18
rigid-B-I75-CS6111-09-13-2001	6.57	5.71	5.24	4.69	4.21	3.35	1.93	1.85	700	1,644	31	20

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-B-I75-CS6111-09-13-2001	5.83	4.92	4.53	3.98	3.50	2.68	1.46	1.86	700	1,623	32	27
rigid-B-I75-CS6111-09-13-2001	6.50	5.63	5.20	4.65	4.13	3.31	1.89	1.88	700	1,695	30	21
rigid-B-I75-CS6111-09-13-2001	7.48	6.18	5.63	4.92	4.29	3.27	1.81	1.94	700	1,049	32	21
rigid-B-I75-CS6111-09-13-2001	6.61	5.67	5.12	4.53	3.98	3.15	1.77	2.00	700	1,320	37	22
rigid-B-I75-CS6111-09-13-2001	7.28	6.22	5.67	5.04	4.41	3.43	1.85	2.02	700	1,369	23	22
rigid-B-I75-CS6111-09-13-2001	7.20	6.06	5.51	4.88	4.25	3.27	1.77	2.04	700	1,260	27	22
rigid-B-I75-CS6111-09-13-2001	7.09	6.02	5.51	5.00	4.49	3.62	2.20	2.04	700	1,280	48	17
rigid-B-I75-CS6111-09-13-2001	7.13	6.06	5.55	4.92	4.29	3.35	1.81	2.07	700	1,396	24	22
rigid-B-I75-CS6111-09-13-2001	7.17	6.10	5.55	4.92	4.29	3.35	1.81	2.11	700	1,357	25	22
rigid-B-I75-CS6111-09-13-2001	7.24	5.98	5.43	4.72	4.09	3.07	1.61	2.13	700	1,129	26	24
rigid-B-I75-CS6111-09-13-2001	7.13	6.02	5.51	5.00	4.49	3.62	2.20	2.14	700	1,224	49	17
rigid-B-I75-CS6111-09-13-2001	7.91	6.65	6.14	5.55	5.08	4.13	2.60	2.16	700	1,068	54	14
rigid-B-I75-CS6111-09-13-2001	7.17	5.94	5.39	4.69	4.06	3.07	1.61	2.17	700	1,138	26	24
rigid-B-I75-CS6111-09-13-2001	6.61	5.51	5.04	4.45	3.90	3.07	1.73	2.18	700	1,254	40	22
rigid-B-I75-CS6111-09-13-2001	7.28	6.10	5.51	4.80	4.17	3.15	1.61	2.26	700	1,193	22	24
rigid-B-I75-CS6111-09-13-2001	6.93	5.71	5.28	4.65	4.06	3.11	1.69	2.27	700	1,279	30	23
rigid-B-I75-CS6111-09-13-2001	6.65	5.51	5.08	4.45	3.94	3.11	1.77	2.28	700	1,230	42	22
rigid-B-I75-CS6111-09-13-2001	7.76	6.57	6.10	5.51	5.04	4.17	2.60	2.32	700	1,165	54	14
rigid-B-I75-CS6111-09-13-2001	6.93	5.79	5.28	4.69	4.13	3.27	1.85	2.33	700	1,197	40	21
rigid-B-I75-CS6111-09-13-2001	7.36	6.22	5.67	5.16	4.61	3.74	2.24	2.35	700	1,269	42	17
rigid-B-I75-CS6111-09-13-2001	6.73	5.67	5.16	4.61	4.06	3.23	1.81	2.42	700	1,370	36	21
rigid-B-I75-CS6111-09-13-2001	6.97	5.75	5.31	4.65	4.06	3.15	1.69	2.49	700	1,290	29	23
rigid-B-I75-CS6111-09-13-2001	7.72	6.54	6.06	5.47	4.96	4.17	2.56	2.56	700	1,157	54	14
rigid-B-I75-CS6111-09-13-2001	7.20	5.94	5.43	4.80	4.21	3.27	1.77	2.61	700	1,197	31	22

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-B-I75-CS6111-09-13-2001	6.93	5.59	5.12	4.57	3.98	3.19	1.85	2.67	700	1,016	53	20
rigid-B-I75-CS6111-09-13-2001	6.73	5.43	4.96	4.41	3.86	3.11	1.81	2.69	700	1,002	59	21
rigid-B-I75-CS6111-09-13-2001	6.73	5.39	4.92	4.41	3.90	3.11	1.81	2.96	700	1,036	58	21
rigid-B-I75-CS9035-07-02-2008	4.10	3.69	3.50	3.26	3.03	2.53	1.71	0.82	175	3,071	148	11
rigid-B-I75-CS9035-07-02-2008	5.10	4.67	4.36	4.06	3.69	2.99	1.78	0.92	175	3,142	41	12
rigid-B-I75-CS9035-07-02-2008	3.97	3.61	3.44	3.19	2.92	2.40	1.46	0.95	175	4,522	52	15
rigid-B-I75-CS9035-07-02-2008	3.58	3.30	3.15	2.96	2.72	2.26	1.37	0.99	175	6,788	17	19
rigid-B-I75-CS9035-07-02-2008	4.04	3.70	3.51	3.31	3.02	2.55	1.63	1.00	175	4,534	76	12
rigid-B-I75-CS9035-07-02-2008	3.98	3.61	3.44	3.22	2.89	2.34	1.35	1.05	175	4,920	20	19
rigid-B-I75-CS9035-07-02-2008	4.04	3.66	3.51	3.28	3.00	2.50	1.56	1.08	175	4,555	61	13
rigid-B-I75-CS9035-07-02-2008	4.15	3.73	3.54	3.30	3.06	2.53	1.64	1.09	175	3,416	110	12
rigid-B-I75-CS9035-07-02-2008	5.12	4.63	4.37	4.04	3.68	2.98	1.74	1.10	175	3,284	33	13
rigid-B-I75-CS9035-07-02-2008	3.90	3.48	3.26	3.03	2.75	2.22	1.35	1.12	175	3,362	86	16
rigid-B-I75-CS9035-07-02-2008	5.10	4.70	4.38	4.07	3.75	3.04	1.79	1.12	175	3,654	27	13
rigid-B-I75-CS9035-07-02-2008	3.51	3.19	3.00	2.79	2.53	2.04	1.16	1.15	175	5,287	27	22
rigid-B-I75-CS9035-07-02-2008	3.92	3.52	3.32	3.09	2.81	2.28	1.37	1.15	175	3,955	64	16
rigid-B-I75-CS9035-07-02-2008	4.14	3.72	3.54	3.31	3.07	2.59	1.71	1.15	175	3,521	126	11
rigid-B-I75-CS9035-07-02-2008	3.71	3.34	3.18	2.99	2.74	2.26	1.42	1.20	175	4,610	78	15
rigid-B-I75-CS9035-07-02-2008	4.00	3.61	3.46	3.25	3.00	2.48	1.57	1.21	175	4,671	65	13
rigid-B-I75-CS9035-07-02-2008	3.70	3.32	3.18	2.97	2.70	2.25	1.40	1.22	175	4,470	81	15
rigid-B-I75-CS9035-07-02-2008	4.15	3.80	3.64	3.42	3.22	2.71	1.76	1.24	175	5,389	58	11
rigid-B-I75-CS9035-07-02-2008	3.61	3.22	3.03	2.81	2.53	2.05	1.20	1.27	175	4,093	66	19
rigid-B-I75-CS9035-07-02-2008	4.02	3.62	3.43	3.25	2.95	2.42	1.50	1.28	175	4,348	61	14
rigid-B-I75-CS9035-07-02-2008	3.99	3.62	3.45	3.23	2.96	2.51	1.57	1.34	175	4,686	68	13

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-B-I75-CS9035-07-02-2008	3.98	3.59	3.46	3.22	2.97	2.50	1.55	1.41	175	4,892	58	14
rigid-B-I75-CS9035-07-02-2008	3.97	3.56	3.40	3.20	2.95	2.48	1.59	1.41	175	4,374	88	12
rigid-B-I75-CS9035-07-02-2008	4.06	3.67	3.46	3.22	2.92	2.39	1.36	1.44	175	4,705	23	19
rigid-B-I75-CS9035-07-02-2008	3.61	3.22	3.04	2.82	2.54	2.07	1.19	1.46	175	4,458	51	19
rigid-B-I75-CS9035-07-02-2008	4.25	3.84	3.69	3.48	3.26	2.75	1.78	1.50	175	5,068	65	11
rigid-B-I75-CS9035-07-02-2008	3.71	3.34	3.21	2.99	2.79	2.29	1.39	1.51	175	5,833	33	17
rigid-B-I75-CS9035-07-02-2008	3.76	3.35	3.15	2.95	2.68	2.17	1.27	1.56	175	4,270	54	18
rigid-B-I75-CS9035-07-02-2008	3.69	3.29	3.08	2.88	2.61	2.10	1.20	1.60	175	4,436	45	20
rigid-B-I75-CS9035-07-02-2008	3.68	3.34	3.15	2.99	2.75	2.28	1.37	1.61	175	6,108	25	18
rigid-B-I75-CS9035-07-02-2008	3.89	3.46	3.28	3.07	2.76	2.28	1.34	1.62	175	4,201	56	17
rigid-B-I75-CS9035-07-02-2008	4.23	3.84	3.64	3.45	3.25	2.72	1.75	1.62	175	5,012	62	11
rigid-B-I75-CS9035-07-02-2008	4.08	3.64	3.43	3.22	2.95	2.41	1.42	1.73	175	4,476	40	16
rigid-B-I75-CS9035-07-02-2008	3.72	3.32	3.13	2.89	2.65	2.16	1.21	1.85	175	4,871	31	20
rigid-B-US127-CS29011-06-27-2008	4.52	4.14	3.96	3.77	3.51	2.99	2.1	0.83	175	3,815	131	8
rigid-B-US127-CS29011-06-27-2008	4.52	4.19	4	3.83	3.55	3.04	2.03	1.01	175	5,446	58	10
rigid-B-US127-CS29011-06-27-2008	4.65	4.29	4.08	3.89	3.58	2.99	1.91	1.02	175	4,985	35	11
rigid-B-US127-CS29011-06-27-2008	4.54	4.16	3.96	3.75	3.53	3	2.06	1.06	175	3,982	115	9
rigid-B-US127-CS29011-06-27-2008	4.03	3.69	3.51	3.33	3.02	2.5	1.5	1.17	175	5,826	15	18
rigid-B-US127-CS29011-06-27-2008	3.86	3.53	3.34	3.17	2.89	2.41	1.49	1.21	175	5,348	45	15
rigid-B-US127-CS29011-06-27-2008	4.15	3.8	3.64	3.47	3.2	2.7	1.73	1.22	175	5,833	39	12
rigid-B-US127-CS29011-06-27-2008	4.13	3.77	3.57	3.38	3.14	2.63	1.7	1.22	175	4,653	74	12
rigid-B-US127-CS29011-06-27-2008	3.78	3.43	3.28	3.07	2.8	2.34	1.42	1.27	175	5,362	41	16
rigid-B-US127-CS29011-06-27-2008	4.6	4.24	3.99	3.81	3.51	2.97	1.89	1.32	175	4,787	45	11
rigid-B-US127-CS29011-06-27-2008	3.56	3.19	3	2.79	2.53	2	1.11	1.38	175	5,002	24	24

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-B-US127-CS29011-06-27-2008	4.62	4.3	4.03	3.86	3.59	3.02	1.9	1.38	175	5,680	18	12
rigid-B-US127-CS29011-06-27-2008	4.02	3.65	3.46	3.3	3.01	2.49	1.53	1.39	175	5,332	35	15
rigid-B-US127-CS29011-06-27-2008	4.12	3.74	3.56	3.36	3.1	2.6	1.62	1.40	175	5,044	47	13
rigid-B-US127-CS29011-06-27-2008	3.8	3.45	3.26	3.13	2.83	2.36	1.48	1.42	175	5,104	59	14
rigid-B-US127-CS29011-06-27-2008	3.92	3.54	3.39	3.22	2.95	2.47	1.55	1.43	175	5,433	51	14
rigid-B-US127-CS29011-06-27-2008	3.9	3.56	3.36	3.22	2.97	2.45	1.53	1.44	175	5,727	38	15
rigid-B-US127-CS29011-06-27-2008	4.14	3.8	3.64	3.46	3.21	2.74	1.72	1.45	175	6,820	14	14
rigid-B-US127-CS29011-06-27-2008	3.87	3.52	3.33	3.17	2.91	2.44	1.52	1.46	175	5,447	49	14
rigid-B-US127-CS29011-06-27-2008	3.4	3.05	2.85	2.67	2.44	1.98	1.18	1.47	175	4,639	70	19
rigid-B-US127-CS29011-06-27-2008	4.01	3.62	3.44	3.27	3	2.47	1.5	1.53	175	5,365	31	15
rigid-B-US127-CS29011-06-27-2008	3.83	3.46	3.29	3.09	2.82	2.37	1.43	1.55	175	5,206	43	15
rigid-B-US127-CS29011-06-27-2008	3.91	3.57	3.37	3.2	2.97	2.48	1.52	1.58	175	6,134	24	16
rigid-B-US127-CS29011-06-27-2008	4.19	3.84	3.63	3.5	3.24	2.75	1.73	1.68	175	6,493	19	14
rigid-B-US127-CS29011-06-27-2008	3.53	3.2	2.94	2.73	2.52	1.98	1.09	1.74	175	4,863	26	24
rigid-B-US127-CS29011-06-27-2008	4.12	3.76	3.53	3.38	3.14	2.63	1.63	1.74	175	5,671	32	14
rigid-B-US127-CS29011-06-27-2008	3.84	3.46	3.28	3.07	2.82	2.37	1.41	1.78	175	5,200	41	16
rigid-B-US127-CS29011-06-27-2008	3.44	3.09	2.89	2.7	2.5	2.03	1.16	1.90	175	5,671	28	22
rigid-B-US127-CS29011-06-27-2008	3.41	3.02	2.83	2.65	2.45	1.98	1.16	1.98	175	4,841	60	19
rigid-B-US23-CS25031-08-30-2005	6.10	5.21	4.72	4.07	3.64	2.78	1.72	0.71	700	909	50	22
rigid-B-US23-CS25031-08-30-2005	5.12	4.24	3.82	3.40	3.06	2.46	1.56	1.36	700	996	89	23
rigid-B-US23-CS25031-08-30-2005	5.55	4.55	4.16	3.58	3.23	2.49	1.50	1.46	700	964	60	25
rigid-B-US23-CS25031-08-30-2005	5.27	4.33	3.98	3.45	3.13	2.50	1.55	1.59	700	974	77	23
rigid-B-US23-CS25031-08-30-2005	5.67	4.68	4.30	3.72	3.37	2.71	1.67	1.67	700	942	71	22
rigid-B-US23-CS25031-08-30-2005	5.75	4.76	4.33	3.81	3.45	2.75	1.69	1.68	700	958	66	21

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-B-US23-CS25031-08-30-2005	4.52	3.67	3.38	2.94	2.64	2.08	1.26	1.71	700	1,186	80	29
rigid-B-US23-CS25031-08-30-2005	4.93	4.02	3.66	3.19	2.89	2.26	1.37	1.77	700	1,070	74	27
rigid-B-US23-CS25031-08-30-2005	5.76	4.73	4.27	3.67	3.25	2.50	1.40	1.89	700	977	44	27
rigid-B-US23-CS25031-08-30-2005	4.51	3.66	3.35	2.95	2.62	2.09	1.23	2.15	700	1,224	75	30
rigid-B-US23-CS25031-08-30-2005	5.76	4.71	4.25	3.69	3.25	2.50	1.37	2.15	700	1,011	40	27
rigid-B-US23-CS25031-08-30-2005	4.50	3.61	3.29	2.91	2.59	2.00	1.15	2.34	700	1,290	65	33
rigid-B-US23-CS25031-08-30-2005	5.64	4.56	4.14	3.60	3.22	2.49	1.40	2.39	700	1,017	48	26
rigid-B-US23-CS25031-08-30-2005	4.30	3.48	3.19	2.75	2.46	1.88	1.03	2.42	700	1,429	53	37
rigid-B-US23-CS25031-08-30-2005	4.29	3.43	3.15	2.73	2.43	1.89	1.06	2.53	700	1,328	65	35
rigid-B-US23-CS25031-08-30-2005	4.31	3.48	3.11	2.74	2.45	1.93	1.10	2.68	700	1,332	70	34
rigid-B-US23-CS25031-08-30-2005	4.79	3.88	3.58	3.10	2.75	2.15	1.16	2.72	700	1,364	44	33
rigid-B-US23-CS25031-08-30-2005	5.60	4.53	4.15	3.58	3.18	2.52	1.38	2.83	700	1,020	47	26
rigid-B-US23-CS25031-08-30-2005	4.47	3.59	3.26	2.89	2.60	2.05	1.16	2.96	700	1,355	65	32
rigid-B-US23-CS25031-08-23-2005	3.40	2.97	2.77	2.48	2.27	1.83	1.15	1.13	700	2,500	76	32
rigid-B-US23-CS25031-08-23-2005	5.62	4.63	4.26	3.73	3.33	2.56	1.52	1.44	700	1,064	49	24
rigid-B-US23-CS25031-08-23-2005	3.34	2.93	2.74	2.43	2.21	1.81	1.10	1.50	700	2,656	66	34
rigid-B-US23-CS25031-08-23-2005	6.93	5.90	5.44	4.82	4.32	3.35	1.91	1.52	700	1,147	25	20
rigid-B-US23-CS25031-08-23-2005	7.22	6.11	5.64	4.99	4.47	3.48	2.01	1.54	700	1,010	28	19
rigid-B-US23-CS25031-08-23-2005	6.35	5.46	4.99	4.40	3.95	3.08	1.74	1.60	700	1,217	26	22
rigid-B-US23-CS25031-08-23-2005	4.90	3.97	3.59	3.16	2.77	2.10	1.21	1.64	700	1,130	55	31
rigid-B-US23-CS25031-08-23-2005	8.23	6.89	6.24	5.47	4.83	3.71	2.08	1.64	700	735	27	18
rigid-B-US23-CS25031-08-23-2005	4.95	4.07	3.74	3.31	3.00	2.35	1.44	1.73	700	1,168	68	25
rigid-B-US23-CS25031-08-23-2005	6.88	5.86	5.42	4.79	4.29	3.35	1.87	1.75	700	1,184	23	21
rigid-B-US23-CS25031-08-23-2005	4.84	3.92	3.63	3.20	2.84	2.21	1.32	1.77	700	1,199	63	28

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-B-US23-CS25031-08-23-2005	3.96	3.17	2.92	2.55	2.23	1.75	1.03	1.83	700	1,316	82	35
rigid-B-US23-CS25031-08-23-2005	3.98	3.20	2.95	2.55	2.28	1.73	1.00	1.92	700	1,389	69	37
rigid-B-US23-CS25031-08-23-2005	5.14	4.14	3.82	3.31	2.92	2.21	1.23	2.01	700	1,115	44	30
rigid-B-US23-CS25031-08-23-2005	6.67	5.42	4.98	4.34	3.82	2.85	1.53	2.02	700	976	26	25
rigid-B-US23-CS25031-08-23-2005	5.70	4.69	4.29	3.77	3.38	2.60	1.48	2.03	700	1,128	41	25
rigid-B-US23-CS25031-08-23-2005	8.05	6.73	6.11	5.34	4.74	3.67	1.98	2.19	700	853	23	19
rigid-B-US23-CS25031-08-23-2005	4.86	3.91	3.55	3.10	2.73	2.08	1.15	2.23	700	1,170	50	32
rigid-B-US23-CS25031-08-23-2005	3.96	3.25	2.98	2.61	2.36	1.88	1.10	2.32	700	1,543	75	33
rigid-B-US23-CS25031-08-23-2005	3.35	2.88	2.61	2.28	2.06	1.61	0.86	2.33	700	2,420	39	46
rigid-B-US23-CS25031-08-23-2005	5.92	4.85	4.44	3.96	3.55	2.75	1.57	2.34	700	1,082	41	23
rigid-B-US23-CS25031-08-23-2005	8.01	6.70	6.07	5.28	4.70	3.64	1.93	2.39	700	883	21	20
rigid-B-US23-CS25031-08-23-2005	4.25	3.50	3.10	2.70	2.43	1.88	1.06	2.42	700	1,299	62	34
rigid-B-US23-CS25031-08-23-2005	4.81	3.98	3.59	3.14	2.86	2.19	1.23	2.42	700	1,296	49	30
rigid-B-US23-CS25031-08-23-2005	4.09	3.31	2.99	2.68	2.41	1.95	1.18	2.43	700	1,274	103	31
rigid-B-US23-CS25031-08-23-2005	4.14	3.38	3.05	2.70	2.46	2.02	1.23	2.51	700	1,243	106	29
rigid-B-US23-CS25031-08-23-2005	3.92	3.20	2.94	2.59	2.34	1.90	1.09	2.94	700	1,749	68	34
rigid-B-US23-CS25031-11-15-2005	7.78	6.51	5.99	5.28	4.62	3.58	2.14	0.90	700	813	36	18
rigid-B-US23-CS25031-11-15-2005	7.44	6.15	5.66	4.92	4.27	3.19	1.81	0.97	700	835	30	22
rigid-B-US23-CS25031-11-15-2005	5.72	4.81	4.52	3.98	3.46	2.64	1.53	1.02	700	1,289	34	26
rigid-B-US23-CS25031-11-15-2005	7.79	6.46	5.98	5.26	4.61	3.57	2.13	1.09	700	806	37	18
rigid-B-US23-CS25031-11-15-2005	7.43	6.13	5.67	4.92	4.24	3.25	1.86	1.15	700	822	33	21
rigid-B-US23-CS25031-11-15-2005	5.38	4.42	4.09	3.56	3.13	2.37	1.39	1.16	700	1,128	50	28
rigid-B-US23-CS25031-11-15-2005	6.21	5.08	4.76	4.22	3.72	2.94	1.86	1.24	700	939	63	20
rigid-B-US23-CS25031-11-15-2005	5.42	4.43	4.10	3.62	3.13	2.37	1.39	1.26	700	1,124	49	28

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-B-US23-CS25031-11-15-2005	7.70	6.41	5.88	5.19	4.54	3.54	2.08	1.26	700	829	35	19
rigid-B-US23-CS25031-11-15-2005	7.66	6.34	5.89	5.23	4.59	3.57	2.14	1.30	700	865	36	18
rigid-B-US23-CS25031-11-15-2005	5.77	4.85	4.53	4.02	3.48	2.67	1.47	1.40	700	1,389	26	28
rigid-B-US23-CS25031-11-15-2005	7.66	6.34	5.92	5.23	4.59	3.61	2.15	1.44	700	867	37	18
rigid-B-US23-CS25031-11-15-2005	5.32	4.28	3.99	3.49	3.05	2.33	1.39	1.50	700	1,067	58	28
rigid-B-US23-CS25031-11-15-2005	6.18	5.10	4.78	4.24	3.73	2.94	1.77	1.52	700	1,058	49	22
rigid-B-US23-CS25031-11-15-2005	7.72	6.40	5.99	5.30	4.60	3.62	2.11	1.54	700	888	32	18
rigid-B-US23-CS25031-11-15-2005	5.08	4.18	3.91	3.40	2.97	2.31	1.33	1.55	700	1,284	48	29
rigid-B-US23-CS25031-11-15-2005	5.77	4.83	4.54	4.00	3.46	2.66	1.44	1.59	700	1,381	25	29
rigid-B-US23-CS25031-11-15-2005	6.54	5.49	5.14	4.59	4.02	3.08	1.69	1.62	700	1,326	20	25
rigid-B-US23-CS25031-11-15-2005	7.42	6.04	5.61	4.93	4.20	3.19	1.77	1.63	700	833	30	22
rigid-B-US23-CS25031-11-15-2005	5.44	4.39	4.00	3.55	3.11	2.37	1.39	1.71	700	1,071	54	28
rigid-B-US23-CS25031-11-15-2005	6.25	5.07	4.81	4.22	3.77	2.97	1.83	1.78	700	1,003	56	21
rigid-B-US23-CS25031-11-15-2005	5.32	4.25	3.95	3.51	3.03	2.35	1.40	1.81	700	1,081	60	27
rigid-B-US23-CS25031-11-15-2005	5.14	4.12	3.82	3.29	2.88	2.15	1.19	1.84	700	1,161	44	33
rigid-B-US23-CS25031-11-15-2005	4.98	4.03	3.72	3.30	2.86	2.19	1.23	1.97	700	1,276	47	32
rigid-B-US23-CS25031-11-15-2005	4.91	3.87	3.57	3.16	2.77	2.18	1.32	1.99	700	1,045	81	28
rigid-B-US23-CS25031-11-15-2005	5.17	4.21	3.96	3.47	3.07	2.37	1.35	2.01	700	1,346	44	29
rigid-B-US23-CS25031-11-15-2005	5.14	4.09	3.77	3.29	2.84	2.14	1.18	2.02	700	1,143	46	33
rigid-B-US23-CS25031-11-15-2005	5.35	4.28	4.02	3.50	3.07	2.36	1.35	2.07	700	1,137	50	28
rigid-B-US23-CS25031-11-15-2005	5.19	4.19	3.95	3.45	3.02	2.35	1.34	2.09	700	1,270	48	29
rigid-B-US23-CS25031-11-15-2005	5.17	4.14	3.82	3.29	2.84	2.15	1.15	2.10	700	1,198	40	34
rigid-B-US23-CS25031-11-15-2005	4.82	3.87	3.57	3.20	2.77	2.19	1.29	2.11	700	1,192	68	29
rigid-B-US23-CS25031-11-15-2005	5.34	4.21	3.92	3.39	2.93	2.17	1.18	2.12	700	1,116	40	33

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-B-US23-CS25031-11-15-2005	5.26	4.21	3.88	3.38	2.93	2.19	1.17	2.13	700	1,197	37	34
rigid-B-US23-CS25031-11-15-2005	5.12	4.10	3.77	3.26	2.79	2.10	1.10	2.13	700	1,201	38	36
rigid-B-US23-CS25031-11-15-2005	5.24	4.17	3.93	3.50	3.13	2.48	1.54	2.20	700	1,117	76	24
rigid-B-US23-CS25031-11-15-2005	5.32	4.22	3.82	3.38	2.88	2.12	1.12	2.23	700	1,122	37	35
rigid-B-US23-CS25031-11-15-2005	5.17	4.09	3.82	3.31	2.90	2.16	1.19	2.24	700	1,185	43	33
rigid-B-US23-CS25031-11-15-2005	5.17	4.12	3.84	3.47	3.06	2.44	1.50	2.27	700	1,115	77	25
rigid-B-US23-CS25031-11-15-2005	5.24	4.20	3.93	3.55	3.15	2.48	1.50	2.37	700	1,230	63	25
rigid-B-US23-CS25031-11-15-2005	5.27	4.15	3.84	3.32	2.88	2.15	1.15	2.37	700	1,140	40	34
rigid-B-US23-CS25031-11-15-2005	5.12	4.06	3.73	3.28	2.82	2.12	1.10	2.62	700	1,309	33	36
rigid-B-US23-CS25031-11-15-2005	5.38	4.18	3.87	3.41	3.00	2.27	1.29	2.67	700	1,050	53	30
rigid-B-US23-CS25031-11-16-2005	8.93	7.59	7.09	6.34	5.55	4.28	2.59	0.85	700	830	27	15
rigid-B-US23-CS25031-11-16-2005	9.01	7.63	7.16	6.41	5.62	4.32	2.59	1.02	700	858	24	15
rigid-B-US23-CS25031-11-16-2005	8.99	7.62	7.15	6.39	5.60	4.29	2.53	1.03	700	880	22	16
rigid-B-US23-CS25031-11-16-2005	6.66	5.58	5.20	4.72	4.23	3.41	2.25	1.09	700	970	68	17
rigid-B-US23-CS25031-11-16-2005	5.99	5.06	4.76	4.38	3.96	3.31	2.29	1.12	700	1,111	100	16
rigid-B-US23-CS25031-11-16-2005	6.37	5.34	5.06	4.55	4.06	3.26	2.12	1.18	700	1,090	62	18
rigid-B-US23-CS25031-11-16-2005	6.63	5.61	5.21	4.82	4.29	3.55	2.39	1.19	700	1,014	77	16
rigid-B-US23-CS25031-11-16-2005	8.03	6.92	6.55	5.97	5.43	4.47	2.93	1.22	700	1,086	47	13
rigid-B-US23-CS25031-11-16-2005	6.61	5.52	5.21	4.69	4.19	3.40	2.22	1.23	700	1,007	66	17
rigid-B-US23-CS25031-11-16-2005	8.76	7.56	7.09	6.54	5.82	4.66	2.92	1.24	700	1,069	27	13
rigid-B-US23-CS25031-11-16-2005	7.54	6.29	5.86	5.33	4.68	3.77	2.41	1.29	700	870	52	16
rigid-B-US23-CS25031-11-16-2005	6.35	5.28	4.98	4.49	3.99	3.22	2.09	1.29	700	1,024	67	18
rigid-B-US23-CS25031-11-16-2005	6.75	5.70	5.34	4.95	4.39	3.65	2.47	1.29	700	1,014	77	15
rigid-B-US23-CS25031-11-16-2005	8.87	7.64	7.17	6.58	5.87	4.72	2.92	1.33	700	1,061	26	14

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-B-US23-CS25031-11-16-2005	8.86	7.60	7.15	6.57	5.86	4.70	2.94	1.34	700	1,034	28	13
rigid-B-US23-CS25031-11-16-2005	7.53	6.25	5.85	5.32	4.68	3.79	2.45	1.35	700	852	56	15
rigid-B-US23-CS25031-11-16-2005	7.57	6.34	5.88	5.37	4.72	3.82	2.43	1.36	700	866	52	16
rigid-B-US23-CS25031-11-16-2005	5.92	4.98	4.67	4.33	3.92	3.25	2.23	1.39	700	1,145	96	16
rigid-B-US23-CS25031-11-16-2005	5.92	4.90	4.60	4.20	3.77	3.11	2.09	1.40	700	1,031	93	18
rigid-B-US23-CS25031-11-16-2005	5.46	4.46	4.13	3.71	3.36	2.65	1.74	1.41	700	1,024	90	22
rigid-B-US23-CS25031-11-16-2005	6.50	5.40	5.02	4.57	4.07	3.29	2.12	1.43	700	990	66	18
rigid-B-US23-CS25031-11-16-2005	5.98	5.02	4.75	4.40	3.99	3.35	2.31	1.51	700	1,184	98	16
rigid-B-US23-CS25031-11-16-2005	5.67	4.63	4.29	3.86	3.41	2.71	1.70	1.53	700	1,052	71	22
rigid-B-US23-CS25031-11-16-2005	6.71	5.67	5.33	4.89	4.37	3.62	2.35	1.54	700	1,112	63	16
rigid-B-US23-CS25031-11-16-2005	7.14	6.00	5.59	5.10	4.45	3.50	2.07	1.61	700	1,141	30	19
rigid-B-US23-CS25031-11-16-2005	7.21	6.05	5.65	5.11	4.46	3.56	2.07	1.81	700	1,142	29	19
rigid-B-US23-CS25031-11-16-2005	7.23	6.04	5.65	5.10	4.45	3.51	2.01	1.85	700	1,142	27	20
rigid-B-US23-CS25031-11-16-2005	6.99	5.84	5.46	4.99	4.38	3.45	2.01	1.94	700	1,234	28	20
rigid-B-US23-CS25031-11-16-2005	6.86	5.75	5.34	4.91	4.31	3.39	1.97	1.98	700	1,270	27	21
rigid-B-US23-CS25031-11-16-2005	10.03	8.38	7.84	7.20	6.47	5.17	3.17	2.05	700	855	26	12
rigid-B-US23-CS25031-11-16-2005	6.90	5.72	5.33	4.86	4.30	3.35	1.92	2.18	700	1,229	27	21
rigid-B-US23-CS25031-11-16-2005-(2)	11.90	10.23	9.55	8.67	7.66	6.02	3.65	1.03	700	736	18	11
rigid-B-US23-CS25031-11-16-2005-(2)	11.78	10.10	9.44	8.54	7.57	5.96	3.62	1.06	700	729	19	11
rigid-B-US23-CS25031-11-16-2005-(2)	11.85	10.08	9.44	8.58	7.60	5.96	3.63	1.26	700	725	20	11
rigid-B-US23-CS25031-11-16-2005-(2)	11.88	10.20	9.55	8.63	7.66	5.92	3.35	1.33	700	836	10	13
rigid-B-US23-CS25031-11-16-2005-(2)	6.50	5.25	4.87	4.24	3.67	2.75	1.59	1.34	700	903	41	25
rigid-B-US23-CS25031-11-16-2005-(2)	6.81	5.68	5.30	4.68	4.05	3.06	1.68	1.35	700	1,126	24	25
rigid-B-US23-CS25031-11-16-2005-(2)	9.42	7.96	7.47	6.76	5.94	4.65	2.78	1.35	700	886	23	15

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-B-US23-CS25031-11-16-2005-(2)	6.56	5.33	4.94	4.31	3.73	2.79	1.57	1.44	700	965	35	25
rigid-B-US23-CS25031-11-16-2005-(2)	7.75	6.50	6.06	5.39	4.72	3.58	1.97	1.47	700	1,059	19	21
rigid-B-US23-CS25031-11-16-2005-(2)	6.50	5.31	4.86	4.32	3.72	2.79	1.57	1.52	700	995	34	25
rigid-B-US23-CS25031-11-16-2005-(2)	7.28	5.94	5.52	4.88	4.24	3.19	1.82	1.55	700	930	31	22
rigid-B-US23-CS25031-11-16-2005-(2)	7.28	5.98	5.54	4.93	4.25	3.20	1.79	1.55	700	970	27	23
rigid-B-US23-CS25031-11-16-2005-(2)	6.51	5.32	4.91	4.33	3.71	2.82	1.57	1.57	700	1,005	33	25
rigid-B-US23-CS25031-11-16-2005-(2)	7.68	6.44	5.97	5.34	4.68	3.58	1.99	1.57	700	1,072	21	21
rigid-B-US23-CS25031-11-16-2005-(2)	9.54	8.01	7.55	6.82	5.98	4.71	2.78	1.59	700	885	22	15
rigid-B-US23-CS25031-11-16-2005-(2)	9.48	7.95	7.51	6.76	5.94	4.69	2.78	1.59	700	883	23	15
rigid-B-US23-CS25031-11-16-2005-(2)	7.77	6.34	5.81	5.10	4.37	3.20	1.66	1.66	700	877	20	25
rigid-B-US23-CS25031-11-16-2005-(2)	7.27	5.98	5.50	4.93	4.26	3.23	1.79	1.77	700	992	27	23
rigid-B-US23-CS25031-11-16-2005-(2)	6.51	5.26	4.87	4.27	3.66	2.77	1.52	1.80	700	979	34	26
rigid-B-US23-CS25031-11-16-2005-(2)	8.59	7.08	6.64	6.00	5.36	4.14	2.52	1.84	700	878	32	16
rigid-B-US23-CS25031-11-16-2005-(2)	6.75	5.45	5.05	4.41	3.78	2.85	1.51	2.01	700	999	27	27
rigid-B-US23-CS25031-11-16-2005-(2)	7.75	6.42	5.95	5.37	4.69	3.60	1.97	2.05	700	1,076	20	21
rigid-B-US23-CS25031-11-16-2005-(2)	8.67	7.17	6.69	6.07	5.40	4.22	2.47	2.10	700	931	27	16
rigid-B-US23-CS25031-11-16-2005-(2)	8.59	7.13	6.66	6.00	5.33	4.20	2.33	2.41	700	1,033	19	18
rigid-B-US23-CS25031-10-21-1998	3.54	3.27	3.11	2.95	2.64	2.20	1.42	0.89	500	6,112	31	29
rigid-B-US23-CS25031-10-21-1998	2.99	2.76	2.60	2.44	2.20	1.85	1.18	0.96	500	6,797	43	34
rigid-B-US23-CS25031-10-21-1998	4.17	3.70	3.50	3.19	2.76	2.28	1.46	1.11	500	2,659	85	26
rigid-B-US23-CS25031-10-21-1998	3.62	3.43	3.19	2.99	2.64	2.13	1.42	1.29	500	4,330	62	27
rigid-B-US23-CS25031-10-21-1998	3.74	3.23	3.03	2.72	2.40	1.89	1.10	1.30	500	3,014	58	35
rigid-B-US23-CS25031-10-21-1998	3.58	3.31	3.19	2.99	2.60	2.17	1.42	1.32	500	5,020	49	28
rigid-B-US23-CS25031-10-21-1998	3.03	2.83	2.68	2.56	2.24	1.81	1.18	1.40	500	6,265	41	35

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-B-US23-CS25031-10-21-1998	3.03	2.72	2.60	2.48	2.20	1.81	1.14	1.44	500	6,542	37	36
rigid-B-US23-CS25031-10-21-1998	4.45	3.78	3.50	3.19	2.72	2.13	1.26	1.45	500	2,097	64	30
rigid-B-US23-CS25031-10-21-1998	4.37	3.74	3.46	3.19	2.76	2.13	1.26	1.51	500	2,387	55	31
rigid-B-US23-CS25031-10-21-1998	4.17	3.66	3.46	3.15	2.68	2.24	1.42	1.57	500	2,437	92	26
rigid-B-US23-CS25031-10-21-1998	3.58	3.23	3.11	2.99	2.64	2.24	1.46	1.60	500	6,055	38	27
rigid-B-US23-CS25031-10-21-1998	3.86	3.31	3.11	2.87	2.44	1.93	1.14	1.67	500	2,807	62	34
rigid-B-US23-CS25031-10-21-1998	3.03	2.72	2.56	2.48	2.17	1.77	1.14	1.71	500	5,683	61	35
rigid-B-US23-CS25031-10-21-1998	3.86	3.27	3.11	2.83	2.44	1.93	1.14	1.72	500	2,834	62	34
rigid-B-US23-CS25031-10-21-1998	4.37	3.78	3.50	3.23	2.76	2.20	1.26	1.74	500	2,600	47	31
rigid-B-US23-CS25031-10-21-1998	4.25	3.74	3.50	3.23	2.72	2.28	1.42	1.83	500	2,467	82	26
rigid-B-US23-CS25031-10-21-1998	3.54	3.19	3.07	2.95	2.56	2.20	1.42	1.88	500	5,714	45	28
rigid-B-US23-CS25031-10-21-1998	2.95	2.87	2.80	2.44	2.24	1.81	1.22	2.25	500	6,054	59	33
rigid-B-US23-CS25031-10-21-1998	3.78	3.23	3.03	2.83	2.40	1.97	1.14	2.38	500	3,053	54	32
rigid-B-US23-CS25031-05-30-2001	5.31	4.45	4.02	3.50	3.03	2.28	1.34	0.64	500	1,223	62	27
rigid-B-US23-CS25031-05-30-2001	5.28	4.41	4.02	3.46	3.03	2.24	1.34	0.66	500	1,179	64	27
rigid-B-US23-CS25031-05-30-2001	4.02	3.66	3.43	3.19	2.91	2.44	1.65	0.75	500	3,346	97	21
rigid-B-US23-CS25031-05-30-2001	3.50	3.23	3.07	2.87	2.64	2.24	1.50	0.81	500	5,500	64	24
rigid-B-US23-CS25031-05-30-2001	3.58	3.27	3.07	2.83	2.60	2.17	1.42	0.87	500	4,229	79	25
rigid-B-US23-CS25031-05-30-2001	3.54	3.23	3.07	2.87	2.64	2.24	1.50	0.95	500	5,037	75	23
rigid-B-US23-CS25031-05-30-2001	3.46	3.15	2.99	2.76	2.52	2.17	1.46	1.03	500	4,242	109	23
rigid-B-US23-CS25031-05-30-2001	4.13	3.82	3.58	3.31	3.03	2.60	1.73	1.06	500	3,801	76	20
rigid-B-US23-CS25031-05-30-2001	4.02	3.66	3.43	3.19	2.91	2.48	1.65	1.08	500	3,539	88	21
rigid-B-US23-CS25031-05-30-2001	3.03	2.72	2.56	2.36	2.17	1.81	1.18	1.16	500	4,705	101	30
rigid-B-US23-CS25031-05-30-2001	5.83	5.04	4.65	4.13	3.66	2.99	1.85	1.22	500	1,352	69	19

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-B-US23-CS25031-05-30-2001	5.28	4.37	3.98	3.43	2.99	2.28	1.30	1.34	500	1,243	60	27
rigid-B-US23-CS25031-05-30-2001	5.98	5.12	4.69	4.13	3.70	3.03	1.89	1.38	500	1,180	77	18
rigid-B-US23-CS25031-05-30-2001	6.14	5.20	4.76	4.17	3.70	2.95	1.77	1.41	500	1,212	61	20
rigid-B-US23-CS25031-05-30-2001	3.62	3.31	3.11	2.87	2.64	2.28	1.50	1.43	500	4,363	86	23
rigid-B-US23-CS25031-05-30-2001	5.98	5.08	4.69	4.13	3.70	3.03	1.89	1.43	500	1,183	78	18
rigid-B-US23-CS25031-05-30-2001	5.87	4.92	4.49	3.90	3.43	2.60	1.46	1.44	500	1,308	45	25
rigid-B-US23-CS25031-05-30-2001	4.69	4.02	3.66	3.23	2.80	2.13	1.14	1.45	500	1,972	37	33
rigid-B-US23-CS25031-05-30-2001	4.72	3.98	3.66	3.23	2.80	2.17	1.22	1.52	500	1,828	50	30
rigid-B-US23-CS25031-05-30-2001	5.24	4.41	4.09	3.58	3.15	2.44	1.38	1.59	500	1,616	48	26
rigid-B-US23-CS25031-05-30-2001	4.80	3.94	3.58	3.07	2.64	1.97	1.06	1.60	500	1,400	53	34
rigid-B-US23-CS25031-05-30-2001	6.42	5.43	4.92	4.25	3.70	2.72	1.38	1.64	500	1,314	25	27
rigid-B-US23-CS25031-05-30-2001	5.24	4.41	4.06	3.58	3.11	2.44	1.38	1.69	500	1,588	49	26
rigid-B-US23-CS25031-05-30-2001	4.76	3.94	3.54	3.03	2.64	1.97	1.06	1.73	500	1,456	52	34
rigid-B-US23-CS25031-05-30-2001	5.91	4.96	4.53	3.90	3.43	2.64	1.46	1.75	500	1,310	44	25
rigid-B-US23-CS25031-05-30-2001	5.24	4.45	4.09	3.58	3.15	2.44	1.34	1.76	500	1,694	41	27
rigid-B-US23-CS25031-05-30-2001	4.69	3.98	3.62	3.19	2.76	2.13	1.14	1.84	500	1,918	41	33
rigid-B-US23-CS25031-05-30-2001	4.80	3.98	3.58	3.11	2.68	2.01	1.06	1.89	500	1,536	47	34
rigid-B-US23-CS25031-05-30-2001	5.59	4.76	4.41	3.86	3.43	2.64	1.42	1.89	500	1,870	30	27
rigid-B-US23-CS25031-05-30-2001	4.69	3.94	3.66	3.19	2.80	2.17	1.18	1.95	500	1,919	45	31
rigid-B-US23-CS25031-05-30-2001	5.47	4.69	4.33	3.78	3.35	2.60	1.38	1.99	500	1,914	28	28
rigid-B-US23-CS25031-05-30-2001	7.68	6.50	5.91	5.00	4.37	3.27	1.65	1.99	500	1,107	23	23
rigid-B-US23-CS25031-05-30-2001	5.55	4.69	4.37	3.86	3.39	2.64	1.42	2.05	500	1,922	30	27
rigid-B-US23-CS25031-05-30-2001	4.69	3.98	3.62	3.23	2.76	2.13	1.10	2.10	500	2,061	33	35
rigid-B-US23-CS25031-05-30-2001	5.91	4.88	4.49	3.94	3.43	2.68	1.46	2.32	500	1,381	43	25

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-B-US23-CS25031-08-23-2005-(2)	7.06	5.93	5.44	4.76	4.23	3.24	2.25	1.43	500	741	79	15
rigid-B-US23-CS25031-08-23-2005-(2)	7.11	5.96	5.48	4.80	4.28	3.27	2.35	1.97	500	675	88	14
rigid-B-US23-CS25031-08-23-2005-(2)	4.74	3.98	3.64	3.22	2.90	2.29	1.35	1.98	500	1,644	70	26
rigid-B-US23-CS25031-08-23-2005-(2)	12.60	10.56	9.86	8.80	7.88	6.08	3.46	2.04	500	1,562	36	21
rigid-B-US23-CS25031-08-23-2005-(2)	4.76	3.99	3.64	3.21	2.91	2.29	1.35	2.08	500	1,585	72	25
rigid-B-US23-CS25031-08-23-2005-(2)	4.15	3.28	2.97	2.55	2.26	1.75	1.02	2.13	500	1,213	103	33
rigid-B-US23-CS25031-08-23-2005-(2)	12.79	10.67	9.94	8.85	7.96	6.16	3.54	2.14	500	1,455	40	20
rigid-B-US23-CS25031-08-23-2005-(2)	6.90	5.78	5.29	4.67	4.22	3.27	1.87	2.18	500	1,195	39	18
rigid-B-US23-CS25031-08-23-2005-(2)	3.38	2.65	2.39	2.05	1.82	1.42	0.83	2.26	500	1,402	137	41
rigid-B-US23-CS25031-08-23-2005-(2)	6.93	5.81	5.32	4.71	4.24	3.31	1.87	2.32	500	1,211	38	18
rigid-B-US23-CS25031-08-23-2005-(2)	4.72	3.91	3.60	3.18	2.88	2.25	1.30	2.38	500	1,687	62	26
rigid-G-I96-CS34044-06-27-2001	7.48	6.22	5.55	4.69	3.98	2.83	1.57	0.67	700	829	27	27
rigid-G-I96-CS34044-06-27-2001	7.52	6.26	5.55	4.72	3.98	2.87	1.61	0.86	700	852	27	27
rigid-G-I96-CS34044-06-27-2001	7.52	6.26	5.47	4.69	3.94	2.83	1.61	1.25	700	857	27	27
rigid-G-I96-CS34044-06-27-2001	3.78	3.27	2.95	2.64	2.28	1.81	0.98	2.51	700	2,381	43	43
rigid-G-I96-CS34044-06-27-2001	3.78	3.27	2.95	2.60	2.28	1.81	0.98	2.57	700	2,360	43	43
rigid-G-I96-CS34044-06-27-2001	3.82	3.27	2.95	2.60	2.24	1.81	0.98	2.79	700	2,319	43	43
rigid-G-I96-CS34044-06-27-2001	3.50	3.15	2.91	2.64	2.40	2.05	1.38	2.83	700	5,014	35	35
rigid-G-I96-CS34044-06-27-2001	5.43	4.69	4.25	3.78	3.43	2.72	1.73	2.94	700	2,282	27	27
rigid-G-M6-CS41064-09-15-2004	4.45	3.82	3.46	3.03	2.68	2.05	1.18	1.21	700	1,512	37	37
rigid-G-M6-CS41064-09-15-2004	3.74	3.39	3.19	2.87	2.64	2.20	1.46	1.32	700	3,369	32	32
rigid-G-M6-CS41064-09-15-2004	3.46	3.03	2.76	2.40	2.17	1.69	1.02	1.36	700	2,255	44	44
rigid-G-M6-CS41064-09-15-2004	3.50	3.03	2.80	2.44	2.20	1.73	1.02	1.43	700	2,239	44	44
rigid-G-M6-CS41064-09-15-2004	3.31	2.99	2.83	2.56	2.32	1.97	1.30	1.45	700	3,902	35	35

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-15-2004	3.35	2.83	2.56	2.20	1.97	1.50	0.87	1.60	700	1,959	51	51
rigid-G-M6-CS41064-09-15-2004	4.53	4.02	3.66	3.15	2.83	2.20	1.26	1.63	700	1,564	35	35
rigid-G-M6-CS41064-09-15-2004	3.82	3.39	3.11	2.76	2.52	2.05	1.26	1.70	700	2,550	36	36
rigid-G-M6-CS41064-09-15-2004	4.37	3.86	3.50	3.03	2.72	2.17	1.30	1.77	700	1,812	35	35
rigid-G-M6-CS41064-09-15-2004	4.49	3.86	3.50	2.99	2.68	2.09	1.22	1.79	700	1,566	37	37
rigid-G-M6-CS41064-09-15-2004	3.58	2.95	2.72	2.36	2.09	1.61	0.94	1.84	700	1,911	47	47
rigid-G-M6-CS41064-09-15-2004	3.82	3.39	3.11	2.76	2.52	2.05	1.22	1.87	700	2,419	37	37
rigid-G-M6-CS41064-09-15-2004	3.35	2.91	2.68	2.32	2.13	1.69	1.02	1.91	700	2,500	44	44
rigid-G-M6-CS41064-09-15-2004	3.03	2.60	2.40	2.09	1.89	1.50	0.87	1.91	700	2,557	51	51
rigid-G-M6-CS41064-09-15-2004	2.87	2.52	2.32	2.05	1.85	1.50	0.87	1.98	700	2,939	51	51
rigid-G-M6-CS41064-09-15-2004	4.25	3.70	3.39	2.99	2.72	2.20	1.34	1.98	700	2,097	33	33
rigid-G-M6-CS41064-09-15-2004	4.53	4.02	3.66	3.19	2.87	2.24	1.26	2.02	700	1,584	35	35
rigid-G-M6-CS41064-09-15-2004	4.53	3.86	3.50	3.03	2.68	2.13	1.22	2.04	700	1,546	36	36
rigid-G-M6-CS41064-09-15-2004	4.72	4.13	3.78	3.27	2.91	2.36	1.42	2.04	700	1,661	31	31
rigid-G-M6-CS41064-09-15-2004	5.51	4.88	4.53	4.02	3.70	3.07	1.97	2.09	700	2,005	23	23
rigid-G-M6-CS41064-09-15-2004	3.35	2.87	2.60	2.20	1.97	1.54	0.91	2.10	700	2,069	49	49
rigid-G-M6-CS41064-09-15-2004	5.12	4.49	4.13	3.62	3.31	2.68	1.69	2.11	700	1,873	27	27
rigid-G-M6-CS41064-09-15-2004	3.23	2.91	2.72	2.44	2.28	1.93	1.30	2.15	700	4,258	36	36
rigid-G-M6-CS41064-09-15-2004	3.43	2.99	2.76	2.36	2.13	1.73	1.02	2.21	700	2,315	43	43
rigid-G-M6-CS41064-09-15-2004	3.39	2.87	2.60	2.24	1.97	1.54	0.94	2.23	700	2,141	49	49
rigid-G-M6-CS41064-09-15-2004	3.43	2.87	2.64	2.24	2.01	1.57	0.94	2.30	700	2,118	48	48
rigid-G-M6-CS41064-09-15-2004	3.43	2.91	2.64	2.28	2.05	1.61	0.98	2.33	700	2,229	46	46
rigid-G-M6-CS41064-09-15-2004	3.70	3.23	2.99	2.60	2.36	1.93	1.22	2.37	700	2,616	38	38
rigid-G-M6-CS41064-09-15-2004	3.62	3.11	2.83	2.44	2.20	1.77	1.02	2.38	700	2,075	43	43

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-15-2004	4.72	4.13	3.82	3.35	3.07	2.52	1.61	2.40	700	2,184	28	28
rigid-G-M6-CS41064-09-15-2004	3.35	2.83	2.60	2.24	2.01	1.57	0.98	2.40	700	2,360	47	47
rigid-G-M6-CS41064-09-15-2004	5.59	4.96	4.61	4.06	3.70	3.11	2.01	2.42	700	1,980	23	23
rigid-G-M6-CS41064-09-15-2004	3.35	2.87	2.60	2.24	2.01	1.57	0.98	2.43	700	2,342	47	47
rigid-G-M6-CS41064-09-15-2004	5.55	4.88	4.53	4.02	3.70	3.07	2.01	2.43	700	2,044	23	23
rigid-G-M6-CS41064-09-15-2004	3.74	3.23	3.03	2.64	2.40	1.93	1.26	2.43	700	2,616	37	37
rigid-G-M6-CS41064-09-15-2004	4.72	4.21	3.86	3.43	3.11	2.60	1.69	2.44	700	2,346	27	27
rigid-G-M6-CS41064-09-15-2004	3.54	2.95	2.68	2.28	2.05	1.61	0.94	2.55	700	1,967	47	47
rigid-G-M6-CS41064-09-15-2004	4.09	3.46	3.19	2.83	2.60	2.09	1.30	2.58	700	2,292	35	35
rigid-G-M6-CS41064-09-15-2004	5.94	5.28	4.96	4.41	4.09	3.46	2.36	2.62	700	2,319	20	20
rigid-G-M6-CS41064-09-15-2004	4.33	3.82	3.54	3.15	2.95	2.48	1.65	2.81	700	2,905	28	28
rigid-G-M6-CS41064-09-15-2004	3.82	3.31	3.03	2.68	2.44	1.97	1.30	2.88	700	2,646	36	36
rigid-G-M6-CS41064-09-29-2004	2.52	2.40	2.28	2.13	2.01	1.73	1.22	0.65	700	7,358	37	37
rigid-G-M6-CS41064-09-29-2004	2.20	2.05	1.93	1.81	1.69	1.42	0.98	0.68	700	7,377	47	47
rigid-G-M6-CS41064-09-29-2004	2.95	2.80	2.68	2.48	2.36	2.01	1.42	0.68	700	6,293	32	32
rigid-G-M6-CS41064-09-29-2004	2.48	2.36	2.24	2.09	1.97	1.69	1.18	0.70	700	7,219	38	38
rigid-G-M6-CS41064-09-29-2004	2.48	2.28	2.17	2.01	1.85	1.57	1.06	0.71	700	5,931	43	43
rigid-G-M6-CS41064-09-29-2004	2.68	2.52	2.44	2.24	2.09	1.81	1.26	0.74	700	6,639	36	36
rigid-G-M6-CS41064-09-29-2004	3.03	2.83	2.72	2.52	2.40	2.05	1.46	0.76	700	6,300	31	31
rigid-G-M6-CS41064-09-29-2004	2.60	2.52	2.40	2.24	2.13	1.85	1.34	0.77	700	7,984	33	33
rigid-G-M6-CS41064-09-29-2004	2.72	2.56	2.44	2.28	2.17	1.85	1.30	0.79	700	6,779	35	35
rigid-G-M6-CS41064-09-29-2004	3.03	2.87	2.76	2.56	2.44	2.13	1.54	0.79	700	6,972	29	29
rigid-G-M6-CS41064-09-29-2004	3.58	3.46	3.31	3.15	2.99	2.68	1.97	0.84	700	7,100	22	22
rigid-G-M6-CS41064-09-29-2004	3.03	2.87	2.72	2.52	2.40	2.05	1.46	0.88	700	6,050	31	31

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-29-2004	3.11	2.95	2.80	2.68	2.52	2.24	1.65	0.89	700	7,787	27	27
rigid-G-M6-CS41064-09-29-2004	2.99	2.83	2.72	2.48	2.36	2.01	1.42	0.89	700	5,869	32	32
rigid-G-M6-CS41064-09-29-2004	2.52	2.36	2.24	2.09	1.97	1.69	1.22	0.91	700	7,518	37	37
rigid-G-M6-CS41064-09-29-2004	2.17	2.01	1.89	1.77	1.61	1.34	0.87	0.93	700	5,893	52	52
rigid-G-M6-CS41064-09-29-2004	2.44	2.32	2.20	2.01	1.89	1.61	1.10	0.94	700	6,625	42	42
rigid-G-M6-CS41064-09-29-2004	3.19	3.07	2.95	2.72	2.60	2.28	1.65	0.95	700	6,700	27	27
rigid-G-M6-CS41064-09-29-2004	2.32	2.20	2.09	1.93	1.85	1.57	1.10	0.96	700	7,605	40	40
rigid-G-M6-CS41064-09-29-2004	2.32	2.17	2.05	1.89	1.77	1.50	1.06	0.97	700	7,228	43	43
rigid-G-M6-CS41064-09-29-2004	2.99	2.87	2.76	2.56	2.48	2.17	1.61	0.97	700	7,789	27	27
rigid-G-M6-CS41064-09-29-2004	2.44	2.28	2.17	2.01	1.85	1.61	1.10	0.97	700	6,748	42	42
rigid-G-M6-CS41064-09-29-2004	2.52	2.36	2.24	2.05	1.89	1.61	1.06	0.98	700	5,633	43	43
rigid-G-M6-CS41064-09-29-2004	2.44	2.28	2.17	1.97	1.85	1.57	1.06	0.98	700	6,148	43	43
rigid-G-M6-CS41064-09-29-2004	3.39	3.31	3.15	2.95	2.83	2.52	1.89	1.00	700	7,582	23	23
rigid-G-M6-CS41064-09-29-2004	2.80	2.64	2.48	2.28	2.17	1.81	1.26	1.01	700	5,734	36	36
rigid-G-M6-CS41064-09-29-2004	3.23	3.07	2.95	2.76	2.64	2.32	1.65	1.02	700	6,764	27	27
rigid-G-M6-CS41064-09-29-2004	2.40	2.32	2.17	2.01	1.89	1.61	1.14	1.02	700	7,229	40	40
rigid-G-M6-CS41064-09-29-2004	2.56	2.44	2.28	2.13	2.01	1.73	1.22	1.03	700	7,067	37	37
rigid-G-M6-CS41064-09-29-2004	2.83	2.72	2.60	2.40	2.32	2.01	1.46	1.03	700	7,514	30	30
rigid-G-M6-CS41064-09-29-2004	3.03	2.87	2.76	2.56	2.40	2.13	1.50	1.04	700	6,547	30	30
rigid-G-M6-CS41064-09-29-2004	3.07	2.95	2.83	2.64	2.52	2.24	1.61	1.04	700	7,307	27	27
rigid-G-M6-CS41064-09-29-2004	3.07	2.95	2.80	2.60	2.48	2.17	1.54	1.06	700	6,624	29	29
rigid-G-M6-CS41064-09-29-2004	2.91	2.83	2.68	2.52	2.40	2.13	1.54	1.07	700	7,783	29	29
rigid-G-M6-CS41064-09-29-2004	2.76	2.64	2.52	2.32	2.24	1.93	1.38	1.08	700	7,265	32	32
rigid-G-M6-CS41064-09-29-2004	2.99	2.83	2.72	2.52	2.44	2.13	1.57	1.08	700	7,614	28	28

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-29-2004	2.99	2.83	2.68	2.48	2.36	2.05	1.46	1.09	700	6,561	31	31
rigid-G-M6-CS41064-09-29-2004	2.91	2.80	2.64	2.48	2.32	2.01	1.38	1.09	700	5,997	32	32
rigid-G-M6-CS41064-09-29-2004	3.11	2.95	2.80	2.60	2.48	2.17	1.57	1.10	700	6,791	29	29
rigid-G-M6-CS41064-09-29-2004	3.07	2.91	2.80	2.56	2.44	2.13	1.54	1.10	700	6,652	29	29
rigid-G-M6-CS41064-09-29-2004	2.76	2.56	2.44	2.28	2.13	1.85	1.26	1.12	700	6,125	35	35
rigid-G-M6-CS41064-09-29-2004	2.40	2.24	2.13	1.97	1.85	1.61	1.14	1.13	700	7,637	39	39
rigid-G-M6-CS41064-09-29-2004	2.83	2.72	2.60	2.40	2.28	2.01	1.42	1.13	700	7,010	31	31
rigid-G-M6-CS41064-09-29-2004	2.64	2.44	2.32	2.17	2.05	1.77	1.26	1.14	700	7,324	36	36
rigid-G-M6-CS41064-09-29-2004	3.07	2.91	2.83	2.60	2.48	2.20	1.57	1.14	700	6,980	28	28
rigid-G-M6-CS41064-09-29-2004	2.99	2.80	2.68	2.48	2.36	2.05	1.42	1.14	700	6,251	32	32
rigid-G-M6-CS41064-09-29-2004	2.13	2.01	1.89	1.73	1.61	1.34	0.87	1.14	700	6,106	51	51
rigid-G-M6-CS41064-09-29-2004	2.91	2.76	2.60	2.40	2.28	1.97	1.38	1.15	700	6,257	33	33
rigid-G-M6-CS41064-09-29-2004	3.27	3.11	2.95	2.76	2.64	2.32	1.65	1.15	700	6,484	27	27
rigid-G-M6-CS41064-09-29-2004	2.44	2.32	2.17	1.97	1.85	1.54	1.02	1.15	700	5,517	44	44
rigid-G-M6-CS41064-09-29-2004	2.87	2.72	2.60	2.40	2.28	2.01	1.46	1.15	700	7,441	31	31
rigid-G-M6-CS41064-09-29-2004	2.87	2.72	2.60	2.40	2.28	2.01	1.46	1.15	700	7,419	31	31
rigid-G-M6-CS41064-09-29-2004	3.39	3.31	3.15	2.95	2.80	2.48	1.77	1.16	700	6,442	25	25
rigid-G-M6-CS41064-09-29-2004	2.87	2.72	2.60	2.40	2.28	2.01	1.42	1.16	700	6,956	31	31
rigid-G-M6-CS41064-09-29-2004	2.44	2.28	2.17	1.97	1.89	1.57	1.10	1.16	700	6,598	41	41
rigid-G-M6-CS41064-09-29-2004	3.23	3.07	2.91	2.72	2.60	2.28	1.61	1.18	700	6,376	28	28
rigid-G-M6-CS41064-09-29-2004	2.56	2.40	2.24	2.05	1.93	1.61	1.06	1.18	700	5,360	43	43
rigid-G-M6-CS41064-09-29-2004	2.91	2.80	2.72	2.48	2.32	2.05	1.46	1.18	700	6,810	31	31
rigid-G-M6-CS41064-09-29-2004	2.83	2.68	2.56	2.36	2.24	1.97	1.38	1.18	700	6,862	33	33
rigid-G-M6-CS41064-09-29-2004	3.07	2.95	2.80	2.60	2.48	2.20	1.61	1.19	700	7,276	27	27

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-29-2004	2.44	2.36	2.24	2.05	1.97	1.69	1.22	1.19	700	7,972	37	37
rigid-G-M6-CS41064-09-29-2004	3.23	3.07	2.91	2.72	2.56	2.28	1.65	1.20	700	6,698	27	27
rigid-G-M6-CS41064-09-29-2004	2.95	2.80	2.68	2.44	2.36	2.01	1.42	1.20	700	6,350	32	32
rigid-G-M6-CS41064-09-29-2004	3.07	2.91	2.80	2.60	2.52	2.20	1.57	1.21	700	7,069	28	28
rigid-G-M6-CS41064-09-29-2004	2.36	2.24	2.13	1.93	1.85	1.57	1.10	1.21	700	7,208	41	41
rigid-G-M6-CS41064-09-29-2004	2.32	2.13	2.05	1.89	1.77	1.54	1.06	1.21	700	7,500	43	43
rigid-G-M6-CS41064-09-29-2004	2.20	2.09	1.97	1.81	1.69	1.46	0.98	1.21	700	7,139	46	46
rigid-G-M6-CS41064-09-29-2004	3.15	3.03	2.87	2.68	2.56	2.28	1.69	1.21	700	7,614	26	26
rigid-G-M6-CS41064-09-29-2004	2.52	2.32	2.20	2.01	1.89	1.61	1.10	1.21	700	6,218	41	41
rigid-G-M6-CS41064-09-29-2004	2.44	2.28	2.13	1.97	1.85	1.57	1.10	1.21	700	6,863	42	42
rigid-G-M6-CS41064-09-29-2004	2.87	2.72	2.60	2.40	2.32	2.01	1.42	1.22	700	6,996	32	32
rigid-G-M6-CS41064-09-29-2004	2.36	2.20	2.09	1.93	1.81	1.57	1.06	1.22	700	6,908	42	42
rigid-G-M6-CS41064-09-29-2004	3.19	2.99	2.91	2.68	2.56	2.28	1.65	1.23	700	7,058	27	27
rigid-G-M6-CS41064-09-29-2004	2.48	2.36	2.24	2.05	1.97	1.69	1.22	1.23	700	7,782	37	37
rigid-G-M6-CS41064-09-29-2004	2.44	2.40	2.28	2.13	2.01	1.73	1.22	1.23	700	7,592	36	36
rigid-G-M6-CS41064-09-29-2004	3.07	2.91	2.76	2.60	2.48	2.20	1.57	1.23	700	7,309	29	29
rigid-G-M6-CS41064-09-29-2004	3.07	2.95	2.80	2.60	2.48	2.20	1.57	1.24	700	6,874	28	28
rigid-G-M6-CS41064-09-29-2004	3.11	2.99	2.83	2.64	2.52	2.24	1.61	1.24	700	7,033	27	27
rigid-G-M6-CS41064-09-29-2004	3.50	3.39	3.27	3.03	2.95	2.60	1.89	1.24	700	6,819	23	23
rigid-G-M6-CS41064-09-29-2004	2.91	2.76	2.60	2.40	2.28	1.97	1.42	1.25	700	6,563	32	32
rigid-G-M6-CS41064-09-29-2004	2.52	2.40	2.28	2.09	2.01	1.73	1.26	1.25	700	7,868	35	35
rigid-G-M6-CS41064-09-29-2004	3.19	2.99	2.87	2.68	2.56	2.28	1.65	1.26	700	7,144	27	27
rigid-G-M6-CS41064-09-29-2004	3.11	2.95	2.80	2.56	2.44	2.09	1.42	1.26	700	5,300	32	32
rigid-G-M6-CS41064-09-29-2004	2.52	2.40	2.32	2.13	2.01	1.77	1.22	1.26	700	7,270	36	36

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-29-2004	3.03	2.87	2.80	2.56	2.44	2.17	1.54	1.27	700	6,965	29	29
rigid-G-M6-CS41064-09-29-2004	2.52	2.36	2.28	2.09	1.93	1.69	1.22	1.27	700	7,416	37	37
rigid-G-M6-CS41064-09-29-2004	3.66	3.50	3.39	3.15	3.03	2.76	2.09	1.28	700	7,908	21	21
rigid-G-M6-CS41064-09-29-2004	2.95	2.83	2.72	2.52	2.36	2.13	1.57	1.28	700	7,890	28	28
rigid-G-M6-CS41064-09-29-2004	2.48	2.32	2.20	2.05	1.93	1.65	1.10	1.28	700	6,488	41	41
rigid-G-M6-CS41064-09-29-2004	2.87	2.72	2.56	2.40	2.28	2.01	1.46	1.28	700	7,578	31	31
rigid-G-M6-CS41064-09-29-2004	2.13	1.97	1.85	1.69	1.57	1.34	0.91	1.29	700	6,974	50	50
rigid-G-M6-CS41064-09-29-2004	2.48	2.32	2.20	2.01	1.89	1.61	1.06	1.29	700	5,953	43	43
rigid-G-M6-CS41064-09-29-2004	3.31	3.11	2.95	2.76	2.64	2.32	1.65	1.29	700	6,391	27	27
rigid-G-M6-CS41064-09-29-2004	3.11	2.95	2.83	2.60	2.52	2.20	1.57	1.29	700	6,646	28	28
rigid-G-M6-CS41064-09-29-2004	2.95	2.83	2.68	2.44	2.32	2.01	1.42	1.29	700	6,170	32	32
rigid-G-M6-CS41064-09-29-2004	2.95	2.80	2.64	2.48	2.36	2.09	1.54	1.31	700	7,702	29	29
rigid-G-M6-CS41064-09-29-2004	2.99	2.80	2.68	2.48	2.40	2.09	1.50	1.32	700	7,199	30	30
rigid-G-M6-CS41064-09-29-2004	2.09	1.93	1.85	1.69	1.57	1.34	0.87	1.32	700	6,676	51	51
rigid-G-M6-CS41064-09-29-2004	2.40	2.28	2.13	1.97	1.81	1.57	1.10	1.32	700	6,836	41	41
rigid-G-M6-CS41064-09-29-2004	3.46	3.31	3.15	2.91	2.83	2.48	1.81	1.32	700	6,594	25	25
rigid-G-M6-CS41064-09-29-2004	3.03	2.83	2.68	2.48	2.36	2.05	1.42	1.33	700	5,948	31	31
rigid-G-M6-CS41064-09-29-2004	3.62	3.50	3.35	3.11	3.03	2.72	2.05	1.33	700	7,741	21	21
rigid-G-M6-CS41064-09-29-2004	3.27	3.11	2.95	2.76	2.64	2.36	1.73	1.33	700	7,349	26	26
rigid-G-M6-CS41064-09-29-2004	3.03	2.91	2.80	2.60	2.52	2.24	1.61	1.33	700	7,659	27	27
rigid-G-M6-CS41064-09-29-2004	2.48	2.28	2.17	1.97	1.89	1.57	1.06	1.33	700	6,090	43	43
rigid-G-M6-CS41064-09-29-2004	2.83	2.72	2.60	2.36	2.28	1.97	1.42	1.34	700	7,117	32	32
rigid-G-M6-CS41064-09-29-2004	3.11	2.99	2.87	2.64	2.56	2.28	1.69	1.34	700	7,854	26	26
rigid-G-M6-CS41064-09-29-2004	3.43	3.31	3.15	2.91	2.80	2.48	1.77	1.35	700	6,308	25	25

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-29-2004	2.48	2.28	2.20	2.01	1.89	1.57	1.02	1.35	700	5,539	44	44
rigid-G-M6-CS41064-09-29-2004	2.83	2.68	2.52	2.32	2.24	1.89	1.30	1.36	700	5,859	34	34
rigid-G-M6-CS41064-09-29-2004	2.68	2.56	2.44	2.24	2.13	1.89	1.34	1.36	700	7,576	33	33
rigid-G-M6-CS41064-09-29-2004	2.87	2.76	2.60	2.40	2.28	2.01	1.42	1.36	700	6,888	32	32
rigid-G-M6-CS41064-09-29-2004	2.52	2.32	2.20	2.01	1.89	1.61	1.06	1.37	700	5,849	43	43
rigid-G-M6-CS41064-09-29-2004	2.72	2.52	2.40	2.20	2.09	1.81	1.26	1.37	700	6,600	36	36
rigid-G-M6-CS41064-09-29-2004	2.68	2.52	2.40	2.24	2.13	1.85	1.26	1.37	700	6,738	35	35
rigid-G-M6-CS41064-09-29-2004	2.80	2.64	2.56	2.36	2.24	2.01	1.42	1.38	700	7,659	31	31
rigid-G-M6-CS41064-09-29-2004	2.44	2.32	2.20	2.05	1.93	1.65	1.10	1.38	700	6,536	40	40
rigid-G-M6-CS41064-09-29-2004	3.19	2.91	2.76	2.44	2.28	1.89	1.22	1.38	700	3,810	38	38
rigid-G-M6-CS41064-09-29-2004	2.83	2.64	2.56	2.32	2.20	1.93	1.34	1.38	700	6,453	33	33
rigid-G-M6-CS41064-09-29-2004	2.87	2.68	2.56	2.36	2.24	1.97	1.42	1.38	700	7,164	32	32
rigid-G-M6-CS41064-09-29-2004	2.83	2.72	2.56	2.36	2.24	1.97	1.42	1.39	700	7,226	32	32
rigid-G-M6-CS41064-09-29-2004	2.64	2.52	2.40	2.20	2.13	1.85	1.30	1.39	700	7,418	34	34
rigid-G-M6-CS41064-09-29-2004	2.95	2.80	2.72	2.48	2.40	2.13	1.54	1.40	700	7,477	28	28
rigid-G-M6-CS41064-09-29-2004	3.07	2.87	2.76	2.56	2.48	2.17	1.54	1.40	700	6,895	29	29
rigid-G-M6-CS41064-09-29-2004	2.91	2.76	2.64	2.44	2.36	2.09	1.50	1.40	700	7,733	30	30
rigid-G-M6-CS41064-09-29-2004	2.87	2.72	2.60	2.40	2.24	2.01	1.42	1.40	700	7,031	32	32
rigid-G-M6-CS41064-09-29-2004	3.23	3.07	2.91	2.72	2.60	2.32	1.65	1.41	700	6,747	27	27
rigid-G-M6-CS41064-09-29-2004	3.23	3.07	2.91	2.72	2.60	2.32	1.65	1.41	700	6,709	27	27
rigid-G-M6-CS41064-09-29-2004	2.95	2.80	2.64	2.44	2.36	2.05	1.46	1.43	700	6,975	31	31
rigid-G-M6-CS41064-09-29-2004	2.76	2.60	2.48	2.28	2.20	1.93	1.38	1.43	700	7,419	32	32
rigid-G-M6-CS41064-09-29-2004	2.44	2.32	2.20	2.05	1.93	1.69	1.14	1.44	700	7,119	39	39
rigid-G-M6-CS41064-09-29-2004	2.32	2.20	2.13	1.93	1.85	1.57	1.06	1.44	700	7,090	43	43

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-29-2004	2.83	2.72	2.64	2.40	2.32	2.05	1.46	1.44	700	7,477	30	30
rigid-G-M6-CS41064-09-29-2004	2.20	2.05	1.93	1.77	1.69	1.42	0.94	1.45	700	6,841	49	49
rigid-G-M6-CS41064-09-29-2004	2.44	2.36	2.24	2.05	1.97	1.73	1.22	1.45	700	7,983	36	36
rigid-G-M6-CS41064-09-29-2004	2.40	2.20	2.09	1.93	1.81	1.57	1.06	1.46	700	6,767	42	42
rigid-G-M6-CS41064-09-29-2004	3.27	3.15	2.99	2.76	2.64	2.36	1.69	1.46	700	6,589	26	26
rigid-G-M6-CS41064-09-29-2004	3.39	3.27	3.15	2.91	2.83	2.56	1.89	1.46	700	7,842	23	23
rigid-G-M6-CS41064-09-29-2004	2.72	2.52	2.40	2.20	2.13	1.81	1.26	1.46	700	6,615	36	36
rigid-G-M6-CS41064-09-29-2004	2.83	2.72	2.56	2.36	2.24	1.93	1.30	1.46	700	5,747	34	34
rigid-G-M6-CS41064-09-29-2004	2.95	2.83	2.64	2.48	2.40	2.09	1.50	1.46	700	7,395	30	30
rigid-G-M6-CS41064-09-29-2004	2.72	2.56	2.44	2.24	2.17	1.89	1.34	1.46	700	7,410	33	33
rigid-G-M6-CS41064-09-29-2004	2.52	2.36	2.20	2.01	1.89	1.61	1.06	1.47	700	5,680	43	43
rigid-G-M6-CS41064-09-29-2004	3.54	3.43	3.27	3.03	2.95	2.64	1.93	1.47	700	7,088	23	23
rigid-G-M6-CS41064-09-29-2004	3.27	3.07	2.91	2.76	2.68	2.36	1.77	1.47	700	8,000	25	25
rigid-G-M6-CS41064-09-29-2004	3.11	2.99	2.83	2.64	2.56	2.28	1.65	1.47	700	7,519	26	26
rigid-G-M6-CS41064-09-29-2004	2.87	2.72	2.56	2.36	2.24	1.97	1.38	1.47	700	6,708	33	33
rigid-G-M6-CS41064-09-29-2004	2.95	2.80	2.68	2.48	2.36	2.13	1.54	1.47	700	7,780	29	29
rigid-G-M6-CS41064-09-29-2004	3.23	3.11	2.95	2.72	2.64	2.32	1.65	1.48	700	6,584	27	27
rigid-G-M6-CS41064-09-29-2004	2.64	2.52	2.36	2.20	2.09	1.85	1.34	1.48	700	8,000	33	33
rigid-G-M6-CS41064-09-29-2004	2.95	2.83	2.68	2.48	2.40	2.13	1.54	1.49	700	7,571	28	28
rigid-G-M6-CS41064-09-29-2004	2.83	2.76	2.60	2.40	2.32	2.05	1.50	1.49	700	7,980	29	29
rigid-G-M6-CS41064-09-29-2004	3.62	3.50	3.35	3.11	2.99	2.72	2.09	1.50	700	7,962	21	21
rigid-G-M6-CS41064-09-29-2004	2.48	2.32	2.17	1.97	1.85	1.57	1.02	1.50	700	5,438	44	44
rigid-G-M6-CS41064-09-29-2004	2.80	2.60	2.48	2.28	2.20	1.89	1.30	1.50	700	6,455	35	35
rigid-G-M6-CS41064-09-29-2004	2.48	2.32	2.17	2.01	1.89	1.65	1.14	1.51	700	7,011	40	40

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-29-2004	2.68	2.52	2.36	2.17	2.05	1.77	1.26	1.52	700	6,778	37	37
rigid-G-M6-CS41064-09-29-2004	2.28	2.13	2.05	1.85	1.77	1.54	1.06	1.52	700	7,644	42	42
rigid-G-M6-CS41064-09-29-2004	1.93	1.81	1.69	1.54	1.42	1.14	0.71	1.53	700	5,496	62	62
rigid-G-M6-CS41064-09-29-2004	2.87	2.72	2.56	2.40	2.32	2.05	1.50	1.54	700	8,000	29	29
rigid-G-M6-CS41064-09-29-2004	2.91	2.68	2.60	2.36	2.28	1.97	1.38	1.54	700	6,483	33	33
rigid-G-M6-CS41064-09-29-2004	2.87	2.80	2.64	2.44	2.36	2.09	1.50	1.54	700	7,546	29	29
rigid-G-M6-CS41064-09-29-2004	3.07	2.91	2.76	2.56	2.48	2.20	1.61	1.55	700	7,603	27	27
rigid-G-M6-CS41064-09-29-2004	2.95	2.83	2.72	2.48	2.44	2.13	1.54	1.55	700	7,507	28	28
rigid-G-M6-CS41064-09-29-2004	2.40	2.28	2.20	2.01	1.89	1.61	1.06	1.55	700	6,373	43	43
rigid-G-M6-CS41064-09-29-2004	2.48	2.32	2.20	2.01	1.89	1.65	1.10	1.56	700	6,471	41	41
rigid-G-M6-CS41064-09-29-2004	3.27	3.11	2.95	2.72	2.60	2.32	1.65	1.56	700	6,432	27	27
rigid-G-M6-CS41064-09-29-2004	2.48	2.36	2.20	2.01	1.93	1.65	1.14	1.56	700	6,809	40	40
rigid-G-M6-CS41064-09-29-2004	3.03	2.87	2.72	2.56	2.48	2.20	1.57	1.56	700	7,745	29	29
rigid-G-M6-CS41064-09-29-2004	2.80	2.64	2.48	2.28	2.20	1.89	1.30	1.56	700	6,231	34	34
rigid-G-M6-CS41064-09-29-2004	2.24	2.09	2.01	1.81	1.73	1.50	1.02	1.56	700	7,569	44	44
rigid-G-M6-CS41064-09-29-2004	2.24	2.09	2.01	1.81	1.73	1.50	1.02	1.56	700	7,383	43	43
rigid-G-M6-CS41064-09-29-2004	2.83	2.64	2.52	2.28	2.17	1.89	1.30	1.57	700	6,198	35	35
rigid-G-M6-CS41064-09-29-2004	2.91	2.76	2.60	2.40	2.28	2.01	1.38	1.57	700	6,305	32	32
rigid-G-M6-CS41064-09-29-2004	2.99	2.80	2.64	2.48	2.36	2.09	1.54	1.58	700	7,792	30	30
rigid-G-M6-CS41064-09-29-2004	2.99	2.80	2.68	2.44	2.36	2.05	1.42	1.58	700	6,333	32	32
rigid-G-M6-CS41064-09-29-2004	2.87	2.76	2.60	2.40	2.32	2.05	1.46	1.59	700	7,347	30	30
rigid-G-M6-CS41064-09-29-2004	2.60	2.48	2.40	2.17	2.09	1.85	1.30	1.59	700	7,781	34	34
rigid-G-M6-CS41064-09-29-2004	2.24	2.13	2.01	1.81	1.69	1.46	1.02	1.60	700	7,174	44	44
rigid-G-M6-CS41064-09-29-2004	2.24	2.13	2.01	1.81	1.69	1.46	1.02	1.60	700	7,207	45	45

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-29-2004	2.40	2.24	2.09	1.93	1.81	1.57	1.10	1.60	700	7,071	41	41
rigid-G-M6-CS41064-09-29-2004	2.72	2.52	2.40	2.24	2.17	1.89	1.34	1.60	700	7,686	33	33
rigid-G-M6-CS41064-09-29-2004	2.60	2.48	2.32	2.17	2.05	1.73	1.14	1.60	700	5,727	39	39
rigid-G-M6-CS41064-09-29-2004	2.60	2.48	2.32	2.17	2.05	1.73	1.14	1.60	700	5,739	39	39
rigid-G-M6-CS41064-09-29-2004	2.28	2.09	2.05	1.85	1.77	1.54	1.06	1.61	700	7,871	42	42
rigid-G-M6-CS41064-09-29-2004	2.36	2.20	2.09	1.89	1.81	1.54	1.02	1.61	700	6,440	44	44
rigid-G-M6-CS41064-09-29-2004	3.07	2.91	2.76	2.52	2.44	2.13	1.54	1.61	700	6,799	29	29
rigid-G-M6-CS41064-09-29-2004	4.17	3.62	3.27	2.83	2.56	1.97	1.14	1.61	700	1,704	39	39
rigid-G-M6-CS41064-09-29-2004	2.64	2.44	2.32	2.13	2.05	1.77	1.26	1.61	700	7,363	36	36
rigid-G-M6-CS41064-09-29-2004	2.99	2.83	2.68	2.44	2.28	2.01	1.42	1.62	700	6,099	32	32
rigid-G-M6-CS41064-09-29-2004	2.83	2.72	2.56	2.36	2.28	2.01	1.42	1.62	700	7,321	32	32
rigid-G-M6-CS41064-09-29-2004	2.95	2.76	2.64	2.40	2.32	2.01	1.46	1.62	700	6,967	31	31
rigid-G-M6-CS41064-09-29-2004	2.72	2.56	2.44	2.24	2.13	1.89	1.30	1.62	700	6,928	34	34
rigid-G-M6-CS41064-09-29-2004	2.95	2.76	2.64	2.44	2.36	2.09	1.54	1.62	700	8,000	29	29
rigid-G-M6-CS41064-09-29-2004	2.99	2.83	2.72	2.48	2.40	2.13	1.57	1.62	700	7,821	28	28
rigid-G-M6-CS41064-09-29-2004	2.52	2.36	2.24	2.01	1.93	1.65	1.14	1.62	700	6,529	40	40
rigid-G-M6-CS41064-09-29-2004	2.72	2.52	2.40	2.17	2.09	1.77	1.26	1.63	700	6,552	37	37
rigid-G-M6-CS41064-09-29-2004	3.31	3.07	2.95	2.72	2.64	2.32	1.69	1.63	700	6,823	26	26
rigid-G-M6-CS41064-09-29-2004	3.19	2.91	2.72	2.44	2.28	1.89	1.18	1.63	700	3,630	38	38
rigid-G-M6-CS41064-09-29-2004	2.32	2.24	2.09	1.89	1.77	1.50	0.98	1.64	700	5,815	45	45
rigid-G-M6-CS41064-09-29-2004	2.64	2.56	2.44	2.24	2.13	1.89	1.30	1.64	700	7,164	34	34
rigid-G-M6-CS41064-09-29-2004	2.52	2.48	2.32	2.13	2.01	1.69	1.14	1.65	700	6,115	40	40
rigid-G-M6-CS41064-09-29-2004	2.99	2.83	2.68	2.44	2.36	2.05	1.42	1.65	700	6,141	32	32
rigid-G-M6-CS41064-09-29-2004	2.40	2.28	2.13	1.93	1.77	1.54	1.02	1.65	700	5,866	44	44

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-29-2004	2.56	2.44	2.28	2.09	1.97	1.73	1.18	1.65	700	6,579	38	38
rigid-G-M6-CS41064-09-29-2004	2.87	2.72	2.60	2.36	2.28	2.01	1.42	1.66	700	7,044	32	32
rigid-G-M6-CS41064-09-29-2004	3.46	3.39	3.23	2.99	2.95	2.60	1.89	1.66	700	7,041	23	23
rigid-G-M6-CS41064-09-29-2004	2.91	2.72	2.56	2.36	2.24	1.97	1.38	1.66	700	6,504	33	33
rigid-G-M6-CS41064-09-29-2004	2.52	2.36	2.24	2.05	1.97	1.73	1.22	1.66	700	7,654	36	36
rigid-G-M6-CS41064-09-29-2004	2.52	2.36	2.24	2.05	1.97	1.73	1.22	1.67	700	7,710	37	37
rigid-G-M6-CS41064-09-29-2004	2.48	2.36	2.20	2.01	1.93	1.65	1.18	1.67	700	7,338	39	39
rigid-G-M6-CS41064-09-29-2004	2.99	2.83	2.68	2.48	2.40	2.13	1.57	1.67	700	7,920	28	28
rigid-G-M6-CS41064-09-29-2004	3.35	3.27	3.11	2.91	2.80	2.56	1.85	1.67	700	7,601	23	23
rigid-G-M6-CS41064-09-29-2004	3.07	2.95	2.80	2.56	2.48	2.20	1.57	1.67	700	6,926	28	28
rigid-G-M6-CS41064-09-29-2004	3.94	3.39	3.11	2.68	2.40	1.89	1.10	1.68	700	1,831	40	40
rigid-G-M6-CS41064-09-29-2004	2.44	2.28	2.17	1.97	1.89	1.65	1.14	1.68	700	7,357	39	39
rigid-G-M6-CS41064-09-29-2004	3.11	2.99	2.83	2.60	2.56	2.24	1.65	1.68	700	7,685	27	27
rigid-G-M6-CS41064-09-29-2004	2.87	2.72	2.60	2.36	2.28	2.01	1.46	1.68	700	7,384	30	30
rigid-G-M6-CS41064-09-29-2004	2.95	2.83	2.68	2.48	2.36	2.13	1.50	1.68	700	7,388	30	30
rigid-G-M6-CS41064-09-29-2004	2.68	2.56	2.48	2.24	2.17	1.89	1.30	1.69	700	6,899	34	34
rigid-G-M6-CS41064-09-29-2004	2.40	2.36	2.20	2.01	1.93	1.65	1.14	1.70	700	7,066	39	39
rigid-G-M6-CS41064-09-29-2004	2.44	2.28	2.17	1.97	1.89	1.57	1.02	1.70	700	5,688	44	44
rigid-G-M6-CS41064-09-29-2004	2.87	2.72	2.60	2.36	2.32	2.01	1.46	1.70	700	7,360	30	30
rigid-G-M6-CS41064-09-29-2004	1.93	1.77	1.65	1.54	1.42	1.14	0.71	1.70	700	5,661	62	62
rigid-G-M6-CS41064-09-29-2004	2.95	2.80	2.72	2.48	2.40	2.17	1.57	1.70	700	8,000	28	28
rigid-G-M6-CS41064-09-29-2004	2.83	2.72	2.56	2.36	2.24	2.01	1.42	1.70	700	7,273	31	31
rigid-G-M6-CS41064-09-29-2004	2.72	2.60	2.44	2.24	2.13	1.89	1.34	1.70	700	7,268	33	33
rigid-G-M6-CS41064-09-29-2004	3.03	2.87	2.72	2.52	2.48	2.17	1.57	1.71	700	7,426	28	28

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-29-2004	2.48	2.32	2.17	1.97	1.89	1.57	1.02	1.71	700	5,486	44	44
rigid-G-M6-CS41064-09-29-2004	2.76	2.68	2.52	2.36	2.24	1.97	1.34	1.71	700	6,732	33	33
rigid-G-M6-CS41064-09-29-2004	2.40	2.20	2.13	1.93	1.85	1.61	1.10	1.71	700	7,344	41	41
rigid-G-M6-CS41064-09-29-2004	2.56	2.40	2.24	2.01	1.93	1.61	1.06	1.71	700	5,438	43	43
rigid-G-M6-CS41064-09-29-2004	2.52	2.36	2.20	2.01	1.93	1.65	1.14	1.72	700	6,732	40	40
rigid-G-M6-CS41064-09-29-2004	2.64	2.48	2.36	2.13	2.05	1.69	1.10	1.72	700	5,259	41	41
rigid-G-M6-CS41064-09-29-2004	2.36	2.20	2.05	1.89	1.77	1.54	1.02	1.72	700	6,536	44	44
rigid-G-M6-CS41064-09-29-2004	2.52	2.36	2.28	2.05	2.01	1.73	1.22	1.72	700	7,559	36	36
rigid-G-M6-CS41064-09-29-2004	2.76	2.56	2.44	2.28	2.20	1.93	1.34	1.72	700	7,345	33	33
rigid-G-M6-CS41064-09-29-2004	2.68	2.52	2.40	2.20	2.13	1.85	1.26	1.73	700	6,831	36	36
rigid-G-M6-CS41064-09-29-2004	3.11	2.91	2.80	2.60	2.52	2.24	1.57	1.73	700	7,053	28	28
rigid-G-M6-CS41064-09-29-2004	2.91	2.80	2.64	2.44	2.36	2.09	1.46	1.73	700	7,028	30	30
rigid-G-M6-CS41064-09-29-2004	2.99	2.80	2.68	2.48	2.36	2.13	1.57	1.74	700	7,947	28	28
rigid-G-M6-CS41064-09-29-2004	3.54	3.46	3.31	3.03	2.95	2.64	1.89	1.75	700	6,575	23	23
rigid-G-M6-CS41064-09-29-2004	3.11	2.95	2.80	2.56	2.48	2.20	1.57	1.77	700	6,926	29	29
rigid-G-M6-CS41064-09-29-2004	2.64	2.60	2.40	2.20	2.09	1.81	1.26	1.78	700	6,592	36	36
rigid-G-M6-CS41064-09-29-2004	2.56	2.40	2.24	2.05	1.93	1.65	1.06	1.79	700	5,507	43	43
rigid-G-M6-CS41064-09-29-2004	2.52	2.36	2.17	1.97	1.89	1.57	1.06	1.79	700	5,683	43	43
rigid-G-M6-CS41064-09-29-2004	2.95	2.80	2.64	2.44	2.36	2.09	1.46	1.79	700	7,105	31	31
rigid-G-M6-CS41064-09-29-2004	2.36	2.20	2.09	1.93	1.77	1.54	0.98	1.80	700	5,926	46	46
rigid-G-M6-CS41064-09-29-2004	3.11	2.91	2.76	2.52	2.44	2.13	1.54	1.81	700	6,676	29	29
rigid-G-M6-CS41064-09-29-2004	2.80	2.64	2.52	2.32	2.24	2.01	1.42	1.81	700	7,797	31	31
rigid-G-M6-CS41064-09-29-2004	2.80	2.64	2.48	2.28	2.20	1.93	1.34	1.81	700	6,863	34	34
rigid-G-M6-CS41064-09-29-2004	2.83	2.68	2.56	2.32	2.20	1.97	1.38	1.81	700	6,893	33	33

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-29-2004	3.23	2.87	2.68	2.40	2.24	1.85	1.18	1.82	700	3,556	38	38
rigid-G-M6-CS41064-09-29-2004	2.28	2.17	2.01	1.81	1.65	1.42	0.91	1.82	700	5,385	49	49
rigid-G-M6-CS41064-09-29-2004	2.52	2.36	2.24	2.01	1.93	1.65	1.18	1.83	700	7,003	39	39
rigid-G-M6-CS41064-09-29-2004	2.83	2.72	2.56	2.32	2.24	1.93	1.30	1.83	700	5,781	34	34
rigid-G-M6-CS41064-09-29-2004	2.87	2.68	2.56	2.32	2.24	1.97	1.38	1.83	700	6,883	33	33
rigid-G-M6-CS41064-09-29-2004	3.19	3.11	2.95	2.68	2.64	2.32	1.69	1.84	700	7,107	26	26
rigid-G-M6-CS41064-09-29-2004	3.98	3.43	3.11	2.68	2.40	1.89	1.10	1.84	700	1,785	40	40
rigid-G-M6-CS41064-09-29-2004	2.91	2.80	2.64	2.44	2.40	2.13	1.54	1.85	700	8,000	28	28
rigid-G-M6-CS41064-09-29-2004	2.68	2.52	2.36	2.17	2.09	1.81	1.22	1.85	700	6,356	37	37
rigid-G-M6-CS41064-09-29-2004	3.50	3.39	3.23	2.99	2.91	2.64	1.89	1.85	700	7,019	23	23
rigid-G-M6-CS41064-09-29-2004	2.76	2.60	2.48	2.28	2.20	1.97	1.38	1.85	700	7,743	32	32
rigid-G-M6-CS41064-09-29-2004	2.91	2.80	2.64	2.40	2.36	2.05	1.46	1.86	700	6,988	30	30
rigid-G-M6-CS41064-09-29-2004	3.11	2.76	2.56	2.28	2.09	1.73	1.06	1.86	700	3,216	42	42
rigid-G-M6-CS41064-09-29-2004	2.64	2.44	2.36	2.13	2.09	1.81	1.30	1.89	700	7,781	34	34
rigid-G-M6-CS41064-09-29-2004	3.15	3.03	2.87	2.64	2.56	2.32	1.69	1.90	700	7,690	26	26
rigid-G-M6-CS41064-09-29-2004	2.87	2.72	2.56	2.36	2.24	2.01	1.46	1.90	700	7,598	31	31
rigid-G-M6-CS41064-09-29-2004	4.21	3.62	3.31	2.83	2.56	2.01	1.18	1.91	700	1,770	38	38
rigid-G-M6-CS41064-09-29-2004	3.11	2.95	2.76	2.52	2.40	2.09	1.38	1.92	700	5,036	32	32
rigid-G-M6-CS41064-09-29-2004	2.68	2.60	2.48	2.32	2.20	1.97	1.34	1.93	700	7,304	32	32
rigid-G-M6-CS41064-09-29-2004	2.64	2.48	2.32	2.09	2.01	1.73	1.18	1.93	700	6,050	38	38
rigid-G-M6-CS41064-09-29-2004	3.03	2.83	2.72	2.44	2.32	2.05	1.46	1.93	700	6,373	31	31
rigid-G-M6-CS41064-09-29-2004	3.03	2.87	2.72	2.48	2.44	2.13	1.50	1.93	700	6,645	29	29
rigid-G-M6-CS41064-09-29-2004	2.91	2.76	2.64	2.40	2.32	2.09	1.50	1.95	700	7,766	30	30
rigid-G-M6-CS41064-09-29-2004	2.99	2.83	2.68	2.48	2.40	2.17	1.57	1.95	700	8,000	28	28

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-29-2004	2.91	2.64	2.44	2.17	2.05	1.69	1.10	1.96	700	4,130	42	42
rigid-G-M6-CS41064-09-29-2004	2.91	2.64	2.44	2.17	2.05	1.69	1.10	1.96	700	4,095	41	41
rigid-G-M6-CS41064-09-29-2004	3.62	3.31	2.99	2.56	2.36	1.85	1.14	1.96	700	2,283	39	39
rigid-G-M6-CS41064-09-29-2004	2.83	2.60	2.44	2.28	2.20	1.89	1.38	1.98	700	7,277	33	33
rigid-G-M6-CS41064-09-29-2004	3.15	2.87	2.72	2.44	2.28	1.97	1.34	1.98	700	4,766	34	34
rigid-G-M6-CS41064-09-29-2004	2.72	2.64	2.52	2.28	2.24	1.97	1.38	1.98	700	7,578	32	32
rigid-G-M6-CS41064-09-29-2004	3.62	3.15	2.91	2.52	2.28	1.81	1.14	1.98	700	2,431	40	40
rigid-G-M6-CS41064-09-29-2004	4.37	3.78	3.39	2.95	2.68	2.09	1.22	1.98	700	1,678	36	36
rigid-G-M6-CS41064-09-29-2004	3.27	3.15	2.95	2.76	2.68	2.44	1.77	2.00	700	7,876	25	25
rigid-G-M6-CS41064-09-29-2004	3.46	3.27	3.07	2.87	2.72	2.48	1.77	2.00	700	6,613	25	25
rigid-G-M6-CS41064-09-29-2004	2.48	2.28	2.17	1.97	1.93	1.65	1.14	2.01	700	7,179	39	39
rigid-G-M6-CS41064-09-29-2004	2.76	2.60	2.48	2.24	2.20	1.93	1.38	2.01	700	7,547	32	32
rigid-G-M6-CS41064-09-29-2004	3.23	3.03	2.83	2.64	2.52	2.20	1.65	2.01	700	6,860	27	27
rigid-G-M6-CS41064-09-29-2004	2.64	2.48	2.40	2.17	2.13	1.85	1.26	2.02	700	7,076	35	35
rigid-G-M6-CS41064-09-29-2004	3.19	3.07	2.87	2.64	2.56	2.28	1.69	2.02	700	7,328	26	26
rigid-G-M6-CS41064-09-29-2004	3.11	2.91	2.80	2.60	2.56	2.28	1.61	2.04	700	7,566	27	27
rigid-G-M6-CS41064-09-29-2004	2.80	2.60	2.44	2.24	2.17	1.89	1.30	2.04	700	6,466	34	34
rigid-G-M6-CS41064-09-29-2004	2.87	2.72	2.56	2.32	2.24	1.97	1.42	2.04	700	7,114	32	32
rigid-G-M6-CS41064-09-29-2004	4.61	3.98	3.66	3.15	2.87	2.28	1.38	2.05	700	1,788	33	33
rigid-G-M6-CS41064-09-29-2004	2.36	2.20	2.05	1.89	1.77	1.57	1.10	2.06	700	7,866	42	42
rigid-G-M6-CS41064-09-29-2004	2.87	2.64	2.52	2.32	2.24	1.97	1.46	2.07	700	7,993	31	31
rigid-G-M6-CS41064-09-29-2004	3.03	2.83	2.64	2.36	2.20	1.89	1.30	2.07	700	4,891	35	35
rigid-G-M6-CS41064-09-29-2004	3.54	3.15	2.83	2.48	2.24	1.81	1.10	2.07	700	2,382	40	40
rigid-G-M6-CS41064-09-29-2004	2.68	2.60	2.48	2.32	2.24	1.97	1.34	2.07	700	7,354	32	32

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-29-2004	2.09	1.97	1.81	1.65	1.54	1.34	0.87	2.08	700	6,686	51	51
rigid-G-M6-CS41064-09-29-2004	2.40	2.24	2.13	1.89	1.85	1.57	1.10	2.09	700	7,106	41	41
rigid-G-M6-CS41064-09-29-2004	2.87	2.68	2.48	2.28	2.20	1.89	1.26	2.11	700	5,692	36	36
rigid-G-M6-CS41064-09-29-2004	3.07	2.91	2.76	2.48	2.44	2.13	1.50	2.12	700	6,355	29	29
rigid-G-M6-CS41064-09-29-2004	2.32	2.24	2.09	1.85	1.77	1.50	0.98	2.12	700	5,858	45	45
rigid-G-M6-CS41064-09-29-2004	2.60	2.44	2.32	2.05	1.97	1.69	1.10	2.12	700	5,531	41	41
rigid-G-M6-CS41064-09-29-2004	2.28	2.17	2.05	1.85	1.73	1.46	0.91	2.12	700	5,356	48	48
rigid-G-M6-CS41064-09-29-2004	3.03	2.80	2.60	2.36	2.24	1.89	1.34	2.13	700	5,275	34	34
rigid-G-M6-CS41064-09-29-2004	3.07	2.95	2.76	2.52	2.40	2.13	1.42	2.13	700	5,584	31	31
rigid-G-M6-CS41064-09-29-2004	3.46	3.27	3.11	2.83	2.72	2.44	1.81	2.13	700	6,821	25	25
rigid-G-M6-CS41064-09-29-2004	2.68	2.60	2.48	2.28	2.20	1.97	1.34	2.14	700	7,428	32	32
rigid-G-M6-CS41064-09-29-2004	3.07	2.83	2.60	2.36	2.17	1.85	1.26	2.14	700	4,516	37	37
rigid-G-M6-CS41064-09-29-2004	3.23	3.03	2.83	2.60	2.52	2.20	1.61	2.16	700	6,564	28	28
rigid-G-M6-CS41064-09-29-2004	2.99	2.99	2.76	2.48	2.32	1.97	1.34	2.16	700	4,792	33	33
rigid-G-M6-CS41064-09-29-2004	2.91	2.80	2.64	2.40	2.36	2.09	1.46	2.18	700	7,068	30	30
rigid-G-M6-CS41064-09-29-2004	2.91	2.80	2.64	2.36	2.28	1.97	1.30	2.18	700	5,380	34	34
rigid-G-M6-CS41064-09-29-2004	2.32	2.17	2.05	1.85	1.73	1.50	0.94	2.18	700	5,649	46	46
rigid-G-M6-CS41064-09-29-2004	2.52	2.36	2.20	2.01	1.93	1.65	1.06	2.20	700	5,823	42	42
rigid-G-M6-CS41064-09-29-2004	3.74	3.23	2.95	2.56	2.32	1.85	1.14	2.20	700	2,244	40	40
rigid-G-M6-CS41064-09-29-2004	3.27	3.11	2.95	2.68	2.64	2.36	1.73	2.21	700	7,509	26	26
rigid-G-M6-CS41064-09-29-2004	3.43	2.99	2.80	2.44	2.28	1.81	1.18	2.22	700	2,982	39	39
rigid-G-M6-CS41064-09-29-2004	3.54	3.27	2.95	2.52	2.32	1.85	1.14	2.23	700	2,390	39	39
rigid-G-M6-CS41064-09-29-2004	2.17	2.05	1.93	1.73	1.65	1.46	0.98	2.23	700	7,752	46	46
rigid-G-M6-CS41064-09-29-2004	3.43	3.23	3.03	2.80	2.76	2.44	1.73	2.23	700	6,462	26	26

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-29-2004	2.28	2.13	2.05	1.81	1.77	1.54	1.06	2.24	700	7,845	43	43
rigid-G-M6-CS41064-09-29-2004	4.61	3.98	3.66	3.19	2.91	2.32	1.46	2.25	700	1,980	32	32
rigid-G-M6-CS41064-09-29-2004	3.15	3.19	2.95	2.68	2.56	2.20	1.61	2.26	700	6,068	28	28
rigid-G-M6-CS41064-09-29-2004	2.87	2.80	2.60	2.36	2.28	1.93	1.26	2.26	700	5,136	35	35
rigid-G-M6-CS41064-09-29-2004	2.24	2.09	1.97	1.77	1.73	1.50	1.02	2.27	700	7,763	44	44
rigid-G-M6-CS41064-09-29-2004	3.31	3.07	2.91	2.64	2.52	2.24	1.61	2.27	700	6,069	28	28
rigid-G-M6-CS41064-09-29-2004	3.58	3.23	2.95	2.48	2.28	1.81	1.10	2.27	700	2,232	40	40
rigid-G-M6-CS41064-09-29-2004	3.15	3.19	2.95	2.68	2.60	2.20	1.61	2.27	700	6,067	28	28
rigid-G-M6-CS41064-09-29-2004	3.11	2.87	2.68	2.40	2.20	1.85	1.30	2.28	700	4,503	36	36
rigid-G-M6-CS41064-09-29-2004	3.11	2.80	2.60	2.36	2.20	1.89	1.26	2.29	700	4,546	36	36
rigid-G-M6-CS41064-09-29-2004	2.91	2.72	2.52	2.32	2.24	1.97	1.38	2.29	700	6,737	33	33
rigid-G-M6-CS41064-09-29-2004	2.48	2.28	2.13	1.97	1.85	1.61	1.02	2.30	700	5,727	43	43
rigid-G-M6-CS41064-09-29-2004	3.70	3.23	2.95	2.60	2.40	1.93	1.22	2.30	700	2,602	37	37
rigid-G-M6-CS41064-09-29-2004	5.04	4.41	4.02	3.50	3.19	2.56	1.61	2.31	700	1,813	29	29
rigid-G-M6-CS41064-09-29-2004	3.07	2.99	2.83	2.56	2.52	2.28	1.65	2.31	700	7,911	27	27
rigid-G-M6-CS41064-09-29-2004	3.43	3.07	2.80	2.44	2.20	1.81	1.14	2.31	700	2,712	39	39
rigid-G-M6-CS41064-09-29-2004	2.20	2.05	1.89	1.73	1.65	1.42	0.91	2.32	700	6,428	49	49
rigid-G-M6-CS41064-09-29-2004	3.43	3.27	2.95	2.64	2.44	2.05	1.38	2.33	700	3,702	34	34
rigid-G-M6-CS41064-09-29-2004	2.76	2.60	2.48	2.24	2.20	1.97	1.38	2.35	700	7,844	33	33
rigid-G-M6-CS41064-09-29-2004	3.74	3.66	3.35	2.91	2.68	2.17	1.38	2.36	700	2,714	33	33
rigid-G-M6-CS41064-09-29-2004	2.32	2.20	2.09	1.85	1.77	1.57	1.10	2.37	700	7,740	41	41
rigid-G-M6-CS41064-09-29-2004	2.76	2.60	2.48	2.20	2.13	1.89	1.30	2.37	700	6,547	34	34
rigid-G-M6-CS41064-09-29-2004	5.04	4.69	4.45	4.09	3.86	3.46	2.60	2.38	700	4,591	18	18
rigid-G-M6-CS41064-09-29-2004	2.91	2.72	2.60	2.36	2.32	2.09	1.50	2.39	700	8,000	29	29

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-29-2004	4.09	3.50	3.19	2.76	2.48	1.93	1.06	2.39	700	1,605	40	40
rigid-G-M6-CS41064-09-29-2004	2.20	2.09	1.97	1.77	1.73	1.46	0.94	2.40	700	6,536	47	47
rigid-G-M6-CS41064-09-29-2004	3.66	3.23	2.95	2.64	2.44	2.01	1.30	2.43	700	3,066	36	36
rigid-G-M6-CS41064-09-29-2004	2.68	2.56	2.44	2.17	2.13	1.89	1.30	2.44	700	7,059	34	34
rigid-G-M6-CS41064-09-29-2004	3.03	2.87	2.72	2.44	2.44	2.13	1.54	2.44	700	7,160	29	29
rigid-G-M6-CS41064-09-29-2004	2.99	2.99	2.76	2.44	2.32	1.93	1.34	2.44	700	4,759	34	34
rigid-G-M6-CS41064-09-29-2004	2.36	2.20	2.05	1.85	1.77	1.54	1.10	2.45	700	7,664	42	42
rigid-G-M6-CS41064-09-29-2004	2.95	2.80	2.64	2.40	2.36	2.13	1.54	2.47	700	7,878	28	28
rigid-G-M6-CS41064-09-29-2004	3.07	2.80	2.60	2.36	2.17	1.89	1.30	2.47	700	4,932	36	36
rigid-G-M6-CS41064-09-29-2004	3.03	2.80	2.64	2.36	2.24	1.97	1.38	2.48	700	5,698	33	33
rigid-G-M6-CS41064-09-29-2004	5.08	4.37	4.02	3.50	3.23	2.60	1.61	2.48	700	1,827	28	28
rigid-G-M6-CS41064-09-29-2004	2.72	2.60	2.48	2.20	2.20	1.93	1.38	2.50	700	7,802	32	32
rigid-G-M6-CS41064-09-29-2004	3.70	3.15	2.87	2.52	2.28	1.85	1.10	2.55	700	2,294	41	41
rigid-G-M6-CS41064-09-29-2004	4.96	4.61	4.37	3.98	3.82	3.39	2.56	2.56	700	4,701	18	18
rigid-G-M6-CS41064-09-29-2004	3.07	2.80	2.60	2.24	2.13	1.77	1.14	2.57	700	3,749	40	40
rigid-G-M6-CS41064-09-29-2004	3.70	3.66	3.35	2.91	2.68	2.17	1.38	2.58	700	2,759	33	33
rigid-G-M6-CS41064-09-29-2004	4.57	3.98	3.62	3.15	2.87	2.32	1.46	2.60	700	2,030	32	32
rigid-G-M6-CS41064-09-29-2004	3.74	3.27	3.03	2.60	2.40	1.97	1.22	2.61	700	2,508	37	37
rigid-G-M6-CS41064-09-29-2004	3.15	3.15	2.95	2.60	2.52	2.20	1.57	2.62	700	5,835	28	28
rigid-G-M6-CS41064-09-29-2004	2.87	2.87	2.68	2.36	2.17	1.77	1.14	2.63	700	3,871	39	39
rigid-G-M6-CS41064-09-29-2004	3.35	3.31	2.99	2.64	2.52	2.09	1.42	2.63	700	3,985	32	32
rigid-G-M6-CS41064-09-29-2004	5.16	4.49	4.09	3.54	3.23	2.64	1.61	2.63	700	1,716	28	28
rigid-G-M6-CS41064-09-29-2004	4.02	3.74	3.46	3.19	2.95	2.64	1.89	2.66	700	4,702	25	25
rigid-G-M6-CS41064-09-29-2004	3.03	3.03	2.76	2.44	2.32	1.97	1.34	2.67	700	4,678	34	34

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-29-2004	3.94	4.06	3.74	3.39	3.19	2.80	1.97	2.67	700	4,586	23	23
rigid-G-M6-CS41064-09-29-2004	1.93	1.81	1.65	1.50	1.42	1.18	0.71	2.67	700	5,779	62	62
rigid-G-M6-CS41064-09-29-2004	3.82	3.43	3.15	2.80	2.60	2.17	1.46	2.67	700	3,212	32	32
rigid-G-M6-CS41064-09-29-2004	4.72	4.88	4.57	4.13	3.94	3.50	2.64	2.68	700	4,887	17	17
rigid-G-M6-CS41064-09-29-2004	2.95	2.72	2.60	2.32	2.24	2.01	1.42	2.69	700	6,767	32	32
rigid-G-M6-CS41064-09-29-2004	3.03	3.11	2.91	2.60	2.44	2.09	1.50	2.69	700	5,666	30	30
rigid-G-M6-CS41064-09-29-2004	4.69	4.06	3.66	3.15	2.87	2.32	1.38	2.70	700	1,721	32	32
rigid-G-M6-CS41064-09-29-2004	3.03	2.99	2.80	2.44	2.28	1.89	1.18	2.71	700	3,678	38	38
rigid-G-M6-CS41064-09-29-2004	4.37	3.90	3.58	3.15	2.95	2.44	1.61	2.72	700	2,673	29	29
rigid-G-M6-CS41064-09-29-2004	4.61	3.98	3.62	3.11	2.87	2.28	1.42	2.72	700	1,875	32	32
rigid-G-M6-CS41064-09-29-2004	4.06	3.74	3.46	3.15	2.99	2.64	1.85	2.72	700	4,459	25	25
rigid-G-M6-CS41064-09-29-2004	3.11	2.80	2.60	2.24	2.17	1.77	1.14	2.74	700	3,696	40	40
rigid-G-M6-CS41064-09-29-2004	3.07	2.99	2.80	2.40	2.28	1.89	1.18	2.75	700	3,610	38	38
rigid-G-M6-CS41064-09-29-2004	2.83	2.83	2.64	2.32	2.13	1.73	1.10	2.75	700	3,772	41	41
rigid-G-M6-CS41064-09-29-2004	2.99	2.99	2.87	2.60	2.36	2.01	1.30	2.77	700	4,499	35	35
rigid-G-M6-CS41064-09-29-2004	2.95	2.99	2.68	2.40	2.28	1.89	1.30	2.78	700	4,731	35	35
rigid-G-M6-CS41064-09-29-2004	3.19	2.91	2.72	2.48	2.36	2.05	1.50	2.78	700	6,005	31	31
rigid-G-M6-CS41064-09-29-2004	3.50	3.07	2.83	2.48	2.28	1.81	1.22	2.80	700	2,945	38	38
rigid-G-M6-CS41064-09-29-2004	3.54	3.11	2.87	2.48	2.32	1.89	1.22	2.80	700	2,904	37	37
rigid-G-M6-CS41064-09-29-2004	3.39	2.95	2.76	2.36	2.20	1.81	1.14	2.81	700	2,968	40	40
rigid-G-M6-CS41064-09-29-2004	2.99	3.11	2.87	2.60	2.44	2.09	1.50	2.81	700	5,853	30	30
rigid-G-M6-CS41064-09-29-2004	3.86	3.43	3.19	2.80	2.60	2.17	1.46	2.83	700	3,144	32	32
rigid-G-M6-CS41064-09-29-2004	3.70	3.70	3.35	2.91	2.72	2.20	1.42	2.83	700	2,884	32	32
rigid-G-M6-CS41064-09-29-2004	3.86	4.02	3.74	3.39	3.19	2.76	1.93	2.84	700	4,509	23	23

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-29-2004	3.11	2.80	2.56	2.28	2.17	1.81	1.22	2.86	700	4,249	38	38
rigid-G-M6-CS41064-09-29-2004	2.95	3.07	2.83	2.56	2.40	2.09	1.46	2.89	700	5,793	31	31
rigid-G-M6-CS41064-09-29-2004	3.39	2.99	2.76	2.40	2.20	1.85	1.18	2.89	700	3,185	40	40
rigid-G-M6-CS41064-09-29-2004	2.80	2.83	2.64	2.32	2.13	1.77	1.14	2.89	700	4,109	39	39
rigid-G-M6-CS41064-09-29-2004	3.03	3.03	2.91	2.64	2.44	2.01	1.30	2.93	700	4,312	35	35
rigid-G-M6-CS41064-09-29-2004	2.95	2.80	2.64	2.36	2.28	1.97	1.22	2.94	700	4,622	36	36
rigid-G-M6-CS41064-09-29-2004	4.57	3.98	3.62	3.11	2.87	2.32	1.46	2.95	700	2,032	32	32
rigid-G-M6-CS41064-09-29-2004	2.56	2.44	2.28	2.20	2.13	1.81	1.18	2.97	700	6,787	37	37
rigid-G-M6-CS41064-09-29-2004	3.98	3.82	3.46	2.99	2.68	2.05	1.18	2.97	700	1,755	36	36
rigid-G-M6-CS41064-09-29-2004	3.03	2.99	2.80	2.40	2.28	1.89	1.18	2.97	700	3,719	38	38
rigid-G-M6-CS41064-09-29-2004	3.31	3.31	3.03	2.60	2.40	1.93	1.26	2.99	700	3,116	36	36
rigid-G-M6-CS41064-09-08-2004	2.52	2.40	2.28	2.13	2.01	1.73	1.22	0.65	700	7,358	37	37
rigid-G-M6-CS41064-09-08-2004	2.20	2.05	1.93	1.81	1.69	1.42	0.98	0.68	700	7,377	47	47
rigid-G-M6-CS41064-09-08-2004	2.95	2.80	2.68	2.48	2.36	2.01	1.42	0.68	700	6,293	32	32
rigid-G-M6-CS41064-09-08-2004	2.48	2.36	2.24	2.09	1.97	1.69	1.18	0.70	700	7,220	38	38
rigid-G-M6-CS41064-09-08-2004	2.48	2.28	2.17	2.01	1.85	1.57	1.06	0.71	700	5,931	43	43
rigid-G-M6-CS41064-09-08-2004	2.68	2.52	2.44	2.24	2.09	1.81	1.26	0.74	700	6,639	36	36
rigid-G-M6-CS41064-09-08-2004	3.03	2.83	2.72	2.52	2.40	2.05	1.46	0.76	700	6,300	31	31
rigid-G-M6-CS41064-09-08-2004	2.60	2.52	2.40	2.24	2.13	1.85	1.34	0.77	700	7,984	33	33
rigid-G-M6-CS41064-09-08-2004	2.72	2.56	2.44	2.28	2.17	1.85	1.30	0.79	700	6,779	35	35
rigid-G-M6-CS41064-09-08-2004	3.03	2.87	2.76	2.56	2.44	2.13	1.54	0.79	700	6,972	29	29
rigid-G-M6-CS41064-09-08-2004	3.58	3.46	3.31	3.15	2.99	2.68	1.97	0.84	700	7,100	22	22
rigid-G-M6-CS41064-09-08-2004	3.03	2.87	2.72	2.52	2.40	2.05	1.46	0.88	700	6,050	31	31
rigid-G-M6-CS41064-09-08-2004	3.11	2.95	2.80	2.68	2.52	2.24	1.65	0.89	700	7,787	27	27

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-08-2004	2.99	2.83	2.72	2.48	2.36	2.01	1.42	0.89	700	5,869	32	32
rigid-G-M6-CS41064-09-08-2004	2.52	2.36	2.24	2.09	1.97	1.69	1.22	0.91	700	7,518	37	37
rigid-G-M6-CS41064-09-08-2004	2.17	2.01	1.89	1.77	1.61	1.34	0.87	0.93	700	5,893	52	52
rigid-G-M6-CS41064-09-08-2004	2.44	2.32	2.20	2.01	1.89	1.61	1.10	0.94	700	6,625	42	42
rigid-G-M6-CS41064-09-08-2004	3.19	3.07	2.95	2.72	2.60	2.28	1.65	0.95	700	6,700	27	27
rigid-G-M6-CS41064-09-08-2004	2.32	2.20	2.09	1.93	1.85	1.57	1.10	0.96	700	7,605	40	40
rigid-G-M6-CS41064-09-08-2004	2.32	2.17	2.05	1.89	1.77	1.50	1.06	0.97	700	7,228	43	43
rigid-G-M6-CS41064-09-08-2004	2.99	2.87	2.76	2.56	2.48	2.17	1.61	0.97	700	7,789	27	27
rigid-G-M6-CS41064-09-08-2004	2.44	2.28	2.17	2.01	1.85	1.61	1.10	0.97	700	6,748	42	42
rigid-G-M6-CS41064-09-08-2004	2.52	2.36	2.24	2.05	1.89	1.61	1.06	0.98	700	5,633	43	43
rigid-G-M6-CS41064-09-08-2004	2.44	2.28	2.17	1.97	1.85	1.57	1.06	0.98	700	6,148	43	43
rigid-G-M6-CS41064-09-08-2004	3.39	3.31	3.15	2.95	2.83	2.52	1.89	1.00	700	7,582	23	23
rigid-G-M6-CS41064-09-08-2004	2.80	2.64	2.48	2.28	2.17	1.81	1.26	1.01	700	5,734	36	36
rigid-G-M6-CS41064-09-08-2004	3.23	3.07	2.95	2.76	2.64	2.32	1.65	1.02	700	6,764	27	27
rigid-G-M6-CS41064-09-08-2004	2.40	2.32	2.17	2.01	1.89	1.61	1.14	1.02	700	7,229	40	40
rigid-G-M6-CS41064-09-08-2004	2.56	2.44	2.28	2.13	2.01	1.73	1.22	1.03	700	7,067	37	37
rigid-G-M6-CS41064-09-08-2004	2.83	2.72	2.60	2.40	2.32	2.01	1.46	1.03	700	7,514	30	30
rigid-G-M6-CS41064-09-08-2004	3.03	2.87	2.76	2.56	2.40	2.13	1.50	1.04	700	6,547	30	30
rigid-G-M6-CS41064-09-08-2004	3.07	2.95	2.83	2.64	2.52	2.24	1.61	1.04	700	7,307	27	27
rigid-G-M6-CS41064-09-08-2004	3.07	2.95	2.80	2.60	2.48	2.17	1.54	1.06	700	6,624	29	29
rigid-G-M6-CS41064-09-08-2004	2.91	2.83	2.68	2.52	2.40	2.13	1.54	1.07	700	7,783	29	29
rigid-G-M6-CS41064-09-08-2004	2.76	2.64	2.52	2.32	2.24	1.93	1.38	1.08	700	7,265	32	32
rigid-G-M6-CS41064-09-08-2004	2.99	2.83	2.72	2.52	2.44	2.13	1.57	1.08	700	7,614	28	28
rigid-G-M6-CS41064-09-08-2004	2.99	2.83	2.68	2.48	2.36	2.05	1.46	1.09	700	6,561	31	31

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-08-2004	2.91	2.80	2.64	2.48	2.32	2.01	1.38	1.09	700	5,997	32	32
rigid-G-M6-CS41064-09-08-2004	3.11	2.95	2.80	2.60	2.48	2.17	1.57	1.10	700	6,791	29	29
rigid-G-M6-CS41064-09-08-2004	3.07	2.91	2.80	2.56	2.44	2.13	1.54	1.10	700	6,652	29	29
rigid-G-M6-CS41064-09-08-2004	2.76	2.56	2.44	2.28	2.13	1.85	1.26	1.12	700	6,125	35	35
rigid-G-M6-CS41064-09-08-2004	2.40	2.24	2.13	1.97	1.85	1.61	1.14	1.13	700	7,637	39	39
rigid-G-M6-CS41064-09-08-2004	2.83	2.72	2.60	2.40	2.28	2.01	1.42	1.13	700	7,010	31	31
rigid-G-M6-CS41064-09-08-2004	2.64	2.44	2.32	2.17	2.05	1.77	1.26	1.14	700	7,324	36	36
rigid-G-M6-CS41064-09-08-2004	3.07	2.91	2.83	2.60	2.48	2.20	1.57	1.14	700	6,980	28	28
rigid-G-M6-CS41064-09-08-2004	2.99	2.80	2.68	2.48	2.36	2.05	1.42	1.14	700	6,251	32	32
rigid-G-M6-CS41064-09-08-2004	2.13	2.01	1.89	1.73	1.61	1.34	0.87	1.14	700	6,106	51	51
rigid-G-M6-CS41064-09-08-2004	2.91	2.76	2.60	2.40	2.28	1.97	1.38	1.15	700	6,257	33	33
rigid-G-M6-CS41064-09-08-2004	3.27	3.11	2.95	2.76	2.64	2.32	1.65	1.15	700	6,484	27	27
rigid-G-M6-CS41064-09-08-2004	2.44	2.32	2.17	1.97	1.85	1.54	1.02	1.15	700	5,517	44	44
rigid-G-M6-CS41064-09-08-2004	2.87	2.72	2.60	2.40	2.28	2.01	1.46	1.15	700	7,441	31	31
rigid-G-M6-CS41064-09-08-2004	2.87	2.72	2.60	2.40	2.28	2.01	1.46	1.15	700	7,419	31	31
rigid-G-M6-CS41064-09-08-2004	3.39	3.31	3.15	2.95	2.80	2.48	1.77	1.16	700	6,442	25	25
rigid-G-M6-CS41064-09-08-2004	2.87	2.72	2.60	2.40	2.28	2.01	1.42	1.16	700	6,956	31	31
rigid-G-M6-CS41064-09-08-2004	2.44	2.28	2.17	1.97	1.89	1.57	1.10	1.16	700	6,598	41	41
rigid-G-M6-CS41064-09-08-2004	3.23	3.07	2.91	2.72	2.60	2.28	1.61	1.18	700	6,376	28	28
rigid-G-M6-CS41064-09-08-2004	2.56	2.40	2.24	2.05	1.93	1.61	1.06	1.18	700	5,360	43	43
rigid-G-M6-CS41064-09-08-2004	2.91	2.80	2.72	2.48	2.32	2.05	1.46	1.18	700	6,810	31	31
rigid-G-M6-CS41064-09-08-2004	2.83	2.68	2.56	2.36	2.24	1.97	1.38	1.18	700	6,862	33	33
rigid-G-M6-CS41064-09-08-2004	3.07	2.95	2.80	2.60	2.48	2.20	1.61	1.19	700	7,276	27	27
rigid-G-M6-CS41064-09-08-2004	2.44	2.36	2.24	2.05	1.97	1.69	1.22	1.19	700	7,972	37	37

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-08-2004	3.23	3.07	2.91	2.72	2.56	2.28	1.65	1.20	700	6,698	27	27
rigid-G-M6-CS41064-09-08-2004	2.95	2.80	2.68	2.44	2.36	2.01	1.42	1.20	700	6,350	32	32
rigid-G-M6-CS41064-09-08-2004	3.07	2.91	2.80	2.60	2.52	2.20	1.57	1.21	700	7,069	28	28
rigid-G-M6-CS41064-09-08-2004	2.36	2.24	2.13	1.93	1.85	1.57	1.10	1.21	700	7,208	41	41
rigid-G-M6-CS41064-09-08-2004	2.32	2.13	2.05	1.89	1.77	1.54	1.06	1.21	700	7,500	43	43
rigid-G-M6-CS41064-09-08-2004	3.15	3.03	2.87	2.68	2.56	2.28	1.69	1.21	700	7,614	26	26
rigid-G-M6-CS41064-09-08-2004	2.20	2.09	1.97	1.81	1.69	1.46	0.98	1.21	700	7,139	46	46
rigid-G-M6-CS41064-09-08-2004	2.52	2.32	2.20	2.01	1.89	1.61	1.10	1.21	700	6,218	41	41
rigid-G-M6-CS41064-09-08-2004	2.44	2.28	2.13	1.97	1.85	1.57	1.10	1.21	700	6,863	42	42
rigid-G-M6-CS41064-09-08-2004	2.87	2.72	2.60	2.40	2.32	2.01	1.42	1.22	700	6,996	32	32
rigid-G-M6-CS41064-09-08-2004	2.36	2.20	2.09	1.93	1.81	1.57	1.06	1.22	700	6,908	42	42
rigid-G-M6-CS41064-09-08-2004	3.19	2.99	2.91	2.68	2.56	2.28	1.65	1.23	700	7,058	27	27
rigid-G-M6-CS41064-09-08-2004	2.48	2.36	2.24	2.05	1.97	1.69	1.22	1.23	700	7,782	37	37
rigid-G-M6-CS41064-09-08-2004	2.44	2.40	2.28	2.13	2.01	1.73	1.22	1.23	700	7,592	36	36
rigid-G-M6-CS41064-09-08-2004	3.07	2.91	2.76	2.60	2.48	2.20	1.57	1.23	700	7,310	29	29
rigid-G-M6-CS41064-09-08-2004	3.07	2.95	2.80	2.60	2.48	2.20	1.57	1.24	700	6,874	28	28
rigid-G-M6-CS41064-09-08-2004	3.11	2.99	2.83	2.64	2.52	2.24	1.61	1.24	700	7,033	27	27
rigid-G-M6-CS41064-09-08-2004	3.50	3.39	3.27	3.03	2.95	2.60	1.89	1.24	700	6,819	23	23
rigid-G-M6-CS41064-09-08-2004	2.91	2.76	2.60	2.40	2.28	1.97	1.42	1.25	700	6,563	32	32
rigid-G-M6-CS41064-09-08-2004	2.52	2.40	2.28	2.09	2.01	1.73	1.26	1.25	700	7,868	35	35
rigid-G-M6-CS41064-09-08-2004	3.19	2.99	2.87	2.68	2.56	2.28	1.65	1.26	700	7,144	27	27
rigid-G-M6-CS41064-09-08-2004	3.11	2.95	2.80	2.56	2.44	2.09	1.42	1.26	700	5,300	32	32
rigid-G-M6-CS41064-09-08-2004	2.52	2.40	2.32	2.13	2.01	1.77	1.22	1.26	700	7,270	36	36
rigid-G-M6-CS41064-09-08-2004	3.03	2.87	2.80	2.56	2.44	2.17	1.54	1.27	700	6,965	29	29

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-08-2004	2.52	2.36	2.28	2.09	1.93	1.69	1.22	1.27	700	7,416	37	37
rigid-G-M6-CS41064-09-08-2004	3.66	3.50	3.39	3.15	3.03	2.76	2.09	1.28	700	7,908	21	21
rigid-G-M6-CS41064-09-08-2004	2.95	2.83	2.72	2.52	2.36	2.13	1.57	1.28	700	7,890	28	28
rigid-G-M6-CS41064-09-08-2004	2.48	2.32	2.20	2.05	1.93	1.65	1.10	1.28	700	6,488	41	41
rigid-G-M6-CS41064-09-08-2004	2.87	2.72	2.56	2.40	2.28	2.01	1.46	1.28	700	7,578	31	31
rigid-G-M6-CS41064-09-08-2004	2.13	1.97	1.85	1.69	1.57	1.34	0.91	1.29	700	6,974	50	50
rigid-G-M6-CS41064-09-08-2004	2.48	2.32	2.20	2.01	1.89	1.61	1.06	1.29	700	5,953	43	43
rigid-G-M6-CS41064-09-08-2004	3.31	3.11	2.95	2.76	2.64	2.32	1.65	1.29	700	6,391	27	27
rigid-G-M6-CS41064-09-08-2004	3.11	2.95	2.83	2.60	2.52	2.20	1.57	1.29	700	6,646	28	28
rigid-G-M6-CS41064-09-08-2004	2.95	2.83	2.68	2.44	2.32	2.01	1.42	1.29	700	6,170	32	32
rigid-G-M6-CS41064-09-08-2004	2.95	2.80	2.64	2.48	2.36	2.09	1.54	1.31	700	7,702	29	29
rigid-G-M6-CS41064-09-08-2004	2.40	2.28	2.17	1.97	1.89	1.61	1.10	1.31	700	6,797	40	40
rigid-G-M6-CS41064-09-08-2004	2.99	2.80	2.68	2.48	2.40	2.09	1.50	1.32	700	7,199	30	30
rigid-G-M6-CS41064-09-08-2004	2.09	1.93	1.85	1.69	1.57	1.34	0.87	1.32	700	6,676	51	51
rigid-G-M6-CS41064-09-08-2004	2.40	2.28	2.13	1.97	1.81	1.57	1.10	1.32	700	6,836	41	41
rigid-G-M6-CS41064-09-08-2004	3.46	3.31	3.15	2.91	2.83	2.48	1.81	1.32	700	6,594	25	25
rigid-G-M6-CS41064-09-08-2004	3.03	2.83	2.68	2.48	2.36	2.05	1.42	1.33	700	5,948	31	31
rigid-G-M6-CS41064-09-08-2004	3.62	3.50	3.35	3.11	3.03	2.72	2.05	1.33	700	7,741	21	21
rigid-G-M6-CS41064-09-08-2004	3.27	3.11	2.95	2.76	2.64	2.36	1.73	1.33	700	7,349	26	26
rigid-G-M6-CS41064-09-08-2004	3.03	2.91	2.80	2.60	2.52	2.24	1.61	1.33	700	7,659	27	27
rigid-G-M6-CS41064-09-08-2004	2.48	2.28	2.17	1.97	1.89	1.57	1.06	1.33	700	6,090	43	43
rigid-G-M6-CS41064-09-08-2004	2.44	2.32	2.17	2.01	1.89	1.65	1.14	1.33	700	7,168	39	39
rigid-G-M6-CS41064-09-08-2004	2.83	2.72	2.60	2.36	2.28	1.97	1.42	1.34	700	7,117	32	32
rigid-G-M6-CS41064-09-08-2004	3.11	2.99	2.87	2.64	2.56	2.28	1.69	1.34	700	7,854	26	26

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-08-2004	3.43	3.31	3.15	2.91	2.80	2.48	1.77	1.35	700	6,308	25	25
rigid-G-M6-CS41064-09-08-2004	2.48	2.28	2.20	2.01	1.89	1.57	1.02	1.35	700	5,539	44	44
rigid-G-M6-CS41064-09-08-2004	2.83	2.68	2.52	2.32	2.24	1.89	1.30	1.36	700	5,859	34	34
rigid-G-M6-CS41064-09-08-2004	2.68	2.56	2.44	2.24	2.13	1.89	1.34	1.36	700	7,576	33	33
rigid-G-M6-CS41064-09-08-2004	2.87	2.76	2.60	2.40	2.28	2.01	1.42	1.36	700	6,888	32	32
rigid-G-M6-CS41064-09-08-2004	2.52	2.32	2.20	2.01	1.89	1.61	1.06	1.37	700	5,849	43	43
rigid-G-M6-CS41064-09-08-2004	2.72	2.52	2.40	2.20	2.09	1.81	1.26	1.37	700	6,600	36	36
rigid-G-M6-CS41064-09-08-2004	2.68	2.52	2.40	2.24	2.13	1.85	1.26	1.37	700	6,738	35	35
rigid-G-M6-CS41064-09-08-2004	2.80	2.64	2.56	2.36	2.24	2.01	1.42	1.38	700	7,659	31	31
rigid-G-M6-CS41064-09-08-2004	2.44	2.32	2.20	2.05	1.93	1.65	1.10	1.38	700	6,536	40	40
rigid-G-M6-CS41064-09-08-2004	3.19	2.91	2.76	2.44	2.28	1.89	1.22	1.38	700	3,810	38	38
rigid-G-M6-CS41064-09-08-2004	2.83	2.64	2.56	2.32	2.20	1.93	1.34	1.38	700	6,453	33	33
rigid-G-M6-CS41064-09-08-2004	2.87	2.68	2.56	2.36	2.24	1.97	1.42	1.38	700	7,164	32	32
rigid-G-M6-CS41064-09-08-2004	2.83	2.72	2.56	2.36	2.24	1.97	1.42	1.39	700	7,226	32	32
rigid-G-M6-CS41064-09-08-2004	3.15	3.03	2.87	2.68	2.56	2.28	1.61	1.39	700	6,718	27	27
rigid-G-M6-CS41064-09-08-2004	2.64	2.52	2.40	2.20	2.13	1.85	1.30	1.39	700	7,418	34	34
rigid-G-M6-CS41064-09-08-2004	2.95	2.80	2.72	2.48	2.40	2.13	1.54	1.40	700	7,477	28	28
rigid-G-M6-CS41064-09-08-2004	3.07	2.87	2.76	2.56	2.48	2.17	1.54	1.40	700	6,895	29	29
rigid-G-M6-CS41064-09-08-2004	2.91	2.76	2.64	2.44	2.36	2.09	1.50	1.40	700	7,733	30	30
rigid-G-M6-CS41064-09-08-2004	2.87	2.72	2.60	2.40	2.24	2.01	1.42	1.40	700	7,031	32	32
rigid-G-M6-CS41064-09-08-2004	3.23	3.07	2.91	2.72	2.60	2.32	1.65	1.41	700	6,747	27	27
rigid-G-M6-CS41064-09-08-2004	3.23	3.07	2.91	2.72	2.60	2.32	1.65	1.41	700	6,709	27	27
rigid-G-M6-CS41064-09-08-2004	3.15	2.99	2.87	2.68	2.60	2.28	1.61	1.43	700	6,768	27	27
rigid-G-M6-CS41064-09-08-2004	2.95	2.80	2.64	2.44	2.36	2.05	1.46	1.43	700	6,975	31	31

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-08-2004	2.76	2.60	2.48	2.28	2.20	1.93	1.38	1.43	700	7,419	32	32
rigid-G-M6-CS41064-09-08-2004	2.44	2.32	2.20	2.05	1.93	1.69	1.14	1.44	700	7,119	39	39
rigid-G-M6-CS41064-09-08-2004	2.32	2.20	2.13	1.93	1.85	1.57	1.06	1.44	700	7,090	43	43
rigid-G-M6-CS41064-09-08-2004	2.83	2.72	2.64	2.40	2.32	2.05	1.46	1.44	700	7,477	30	30
rigid-G-M6-CS41064-09-08-2004	2.20	2.05	1.93	1.77	1.69	1.42	0.94	1.45	700	6,841	49	49
rigid-G-M6-CS41064-09-08-2004	2.44	2.36	2.24	2.05	1.97	1.73	1.22	1.45	700	7,983	36	36
rigid-G-M6-CS41064-09-08-2004	3.27	3.15	2.99	2.76	2.64	2.36	1.69	1.46	700	6,589	26	26
rigid-G-M6-CS41064-09-08-2004	2.40	2.20	2.09	1.93	1.81	1.57	1.06	1.46	700	6,767	42	42
rigid-G-M6-CS41064-09-08-2004	3.39	3.27	3.15	2.91	2.83	2.56	1.89	1.46	700	7,843	23	23
rigid-G-M6-CS41064-09-08-2004	2.72	2.52	2.40	2.20	2.13	1.81	1.26	1.46	700	6,615	36	36
rigid-G-M6-CS41064-09-08-2004	2.83	2.72	2.56	2.36	2.24	1.93	1.30	1.46	700	5,747	34	34
rigid-G-M6-CS41064-09-08-2004	2.95	2.83	2.64	2.48	2.40	2.09	1.50	1.46	700	7,395	30	30
rigid-G-M6-CS41064-09-08-2004	2.72	2.56	2.44	2.24	2.17	1.89	1.34	1.46	700	7,410	33	33
rigid-G-M6-CS41064-09-08-2004	2.52	2.36	2.20	2.01	1.89	1.61	1.06	1.47	700	5,680	43	43
rigid-G-M6-CS41064-09-08-2004	3.54	3.43	3.27	3.03	2.95	2.64	1.93	1.47	700	7,088	23	23
rigid-G-M6-CS41064-09-08-2004	3.27	3.07	2.91	2.76	2.68	2.36	1.77	1.47	700	8,000	25	25
rigid-G-M6-CS41064-09-08-2004	3.11	2.99	2.83	2.64	2.56	2.28	1.65	1.47	700	7,519	26	26
rigid-G-M6-CS41064-09-08-2004	2.87	2.72	2.56	2.36	2.24	1.97	1.38	1.47	700	6,708	33	33
rigid-G-M6-CS41064-09-08-2004	3.03	2.99	2.83	2.60	2.52	2.20	1.61	1.47	700	7,258	27	27
rigid-G-M6-CS41064-09-08-2004	2.95	2.80	2.68	2.48	2.36	2.13	1.54	1.47	700	7,780	29	29
rigid-G-M6-CS41064-09-08-2004	3.23	3.11	2.95	2.72	2.64	2.32	1.65	1.48	700	6,584	27	27
rigid-G-M6-CS41064-09-08-2004	2.64	2.52	2.36	2.20	2.09	1.85	1.34	1.48	700	8,000	33	33
rigid-G-M6-CS41064-09-08-2004	2.95	2.83	2.68	2.48	2.40	2.13	1.54	1.49	700	7,571	28	28
rigid-G-M6-CS41064-09-08-2004	3.15	3.03	2.87	2.68	2.60	2.28	1.61	1.49	700	6,718	27	27

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-08-2004	2.83	2.76	2.60	2.40	2.32	2.05	1.50	1.49	700	7,980	29	29
rigid-G-M6-CS41064-09-08-2004	3.62	3.50	3.35	3.11	2.99	2.72	2.09	1.50	700	7,962	21	21
rigid-G-M6-CS41064-09-08-2004	2.48	2.32	2.17	1.97	1.85	1.57	1.02	1.50	700	5,438	44	44
rigid-G-M6-CS41064-09-08-2004	2.80	2.60	2.48	2.28	2.20	1.89	1.30	1.50	700	6,455	35	35
rigid-G-M6-CS41064-09-08-2004	2.48	2.32	2.17	2.01	1.89	1.65	1.14	1.51	700	7,011	40	40
rigid-G-M6-CS41064-09-08-2004	2.68	2.52	2.36	2.17	2.05	1.77	1.26	1.52	700	6,778	37	37
rigid-G-M6-CS41064-09-08-2004	2.28	2.13	2.05	1.85	1.77	1.54	1.06	1.52	700	7,644	42	42
rigid-G-M6-CS41064-09-08-2004	1.93	1.81	1.69	1.54	1.42	1.14	0.71	1.53	700	5,496	62	62
rigid-G-M6-CS41064-09-08-2004	2.87	2.72	2.56	2.40	2.32	2.05	1.50	1.54	700	8,000	29	29
rigid-G-M6-CS41064-09-08-2004	2.91	2.68	2.60	2.36	2.28	1.97	1.38	1.54	700	6,483	33	33
rigid-G-M6-CS41064-09-08-2004	2.87	2.80	2.64	2.44	2.36	2.09	1.50	1.54	700	7,546	29	29
rigid-G-M6-CS41064-09-08-2004	3.07	2.91	2.76	2.56	2.48	2.20	1.61	1.55	700	7,603	27	27
rigid-G-M6-CS41064-09-08-2004	2.95	2.83	2.72	2.48	2.44	2.13	1.54	1.55	700	7,507	28	28
rigid-G-M6-CS41064-09-08-2004	2.40	2.28	2.20	2.01	1.89	1.61	1.06	1.55	700	6,373	43	43
rigid-G-M6-CS41064-09-08-2004	2.48	2.32	2.20	2.01	1.89	1.65	1.10	1.56	700	6,471	41	41
rigid-G-M6-CS41064-09-08-2004	3.27	3.11	2.95	2.72	2.60	2.32	1.65	1.56	700	6,432	27	27
rigid-G-M6-CS41064-09-08-2004	2.48	2.36	2.20	2.01	1.93	1.65	1.14	1.56	700	6,809	40	40
rigid-G-M6-CS41064-09-08-2004	3.03	2.87	2.72	2.56	2.48	2.20	1.57	1.56	700	7,745	29	29
rigid-G-M6-CS41064-09-08-2004	2.80	2.64	2.48	2.28	2.20	1.89	1.30	1.56	700	6,231	34	34
rigid-G-M6-CS41064-09-08-2004	2.24	2.09	2.01	1.81	1.73	1.50	1.02	1.56	700	7,569	44	44
rigid-G-M6-CS41064-09-08-2004	2.24	2.09	2.01	1.81	1.73	1.50	1.02	1.56	700	7,383	43	43
rigid-G-M6-CS41064-09-08-2004	2.83	2.64	2.52	2.28	2.17	1.89	1.30	1.57	700	6,198	35	35
rigid-G-M6-CS41064-09-08-2004	2.91	2.76	2.60	2.40	2.28	2.01	1.38	1.57	700	6,305	32	32
rigid-G-M6-CS41064-09-08-2004	2.99	2.80	2.64	2.48	2.36	2.09	1.54	1.58	700	7,792	30	30

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-08-2004	2.99	2.80	2.68	2.44	2.36	2.05	1.42	1.58	700	6,333	32	32
rigid-G-M6-CS41064-09-08-2004	2.87	2.76	2.60	2.40	2.32	2.05	1.46	1.59	700	7,347	30	30
rigid-G-M6-CS41064-09-08-2004	2.60	2.48	2.40	2.17	2.09	1.85	1.30	1.59	700	7,781	34	34
rigid-G-M6-CS41064-09-08-2004	2.24	2.13	2.01	1.81	1.69	1.46	1.02	1.60	700	7,174	44	44
rigid-G-M6-CS41064-09-08-2004	2.24	2.13	2.01	1.81	1.69	1.46	1.02	1.60	700	7,207	45	45
rigid-G-M6-CS41064-09-08-2004	2.40	2.24	2.09	1.93	1.81	1.57	1.10	1.60	700	7,071	41	41
rigid-G-M6-CS41064-09-08-2004	2.72	2.52	2.40	2.24	2.17	1.89	1.34	1.60	700	7,686	33	33
rigid-G-M6-CS41064-09-08-2004	2.60	2.48	2.32	2.17	2.05	1.73	1.14	1.60	700	5,727	39	39
rigid-G-M6-CS41064-09-08-2004	2.60	2.48	2.32	2.17	2.05	1.73	1.14	1.60	700	5,739	39	39
rigid-G-M6-CS41064-09-08-2004	2.28	2.09	2.05	1.85	1.77	1.54	1.06	1.61	700	7,871	42	42
rigid-G-M6-CS41064-09-08-2004	2.36	2.20	2.09	1.89	1.81	1.54	1.02	1.61	700	6,440	44	44
rigid-G-M6-CS41064-09-08-2004	3.07	2.91	2.76	2.52	2.44	2.13	1.54	1.61	700	6,799	29	29
rigid-G-M6-CS41064-09-08-2004	4.17	3.62	3.27	2.83	2.56	1.97	1.14	1.61	700	1,704	39	39
rigid-G-M6-CS41064-09-08-2004	2.64	2.44	2.32	2.13	2.05	1.77	1.26	1.61	700	7,363	36	36
rigid-G-M6-CS41064-09-08-2004	2.28	2.17	2.05	1.89	1.77	1.57	1.06	1.61	700	7,583	42	42
rigid-G-M6-CS41064-09-08-2004	2.99	2.83	2.68	2.44	2.28	2.01	1.42	1.62	700	6,099	32	32
rigid-G-M6-CS41064-09-08-2004	2.83	2.72	2.56	2.36	2.28	2.01	1.42	1.62	700	7,321	32	32
rigid-G-M6-CS41064-09-08-2004	2.95	2.76	2.64	2.40	2.32	2.01	1.46	1.62	700	6,967	31	31
rigid-G-M6-CS41064-09-08-2004	2.72	2.56	2.44	2.24	2.13	1.89	1.30	1.62	700	6,928	34	34
rigid-G-M6-CS41064-09-08-2004	2.95	2.76	2.64	2.44	2.36	2.09	1.54	1.62	700	8,000	29	29
rigid-G-M6-CS41064-09-08-2004	2.99	2.83	2.72	2.48	2.40	2.13	1.57	1.62	700	7,821	28	28
rigid-G-M6-CS41064-09-08-2004	2.52	2.36	2.24	2.01	1.93	1.65	1.14	1.62	700	6,529	40	40
rigid-G-M6-CS41064-09-08-2004	2.72	2.52	2.40	2.17	2.09	1.77	1.26	1.63	700	6,552	37	37
rigid-G-M6-CS41064-09-08-2004	3.07	2.99	2.83	2.60	2.52	2.24	1.61	1.63	700	7,246	27	27

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-08-2004	3.31	3.07	2.95	2.72	2.64	2.32	1.69	1.63	700	6,823	26	26
rigid-G-M6-CS41064-09-08-2004	3.19	2.91	2.72	2.44	2.28	1.89	1.18	1.63	700	3,630	38	38
rigid-G-M6-CS41064-09-08-2004	2.32	2.24	2.09	1.89	1.77	1.50	0.98	1.64	700	5,815	45	45
rigid-G-M6-CS41064-09-08-2004	2.64	2.56	2.44	2.24	2.13	1.89	1.30	1.64	700	7,164	34	34
rigid-G-M6-CS41064-09-08-2004	2.52	2.48	2.32	2.13	2.01	1.69	1.14	1.65	700	6,115	40	40
rigid-G-M6-CS41064-09-08-2004	2.99	2.83	2.68	2.44	2.36	2.05	1.42	1.65	700	6,141	32	32
rigid-G-M6-CS41064-09-08-2004	2.40	2.28	2.13	1.93	1.77	1.54	1.02	1.65	700	5,866	44	44
rigid-G-M6-CS41064-09-08-2004	2.56	2.44	2.28	2.09	1.97	1.73	1.18	1.65	700	6,579	38	38
rigid-G-M6-CS41064-09-08-2004	2.87	2.72	2.60	2.36	2.28	2.01	1.42	1.66	700	7,044	32	32
rigid-G-M6-CS41064-09-08-2004	3.46	3.39	3.23	2.99	2.95	2.60	1.89	1.66	700	7,041	23	23
rigid-G-M6-CS41064-09-08-2004	2.91	2.72	2.56	2.36	2.24	1.97	1.38	1.66	700	6,504	33	33
rigid-G-M6-CS41064-09-08-2004	2.52	2.36	2.24	2.05	1.97	1.73	1.22	1.67	700	7,710	37	37
rigid-G-M6-CS41064-09-08-2004	2.52	2.36	2.24	2.05	1.97	1.73	1.22	1.67	700	7,654	36	36
rigid-G-M6-CS41064-09-08-2004	2.48	2.36	2.20	2.01	1.93	1.65	1.18	1.67	700	7,338	39	39
rigid-G-M6-CS41064-09-08-2004	2.99	2.83	2.68	2.48	2.40	2.13	1.57	1.67	700	7,920	28	28
rigid-G-M6-CS41064-09-08-2004	3.35	3.27	3.11	2.91	2.80	2.56	1.85	1.67	700	7,601	23	23
rigid-G-M6-CS41064-09-08-2004	3.07	2.95	2.80	2.56	2.48	2.20	1.57	1.67	700	6,926	28	28
rigid-G-M6-CS41064-09-08-2004	3.94	3.39	3.11	2.68	2.40	1.89	1.10	1.68	700	1,831	40	40
rigid-G-M6-CS41064-09-08-2004	2.44	2.28	2.17	1.97	1.89	1.65	1.14	1.68	700	7,357	39	39
rigid-G-M6-CS41064-09-08-2004	3.11	2.99	2.83	2.60	2.56	2.24	1.65	1.68	700	7,685	27	27
rigid-G-M6-CS41064-09-08-2004	2.87	2.72	2.60	2.36	2.28	2.01	1.46	1.68	700	7,384	30	30
rigid-G-M6-CS41064-09-08-2004	2.95	2.83	2.68	2.48	2.36	2.13	1.50	1.68	700	7,388	30	30
rigid-G-M6-CS41064-09-08-2004	2.68	2.56	2.48	2.24	2.17	1.89	1.30	1.69	700	6,899	34	34
rigid-G-M6-CS41064-09-08-2004	2.40	2.36	2.20	2.01	1.93	1.65	1.14	1.70	700	7,066	39	39

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-08-2004	2.44	2.28	2.17	1.97	1.89	1.57	1.02	1.70	700	5,688	44	44
rigid-G-M6-CS41064-09-08-2004	2.87	2.72	2.60	2.36	2.32	2.01	1.46	1.70	700	7,360	30	30
rigid-G-M6-CS41064-09-08-2004	1.93	1.77	1.65	1.54	1.42	1.14	0.71	1.70	700	5,661	62	62
rigid-G-M6-CS41064-09-08-2004	2.95	2.80	2.72	2.48	2.40	2.17	1.57	1.70	700	8,000	28	28
rigid-G-M6-CS41064-09-08-2004	2.83	2.72	2.56	2.36	2.24	2.01	1.42	1.70	700	7,273	31	31
rigid-G-M6-CS41064-09-08-2004	2.72	2.60	2.44	2.24	2.13	1.89	1.34	1.70	700	7,268	33	33
rigid-G-M6-CS41064-09-08-2004	3.03	2.87	2.72	2.52	2.48	2.17	1.57	1.71	700	7,426	28	28
rigid-G-M6-CS41064-09-08-2004	2.48	2.32	2.17	1.97	1.89	1.57	1.02	1.71	700	5,486	44	44
rigid-G-M6-CS41064-09-08-2004	2.76	2.68	2.52	2.36	2.24	1.97	1.34	1.71	700	6,739	33	33
rigid-G-M6-CS41064-09-08-2004	2.40	2.20	2.13	1.93	1.85	1.61	1.10	1.71	700	7,344	41	41
rigid-G-M6-CS41064-09-08-2004	2.56	2.40	2.24	2.01	1.93	1.61	1.06	1.71	700	5,438	43	43
rigid-G-M6-CS41064-09-08-2004	2.52	2.36	2.20	2.01	1.93	1.65	1.14	1.72	700	6,732	40	40
rigid-G-M6-CS41064-09-08-2004	2.64	2.48	2.36	2.13	2.05	1.69	1.10	1.72	700	5,259	41	41
rigid-G-M6-CS41064-09-08-2004	2.36	2.20	2.05	1.89	1.77	1.54	1.02	1.72	700	6,536	44	44
rigid-G-M6-CS41064-09-08-2004	2.52	2.36	2.28	2.05	2.01	1.73	1.22	1.72	700	7,559	36	36
rigid-G-M6-CS41064-09-08-2004	2.76	2.56	2.44	2.28	2.20	1.93	1.34	1.72	700	7,345	33	33
rigid-G-M6-CS41064-09-08-2004	2.68	2.52	2.40	2.20	2.13	1.85	1.26	1.73	700	6,831	36	36
rigid-G-M6-CS41064-09-08-2004	3.11	2.91	2.80	2.60	2.52	2.24	1.57	1.73	700	7,053	28	28
rigid-G-M6-CS41064-09-08-2004	2.91	2.80	2.64	2.44	2.36	2.09	1.46	1.73	700	7,028	30	30
rigid-G-M6-CS41064-09-08-2004	2.99	2.80	2.68	2.48	2.36	2.13	1.57	1.74	700	7,947	28	28
rigid-G-M6-CS41064-09-08-2004	3.54	3.46	3.31	3.03	2.95	2.64	1.89	1.75	700	6,575	23	23
rigid-G-M6-CS41064-09-08-2004	3.11	2.95	2.80	2.56	2.48	2.20	1.57	1.77	700	6,926	29	29
rigid-G-M6-CS41064-09-08-2004	2.64	2.60	2.40	2.20	2.09	1.81	1.26	1.78	700	6,592	36	36
rigid-G-M6-CS41064-09-08-2004	2.32	2.20	2.01	1.89	1.81	1.54	1.06	1.78	700	7,254	42	42

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-08-2004	2.56	2.40	2.24	2.05	1.93	1.65	1.06	1.79	700	5,507	43	43
rigid-G-M6-CS41064-09-08-2004	2.52	2.36	2.17	1.97	1.89	1.57	1.06	1.79	700	5,683	43	43
rigid-G-M6-CS41064-09-08-2004	2.95	2.80	2.64	2.44	2.36	2.09	1.46	1.79	700	7,105	31	31
rigid-G-M6-CS41064-09-08-2004	2.36	2.20	2.09	1.93	1.77	1.54	0.98	1.80	700	5,926	46	46
rigid-G-M6-CS41064-09-08-2004	3.11	2.91	2.76	2.52	2.44	2.13	1.54	1.81	700	6,676	29	29
rigid-G-M6-CS41064-09-08-2004	2.80	2.64	2.52	2.32	2.24	2.01	1.42	1.81	700	7,797	31	31
rigid-G-M6-CS41064-09-08-2004	2.80	2.64	2.48	2.28	2.20	1.93	1.34	1.81	700	6,863	34	34
rigid-G-M6-CS41064-09-08-2004	2.83	2.68	2.56	2.32	2.20	1.97	1.38	1.81	700	6,893	33	33
rigid-G-M6-CS41064-09-08-2004	3.23	2.87	2.68	2.40	2.24	1.85	1.18	1.82	700	3,556	38	38
rigid-G-M6-CS41064-09-08-2004	2.28	2.17	2.01	1.81	1.65	1.42	0.91	1.82	700	5,385	49	49
rigid-G-M6-CS41064-09-08-2004	2.52	2.36	2.24	2.01	1.93	1.65	1.18	1.83	700	7,003	39	39
rigid-G-M6-CS41064-09-08-2004	2.83	2.72	2.56	2.32	2.24	1.93	1.30	1.83	700	5,781	34	34
rigid-G-M6-CS41064-09-08-2004	2.87	2.68	2.56	2.32	2.24	1.97	1.38	1.83	700	6,883	33	33
rigid-G-M6-CS41064-09-08-2004	3.19	3.11	2.95	2.68	2.64	2.32	1.69	1.84	700	7,107	26	26
rigid-G-M6-CS41064-09-08-2004	3.98	3.43	3.11	2.68	2.40	1.89	1.10	1.84	700	1,785	40	40
rigid-G-M6-CS41064-09-08-2004	2.91	2.80	2.64	2.44	2.40	2.13	1.54	1.85	700	8,000	28	28
rigid-G-M6-CS41064-09-08-2004	2.68	2.52	2.36	2.17	2.09	1.81	1.22	1.85	700	6,356	37	37
rigid-G-M6-CS41064-09-08-2004	3.50	3.39	3.23	2.99	2.91	2.64	1.89	1.85	700	7,019	23	23
rigid-G-M6-CS41064-09-08-2004	2.76	2.60	2.48	2.28	2.20	1.97	1.38	1.85	700	7,743	32	32
rigid-G-M6-CS41064-09-08-2004	2.91	2.80	2.64	2.40	2.36	2.05	1.46	1.86	700	6,988	30	30
rigid-G-M6-CS41064-09-08-2004	3.11	2.76	2.56	2.28	2.09	1.73	1.06	1.86	700	3,216	42	42
rigid-G-M6-CS41064-09-08-2004	2.64	2.44	2.36	2.13	2.09	1.81	1.30	1.89	700	7,781	34	34
rigid-G-M6-CS41064-09-08-2004	3.15	3.03	2.87	2.64	2.56	2.32	1.69	1.90	700	7,690	26	26
rigid-G-M6-CS41064-09-08-2004	2.87	2.72	2.56	2.36	2.24	2.01	1.46	1.90	700	7,598	31	31

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-08-2004	4.21	3.62	3.31	2.83	2.56	2.01	1.18	1.91	700	1,770	38	38
rigid-G-M6-CS41064-09-08-2004	3.07	2.99	2.83	2.56	2.48	2.20	1.61	1.91	700	7,239	28	28
rigid-G-M6-CS41064-09-08-2004	3.11	2.95	2.76	2.52	2.40	2.09	1.38	1.92	700	5,036	32	32
rigid-G-M6-CS41064-09-08-2004	2.68	2.60	2.48	2.32	2.20	1.97	1.34	1.93	700	7,304	32	32
rigid-G-M6-CS41064-09-08-2004	2.64	2.48	2.32	2.09	2.01	1.73	1.18	1.93	700	6,050	38	38
rigid-G-M6-CS41064-09-08-2004	3.03	2.83	2.72	2.44	2.32	2.05	1.46	1.93	700	6,373	31	31
rigid-G-M6-CS41064-09-08-2004	3.03	2.87	2.72	2.48	2.44	2.13	1.50	1.93	700	6,645	29	29
rigid-G-M6-CS41064-09-08-2004	2.91	2.76	2.64	2.40	2.32	2.09	1.50	1.95	700	7,766	30	30
rigid-G-M6-CS41064-09-08-2004	2.99	2.83	2.68	2.48	2.40	2.17	1.57	1.95	700	8,000	28	28
rigid-G-M6-CS41064-09-08-2004	2.91	2.64	2.44	2.17	2.05	1.69	1.10	1.96	700	4,130	42	42
rigid-G-M6-CS41064-09-08-2004	2.91	2.64	2.44	2.17	2.05	1.69	1.10	1.96	700	4,095	41	41
rigid-G-M6-CS41064-09-08-2004	3.62	3.31	2.99	2.56	2.36	1.85	1.14	1.96	700	2,283	39	39
rigid-G-M6-CS41064-09-08-2004	2.83	2.60	2.44	2.28	2.20	1.89	1.38	1.98	700	7,277	33	33
rigid-G-M6-CS41064-09-08-2004	3.15	2.87	2.72	2.44	2.28	1.97	1.34	1.98	700	4,766	34	34
rigid-G-M6-CS41064-09-08-2004	2.72	2.64	2.52	2.28	2.24	1.97	1.38	1.98	700	7,578	32	32
rigid-G-M6-CS41064-09-08-2004	3.62	3.15	2.91	2.52	2.28	1.81	1.14	1.98	700	2,431	40	40
rigid-G-M6-CS41064-09-08-2004	4.37	3.78	3.39	2.95	2.68	2.09	1.22	1.98	700	1,678	36	36
rigid-G-M6-CS41064-09-08-2004	3.27	3.15	2.95	2.76	2.68	2.44	1.77	2.00	700	7,876	25	25
rigid-G-M6-CS41064-09-08-2004	3.46	3.27	3.07	2.87	2.72	2.48	1.77	2.00	700	6,613	25	25
rigid-G-M6-CS41064-09-08-2004	2.48	2.28	2.17	1.97	1.93	1.65	1.14	2.01	700	7,179	39	39
rigid-G-M6-CS41064-09-08-2004	2.76	2.60	2.48	2.24	2.20	1.93	1.38	2.01	700	7,547	32	32
rigid-G-M6-CS41064-09-08-2004	3.23	3.03	2.83	2.64	2.52	2.20	1.65	2.01	700	6,860	27	27
rigid-G-M6-CS41064-09-08-2004	2.64	2.48	2.40	2.17	2.13	1.85	1.26	2.02	700	7,076	35	35
rigid-G-M6-CS41064-09-08-2004	3.19	3.07	2.87	2.64	2.56	2.28	1.69	2.02	700	7,328	26	26

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-08-2004	2.28	2.13	2.01	1.85	1.77	1.57	1.06	2.04	700	7,863	41	41
rigid-G-M6-CS41064-09-08-2004	3.11	2.91	2.80	2.60	2.56	2.28	1.61	2.04	700	7,566	27	27
rigid-G-M6-CS41064-09-08-2004	2.80	2.60	2.44	2.24	2.17	1.89	1.30	2.04	700	6,466	34	34
rigid-G-M6-CS41064-09-08-2004	2.87	2.72	2.56	2.32	2.24	1.97	1.42	2.04	700	7,114	32	32
rigid-G-M6-CS41064-09-08-2004	4.61	3.98	3.66	3.15	2.87	2.28	1.38	2.05	700	1,788	33	33
rigid-G-M6-CS41064-09-08-2004	2.44	2.28	2.13	1.97	1.89	1.65	1.10	2.06	700	6,910	40	40
rigid-G-M6-CS41064-09-08-2004	2.36	2.20	2.05	1.89	1.77	1.57	1.10	2.06	700	7,866	42	42
rigid-G-M6-CS41064-09-08-2004	2.87	2.64	2.52	2.32	2.24	1.97	1.46	2.07	700	7,993	31	31
rigid-G-M6-CS41064-09-08-2004	3.03	2.83	2.64	2.36	2.20	1.89	1.30	2.07	700	4,891	35	35
rigid-G-M6-CS41064-09-08-2004	3.54	3.15	2.83	2.48	2.24	1.81	1.10	2.07	700	2,382	40	40
rigid-G-M6-CS41064-09-08-2004	2.68	2.60	2.48	2.32	2.24	1.97	1.34	2.07	700	7,354	32	32
rigid-G-M6-CS41064-09-08-2004	2.09	1.97	1.81	1.65	1.54	1.34	0.87	2.08	700	6,686	51	51
rigid-G-M6-CS41064-09-08-2004	2.40	2.24	2.13	1.89	1.85	1.57	1.10	2.09	700	7,106	41	41
rigid-G-M6-CS41064-09-08-2004	2.87	2.68	2.48	2.28	2.20	1.89	1.26	2.11	700	5,692	36	36
rigid-G-M6-CS41064-09-08-2004	3.07	2.91	2.76	2.48	2.44	2.13	1.50	2.12	700	6,355	29	29
rigid-G-M6-CS41064-09-08-2004	2.32	2.24	2.09	1.85	1.77	1.50	0.98	2.12	700	5,858	45	45
rigid-G-M6-CS41064-09-08-2004	2.60	2.44	2.32	2.05	1.97	1.69	1.10	2.12	700	5,531	41	41
rigid-G-M6-CS41064-09-08-2004	2.28	2.17	2.05	1.85	1.73	1.46	0.91	2.12	700	5,356	48	48
rigid-G-M6-CS41064-09-08-2004	3.03	2.80	2.60	2.36	2.24	1.89	1.34	2.13	700	5,275	34	34
rigid-G-M6-CS41064-09-08-2004	3.07	2.95	2.76	2.52	2.40	2.13	1.42	2.13	700	5,584	31	31
rigid-G-M6-CS41064-09-08-2004	3.46	3.27	3.11	2.83	2.72	2.44	1.81	2.13	700	6,821	25	25
rigid-G-M6-CS41064-09-08-2004	2.68	2.60	2.48	2.28	2.20	1.97	1.34	2.14	700	7,428	32	32
rigid-G-M6-CS41064-09-08-2004	3.07	2.83	2.60	2.36	2.17	1.85	1.26	2.14	700	4,516	37	37
rigid-G-M6-CS41064-09-08-2004	3.23	3.03	2.83	2.60	2.52	2.20	1.61	2.16	700	6,564	28	28

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-08-2004	2.99	2.99	2.76	2.48	2.32	1.97	1.34	2.16	700	4,792	33	33
rigid-G-M6-CS41064-09-08-2004	2.91	2.80	2.64	2.40	2.36	2.09	1.46	2.18	700	7,068	30	30
rigid-G-M6-CS41064-09-08-2004	2.91	2.80	2.64	2.36	2.28	1.97	1.30	2.18	700	5,380	34	34
rigid-G-M6-CS41064-09-08-2004	2.32	2.17	2.05	1.85	1.73	1.50	0.94	2.18	700	5,649	46	46
rigid-G-M6-CS41064-09-08-2004	2.52	2.36	2.20	2.01	1.93	1.65	1.06	2.20	700	5,823	42	42
rigid-G-M6-CS41064-09-08-2004	3.74	3.23	2.95	2.56	2.32	1.85	1.14	2.20	700	2,244	40	40
rigid-G-M6-CS41064-09-08-2004	3.27	3.11	2.95	2.68	2.64	2.36	1.73	2.21	700	7,509	26	26
rigid-G-M6-CS41064-09-08-2004	3.43	2.99	2.80	2.44	2.28	1.81	1.18	2.22	700	2,982	39	39
rigid-G-M6-CS41064-09-08-2004	3.54	3.27	2.95	2.52	2.32	1.85	1.14	2.23	700	2,390	39	39
rigid-G-M6-CS41064-09-08-2004	2.17	2.05	1.93	1.73	1.65	1.46	0.98	2.23	700	7,752	46	46
rigid-G-M6-CS41064-09-08-2004	3.43	3.23	3.03	2.80	2.76	2.44	1.73	2.23	700	6,462	26	26
rigid-G-M6-CS41064-09-08-2004	2.28	2.13	2.05	1.81	1.77	1.54	1.06	2.24	700	7,845	43	43
rigid-G-M6-CS41064-09-08-2004	4.61	3.98	3.66	3.19	2.91	2.32	1.46	2.25	700	1,980	32	32
rigid-G-M6-CS41064-09-08-2004	3.15	3.19	2.95	2.68	2.56	2.20	1.61	2.26	700	6,068	28	28
rigid-G-M6-CS41064-09-08-2004	2.87	2.80	2.60	2.36	2.28	1.93	1.26	2.26	700	5,136	35	35
rigid-G-M6-CS41064-09-08-2004	2.24	2.09	1.97	1.77	1.73	1.50	1.02	2.27	700	7,763	44	44
rigid-G-M6-CS41064-09-08-2004	3.31	3.07	2.91	2.64	2.52	2.24	1.61	2.27	700	6,069	28	28
rigid-G-M6-CS41064-09-08-2004	3.58	3.23	2.95	2.48	2.28	1.81	1.10	2.27	700	2,232	40	40
rigid-G-M6-CS41064-09-08-2004	3.15	3.19	2.95	2.68	2.60	2.20	1.61	2.27	700	6,067	28	28
rigid-G-M6-CS41064-09-08-2004	3.11	2.87	2.68	2.40	2.20	1.85	1.30	2.28	700	4,503	36	36
rigid-G-M6-CS41064-09-08-2004	3.11	2.80	2.60	2.36	2.20	1.89	1.26	2.29	700	4,546	36	36
rigid-G-M6-CS41064-09-08-2004	2.91	2.72	2.52	2.32	2.24	1.97	1.38	2.29	700	6,737	33	33
rigid-G-M6-CS41064-09-08-2004	2.48	2.28	2.13	1.97	1.85	1.61	1.02	2.30	700	5,727	43	43
rigid-G-M6-CS41064-09-08-2004	3.70	3.23	2.95	2.60	2.40	1.93	1.22	2.30	700	2,602	37	37

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-08-2004	5.04	4.41	4.02	3.50	3.19	2.56	1.61	2.31	700	1,813	29	29
rigid-G-M6-CS41064-09-08-2004	3.07	2.99	2.83	2.56	2.52	2.28	1.65	2.31	700	7,911	27	27
rigid-G-M6-CS41064-09-08-2004	3.43	3.07	2.80	2.44	2.20	1.81	1.14	2.31	700	2,712	39	39
rigid-G-M6-CS41064-09-08-2004	2.20	2.05	1.89	1.73	1.65	1.42	0.91	2.32	700	6,428	49	49
rigid-G-M6-CS41064-09-08-2004	3.43	3.27	2.95	2.64	2.44	2.05	1.38	2.33	700	3,702	34	34
rigid-G-M6-CS41064-09-08-2004	2.76	2.60	2.48	2.24	2.20	1.97	1.38	2.35	700	7,844	33	33
rigid-G-M6-CS41064-09-08-2004	3.74	3.66	3.35	2.91	2.68	2.17	1.38	2.36	700	2,714	33	33
rigid-G-M6-CS41064-09-08-2004	2.32	2.20	2.09	1.85	1.77	1.57	1.10	2.37	700	7,740	41	41
rigid-G-M6-CS41064-09-08-2004	2.76	2.60	2.48	2.20	2.13	1.89	1.30	2.37	700	6,547	34	34
rigid-G-M6-CS41064-09-08-2004	5.04	4.69	4.45	4.09	3.86	3.46	2.60	2.38	700	4,591	18	18
rigid-G-M6-CS41064-09-08-2004	2.91	2.72	2.60	2.36	2.32	2.09	1.50	2.39	700	8,000	29	29
rigid-G-M6-CS41064-09-08-2004	4.09	3.50	3.19	2.76	2.48	1.93	1.06	2.39	700	1,605	40	40
rigid-G-M6-CS41064-09-08-2004	2.20	2.09	1.97	1.77	1.73	1.46	0.94	2.40	700	6,536	47	47
rigid-G-M6-CS41064-09-08-2004	3.66	3.23	2.95	2.64	2.44	2.01	1.30	2.43	700	3,066	36	36
rigid-G-M6-CS41064-09-08-2004	2.68	2.56	2.44	2.17	2.13	1.89	1.30	2.44	700	7,059	34	34
rigid-G-M6-CS41064-09-08-2004	3.03	2.87	2.72	2.44	2.44	2.13	1.54	2.44	700	7,160	29	29
rigid-G-M6-CS41064-09-08-2004	2.99	2.99	2.76	2.44	2.32	1.93	1.34	2.44	700	4,759	34	34
rigid-G-M6-CS41064-09-08-2004	2.36	2.20	2.05	1.85	1.77	1.54	1.10	2.45	700	7,664	42	42
rigid-G-M6-CS41064-09-08-2004	2.95	2.80	2.64	2.40	2.36	2.13	1.54	2.47	700	7,878	28	28
rigid-G-M6-CS41064-09-08-2004	3.07	2.80	2.60	2.36	2.17	1.89	1.30	2.47	700	4,932	36	36
rigid-G-M6-CS41064-09-08-2004	3.03	2.80	2.64	2.36	2.24	1.97	1.38	2.48	700	5,698	33	33
rigid-G-M6-CS41064-09-08-2004	5.08	4.37	4.02	3.50	3.23	2.60	1.61	2.48	700	1,827	28	28
rigid-G-M6-CS41064-09-08-2004	2.72	2.60	2.48	2.20	2.20	1.93	1.38	2.50	700	7,802	32	32
rigid-G-M6-CS41064-09-08-2004	3.70	3.15	2.87	2.52	2.28	1.85	1.10	2.55	700	2,294	41	41

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-08-2004	4.96	4.61	4.37	3.98	3.82	3.39	2.56	2.56	700	4,701	18	18
rigid-G-M6-CS41064-09-08-2004	3.07	2.80	2.60	2.24	2.13	1.77	1.14	2.57	700	3,749	40	40
rigid-G-M6-CS41064-09-08-2004	3.70	3.66	3.35	2.91	2.68	2.17	1.38	2.58	700	2,759	33	33
rigid-G-M6-CS41064-09-08-2004	4.57	3.98	3.62	3.15	2.87	2.32	1.46	2.60	700	2,030	32	32
rigid-G-M6-CS41064-09-08-2004	3.74	3.27	3.03	2.60	2.40	1.97	1.22	2.61	700	2,508	37	37
rigid-G-M6-CS41064-09-08-2004	3.15	3.15	2.95	2.60	2.52	2.20	1.57	2.62	700	5,835	28	28
rigid-G-M6-CS41064-09-08-2004	2.87	2.87	2.68	2.36	2.17	1.77	1.14	2.63	700	3,871	39	39
rigid-G-M6-CS41064-09-08-2004	3.35	3.31	2.99	2.64	2.52	2.09	1.42	2.63	700	3,985	32	32
rigid-G-M6-CS41064-09-08-2004	5.16	4.49	4.09	3.54	3.23	2.64	1.61	2.63	700	1,716	28	28
rigid-G-M6-CS41064-09-08-2004	4.02	3.74	3.46	3.19	2.95	2.64	1.89	2.66	700	4,702	25	25
rigid-G-M6-CS41064-09-08-2004	3.03	3.03	2.76	2.44	2.32	1.97	1.34	2.67	700	4,678	34	34
rigid-G-M6-CS41064-09-08-2004	3.94	4.06	3.74	3.39	3.19	2.80	1.97	2.67	700	4,586	23	23
rigid-G-M6-CS41064-09-08-2004	1.93	1.81	1.65	1.50	1.42	1.18	0.71	2.67	700	5,779	62	62
rigid-G-M6-CS41064-09-08-2004	3.82	3.43	3.15	2.80	2.60	2.17	1.46	2.67	700	3,212	32	32
rigid-G-M6-CS41064-09-08-2004	4.72	4.88	4.57	4.13	3.94	3.50	2.64	2.68	700	4,887	17	17
rigid-G-M6-CS41064-09-08-2004	2.95	2.72	2.60	2.32	2.24	2.01	1.42	2.69	700	6,767	32	32
rigid-G-M6-CS41064-09-08-2004	3.03	3.11	2.91	2.60	2.44	2.09	1.50	2.69	700	5,666	30	30
rigid-G-M6-CS41064-09-08-2004	4.69	4.06	3.66	3.15	2.87	2.32	1.38	2.70	700	1,721	32	32
rigid-G-M6-CS41064-09-08-2004	3.03	2.99	2.80	2.44	2.28	1.89	1.18	2.71	700	3,678	38	38
rigid-G-M6-CS41064-09-08-2004	4.37	3.90	3.58	3.15	2.95	2.44	1.61	2.72	700	2,673	29	29
rigid-G-M6-CS41064-09-08-2004	4.61	3.98	3.62	3.11	2.87	2.28	1.42	2.72	700	1,875	32	32
rigid-G-M6-CS41064-09-08-2004	4.06	3.74	3.46	3.15	2.99	2.64	1.85	2.72	700	4,459	25	25
rigid-G-M6-CS41064-09-08-2004	3.11	2.80	2.60	2.24	2.17	1.77	1.14	2.74	700	3,696	40	40
rigid-G-M6-CS41064-09-08-2004	3.07	2.99	2.80	2.40	2.28	1.89	1.18	2.75	700	3,610	38	38

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-09-08-2004	2.83	2.83	2.64	2.32	2.13	1.73	1.10	2.75	700	3,772	41	41
rigid-G-M6-CS41064-09-08-2004	2.99	2.99	2.87	2.60	2.36	2.01	1.30	2.77	700	4,499	35	35
rigid-G-M6-CS41064-09-08-2004	2.95	2.99	2.68	2.40	2.28	1.89	1.30	2.78	700	4,731	35	35
rigid-G-M6-CS41064-09-08-2004	3.19	2.91	2.72	2.48	2.36	2.05	1.50	2.78	700	6,005	31	31
rigid-G-M6-CS41064-09-08-2004	3.50	3.07	2.83	2.48	2.28	1.81	1.22	2.80	700	2,945	38	38
rigid-G-M6-CS41064-09-08-2004	3.54	3.11	2.87	2.48	2.32	1.89	1.22	2.80	700	2,904	37	37
rigid-G-M6-CS41064-09-08-2004	3.39	2.95	2.76	2.36	2.20	1.81	1.14	2.81	700	2,968	40	40
rigid-G-M6-CS41064-09-08-2004	2.99	3.11	2.87	2.60	2.44	2.09	1.50	2.81	700	5,853	30	30
rigid-G-M6-CS41064-09-08-2004	3.86	3.43	3.19	2.80	2.60	2.17	1.46	2.83	700	3,144	32	32
rigid-G-M6-CS41064-09-08-2004	3.70	3.70	3.35	2.91	2.72	2.20	1.42	2.83	700	2,884	32	32
rigid-G-M6-CS41064-09-08-2004	3.86	4.02	3.74	3.39	3.19	2.76	1.93	2.84	700	4,509	23	23
rigid-G-M6-CS41064-09-08-2004	3.11	2.80	2.56	2.28	2.17	1.81	1.22	2.86	700	4,249	38	38
rigid-G-M6-CS41064-09-08-2004	2.95	3.07	2.83	2.56	2.40	2.09	1.46	2.89	700	5,793	31	31
rigid-G-M6-CS41064-09-08-2004	3.39	2.99	2.76	2.40	2.20	1.85	1.18	2.89	700	3,185	40	40
rigid-G-M6-CS41064-09-08-2004	2.80	2.83	2.64	2.32	2.13	1.77	1.14	2.89	700	4,109	39	39
rigid-G-M6-CS41064-09-08-2004	3.03	3.03	2.91	2.64	2.44	2.01	1.30	2.93	700	4,312	35	35
rigid-G-M6-CS41064-09-08-2004	2.95	2.80	2.64	2.36	2.28	1.97	1.22	2.94	700	4,622	36	36
rigid-G-M6-CS41064-09-08-2004	4.57	3.98	3.62	3.11	2.87	2.32	1.46	2.95	700	2,032	32	32
rigid-G-M6-CS41064-09-08-2004	2.56	2.44	2.28	2.20	2.13	1.81	1.18	2.97	700	6,787	37	37
rigid-G-M6-CS41064-09-08-2004	3.98	3.82	3.46	2.99	2.68	2.05	1.18	2.97	700	1,755	36	36
rigid-G-M6-CS41064-09-08-2004	3.03	2.99	2.80	2.40	2.28	1.89	1.18	2.97	700	3,719	38	38
rigid-G-M6-CS41064-09-08-2004	3.31	3.31	3.03	2.60	2.40	1.93	1.26	2.99	700	3,116	36	36
rigid-G-M6-CS41064-11-15-2001	18.98	17.56	16.81	15.63	14.49	12.05	8.31	0.35	700	1,898	12	12
rigid-G-M6-CS41064-11-15-2001	15.31	14.09	13.58	12.60	11.65	9.69	6.69	0.44	700	1,835	12	12

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-11-15-2001	6.18	5.55	5.24	4.76	4.29	3.46	2.20	0.45	700	1,831	21	21
rigid-G-M6-CS41064-11-15-2001	6.02	5.43	5.04	4.57	4.09	3.31	2.09	0.73	700	1,798	22	22
rigid-G-M6-CS41064-11-15-2001	6.10	5.51	5.16	4.69	4.17	3.39	2.09	0.76	700	1,732	22	22
rigid-G-M6-CS41064-11-15-2001	4.69	4.17	3.90	3.50	3.19	2.52	1.57	0.76	700	2,195	29	29
rigid-G-M6-CS41064-11-15-2001	8.39	7.56	6.97	6.14	5.43	4.29	2.60	0.79	700	1,064	17	17
rigid-G-M6-CS41064-11-15-2001	11.89	10.67	10.12	9.17	8.31	6.61	4.09	0.82	700	1,563	19	19
rigid-G-M6-CS41064-11-15-2001	8.15	7.60	7.13	6.61	6.06	5.08	3.31	0.83	700	1,709	14	14
rigid-G-M6-CS41064-11-15-2001	6.61	6.02	5.59	5.08	4.61	3.70	2.28	0.86	700	1,621	20	20
rigid-G-M6-CS41064-11-15-2001	14.84	13.39	12.64	11.54	10.43	8.35	5.16	0.89	700	1,616	19	19
rigid-G-M6-CS41064-11-15-2001	8.43	7.60	7.01	6.18	5.43	4.29	2.64	0.92	700	1,068	17	17
rigid-G-M6-CS41064-11-15-2001	5.71	5.12	4.80	4.37	3.90	3.19	1.97	0.92	700	1,900	23	23
rigid-G-M6-CS41064-11-15-2001	3.31	3.11	2.99	2.80	2.60	2.28	1.57	0.93	700	5,856	29	29
rigid-G-M6-CS41064-11-15-2001	3.31	3.11	2.99	2.80	2.60	2.28	1.57	0.93	700	5,918	29	29
rigid-G-M6-CS41064-11-15-2001	7.32	6.77	6.34	5.91	5.43	4.57	2.99	0.95	700	1,975	15	15
rigid-G-M6-CS41064-11-15-2001	5.75	5.12	4.80	4.37	3.90	3.19	2.01	0.96	700	1,939	23	23
rigid-G-M6-CS41064-11-15-2001	6.06	5.47	5.08	4.69	4.17	3.39	2.09	0.96	700	1,773	22	22
rigid-G-M6-CS41064-11-15-2001	6.06	5.47	5.08	4.69	4.21	3.43	2.13	0.98	700	1,840	21	21
rigid-G-M6-CS41064-11-15-2001	6.14	5.55	5.16	4.76	4.29	3.54	2.24	1.01	700	1,949	20	20
rigid-G-M6-CS41064-11-15-2001	6.46	5.87	5.47	5.08	4.53	3.78	2.44	1.02	700	1,947	19	19
rigid-G-M6-CS41064-11-15-2001	7.05	6.42	6.06	5.63	5.12	4.33	2.91	1.02	700	2,123	16	16
rigid-G-M6-CS41064-11-15-2001	6.10	5.55	5.16	4.76	4.25	3.54	2.28	1.03	700	2,029	20	20
rigid-G-M6-CS41064-11-15-2001	5.71	5.12	4.80	4.41	4.02	3.31	2.13	1.05	700	2,199	21	21
rigid-G-M6-CS41064-11-15-2001	8.46	7.60	7.01	6.14	5.43	4.25	2.64	1.05	700	1,056	17	17
rigid-G-M6-CS41064-11-15-2001	6.69	6.02	5.67	5.12	4.65	3.74	2.28	1.06	700	1,600	20	20

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-11-15-2001	4.69	4.17	3.86	3.50	3.19	2.52	1.54	1.08	700	2,133	29	29
rigid-G-M6-CS41064-11-15-2001	3.98	3.62	3.35	3.07	2.76	2.28	1.42	1.10	700	1,780	20	20
rigid-G-M6-CS41064-11-15-2001	8.82	8.15	7.68	7.20	6.65	5.71	3.82	1.11	700	1,862	12	12
rigid-G-M6-CS41064-11-15-2001	7.28	6.73	6.34	5.91	5.39	4.57	2.95	1.12	700	1,951	15	15
rigid-G-M6-CS41064-11-15-2001	7.24	6.69	6.30	5.87	5.39	4.65	3.15	1.13	700	2,275	14	14
rigid-G-M6-CS41064-11-15-2001	6.69	6.06	5.67	5.08	4.53	3.50	2.09	1.14	700	1,308	21	21
rigid-G-M6-CS41064-11-15-2001	6.50	5.83	5.43	4.84	4.33	3.35	1.97	1.16	700	1,307	22	22
rigid-G-M6-CS41064-11-15-2001	6.61	5.94	5.63	5.08	4.57	3.70	2.24	1.16	700	1,579	20	20
rigid-G-M6-CS41064-11-15-2001	6.10	5.43	5.08	4.69	4.17	3.43	2.13	1.17	700	1,836	21	21
rigid-G-M6-CS41064-11-15-2001	5.87	5.28	4.92	4.57	4.13	3.43	2.20	1.17	700	2,167	21	21
rigid-G-M6-CS41064-11-15-2001	3.70	3.46	3.35	3.11	2.87	2.44	1.61	1.19	700	4,286	28	28
rigid-G-M6-CS41064-11-15-2001	5.75	5.12	4.80	4.37	3.90	3.23	2.01	1.23	700	1,962	23	23
rigid-G-M6-CS41064-11-15-2001	6.38	5.75	5.35	4.96	4.49	3.74	2.44	1.24	700	2,072	19	19
rigid-G-M6-CS41064-11-15-2001	3.66	3.43	3.31	3.07	2.83	2.44	1.61	1.24	700	4,540	28	28
rigid-G-M6-CS41064-11-15-2001	6.50	5.71	5.20	4.69	4.17	3.31	2.01	1.25	700	1,420	22	22
rigid-G-M6-CS41064-11-15-2001	3.31	3.11	3.03	2.80	2.60	2.28	1.54	1.26	700	5,626	30	30
rigid-G-M6-CS41064-11-15-2001	5.71	5.08	4.76	4.41	4.02	3.31	2.13	1.28	700	2,235	21	21
rigid-G-M6-CS41064-11-15-2001	4.57	4.06	3.74	3.43	3.03	2.48	1.54	1.30	700	2,318	30	30
rigid-G-M6-CS41064-11-15-2001	5.20	4.61	4.25	3.86	3.46	2.80	1.77	1.30	700	2,069	26	26
rigid-G-M6-CS41064-11-15-2001	5.20	4.61	4.25	3.86	3.46	2.80	1.77	1.30	700	2,079	26	26
rigid-G-M6-CS41064-11-15-2001	6.46	5.83	5.43	4.88	4.33	3.35	1.97	1.31	700	1,327	22	22
rigid-G-M6-CS41064-11-15-2001	4.65	4.06	3.78	3.43	3.07	2.48	1.54	1.34	700	2,243	29	29
rigid-G-M6-CS41064-11-15-2001	5.12	4.53	4.21	3.82	3.43	2.72	1.61	1.34	700	1,827	27	27
rigid-G-M6-CS41064-11-15-2001	5.83	5.24	4.88	4.57	4.09	3.43	2.20	1.35	700	2,209	21	21

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-11-15-2001	6.54	5.87	5.43	4.88	4.33	3.39	1.97	1.37	700	1,309	22	22
rigid-G-M6-CS41064-11-15-2001	5.87	5.24	4.92	4.53	4.09	3.43	2.20	1.37	700	2,194	21	21
rigid-G-M6-CS41064-11-15-2001	6.65	6.02	5.63	5.12	4.61	3.78	2.28	1.37	700	1,627	20	20
rigid-G-M6-CS41064-11-15-2001	3.62	3.43	3.31	3.07	2.83	2.44	1.61	1.38	700	4,597	28	28
rigid-G-M6-CS41064-11-15-2001	4.80	4.17	3.86	3.54	3.15	2.52	1.54	1.39	700	2,063	29	29
rigid-G-M6-CS41064-11-15-2001	6.54	5.67	5.20	4.69	4.17	3.31	2.01	1.40	700	1,416	22	22
rigid-G-M6-CS41064-11-15-2001	7.32	6.77	6.34	5.91	5.39	4.61	2.95	1.40	700	1,939	15	15
rigid-G-M6-CS41064-11-15-2001	4.96	4.41	4.09	3.74	3.35	2.76	1.69	1.41	700	2,176	27	27
rigid-G-M6-CS41064-11-15-2001	4.25	3.70	3.46	3.15	2.83	2.28	1.38	1.45	700	2,397	33	33
rigid-G-M6-CS41064-11-15-2001	5.75	5.12	4.76	4.41	3.98	3.31	2.13	1.47	700	2,183	21	21
rigid-G-M6-CS41064-11-15-2001	4.25	3.70	3.46	3.15	2.80	2.28	1.38	1.49	700	2,396	33	33
rigid-G-M6-CS41064-11-15-2001	4.80	4.21	3.86	3.54	3.15	2.52	1.50	1.49	700	1,960	29	29
rigid-G-M6-CS41064-11-15-2001	5.12	4.49	4.17	3.82	3.39	2.72	1.61	1.50	700	1,857	27	27
rigid-G-M6-CS41064-11-15-2001	6.85	6.10	5.63	5.08	4.45	3.43	1.97	1.50	700	1,163	22	22
rigid-G-M6-CS41064-11-15-2001	4.69	4.17	3.90	3.58	3.27	2.68	1.65	1.51	700	2,453	27	27
rigid-G-M6-CS41064-11-15-2001	6.57	5.71	5.24	4.69	4.17	3.31	2.05	1.51	700	1,434	22	22
rigid-G-M6-CS41064-11-15-2001	6.81	6.06	5.63	5.04	4.45	3.43	1.97	1.51	700	1,174	22	22
rigid-G-M6-CS41064-11-15-2001	4.84	4.21	3.86	3.54	3.19	2.52	1.54	1.52	700	2,008	29	29
rigid-G-M6-CS41064-11-15-2001	4.84	4.29	3.94	3.58	3.19	2.56	1.50	1.53	700	1,921	30	30
rigid-G-M6-CS41064-11-15-2001	4.80	4.21	3.98	3.58	3.19	2.56	1.50	1.56	700	1,961	30	30
rigid-G-M6-CS41064-11-15-2001	4.76	4.33	4.06	3.78	3.46	2.99	1.97	1.58	700	3,229	23	23
rigid-G-M6-CS41064-11-15-2001	4.61	4.06	3.74	3.39	3.03	2.48	1.54	1.58	700	2,299	30	30
rigid-G-M6-CS41064-11-15-2001	4.84	4.25	3.94	3.54	3.19	2.56	1.50	1.63	700	1,930	30	30
rigid-G-M6-CS41064-11-15-2001	5.63	5.00	4.65	4.13	3.66	2.83	1.61	1.63	700	1,407	27	27

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-11-15-2001	4.65	4.17	3.90	3.54	3.15	2.60	1.54	1.64	700	2,193	29	29
rigid-G-M6-CS41064-11-15-2001	5.63	5.00	4.61	4.13	3.66	2.83	1.61	1.65	700	1,405	27	27
rigid-G-M6-CS41064-11-15-2001	4.65	4.13	3.86	3.58	3.27	2.68	1.65	1.67	700	2,521	27	27
rigid-G-M6-CS41064-11-15-2001	4.80	4.33	4.06	3.82	3.46	2.99	1.97	1.68	700	3,184	23	23
rigid-G-M6-CS41064-11-15-2001	4.96	4.45	4.06	3.74	3.39	2.80	1.73	1.69	700	2,272	26	26
rigid-G-M6-CS41064-11-15-2001	5.63	4.96	4.61	4.13	3.66	2.83	1.61	1.70	700	1,421	27	27
rigid-G-M6-CS41064-11-15-2001	5.43	4.84	4.53	4.06	3.58	2.87	1.65	1.70	700	1,622	26	26
rigid-G-M6-CS41064-11-15-2001	5.20	4.57	4.21	3.82	3.43	2.80	1.77	1.71	700	2,104	26	26
rigid-G-M6-CS41064-11-15-2001	4.96	4.37	4.09	3.74	3.35	2.76	1.65	1.74	700	2,108	27	27
rigid-G-M6-CS41064-11-15-2001	4.06	3.54	3.23	2.83	2.48	1.85	1.02	1.76	700	1,637	42	42
rigid-G-M6-CS41064-11-15-2001	4.69	4.13	3.86	3.58	3.23	2.68	1.65	1.76	700	2,495	27	27
rigid-G-M6-CS41064-11-15-2001	4.84	4.33	4.06	3.82	3.46	2.91	2.01	1.78	700	3,186	23	23
rigid-G-M6-CS41064-11-15-2001	5.43	5.12	4.69	4.49	4.06	3.58	2.44	1.79	700	1,938	11	11
rigid-G-M6-CS41064-11-15-2001	4.72	4.21	3.94	3.58	3.19	2.52	1.46	1.80	700	1,899	30	30
rigid-G-M6-CS41064-11-15-2001	5.12	4.53	4.21	3.86	3.39	2.72	1.57	1.83	700	1,750	28	28
rigid-G-M6-CS41064-11-15-2001	5.43	4.88	4.57	4.09	3.66	2.87	1.65	1.85	700	1,594	26	26
rigid-G-M6-CS41064-11-15-2001	6.69	6.06	5.71	5.12	4.53	3.54	2.05	1.86	700	1,282	21	21
rigid-G-M6-CS41064-11-15-2001	4.72	4.25	3.94	3.62	3.19	2.52	1.46	1.86	700	1,873	30	30
rigid-G-M6-CS41064-11-15-2001	4.96	4.53	4.21	3.82	3.43	2.76	1.61	1.88	700	1,931	27	27
rigid-G-M6-CS41064-11-15-2001	4.25	3.70	3.46	3.15	2.83	2.32	1.38	1.88	700	2,424	32	32
rigid-G-M6-CS41064-11-15-2001	4.13	3.54	3.31	2.87	2.52	1.93	1.06	1.90	700	1,699	41	41
rigid-G-M6-CS41064-11-15-2001	5.00	4.49	4.17	3.82	3.39	2.72	1.57	1.98	700	1,852	28	28
rigid-G-M6-CS41064-11-15-2001	6.85	6.14	5.63	5.04	4.45	3.46	1.93	2.11	700	1,119	22	22
rigid-G-M6-CS41064-11-15-2001	4.80	4.25	3.98	3.58	3.23	2.56	1.46	2.12	700	1,863	30	30

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-M6-CS41064-11-15-2001	6.69	6.06	5.67	5.08	4.53	3.54	2.01	2.23	700	1,250	21	21
rigid-G-M6-CS41064-11-15-2001	4.96	4.49	4.21	3.78	3.43	2.80	1.61	2.29	700	1,967	27	27
rigid-G-M6-CS41064-11-15-2001	5.39	4.84	4.53	4.09	3.58	2.87	1.61	2.36	700	1,569	27	27
rigid-G-M6-CS41064-11-15-2001	4.09	3.54	3.27	2.87	2.48	1.93	1.02	2.75	700	1,639	41	41
rigid-G-M6-CS41064-11-15-2001	7.52	6.73	6.26	5.59	4.88	3.66	2.01	2.83	700	939	21	21
rigid-G-M6-CS41064-11-15-2001	7.52	6.77	6.26	5.55	4.88	3.70	2.01	2.89	700	927	21	21
rigid-G-M6-CS41064-11-15-2001	5.71	5.12	4.76	4.25	3.78	2.87	1.57	2.93	700	1,296	27	27
rigid-G-M6-CS41064-11-15-2001	7.52	6.77	6.26	5.59	4.88	3.70	2.01	2.96	700	927	21	21
rigid-G-US131-CS59012-04-09-1998	9.45	7.68	6.65	5.59	4.61	3.15	1.73	0.62	700	1,672	52	26
rigid-G-US131-CS59012-04-09-1998	9.33	7.56	6.57	5.59	4.57	3.11	1.65	0.86	700	1,221	28	27
rigid-G-US131-CS59012-04-09-1998	9.57	7.76	6.65	5.63	4.61	3.15	1.73	0.90	700	1,756	49	27
rigid-G-US131-CS59012-04-09-1998	8.27	7.05	6.26	5.39	4.41	3.03	1.61	0.93	700	1,527	45	28
rigid-G-US131-CS59012-04-09-1998	8.27	7.05	6.22	5.31	4.41	2.99	1.61	0.97	700	921	20	14
rigid-G-US131-CS59012-04-09-1998	8.35	7.05	6.26	5.39	4.41	2.99	1.57	0.97	700	1,196	27	27
rigid-G-US131-CS59012-04-09-1998	10.31	8.27	7.24	6.10	4.92	3.23	1.69	1.07	700	904	20	14
rigid-G-US131-CS59012-04-09-1998	10.24	8.19	7.17	6.10	4.84	3.23	1.65	1.16	700	1,519	46	28
rigid-G-US131-CS59012-04-09-1998	7.91	6.54	5.71	4.72	3.82	2.52	1.38	1.35	700	1,406	28	13
rigid-G-US131-CS59012-04-09-1998	7.83	6.50	5.71	4.72	3.82	2.52	1.38	1.45	700	989	32	17
rigid-G-US131-CS59012-04-09-1998	7.72	6.46	5.71	4.76	3.82	2.48	1.30	1.58	700	2,409	24	26
rigid-G-US131-CS59012-04-09-1998	7.64	6.42	5.63	4.76	3.82	2.48	1.30	1.63	700	1,173	19	22
rigid-G-US131-CS59012-04-09-1998	7.76	6.50	5.71	4.76	3.86	2.52	1.38	1.74	700	938	20	14
rigid-G-US131-CS59012-04-09-1998	7.64	6.42	5.67	4.72	3.82	2.48	1.34	1.81	700	1,378	33	22
rigid-G-US131-CS41131-07-11-1996-(2	6.12	5.37	4.99	4.38	3.90	3.06	2.00	2.58	700	2,232	24	24
rigid-G-US27-CS19033-06-15-1998	8.35	7.68	7.20	6.77	6.18	5.04	3.27	0.66	400	1,607	15	10

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-G-US27-CS19033-06-15-1998	8.31	7.60	7.13	6.69	6.06	5.00	3.23	0.71	400	1,535	18	10
rigid-G-US27-CS19033-06-15-1998	5.51	4.76	4.45	4.02	3.54	2.80	1.73	0.75	400	1,376	44	18
rigid-G-US27-CS19033-06-15-1998	4.37	3.94	3.66	3.35	3.03	2.32	1.38	0.79	400	2,409	24	26
rigid-G-US27-CS19033-06-15-1998	8.27	7.44	7.09	6.61	5.98	4.92	3.15	0.82	400	1,512	17	10
rigid-G-US27-CS19033-06-15-1998	4.49	3.82	3.50	3.15	2.72	2.05	1.18	0.85	400	1,510	44	29
rigid-G-US27-CS19033-06-15-1998	4.29	3.70	3.39	3.07	2.72	2.09	1.26	0.88	400	1,672	52	26
rigid-G-US27-CS19033-06-15-1998	5.55	4.72	4.29	3.82	3.31	2.40	1.30	0.88	400	1,221	28	27
rigid-G-US27-CS19033-06-15-1998	4.17	3.62	3.35	3.03	2.60	2.05	1.22	0.93	400	1,756	49	27
rigid-G-US27-CS19033-06-15-1998	7.01	6.22	5.79	5.39	4.84	3.86	2.44	0.96	400	1,406	28	13
rigid-G-US27-CS19033-06-15-1998	6.77	5.87	5.35	4.84	4.21	3.23	1.89	0.97	400	989	32	17
rigid-G-US27-CS19033-06-15-1998	8.27	7.20	6.54	5.98	5.24	4.02	2.32	1.07	400	938	20	14
rigid-G-US27-CS19033-06-15-1998	8.39	7.28	6.61	6.06	5.28	4.06	2.32	1.14	400	921	20	14
rigid-G-US27-CS19033-06-15-1998	8.46	7.28	6.65	6.06	5.31	4.06	2.32	1.15	400	904	20	14
rigid-G-US27-CS19033-06-15-1998	6.65	5.71	5.20	4.72	4.09	3.07	1.65	1.25	400	1,173	19	22
rigid-G-US27-CS19033-06-15-1998	5.63	4.80	4.41	4.02	3.54	2.72	1.57	1.31	400	1,378	33	22
rigid-G-US27-CS19033-06-15-1998	4.49	3.86	3.50	3.19	2.80	2.05	1.22	1.35	400	1,527	45	28
rigid-G-US27-CS19033-06-15-1998	5.71	4.84	4.33	3.94	3.35	2.44	1.30	1.37	400	1,196	27	27
rigid-G-US27-CS19033-06-15-1998	4.49	3.86	3.50	3.23	2.76	2.05	1.22	1.45	400	1,519	46	28
rigid-M-I69-CS77023-07-02-1997	10.82	9.65	9.10	8.21	7.40	5.85	3.58	0.26	200	1,994	64	16
rigid-M-I69-CS77023-07-02-1997	7.84	7.04	6.64	5.97	5.33	4.27	2.64	0.36	200	1,923	70	15
rigid-M-I69-CS77023-07-02-1997	10.89	9.67	9.15	8.23	7.42	5.85	3.62	0.42	200	1,890	70	15
rigid-M-I69-CS77023-07-02-1997	6.57	6.09	5.81	5.37	4.86	3.98	2.58	0.45	200	3,333	62	15
rigid-M-I69-CS77023-07-02-1997	7.92	7.06	6.67	6.02	5.36	4.28	2.65	0.52	200	1,863	70	15
rigid-M-I69-CS77023-07-02-1997	11.10	9.77	9.26	8.37	7.52	5.94	3.63	0.52	200	1,873	65	15

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-M-I69-CS77023-07-02-1997	17.14	14.94	13.86	12.31	10.79	8.28	4.49	0.54	200	781	20	10
rigid-M-I69-CS77023-07-02-1997	6.72	6.19	5.94	5.45	4.94	4.04	2.60	0.54	200	3,139	60	16
rigid-M-I69-CS77023-07-02-1997	6.53	6.02	5.83	5.32	4.85	3.98	2.57	0.55	200	3,510	58	16
rigid-M-I69-CS77023-07-02-1997	17.03	14.80	13.81	12.26	10.71	8.22	4.46	0.57	200	789	20	10
rigid-M-I69-CS77023-07-02-1997	20.93	18.17	17.12	15.00	13.42	10.08	5.58	0.70	200	851	22	10
rigid-M-I69-CS77023-07-02-1997	20.86	18.15	17.12	14.92	13.39	10.04	5.54	0.76	200	859	22	10
rigid-M-I69-CS77023-07-02-1997	17.10	14.80	13.88	12.28	10.74	8.21	4.45	0.80	200	777	19	10
rigid-M-I69-CS77023-07-02-1997	20.91	18.17	17.18	14.97	13.47	10.07	5.61	0.85	200	855	22	10
rigid-M-I75-CS82194-09-16-2008	3.55	3.10	2.97	2.84	2.64	2.30	1.60	1.79	700	2,652	85	22
rigid-M-I75-CS82194-09-16-208	4.32	3.95	3.83	3.69	3.53	3.20	2.43	1.28	700	3,477	84	13
rigid-M-I94-CS82021-11-19-2006	4.57	4.13	3.95	3.64	3.29	2.76	1.82	0.70	700	2,860	46	22
rigid-M-I94-CS82021-11-19-2006	7.05	6.57	6.42	5.94	5.42	4.57	3.16	0.74	700	2,481	19	13
rigid-M-I94-CS82021-11-19-2006	4.60	4.16	3.97	3.69	3.31	2.77	1.82	0.76	700	2,883	41	22
rigid-M-I94-CS82021-11-19-2006	7.06	6.49	6.39	5.91	5.40	4.56	3.12	0.86	700	2,525	17	13
rigid-M-I94-CS82021-11-19-2006	7.06	6.51	6.41	5.91	5.39	4.56	3.14	0.89	700	2,446	20	13
rigid-M-I94-CS82021-11-19-2006	4.60	4.12	3.99	3.66	3.29	2.75	1.80	0.94	700	2,850	42	23
rigid-M-I94-CS82021-11-19-2006	3.21	2.75	2.63	2.41	2.19	1.81	1.20	1.41	700	2,837	120	32
rigid-M-I94-CS82021-11-19-2006	7.23	6.30	6.17	5.77	5.30	4.55	3.21	1.59	700	1,618	65	11
rigid-M-I94-CS82021-11-19-2006	7.24	6.28	6.15	5.76	5.29	4.54	3.24	1.61	700	1,559	72	11
rigid-M-I94-CS82021-11-19-2006	7.63	6.41	6.20	5.59	4.98	4.00	2.55	1.62	700	1,095	40	15
rigid-M-I94-CS82021-11-19-2006	11.81	10.22	9.80	9.05	8.24	6.84	4.42	1.62	700	946	23	9
rigid-M-I94-CS82021-11-19-2006	10.57	9.10	8.78	8.05	7.36	6.08	3.95	1.64	700	1,024	26	10
rigid-M-I94-CS82021-11-19-2006	3.22	2.73	2.63	2.41	2.18	1.83	1.22	1.69	700	2,733	135	31
rigid-M-I94-CS82021-11-19-2006	10.65	9.20	8.81	8.13	7.42	6.15	3.95	1.71	700	1,054	24	10

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-M-I94-CS82021-11-19-2006	10.78	9.15	8.70	7.90	7.09	5.62	3.36	1.71	700	922	16	12
rigid-M-I94-CS82021-11-19-2006	7.66	6.43	6.20	5.59	5.03	4.08	2.60	1.72	700	1,116	42	15
rigid-M-I94-CS82021-11-19-2006	7.66	6.44	6.20	5.61	5.02	4.08	2.58	1.73	700	1,126	39	15
rigid-M-I94-CS82021-11-19-2006	10.72	9.25	8.84	8.17	7.45	6.15	3.93	1.73	700	1,051	22	10
rigid-M-I94-CS82021-11-19-2006	7.43	6.15	5.77	5.20	4.64	3.61	2.19	1.74	700	1,026	36	18
rigid-M-I94-CS82021-11-19-2006	7.25	6.30	6.19	5.84	5.30	4.55	3.22	1.74	700	1,675	63	11
rigid-M-I94-CS82021-11-19-2006	10.82	9.18	8.84	8.03	7.13	5.69	3.40	1.75	700	957	15	12
rigid-M-I94-CS82021-11-19-2006	10.86	9.22	8.85	8.05	7.18	5.72	3.40	1.78	700	971	14	12
rigid-M-I94-CS82021-11-19-2006	11.94	10.28	9.86	9.12	8.31	6.92	4.47	1.79	700	936	23	9
rigid-M-I94-CS82021-11-19-2006	6.61	5.50	5.29	4.82	4.37	3.63	2.43	1.79	700	1,145	74	15
rigid-M-I94-CS82021-11-19-2006	7.68	6.51	6.09	5.59	4.99	4.01	2.43	1.81	700	1,196	30	16
rigid-M-I94-CS82021-11-19-2006	3.15	2.69	2.57	2.39	2.14	1.81	1.19	1.82	700	2,924	128	32
rigid-M-I94-CS82021-11-19-2006	11.95	10.24	9.80	9.07	8.29	6.88	4.48	1.82	700	873	26	9
rigid-M-I94-CS82021-11-19-2006	6.76	5.60	5.25	4.74	4.21	3.35	2.03	1.84	700	1,116	43	19
rigid-M-I94-CS82021-11-19-2006	10.89	9.20	8.82	8.01	7.16	5.68	3.38	1.84	700	945	15	12
rigid-M-I94-CS82021-11-19-2006	7.15	5.95	5.59	5.08	4.49	3.61	2.20	1.85	700	1,104	41	18
rigid-M-I94-CS82021-11-19-2006	6.69	5.62	5.31	4.98	4.46	3.65	2.43	1.86	700	1,231	63	16
rigid-M-I94-CS82021-11-19-2006	7.33	6.09	5.72	5.13	4.55	3.59	2.11	1.87	700	1,075	32	19
rigid-M-I94-CS82021-11-19-2006	11.72	10.02	9.65	8.84	8.00	6.48	3.95	1.89	700	1,015	12	11
rigid-M-I94-CS82021-11-19-2006	7.68	6.44	6.04	5.50	4.85	3.88	2.30	1.89	700	1,128	29	17
rigid-M-I94-CS82021-11-19-2006	3.35	2.85	2.71	2.53	2.29	1.96	1.32	1.90	700	2,576	150	28
rigid-M-I94-CS82021-11-19-2006	7.65	6.42	6.05	5.44	4.84	3.85	2.24	1.92	700	1,157	25	18
rigid-M-I94-CS82021-11-19-2006	7.62	6.49	6.04	5.55	4.95	4.02	2.41	1.94	700	1,239	28	17
rigid-M-I94-CS82021-11-19-2006	11.75	10.02	9.63	8.88	7.98	6.46	3.93	1.94	700	989	13	11

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-M-I94-CS82021-11-19-2006	4.96	3.96	3.74	3.18	2.90	2.16	1.33	1.95	700	1,111	71	29
rigid-M-I94-CS82021-11-19-2006	8.33	6.99	6.70	6.14	5.43	4.35	2.64	1.96	700	1,147	25	15
rigid-M-I94-CS82021-11-19-2006	6.76	5.59	5.25	4.78	4.20	3.33	1.99	1.98	700	1,165	38	20
rigid-M-I94-CS82021-11-19-2006	7.44	6.16	5.72	5.23	4.62	3.63	2.17	1.98	700	1,033	35	18
rigid-M-I94-CS82021-11-19-2006	10.87	9.16	8.70	7.90	7.10	5.69	3.40	1.98	700	898	18	12
rigid-M-I94-CS82021-11-19-2006	6.84	5.67	5.34	4.94	4.44	3.61	2.34	1.99	700	1,111	59	16
rigid-M-I94-CS82021-11-19-2006	4.64	3.85	3.71	3.45	3.11	2.61	1.79	2.00	700	1,621	123	21
rigid-M-I94-CS82021-11-19-2006	7.65	6.50	6.07	5.59	4.97	4.00	2.36	2.01	700	1,240	26	17
rigid-M-I94-CS82021-11-19-2006	10.84	9.15	8.75	7.97	7.12	5.74	3.41	2.03	700	949	16	12
rigid-M-I94-CS82021-11-19-2006	10.90	9.17	8.80	7.99	7.16	5.68	3.34	2.03	700	940	14	12
rigid-M-I94-CS82021-11-19-2006	7.68	6.45	6.07	5.51	4.86	3.90	2.26	2.05	700	1,179	25	18
rigid-M-I94-CS82021-11-19-2006	11.75	9.97	9.69	8.88	8.00	6.51	4.00	2.05	700	995	14	10
rigid-M-I94-CS82021-11-19-2006	8.33	6.94	6.66	6.09	5.42	4.35	2.67	2.08	700	1,094	29	15
rigid-M-I94-CS82021-11-19-2006	5.91	4.86	4.54	4.11	3.61	2.86	1.68	2.10	700	1,303	43	24
rigid-M-I94-CS82021-11-19-2006	8.40	7.04	6.77	6.19	5.48	4.41	2.64	2.10	700	1,192	22	15
rigid-M-I94-CS82021-11-19-2006	8.89	7.37	6.97	6.35	5.68	4.49	2.70	2.12	700	984	26	15
rigid-M-I94-CS82021-11-19-2006	8.12	6.85	6.49	6.01	5.34	4.35	2.64	2.13	700	1,237	26	15
rigid-M-I94-CS82021-11-19-2006	6.69	5.60	5.31	4.94	4.43	3.67	2.36	2.14	700	1,307	55	16
rigid-M-I94-CS82021-11-19-2006	6.96	5.78	5.43	4.94	4.39	3.46	2.02	2.15	700	1,247	30	20
rigid-M-I94-CS82021-11-19-2006	4.60	3.80	3.61	3.36	3.04	2.55	1.71	2.15	700	1,587	120	22
rigid-M-I94-CS82021-11-19-2006	8.82	7.32	6.96	6.32	5.66	4.47	2.66	2.16	700	1,015	24	15
rigid-M-I94-CS82021-11-19-2006	5.42	4.39	4.16	3.71	3.30	2.54	1.50	2.17	700	1,353	47	26
rigid-M-I94-CS82021-11-19-2006	7.22	5.97	5.62	5.12	4.53	3.65	2.20	2.17	700	1,056	42	18
rigid-M-I94-CS82021-11-19-2006	5.45	4.43	4.13	3.74	3.27	2.55	1.49	2.17	700	1,314	47	26

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-M-I94-CS82021-11-19-2006	7.08	5.86	5.59	5.10	4.52	3.64	2.21	2.18	700	1,226	37	18
rigid-M-I94-CS82021-11-19-2006	6.98	5.78	5.54	5.04	4.48	3.61	2.20	2.18	700	1,218	38	18
rigid-M-I94-CS82021-11-19-2006	6.82	5.64	5.33	4.90	4.43	3.63	2.32	2.19	700	1,119	58	16
rigid-M-I94-CS82021-11-19-2006	7.06	5.84	5.57	5.09	4.50	3.65	2.23	2.20	700	1,212	39	18
rigid-M-I94-CS82021-11-19-2006	5.58	4.58	4.28	3.86	3.43	2.70	1.58	2.22	700	1,345	46	25
rigid-M-I94-CS82021-11-19-2006	7.18	5.93	5.60	5.07	4.54	3.64	2.19	2.22	700	1,128	38	18
rigid-M-I94-CS82021-11-19-2006	5.94	4.90	4.55	4.13	3.68	2.88	1.68	2.22	700	1,334	39	24
rigid-M-I94-CS82021-11-19-2006	3.97	3.40	3.32	3.13	2.91	2.49	1.73	2.22	700	2,947	121	21
rigid-M-I94-CS82021-11-19-2006	5.51	4.58	4.37	3.97	3.50	2.78	1.60	2.23	700	1,735	29	26
rigid-M-I94-CS82021-11-19-2006	4.20	3.46	3.27	3.04	2.68	2.20	1.40	2.23	700	1,808	92	27
rigid-M-I94-CS82021-11-19-2006	8.04	6.76	6.41	5.91	5.30	4.31	2.61	2.24	700	1,255	26	15
rigid-M-I94-CS82021-11-19-2006	7.02	5.82	5.45	4.95	4.40	3.54	2.09	2.27	700	1,166	36	19
rigid-M-I94-CS82021-11-19-2006	5.14	4.20	3.97	3.61	3.21	2.60	1.60	2.27	700	1,446	66	24
rigid-M-I94-CS82021-11-19-2006	8.12	6.85	6.46	5.96	5.31	4.35	2.60	2.28	700	1,229	26	15
rigid-M-I94-CS82021-11-19-2006	4.57	4.06	3.91	3.88	3.55	3.15	2.26	2.29	700	4,158	74	16
rigid-M-I94-CS82021-11-19-2006	8.86	7.34	6.96	6.34	5.67	4.47	2.62	2.30	700	1,032	21	15
rigid-M-I94-CS82021-11-19-2006	5.98	4.92	4.56	4.15	3.68	2.90	1.69	2.30	700	1,320	40	24
rigid-M-I94-CS82021-11-19-2006	11.77	9.90	9.59	8.86	7.95	6.49	3.97	2.33	700	965	15	10
rigid-M-I94-CS82021-11-19-2006	7.23	5.99	5.75	5.25	4.69	3.72	2.21	2.34	700	1,338	26	18
rigid-M-I94-CS82021-11-19-2006	6.99	5.76	5.40	4.90	4.31	3.42	1.96	2.34	700	1,213	29	21
rigid-M-I94-CS82021-11-19-2006	5.22	4.20	3.93	3.56	3.12	2.51	1.52	2.34	700	1,268	67	25
rigid-M-I94-CS82021-11-19-2006	4.75	4.10	4.07	3.89	3.58	3.14	2.24	2.34	700	3,059	98	16
rigid-M-I94-CS82021-11-19-2006	5.52	4.56	4.38	3.98	3.49	2.78	1.61	2.34	700	1,724	31	26
rigid-M-I94-CS82021-11-19-2006	6.66	5.53	5.25	4.79	4.26	3.42	2.01	2.35	700	1,397	30	20

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-M-I94-CS82021-11-19-2006	4.65	3.73	3.55	3.15	2.78	2.16	1.26	2.36	700	1,556	55	32
rigid-M-I94-CS82021-11-19-2006	6.67	5.52	5.26	4.79	4.26	3.42	2.02	2.37	700	1,382	31	20
rigid-M-I94-CS82021-11-19-2006	6.72	5.57	5.20	4.80	4.23	3.42	2.04	2.37	700	1,228	39	19
rigid-M-I94-CS82021-11-19-2006	6.62	5.46	5.22	4.76	4.20	3.36	1.98	2.37	700	1,385	31	20
rigid-M-I94-CS82021-11-19-2006	5.59	4.56	4.30	3.87	3.42	2.69	1.55	2.37	700	1,412	40	26
rigid-M-I94-CS82021-11-19-2006	11.71	9.86	9.62	8.86	7.96	6.52	3.97	2.38	700	1,024	13	10
rigid-M-I94-CS82021-11-19-2006	4.26	3.50	3.30	3.07	2.73	2.22	1.40	2.38	700	1,856	84	27
rigid-M-I94-CS82021-11-19-2006	6.96	5.77	5.35	4.91	4.31	3.42	1.95	2.40	700	1,260	27	21
rigid-M-I94-CS82021-11-19-2006	4.80	4.13	4.09	3.93	3.64	3.17	2.29	2.40	700	2,989	104	15
rigid-M-I94-CS82021-11-19-2006	6.86	5.65	5.35	4.93	4.41	3.61	2.25	2.41	700	1,179	49	17
rigid-M-I94-CS82021-11-19-2006	3.99	3.39	3.32	3.14	2.90	2.53	1.77	2.42	700	2,851	138	20
rigid-M-I94-CS82021-11-19-2006	3.68	3.06	2.95	2.76	2.51	2.13	1.43	2.43	700	2,378	137	26
rigid-M-I94-CS82021-11-19-2006	7.21	6.00	5.78	5.30	4.71	3.77	2.20	2.43	700	1,467	20	19
rigid-M-I94-CS82021-11-19-2006	5.58	4.54	4.24	3.85	3.40	2.68	1.56	2.45	700	1,357	45	25
rigid-M-I94-CS82021-11-19-2006	3.41	2.79	2.66	2.47	2.20	1.81	1.16	2.45	700	2,308	117	33
rigid-M-I94-CS82021-11-19-2006	5.37	4.38	4.16	3.83	3.41	2.77	1.73	2.45	700	1,438	66	22
rigid-M-I94-CS82021-11-19-2006	7.05	5.82	5.47	5.00	4.43	3.55	2.07	2.46	700	1,255	30	19
rigid-M-I94-CS82021-11-19-2006	4.03	3.42	3.33	3.18	2.92	2.55	1.79	2.47	700	2,662	146	20
rigid-M-I94-CS82021-11-19-2006	4.87	4.20	4.07	3.95	3.68	3.22	2.31	2.48	700	2,782	114	15
rigid-M-I94-CS82021-11-19-2006	4.98	3.97	3.75	3.34	2.94	2.32	1.36	2.51	700	1,347	61	29
rigid-M-I94-CS82021-11-19-2006	4.67	3.84	3.72	3.47	3.14	2.64	1.77	2.51	700	1,709	112	21
rigid-M-I94-CS82021-11-19-2006	5.19	4.24	4.01	3.69	3.27	2.66	1.63	2.51	700	1,500	63	24
rigid-M-I94-CS82021-11-19-2006	5.19	4.13	3.86	3.44	3.05	2.33	1.34	2.52	700	1,286	50	29
rigid-M-I94-CS82021-11-19-2006	3.64	3.03	2.89	2.72	2.47	2.08	1.37	2.54	700	2,449	124	27

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-M-I94-CS82021-11-19-2006	5.32	4.35	4.13	3.81	3.38	2.75	1.69	2.55	700	1,518	61	23
rigid-M-I94-CS82021-11-19-2006	5.68	4.57	4.27	3.82	3.38	2.59	1.45	2.56	700	1,294	37	27
rigid-M-I94-CS82021-11-19-2006	4.59	4.03	3.93	3.88	3.57	3.20	2.30	2.56	700	4,037	91	15
rigid-M-I94-CS82021-11-19-2006	4.04	3.42	3.34	3.16	2.94	2.53	1.75	2.57	700	2,801	125	21
rigid-M-I94-CS82021-11-19-2006	7.09	5.80	5.44	5.00	4.39	3.51	2.05	2.58	700	1,187	32	19
rigid-M-I94-CS82021-11-19-2006	5.43	4.37	4.12	3.68	3.23	2.55	1.45	2.60	700	1,360	45	27
rigid-M-I94-CS82021-11-19-2006	5.50	4.53	4.30	3.91	3.49	2.77	1.58	2.61	700	1,750	29	26
rigid-M-I94-CS82021-11-19-2006	4.94	4.34	3.61	3.28	2.89	2.31	1.41	2.62	700	1,078	80	27
rigid-M-I94-CS82021-11-19-2006	5.22	4.16	3.87	3.48	3.04	2.37	1.35	2.63	700	1,303	49	29
rigid-M-I94-CS82021-11-19-2006	5.24	4.28	4.00	3.72	3.29	2.69	1.65	2.66	700	1,454	66	23
rigid-M-I94-CS82021-11-19-2006	3.85	3.30	3.25	3.14	2.92	2.58	1.85	2.68	700	3,576	150	19
rigid-M-I94-CS82021-11-19-2006	5.18	4.12	3.87	3.46	3.04	2.35	1.33	2.68	700	1,341	46	29
rigid-M-I94-CS82021-11-19-2006	7.12	5.82	5.50	5.00	4.47	3.54	2.04	2.69	700	1,249	28	20
rigid-M-I94-CS82021-11-19-2006	5.38	4.38	4.13	3.82	3.38	2.74	1.66	2.70	700	1,484	57	23
rigid-M-I94-CS82021-11-19-2006	3.37	2.74	2.62	2.42	2.16	1.81	1.15	2.73	700	2,251	127	33
rigid-M-I94-CS82021-11-19-2006	3.66	3.03	2.92	2.71	2.51	2.11	1.39	2.74	700	2,508	125	27
rigid-M-I94-CS82021-11-19-2006	4.59	4.03	3.82	3.84	3.53	3.13	2.26	2.75	700	3,329	116	15
rigid-M-I94-CS82021-11-19-2006	5.70	4.59	4.32	3.87	3.37	2.63	1.44	2.75	700	1,290	36	28
rigid-M-I94-CS82021-11-19-2006	5.21	4.19	3.92	3.55	3.14	2.51	1.46	2.80	700	1,367	57	27
rigid-M-I94-CS82021-11-19-2006	4.73	3.76	3.55	3.18	2.75	2.16	1.20	2.86	700	1,531	48	33
rigid-M-I94-CS82021-11-19-2006	4.67	3.68	3.49	3.14	2.73	2.12	1.21	2.87	700	1,493	54	33
rigid-M-I94-CS82021-11-19-2006	6.82	5.47	5.16	4.74	4.21	3.41	2.07	2.87	700	1,065	51	19
rigid-M-I94-CS82021-11-19-2006	4.98	3.95	3.72	3.36	2.94	2.35	1.37	2.88	700	1,372	61	28
rigid-M-I94-CS82021-11-19-2006	7.14	5.80	5.46	5.04	4.45	3.54	2.05	2.88	700	1,219	30	20

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-M-I94-CS82021-11-19-2006	4.21	3.47	3.25	3.05	2.76	2.26	1.40	2.91	700	2,036	79	27
rigid-M-I94-CS82021-11-19-2006	5.70	4.57	4.33	3.93	3.48	2.76	1.60	2.91	700	1,375	43	25
rigid-M-I94-CS82021-11-19-2006	5.19	4.20	3.90	3.53	3.14	2.53	1.46	2.91	700	1,402	56	27
rigid-M-I94-CS82021-11-19-2006	6.76	5.44	5.11	4.69	4.19	3.40	2.05	2.94	700	1,089	51	19
rigid-M-I94-CS82021-11-19-2006	5.03	3.97	3.77	3.40	2.94	2.35	1.36	2.95	700	1,352	59	29
rigid-M-I94-CS82021-11-19-2006	4.97	4.35	3.59	3.29	2.88	2.33	1.40	3.00	700	1,074	79	27
rigid-M-M5-CS00000-11-29-2006	5.04	4.48	4.23	4.03	3.65	3.07	2.03	0.93	175	1,678	67	10
rigid-M-M5-CS00000-11-29-2006	4.46	3.89	3.63	3.38	2.98	2.32	1.30	0.94	175	1,680	23	20
rigid-M-M5-CS00000-11-29-2006	4.47	3.87	3.61	3.33	2.96	2.34	1.31	0.95	175	1,629	28	19
rigid-M-M5-CS00000-11-29-2006	5.00	4.45	4.18	4.00	3.64	3.05	2.05	0.97	175	1,659	74	9
rigid-M-M5-CS00000-11-29-2006	5.22	4.63	4.40	4.15	3.78	3.12	1.96	0.98	175	1,814	35	11
rigid-M-M5-CS00000-11-29-2006	5.17	4.60	4.33	4.09	3.74	3.08	1.93	0.98	175	1,782	35	11
rigid-M-M5-CS00000-11-29-2006	4.56	4.02	3.82	3.58	3.23	2.62	1.56	1.01	175	2,011	22	16
rigid-M-M5-CS00000-11-29-2006	4.99	4.35	4.08	3.80	3.33	2.63	1.47	1.01	175	1,546	20	18
rigid-M-M5-CS00000-11-29-2006	4.45	3.84	3.58	3.32	2.91	2.26	1.23	1.05	175	1,621	22	21
rigid-M-M5-CS00000-11-29-2006	4.47	3.90	3.67	3.44	3.07	2.45	1.44	1.05	175	1,791	30	16
rigid-M-M5-CS00000-11-29-2006	5.02	4.44	4.20	4.02	3.66	3.05	2.06	1.06	175	1,653	75	9
rigid-M-M5-CS00000-11-29-2006	4.25	3.66	3.45	3.20	2.84	2.25	1.29	1.07	175	1,741	34	19
rigid-M-M5-CS00000-11-29-2006	4.47	3.88	3.68	3.43	3.08	2.45	1.44	1.09	175	1,807	30	17
rigid-M-M5-CS00000-11-29-2006	5.20	4.63	4.38	4.16	3.75	3.10	1.90	1.10	175	1,921	21	12
rigid-M-M5-CS00000-11-29-2006	4.54	4.00	3.76	3.56	3.19	2.61	1.59	1.11	175	1,876	37	14
rigid-M-M5-CS00000-11-29-2006	4.15	3.57	3.37	3.14	2.80	2.22	1.31	1.12	175	1,746	43	17
rigid-M-M5-CS00000-11-29-2006	5.00	4.39	4.10	3.86	3.37	2.67	1.51	1.14	175	1,595	19	17
rigid-M-M5-CS00000-11-29-2006	5.19	4.62	4.41	4.19	3.77	3.11	1.89	1.15	175	2,041	13	14

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-M-M5-CS00000-11-29-2006	4.21	3.66	3.44	3.22	2.86	2.24	1.26	1.16	175	1,935	19	21
rigid-M-M5-CS00000-11-29-2006	4.96	4.32	4.04	3.79	3.34	2.63	1.47	1.16	175	1,581	18	18
rigid-M-M5-CS00000-11-29-2006	4.44	3.87	3.63	3.42	3.04	2.43	1.43	1.16	175	1,784	32	17
rigid-M-M5-CS00000-11-29-2006	4.30	3.69	3.48	3.23	2.90	2.28	1.33	1.16	175	1,699	38	18
rigid-M-M5-CS00000-11-29-2006	4.34	3.74	3.53	3.28	2.96	2.36	1.39	1.16	175	1,757	39	17
rigid-M-M5-CS00000-11-29-2006	5.13	4.53	4.27	4.07	3.68	3.03	1.91	1.17	175	1,719	41	11
rigid-M-M5-CS00000-11-29-2006	4.72	4.16	3.93	3.70	3.36	2.74	1.64	1.18	175	1,970	24	14
rigid-M-M5-CS00000-11-29-2006	4.73	4.08	3.91	3.62	3.27	2.60	1.54	1.19	175	1,715	30	15
rigid-M-M5-CS00000-11-29-2006	4.36	3.77	3.55	3.32	2.93	2.30	1.30	1.19	175	1,764	24	20
rigid-M-M5-CS00000-11-29-2006	5.24	4.58	4.33	4.07	3.75	3.09	1.96	1.20	175	1,581	52	10
rigid-M-M5-CS00000-11-29-2006	4.26	3.67	3.46	3.24	2.86	2.31	1.37	1.20	175	1,697	46	16
rigid-M-M5-CS00000-11-29-2006	4.73	4.15	3.89	3.64	3.27	2.63	1.49	1.21	175	1,888	15	18
rigid-M-M5-CS00000-11-29-2006	4.31	3.74	3.51	3.29	2.88	2.27	1.26	1.22	175	1,811	19	21
rigid-M-M5-CS00000-11-29-2006	4.56	4.00	3.82	3.60	3.23	2.66	1.61	1.22	175	2,046	28	14
rigid-M-M5-CS00000-11-29-2006	4.30	3.73	3.51	3.32	2.98	2.47	1.55	1.24	175	1,738	69	13
rigid-M-M5-CS00000-11-29-2006	4.73	4.12	3.91	3.68	3.28	2.64	1.55	1.24	175	1,818	24	16
rigid-M-M5-CS00000-11-29-2006	3.81	3.25	3.02	2.83	2.49	1.99	1.17	1.27	175	1,709	61	19
rigid-M-M5-CS00000-11-29-2006	4.34	3.75	3.51	3.30	2.94	2.33	1.35	1.29	175	1,771	32	18
rigid-M-M5-CS00000-11-29-2006	4.70	4.06	3.89	3.63	3.20	2.57	1.50	1.29	175	1,696	27	16
rigid-M-M5-CS00000-11-29-2006	4.22	3.61	3.42	3.17	2.84	2.23	1.27	1.29	175	1,805	30	19
rigid-M-M5-CS00000-11-29-2006	4.78	4.15	3.95	3.69	3.33	2.64	1.51	1.30	175	1,876	15	18
rigid-M-M5-CS00000-11-29-2006	4.36	3.76	3.54	3.35	2.98	2.45	1.52	1.31	175	1,656	64	14
rigid-M-M5-CS00000-11-29-2006	4.32	3.72	3.51	3.31	2.99	2.46	1.54	1.31	175	1,700	69	13
rigid-M-M5-CS00000-11-29-2006	5.16	4.53	4.29	4.09	3.72	3.07	1.94	1.32	175	1,747	41	11

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-M-M5-CS00000-11-29-2006	4.03	3.43	3.26	3.05	2.73	2.22	1.37	1.33	175	1,721	71	15
rigid-M-M5-CS00000-11-29-2006	3.85	3.27	3.06	2.86	2.51	2.06	1.24	1.34	175	1,621	78	17
rigid-M-M5-CS00000-11-29-2006	4.59	3.99	3.76	3.54	3.17	2.52	1.44	1.34	175	1,894	18	18
rigid-M-M5-CS00000-11-29-2006	4.63	4.07	3.86	3.65	3.32	2.77	1.71	1.35	175	2,036	36	13
rigid-M-M5-CS00000-11-29-2006	3.79	3.23	3.02	2.81	2.51	1.99	1.14	1.36	175	1,851	46	21
rigid-M-M5-CS00000-11-29-2006	4.64	3.98	3.79	3.52	3.12	2.53	1.46	1.37	175	1,687	31	16
rigid-M-M5-CS00000-11-29-2006	4.20	3.61	3.38	3.18	2.78	2.20	1.24	1.40	175	1,767	29	20
rigid-M-M5-CS00000-11-29-2006	5.10	4.51	4.27	4.05	3.72	3.10	1.92	1.40	175	1,981	28	12
rigid-M-M5-CS00000-11-29-2006	4.67	4.10	3.89	3.70	3.33	2.76	1.68	1.41	175	2,043	29	14
rigid-M-M5-CS00000-11-29-2006	4.34	3.75	3.52	3.32	2.96	2.34	1.34	1.42	175	1,868	24	19
rigid-M-M5-CS00000-11-29-2006	4.38	3.78	3.54	3.32	2.96	2.33	1.29	1.42	175	1,855	18	21
rigid-M-M5-CS00000-11-29-2006	3.84	3.27	3.08	2.89	2.59	2.07	1.23	1.47	175	1,852	57	18
rigid-M-M5-CS00000-11-29-2006	4.03	3.40	3.25	3.03	2.71	2.19	1.33	1.52	175	1,701	68	16
rigid-M-M5-CS00000-11-29-2006	4.65	4.08	3.87	3.69	3.36	2.78	1.71	1.52	175	2,123	28	13
rigid-M-M5-CS00000-11-29-2006	4.79	4.17	3.95	3.76	3.37	2.76	1.64	1.57	175	1,930	23	15
rigid-M-M5-CS00000-11-29-2006	4.26	3.68	3.44	3.26	2.93	2.33	1.35	1.58	175	1,918	28	18
rigid-M-M5-CS00000-11-29-2006	4.87	4.20	3.97	3.74	3.41	2.75	1.64	1.60	175	1,753	31	14
rigid-M-M5-CS00000-11-29-2006	4.62	3.95	3.77	3.54	3.12	2.50	1.42	1.61	175	1,768	22	18
rigid-M-M5-CS00000-11-29-2006	3.76	3.18	3.04	2.82	2.53	2.05	1.20	1.64	175	1,976	51	19
rigid-M-M5-CS00000-11-29-2006	3.81	3.25	3.04	2.85	2.59	2.08	1.22	1.70	175	1,969	51	19
rigid-M-M5-CS00000-11-29-2006	5.15	4.49	4.27	4.11	3.70	3.10	1.94	1.72	175	1,842	37	11
rigid-M-M5-CS00000-11-29-2006	4.80	4.05	3.90	3.62	3.25	2.61	1.52	1.73	175	1,629	33	15
rigid-M-M5-CS00000-11-29-2006	4.04	3.38	3.17	3.01	2.71	2.17	1.38	1.74	175	1,498	95	15
rigid-M-M5-CS00000-11-29-2006	4.24	3.62	3.38	3.16	2.86	2.26	1.26	1.77	175	1,844	26	20

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-N-I75-CS65041-08-30-2001	5.63	4.96	4.61	4.09	3.62	2.87	1.65	1.21	700	1,970	36	24
rigid-N-I75-CS65041-08-30-2001	5.67	5.00	4.65	4.09	3.62	2.87	1.65	1.21	700	1,941	37	25
rigid-N-I75-CS65041-08-30-2001	8.50	7.09	6.38	5.59	4.84	3.54	1.81	1.95	700	998	18	22
rigid-N-I75-CS65041-08-30-2001	7.95	6.73	6.10	5.43	4.80	3.74	2.09	2.04	700	1,117	34	19
rigid-N-I75-CS65041-08-30-2001	8.62	7.13	6.46	5.59	4.92	3.54	1.81	2.08	700	989	18	22
rigid-N-I75-CS65041-08-30-2001	7.87	6.65	6.06	5.35	4.76	3.70	2.05	2.13	700	1,105	33	19
rigid-N-I75-CS65041-08-30-2001	7.36	5.83	5.31	4.69	4.13	3.19	1.85	2.22	700	722	78	21
rigid-N-I75-CS65041-08-30-2001	7.36	5.79	5.31	4.69	4.09	3.23	1.89	2.23	700	727	83	20
rigid-N-I75-CS65041-08-30-2001	8.58	7.24	6.57	5.79	5.04	3.86	2.01	2.24	700	1,070	19	19
rigid-N-I75-CS65041-08-30-2001	8.50	7.20	6.54	5.71	5.00	3.82	1.97	2.24	700	1,098	17	20
rigid-N-I75-CS65041-08-30-2001	6.81	5.67	5.12	4.53	4.02	3.19	1.81	2.31	700	1,026	64	21
rigid-N-I75-CS65041-08-30-2001	6.85	5.67	5.12	4.53	4.02	3.19	1.81	2.38	700	989	66	21
rigid-N-I75-CS65041-08-30-2001	6.81	5.59	5.08	4.53	4.02	3.19	1.81	2.58	700	1,059	63	21
rigid-N-I75-CS65041-09-14-2001	8.54	7.13	6.46	5.71	5.00	3.82	2.13	1.81	700	931	35	18
rigid-N-I75-CS65041-09-14-2001	7.36	6.10	5.51	4.80	4.13	3.11	1.65	1.91	700	1,078	32	24
rigid-N-I75-CS65041-09-14-2001	7.95	6.81	6.30	5.63	5.00	3.94	2.20	1.97	700	1,389	24	18
rigid-N-I75-CS65041-09-14-2001	8.15	6.97	6.46	5.75	5.04	4.02	2.24	2.00	700	1,271	27	18
rigid-N-I75-CS65041-09-14-2001	7.56	6.22	5.67	4.92	4.29	3.23	1.73	2.06	700	1,054	33	23
rigid-N-I75-CS65041-09-14-2001	7.01	5.87	5.31	4.69	4.06	3.07	1.61	2.10	700	1,283	26	25
rigid-N-I75-CS65041-09-14-2001	6.97	5.83	5.31	4.65	4.06	3.07	1.61	2.12	700	1,311	26	25
rigid-N-I75-CS65041-09-14-2001	7.56	6.26	5.67	4.92	4.25	3.19	1.65	2.15	700	1,080	26	24
rigid-N-I75-CS65041-09-14-2001	7.56	6.22	5.63	4.92	4.29	3.23	1.73	2.16	700	1,042	34	23
rigid-N-I75-CS65041-09-14-2001	8.15	6.73	6.14	5.43	4.76	3.66	2.01	2.24	700	992	36	20
rigid-N-I75-CS65041-09-14-2001	7.72	6.38	5.79	5.04	4.37	3.31	1.73	2.28	700	1,351	28	23

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-N-I75-CS65041-09-14-2001	8.15	6.73	6.14	5.39	4.76	3.66	2.01	2.28	700	984	37	20
rigid-N-I75-CS65041-09-14-2001	7.91	6.73	6.26	5.55	4.92	3.90	2.13	2.29	700	1,378	23	19
rigid-N-I75-CS65041-09-14-2001	7.32	6.06	5.47	4.76	4.09	3.11	1.61	2.31	700	1,120	29	25
rigid-N-I75-CS65041-09-14-2001	10.24	8.43	7.72	6.77	5.91	4.37	2.24	2.33	700	897	15	18
rigid-N-I75-CS65041-09-14-2001	9.88	8.15	7.44	6.54	5.67	4.25	2.17	2.41	700	955	15	19
rigid-N-I75-CS65041-09-14-2001	9.92	8.19	7.44	6.54	5.71	4.25	2.17	2.45	700	945	15	19
rigid-N-I75-CS65041-09-14-2001	7.09	5.91	5.39	4.72	4.09	3.15	1.61	2.60	700	1,258	25	24
rigid-N-I75-CS16091-09-17-2001	6.26	5.51	5.24	4.69	4.25	3.46	2.20	0.92	700	1,709	73	18
rigid-N-I75-CS16091-09-17-2001	6.02	5.20	4.76	4.17	3.66	2.83	1.61	1.12	700	1,461	44	24
rigid-N-I75-CS16091-09-17-2001	6.22	5.51	5.16	4.69	4.21	3.50	2.20	1.21	700	1,749	74	18
rigid-N-I75-CS16091-09-17-2001	6.34	5.35	4.92	4.25	3.74	2.91	1.69	1.22	700	1,118	64	23
rigid-N-I75-CS16091-09-17-2001	6.06	5.24	4.80	4.21	3.70	2.83	1.57	1.23	700	1,526	34	25
rigid-N-I75-CS16091-09-17-2001	6.34	5.31	4.92	4.25	3.74	2.91	1.69	1.33	700	1,129	64	23
rigid-N-I75-CS16091-09-17-2001	8.90	7.52	6.93	6.10	5.35	4.17	2.40	1.41	700	917	39	16
rigid-N-I75-CS16091-09-17-2001	9.09	7.76	7.13	6.26	5.51	4.29	2.44	1.43	700	939	33	16
rigid-N-I75-CS16091-09-17-2001	6.69	5.59	5.16	4.49	3.94	3.07	1.77	1.46	700	1,071	58	22
rigid-N-I75-CS16091-09-17-2001	4.37	3.86	3.62	3.23	2.91	2.40	1.46	1.47	700	2,570	82	27
rigid-N-I75-CS16091-09-17-2001	8.62	7.32	6.69	5.91	5.20	3.98	2.24	1.47	700	1,009	31	18
rigid-N-I75-CS16091-09-17-2001	4.53	3.98	3.70	3.31	2.99	2.40	1.42	1.49	700	2,463	61	28
rigid-N-I75-CS16091-09-17-2001	6.97	5.94	5.43	4.76	4.17	3.23	1.81	1.50	700	1,218	38	21
rigid-N-I75-CS16091-09-17-2001	7.95	6.77	6.18	5.39	4.69	3.54	1.89	1.51	700	1,160	21	21
rigid-N-I75-CS16091-09-17-2001	8.90	7.52	6.89	6.10	5.39	4.17	2.40	1.51	700	919	38	16
rigid-N-I75-CS16091-09-17-2001	5.75	4.92	4.49	3.98	3.46	2.72	1.54	1.54	700	1,498	51	25
rigid-N-I75-CS16091-09-17-2001	7.99	6.85	6.30	5.59	4.88	3.74	2.01	1.63	700	1,327	18	20

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-N-I75-CS16091-09-17-2001	9.69	8.39	7.76	6.93	6.22	4.88	2.80	1.63	700	1,078	25	14
rigid-N-I75-CS16091-09-17-2001	9.21	7.99	7.36	6.57	5.91	4.65	2.68	1.65	700	1,154	27	15
rigid-N-I75-CS16091-09-17-2001	7.52	6.06	5.63	4.96	4.41	3.54	2.17	1.65	700	685	101	17
rigid-N-I75-CS16091-09-17-2001	6.81	5.83	5.31	4.69	4.09	3.19	1.77	1.66	700	1,301	36	22
rigid-N-I75-CS16091-09-17-2001	7.52	6.54	5.94	5.24	4.61	3.54	1.89	1.68	700	1,382	18	21
rigid-N-I75-CS16091-09-17-2001	7.80	6.50	5.91	5.20	4.53	3.46	1.93	1.68	700	957	39	20
rigid-N-I75-CS16091-09-17-2001	6.30	5.43	4.92	4.37	3.82	2.95	1.61	1.69	700	1,501	31	25
rigid-N-I75-CS16091-09-17-2001	9.13	7.72	7.09	6.22	5.55	4.25	2.40	1.69	700	924	32	16
rigid-N-I75-CS16091-09-17-2001	8.74	7.40	6.77	5.98	5.31	4.06	2.28	1.70	700	1,010	31	17
rigid-N-I75-CS16091-09-17-2001	7.72	6.54	5.98	5.20	4.57	3.46	1.85	1.76	700	1,185	24	22
rigid-N-I75-CS16091-09-17-2001	9.21	7.95	7.36	6.54	5.91	4.65	2.68	1.76	700	1,143	27	15
rigid-N-I75-CS16091-09-17-2001	5.79	4.96	4.53	4.02	3.50	2.76	1.54	1.76	700	1,529	45	25
rigid-N-I75-CS16091-09-17-2001	5.79	4.92	4.57	4.02	3.50	2.76	1.54	1.77	700	1,587	44	26
rigid-N-I75-CS16091-09-17-2001	9.09	7.80	7.20	6.50	5.79	4.57	2.64	1.79	700	1,112	30	15
rigid-N-I75-CS16091-09-17-2001	7.52	6.02	5.55	4.92	4.37	3.50	2.13	1.81	700	667	100	18
rigid-N-I75-CS16091-09-17-2001	7.13	6.06	5.59	4.88	4.29	3.35	1.85	1.82	700	1,277	34	21
rigid-N-I75-CS16091-09-17-2001	7.72	6.57	5.98	5.16	4.53	3.46	1.85	1.82	700	1,139	26	21
rigid-N-I75-CS16091-09-17-2001	5.98	5.00	4.61	4.02	3.50	2.68	1.46	1.82	700	1,336	43	26
rigid-N-I75-CS16091-09-17-2001	7.01	5.91	5.47	4.76	4.21	3.23	1.77	1.84	700	1,273	32	22
rigid-N-I75-CS16091-09-17-2001	9.57	8.15	7.48	6.77	5.98	4.72	2.72	1.88	700	961	31	14
rigid-N-I75-CS16091-09-17-2001	9.29	7.83	7.20	6.38	5.63	4.33	2.40	1.88	700	990	25	16
rigid-N-I75-CS16091-09-17-2001	4.41	3.86	3.62	3.23	2.91	2.40	1.42	1.90	700	2,561	70	28
rigid-N-I75-CS16091-09-17-2001	7.76	6.30	5.75	5.08	4.53	3.66	2.20	1.90	700	678	91	17
rigid-N-I75-CS16091-09-17-2001	9.65	8.15	7.48	6.61	5.87	4.49	2.48	1.91	700	945	24	16

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-N-I75-CS16091-09-17-2001	8.15	7.01	6.42	5.67	4.92	3.82	2.01	1.91	700	1,255	17	20
rigid-N-I75-CS16091-09-17-2001	7.48	6.22	5.67	4.96	4.33	3.31	1.81	1.92	700	1,041	37	21
rigid-N-I75-CS16091-09-17-2001	9.33	7.91	7.24	6.38	5.63	4.37	2.40	1.97	700	983	25	16
rigid-N-I75-CS16091-09-17-2001	6.85	5.87	5.31	4.72	4.13	3.23	1.77	1.97	700	1,331	34	22
rigid-N-I75-CS16091-09-17-2001	7.17	6.02	5.59	4.88	4.33	3.35	1.85	2.01	700	1,288	34	21
rigid-N-I75-CS16091-09-17-2001	9.09	7.80	7.20	6.46	5.79	4.61	2.64	2.03	700	1,138	29	15
rigid-N-I75-CS16091-09-17-2001	7.52	6.22	5.67	4.96	4.37	3.31	1.81	2.07	700	1,026	37	21
rigid-N-I75-CS16091-09-17-2001	10.83	8.98	8.23	7.24	6.42	5.04	2.87	2.08	700	656	36	13
rigid-N-I75-CS16091-09-17-2001	6.73	5.47	5.08	4.49	4.02	3.19	1.89	2.17	700	953	87	20
rigid-N-I75-CS16091-09-17-2001	11.26	9.29	8.50	7.52	6.65	5.20	2.95	2.18	700	633	34	13
rigid-N-I75-CS16091-09-17-2001	5.79	4.84	4.45	3.86	3.39	2.60	1.38	2.21	700	1,504	37	28
rigid-N-I75-CS16091-09-17-2001	10.98	9.02	8.31	7.32	6.54	5.12	2.91	2.36	700	660	37	13
rigid-N-I75-CS16091-09-17-2001	7.91	6.14	5.59	4.80	4.13	3.15	1.73	2.43	700	639	60	22
rigid-N-I75-CS16091-09-17-2001	6.89	5.91	5.47	5.04	4.57	3.82	2.32	2.46	700	1,465	73	16
rigid-N-I75-CS16091-09-17-2001	8.15	6.34	5.75	4.96	4.29	3.23	1.77	2.47	700	614	56	21
rigid-N-I75-CS16091-09-17-2001	6.93	5.91	5.51	5.04	4.61	3.82	2.32	2.48	700	1,534	67	17
rigid-N-I75-CS16091-09-17-2001	6.65	5.43	5.00	4.45	3.94	3.19	1.85	2.49	700	985	85	21
rigid-N-I75-CS16091-09-17-2001	7.24	6.22	5.79	5.31	4.84	4.02	2.40	2.58	700	1,606	50	16
rigid-N-I75-CS16091-09-17-2001	5.79	4.76	4.41	3.82	3.35	2.60	1.38	2.61	700	1,479	39	28
rigid-N-I75-CS16091-09-17-2001	6.93	5.67	5.20	4.61	4.09	3.31	1.89	2.67	700	939	77	20
rigid-N-I75-CS16091-09-17-2001	7.95	6.10	5.55	4.80	4.13	3.15	1.73	2.68	700	625	61	22
rigid-N-I75-CS16091-10-26-2001	8.11	6.93	6.38	5.63	4.96	3.86	2.40	0.33	700	885	66	17
rigid-N-I75-CS16091-10-26-2001	6.97	6.06	5.67	5.08	4.53	3.62	2.28	0.65	700	1,282	71	17
rigid-N-I75-CS16091-10-26-2001	4.33	3.82	3.54	3.19	2.83	2.28	1.42	0.69	700	2,212	101	28

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-N-I75-CS16091-10-26-2001	5.35	4.65	4.33	3.82	3.43	2.72	1.69	0.69	700	1,591	91	24
rigid-N-I75-CS16091-10-26-2001	7.20	6.22	5.83	5.24	4.65	3.66	2.32	0.69	700	1,187	68	17
rigid-N-I75-CS16091-10-26-2001	7.32	6.30	5.83	5.20	4.65	3.70	2.32	0.72	700	1,064	77	17
rigid-N-I75-CS16091-10-26-2001	7.52	6.46	6.02	5.28	4.72	3.66	2.24	0.78	700	1,063	58	17
rigid-N-I75-CS16091-10-26-2001	8.31	7.01	6.50	5.75	5.04	3.90	2.40	0.83	700	854	60	17
rigid-N-I75-CS16091-10-26-2001	4.33	3.82	3.58	3.15	2.87	2.28	1.42	0.86	700	2,241	96	28
rigid-N-I75-CS16091-10-26-2001	8.07	6.81	6.34	5.55	4.88	3.86	2.36	0.88	700	870	67	17
rigid-N-I75-CS16091-10-26-2001	5.83	5.04	4.69	4.21	3.70	2.87	1.69	1.00	700	1,701	45	23
rigid-N-I75-CS16091-10-26-2001	5.98	5.16	4.76	4.29	3.78	2.91	1.73	1.00	700	1,531	50	22
rigid-N-I75-CS16091-10-26-2001	5.83	5.04	4.69	4.17	3.74	3.07	1.93	1.05	700	1,363	102	20
rigid-N-I75-CS16091-10-26-2001	5.08	4.45	4.13	3.70	3.31	2.60	1.54	1.07	700	2,059	53	26
rigid-N-I75-CS16091-10-26-2001	5.83	5.04	4.69	4.21	3.74	2.87	1.69	1.08	700	1,747	43	24
rigid-N-I75-CS16091-10-26-2001	4.37	3.86	3.54	3.19	2.87	2.28	1.38	1.10	700	2,287	78	28
rigid-N-I75-CS16091-10-26-2001	5.35	4.61	4.29	3.82	3.39	2.72	1.65	1.14	700	1,628	84	24
rigid-N-I75-CS16091-10-26-2001	4.96	4.33	4.02	3.58	3.19	2.56	1.54	1.14	700	1,963	73	26
rigid-N-I75-CS16091-10-26-2001	7.17	6.02	5.51	4.88	4.33	3.35	2.01	1.16	700	985	67	20
rigid-N-I75-CS16091-10-26-2001	7.05	6.14	5.71	5.16	4.65	3.78	2.36	1.18	700	1,336	72	17
rigid-N-I75-CS16091-10-26-2001	6.97	6.10	5.67	5.16	4.61	3.78	2.36	1.19	700	1,389	71	17
rigid-N-I75-CS16091-10-26-2001	7.40	6.22	5.71	5.00	4.41	3.46	2.05	1.20	700	928	64	19
rigid-N-I75-CS16091-10-26-2001	7.20	6.06	5.59	4.92	4.37	3.39	2.01	1.25	700	1,038	61	20
rigid-N-I75-CS16091-10-26-2001	5.39	4.61	4.29	3.82	3.43	2.72	1.65	1.29	700	1,575	83	23
rigid-N-I75-CS16091-10-26-2001	7.36	6.22	5.79	5.16	4.61	3.70	2.28	1.30	700	1,033	77	17
rigid-N-I75-CS16091-10-26-2001	9.61	8.07	7.48	6.54	5.67	4.25	2.32	1.39	700	936	21	17
rigid-N-I75-CS16091-10-26-2001	9.41	7.91	7.32	6.38	5.55	4.17	2.28	1.40	700	951	23	18

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-N-I75-CS16091-10-26-2001	9.33	7.87	7.24	6.34	5.51	4.13	2.24	1.41	700	979	21	18
rigid-N-I75-CS16091-10-26-2001	6.18	5.08	4.61	4.02	3.50	2.60	1.46	1.46	700	1,108	53	27
rigid-N-I75-CS16091-10-26-2001	7.09	6.22	5.75	5.20	4.69	3.82	2.32	1.51	700	1,481	56	17
rigid-N-I75-CS16091-10-26-2001	7.13	6.22	5.75	5.24	4.69	3.82	2.32	1.55	700	1,462	56	17
rigid-N-I75-CS16091-10-26-2001	7.28	6.34	5.87	5.35	4.76	3.86	2.32	1.56	700	1,396	52	17
rigid-N-I75-CS16091-10-26-2001	5.55	4.76	4.41	3.94	3.50	2.80	1.65	1.58	700	1,661	67	24
rigid-N-I75-CS16091-10-26-2001	6.18	5.31	4.92	4.37	3.90	3.07	1.77	1.60	700	1,609	44	22
rigid-N-I75-CS16091-10-26-2001	6.18	5.08	4.65	4.02	3.46	2.64	1.46	1.64	700	1,102	53	26
rigid-N-I75-CS16091-10-26-2001	5.55	4.76	4.41	3.90	3.50	2.80	1.65	1.66	700	1,620	70	24
rigid-N-I75-CS16091-10-26-2001	11.26	9.49	8.86	7.76	6.77	5.16	2.80	1.67	700	881	16	15
rigid-N-I75-CS16091-10-26-2001	11.50	9.76	9.13	7.99	6.93	5.31	2.83	1.68	700	884	13	14
rigid-N-I75-CS16091-10-26-2001	5.59	4.76	4.41	3.94	3.50	2.80	1.65	1.69	700	1,613	66	24
rigid-N-I75-CS16091-10-26-2001	11.30	9.53	8.90	7.80	6.81	5.20	2.80	1.75	700	895	15	15
rigid-N-I75-CS16091-10-26-2001	6.42	5.55	5.12	4.57	4.06	3.27	1.89	1.81	700	1,488	50	21
rigid-N-I75-CS16091-10-26-2001	6.30	5.16	4.72	4.09	3.54	2.68	1.46	1.88	700	1,113	46	26
rigid-N-I75-CS16091-10-26-2001	5.87	4.69	4.29	3.82	3.39	2.72	1.65	1.88	700	823	133	23
rigid-N-I75-CS16091-10-26-2001	10.51	8.82	8.19	7.20	6.26	4.76	2.52	1.92	700	930	15	16
rigid-N-I75-CS16091-10-26-2001	5.83	4.65	4.25	3.78	3.35	2.72	1.65	1.93	700	801	145	23
rigid-N-I75-CS16091-10-26-2001	10.12	8.54	7.83	6.93	6.02	4.57	2.40	1.94	700	1,009	14	17
rigid-N-I75-CS16091-10-26-2001	5.79	4.65	4.21	3.78	3.35	2.72	1.65	1.97	700	823	144	23
rigid-N-I75-CS16091-10-26-2001	10.12	8.50	7.80	6.89	5.98	4.57	2.36	2.23	700	1,010	14	18
rigid-N-I75-CS16091-10-26-2001	6.18	5.31	4.92	4.37	3.90	3.15	1.77	2.28	700	1,676	42	22
rigid-N-I75-CS16092-09-18-2001	4.13	3.58	3.35	2.99	2.64	2.09	1.34	0.76	700	2,068	129	29
rigid-N-I75-CS16092-09-18-2001	6.38	5.51	5.08	4.53	4.02	3.15	1.89	0.95	700	1,378	59	21

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-N-I75-CS16092-09-18-2001	7.20	5.87	5.31	4.57	3.94	2.91	1.65	1.06	700	843	52	24
rigid-N-I75-CS16092-09-18-2001	6.26	5.24	4.80	4.21	3.70	2.83	1.65	1.17	700	1,131	61	23
rigid-N-I75-CS16092-09-18-2001	7.01	5.71	5.20	4.45	3.82	2.87	1.61	1.25	700	881	55	25
rigid-N-I75-CS16092-09-18-2001	8.94	7.68	7.01	6.22	5.47	4.21	2.40	1.25	700	998	30	16
rigid-N-I75-CS16092-09-18-2001	6.97	5.63	5.20	4.41	3.82	2.83	1.61	1.27	700	881	57	25
rigid-N-I75-CS16092-09-18-2001	6.38	5.51	5.08	4.53	4.02	3.19	1.89	1.27	700	1,424	55	21
rigid-N-I75-CS16092-09-18-2001	9.25	7.87	7.20	6.42	5.63	4.33	2.48	1.37	700	958	30	16
rigid-N-I75-CS16092-09-18-2001	8.94	7.60	7.01	6.22	5.43	4.21	2.40	1.38	700	989	32	16
rigid-N-I75-CS16092-09-18-2001	7.05	5.98	5.51	4.84	4.21	3.27	1.85	1.39	700	1,228	41	22
rigid-N-I75-CS16092-09-18-2001	7.83	6.69	6.10	5.43	4.72	3.58	1.97	1.39	700	1,228	25	21
rigid-N-I75-CS16092-09-18-2001	6.38	5.47	5.04	4.49	3.98	3.15	1.85	1.43	700	1,392	57	21
rigid-N-I75-CS16092-09-18-2001	7.91	6.73	6.22	5.51	4.80	3.66	2.01	1.47	700	1,228	24	20
rigid-N-I75-CS16092-09-18-2001	7.09	6.02	5.55	4.88	4.25	3.27	1.81	1.50	700	1,268	34	22
rigid-N-I75-CS16092-09-18-2001	7.17	6.14	5.59	4.96	4.29	3.31	1.81	1.57	700	1,296	28	22
rigid-N-I75-CS16092-09-18-2001	7.44	6.42	5.94	5.28	4.61	3.62	2.01	1.59	700	1,420	26	20
rigid-N-I75-CS16092-09-18-2001	7.95	6.73	6.18	5.51	4.76	3.62	1.97	1.61	700	1,203	23	20
rigid-N-I75-CS16092-09-18-2001	6.54	5.59	5.16	4.61	4.06	3.15	1.77	1.63	700	1,594	32	23
rigid-N-I75-CS16092-09-18-2001	6.89	5.83	5.35	4.69	4.06	3.15	1.73	1.69	700	1,291	36	23
rigid-N-I75-CS16092-09-18-2001	7.48	6.42	5.94	5.31	4.65	3.66	2.05	1.71	700	1,418	28	20
rigid-N-I75-CS16092-09-18-2001	6.18	5.16	4.72	4.13	3.62	2.83	1.61	1.71	700	1,159	62	24
rigid-N-I75-CS16092-09-18-2001	6.50	5.59	5.16	4.61	4.06	3.15	1.73	1.72	700	1,689	26	24
rigid-N-I75-CS16092-09-18-2001	5.55	4.72	4.41	3.90	3.43	2.68	1.50	1.72	700	1,820	40	27
rigid-N-I75-CS16092-09-18-2001	7.76	6.61	6.06	5.39	4.69	3.62	1.97	1.76	700	1,284	24	21
rigid-N-I75-CS16092-09-18-2001	6.10	5.12	4.69	4.09	3.58	2.83	1.61	1.76	700	1,183	64	24

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-N-I75-CS16092-09-18-2001	9.53	7.99	7.32	6.46	5.67	4.37	2.44	1.80	700	879	29	16
rigid-N-I75-CS16092-09-18-2001	7.99	6.65	6.06	5.43	4.69	3.70	2.13	1.82	700	907	51	18
rigid-N-I75-CS16092-09-18-2001	7.83	6.46	5.94	5.28	4.61	3.62	2.09	1.88	700	930	54	19
rigid-N-I75-CS16092-09-18-2001	8.43	7.13	6.61	5.91	5.20	4.09	2.32	1.89	700	1,145	32	17
rigid-N-I75-CS16092-09-18-2001	7.83	6.65	6.10	5.43	4.72	3.62	1.93	1.89	700	1,303	20	21
rigid-N-I75-CS16092-09-18-2001	8.35	7.13	6.54	5.87	5.20	4.09	2.32	1.90	700	1,181	32	17
rigid-N-I75-CS16092-09-18-2001	7.09	5.98	5.51	4.84	4.17	3.23	1.73	1.92	700	1,295	28	23
rigid-N-I75-CS16092-09-18-2001	9.53	8.03	7.32	6.50	5.67	4.41	2.44	1.93	700	894	28	16
rigid-N-I75-CS16092-09-18-2001	5.67	4.76	4.37	3.82	3.35	2.56	1.38	1.95	700	1,576	37	29
rigid-N-I75-CS16092-09-18-2001	5.55	4.72	4.41	3.90	3.43	2.68	1.46	1.97	700	1,943	31	28
rigid-N-I75-CS16092-09-18-2001	8.74	7.40	6.85	6.10	5.39	4.25	2.40	1.97	700	1,103	29	16
rigid-N-I75-CS16092-09-18-2001	6.69	5.71	5.28	4.72	4.09	3.23	1.77	2.00	700	1,444	33	22
rigid-N-I75-CS16092-09-18-2001	6.93	5.83	5.35	4.72	4.06	3.15	1.69	2.00	700	1,320	31	24
rigid-N-I75-CS16092-09-18-2001	8.43	7.05	6.38	5.63	4.88	3.70	1.97	2.02	700	1,026	25	20
rigid-N-I75-CS16092-09-18-2001	7.68	6.46	5.91	5.16	4.49	3.46	1.85	2.03	700	1,085	30	21
rigid-N-I75-CS16092-09-18-2001	7.80	6.61	6.10	5.39	4.69	3.66	1.97	2.04	700	1,290	24	21
rigid-N-I75-CS16092-09-18-2001	7.64	6.38	5.87	5.08	4.41	3.43	1.85	2.09	700	1,075	33	21
rigid-N-I75-CS16092-09-18-2001	9.84	8.23	7.56	6.65	5.83	4.53	2.48	2.12	700	886	25	16
rigid-N-I75-CS16092-09-18-2001	8.43	7.09	6.42	5.63	4.88	3.74	1.97	2.13	700	1,049	23	20
rigid-N-I75-CS16092-09-18-2001	8.66	7.17	6.54	5.71	4.96	3.74	1.97	2.13	700	987	22	20
rigid-N-I75-CS16092-09-18-2001	10.51	8.78	7.99	7.05	6.10	4.61	2.40	2.13	700	862	16	16
rigid-N-I75-CS16092-09-18-2001	8.62	7.20	6.57	5.79	5.00	3.82	2.01	2.14	700	1,029	22	20
rigid-N-I75-CS16092-09-18-2001	10.47	8.78	7.99	7.01	6.10	4.65	2.44	2.15	700	872	17	16
rigid-N-I75-CS16092-09-18-2001	7.80	6.46	5.91	5.28	4.65	3.62	2.05	2.17	700	995	47	19

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-N-I75-CS16092-09-18-2001	8.27	7.05	6.38	5.67	5.00	3.90	2.13	2.17	700	1,048	31	18
rigid-N-I75-CS16092-09-18-2001	7.17	5.94	5.39	4.76	4.13	3.15	1.69	2.19	700	1,161	34	23
rigid-N-I75-CS16092-09-18-2001	8.11	6.85	6.26	5.55	4.88	3.82	2.09	2.20	700	1,130	30	19
rigid-N-I75-CS16092-09-18-2001	8.54	6.97	6.38	5.55	4.84	3.66	1.97	2.21	700	883	30	19
rigid-N-I75-CS16092-09-18-2001	8.50	6.85	6.18	5.43	4.65	3.50	1.89	2.22	700	785	37	20
rigid-N-I75-CS16092-09-18-2001	8.62	7.09	6.42	5.59	4.84	3.66	1.93	2.24	700	885	27	20
rigid-N-I75-CS16092-09-18-2001	8.46	6.81	6.18	5.43	4.65	3.50	1.89	2.24	700	803	35	20
rigid-N-I75-CS16092-09-18-2001	7.64	6.42	5.87	5.08	4.45	3.46	1.85	2.24	700	1,104	31	21
rigid-N-I75-CS16092-09-18-2001	8.82	7.24	6.57	5.71	4.96	3.74	1.97	2.27	700	859	26	19
rigid-N-I75-CS16092-09-18-2001	8.11	6.93	6.26	5.55	4.88	3.82	2.05	2.31	700	1,171	25	19
rigid-N-I75-CS16092-09-18-2001	5.79	4.84	4.41	3.86	3.35	2.60	1.38	2.32	700	1,435	40	28
rigid-N-I75-CS16092-09-18-2001	8.39	6.93	6.30	5.51	4.80	3.62	1.89	2.33	700	1,021	23	21
rigid-N-I75-CS16092-09-18-2001	7.13	5.91	5.43	4.72	4.09	3.15	1.65	2.37	700	1,210	30	24
rigid-N-I75-CS16092-09-18-2001	6.54	5.24	4.65	3.94	3.35	2.40	1.18	2.38	700	1,001	30	32
rigid-N-I75-CS16092-09-18-2001	10.83	9.09	8.23	7.24	6.30	4.84	2.52	2.39	700	820	17	15
rigid-N-I75-CS16092-09-18-2001	9.49	7.64	7.01	6.14	5.35	4.09	2.24	2.43	700	745	35	17
rigid-N-I75-CS16092-09-18-2001	8.35	6.93	6.30	5.51	4.80	3.62	1.85	2.44	700	1,079	20	22
rigid-N-I75-CS16092-09-18-2001	5.67	4.76	4.33	3.78	3.27	2.56	1.34	2.50	700	1,528	37	29
rigid-N-I75-CS16092-09-18-2001	9.21	7.44	6.77	5.94	5.20	3.98	2.17	2.53	700	765	38	18
rigid-N-I75-CS16092-09-18-2001	9.21	7.44	6.77	5.94	5.20	4.02	2.20	2.58	700	763	40	18
rigid-N-I75-CS16092-09-18-2001	8.74	6.97	6.38	5.63	4.84	3.66	1.97	2.61	700	815	33	19
rigid-N-I75-CS16092-09-18-2001	7.40	6.10	5.59	4.88	4.25	3.31	1.73	2.79	700	1,103	33	22
rigid-N-I75-CS16092-09-18-2001	9.92	7.80	7.09	6.18	5.43	4.13	2.24	2.93	700	623	41	17
rigid-N-I75-CS16092-09-18-2001	9.92	7.80	7.05	6.18	5.39	4.09	2.20	2.98	700	620	39	17

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-N-I75-CS160992-09-27-2001	5.98	5.16	4.72	4.25	3.74	2.87	1.69	1.05	700	1,538	48	23
rigid-N-I75-CS160992-09-27-2001	6.81	5.75	5.31	4.69	4.09	3.19	1.89	1.05	700	1,098	60	21
rigid-N-I75-CS160992-09-27-2001	5.87	5.12	4.65	4.17	3.70	2.91	1.73	1.13	700	1,528	61	23
rigid-N-I75-CS160992-09-27-2001	6.65	5.59	5.16	4.57	4.06	3.15	1.89	1.22	700	1,123	69	21
rigid-N-I75-CS160992-09-27-2001	8.23	7.09	6.61	5.94	5.28	4.09	2.40	1.26	700	1,272	29	16
rigid-N-I75-CS160992-09-27-2001	6.81	5.94	5.51	4.92	4.37	3.54	2.13	1.28	700	1,431	57	19
rigid-N-I75-CS160992-09-27-2001	5.47	4.72	4.33	3.90	3.43	2.72	1.61	1.30	700	1,638	66	24
rigid-N-I75-CS160992-09-27-2001	7.36	6.30	5.83	5.20	4.65	3.62	2.13	1.40	700	1,300	43	19
rigid-N-I75-CS160992-09-27-2001	6.85	5.79	5.31	4.65	4.06	3.07	1.69	1.42	700	1,268	31	23
rigid-N-I75-CS160992-09-27-2001	6.69	5.63	5.16	4.57	4.06	3.19	1.89	1.46	700	1,112	69	21
rigid-N-I75-CS160992-09-27-2001	7.24	6.02	5.55	4.84	4.17	3.11	1.69	1.47	700	1,167	30	24
rigid-N-I75-CS160992-09-27-2001	7.60	6.50	6.02	5.35	4.72	3.70	2.13	1.48	700	1,291	35	19
rigid-N-I75-CS160992-09-27-2001	6.77	5.71	5.20	4.57	4.02	3.07	1.73	1.51	700	1,184	43	22
rigid-N-I75-CS160992-09-27-2001	7.36	6.30	5.79	5.08	4.45	3.43	1.89	1.51	700	1,279	28	21
rigid-N-I75-CS160992-09-27-2001	9.13	7.68	7.01	6.18	5.39	4.17	2.36	1.54	700	862	35	16
rigid-N-I75-CS160992-09-27-2001	6.81	5.91	5.51	4.92	4.41	3.54	2.09	1.55	700	1,605	43	19
rigid-N-I75-CS160992-09-27-2001	9.53	7.99	7.36	6.38	5.63	4.29	2.40	1.57	700	858	30	16
rigid-N-I75-CS160992-09-27-2001	7.52	6.34	5.83	5.16	4.49	3.39	1.85	1.58	700	1,244	26	22
rigid-N-I75-CS160992-09-27-2001	7.36	6.34	5.79	5.12	4.49	3.46	1.89	1.59	700	1,340	25	21
rigid-N-I75-CS160992-09-27-2001	7.40	6.30	5.83	5.12	4.49	3.43	1.85	1.65	700	1,373	22	22
rigid-N-I75-CS160992-09-27-2001	8.15	6.89	6.30	5.51	4.80	3.62	1.93	1.66	700	1,141	22	21
rigid-N-I75-CS160992-09-27-2001	7.36	6.34	5.87	5.20	4.65	3.66	2.09	1.66	700	1,376	36	19
rigid-N-I75-CS160992-09-27-2001	10.00	8.50	7.83	6.93	6.10	4.69	2.60	1.67	700	919	23	15
rigid-N-I75-CS160992-09-27-2001	9.49	7.95	7.28	6.34	5.59	4.25	2.36	1.67	700	850	30	17

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-N-I75-CS160992-09-27-2001	5.47	4.72	4.33	3.90	3.43	2.76	1.61	1.68	700	1,693	63	24
rigid-N-I75-CS160992-09-27-2001	8.23	7.01	6.50	5.75	5.08	3.94	2.20	1.69	700	1,229	25	18
rigid-N-I75-CS160992-09-27-2001	9.69	8.11	7.52	6.54	5.71	4.37	2.40	1.71	700	887	25	16
rigid-N-I75-CS160992-09-27-2001	9.49	7.99	7.32	6.46	5.63	4.37	2.44	1.72	700	891	29	16
rigid-N-I75-CS160992-09-27-2001	9.69	8.19	7.52	6.61	5.91	4.45	2.48	1.73	700	947	24	16
rigid-N-I75-CS160992-09-27-2001	8.50	7.20	6.61	5.83	5.08	3.82	2.01	1.74	700	1,145	18	20
rigid-N-I75-CS160992-09-27-2001	6.97	5.79	5.28	4.61	4.02	2.99	1.61	1.75	700	1,188	32	25
rigid-N-I75-CS160992-09-27-2001	6.77	5.71	5.20	4.57	3.98	3.07	1.69	1.75	700	1,230	38	23
rigid-N-I75-CS160992-09-27-2001	7.52	6.42	5.94	5.20	4.57	3.54	1.93	1.75	700	1,241	27	20
rigid-N-I75-CS160992-09-27-2001	8.07	7.01	6.50	5.79	5.16	4.13	2.36	1.76	700	1,344	29	17
rigid-N-I75-CS160992-09-27-2001	6.97	5.91	5.43	4.76	4.17	3.23	1.77	1.80	700	1,327	33	23
rigid-N-I75-CS160992-09-27-2001	7.24	6.02	5.51	4.80	4.17	3.11	1.65	1.80	700	1,183	28	24
rigid-N-I75-CS160992-09-27-2001	8.15	6.89	6.34	5.51	4.84	3.66	1.93	1.85	700	1,194	20	21
rigid-N-I75-CS160992-09-27-2001	5.71	4.88	4.45	3.98	3.50	2.80	1.61	1.86	700	1,509	60	24
rigid-N-I75-CS160992-09-27-2001	8.11	7.01	6.46	5.83	5.16	4.13	2.36	1.88	700	1,329	29	17
rigid-N-I75-CS160992-09-27-2001	6.93	5.87	5.39	4.76	4.13	3.23	1.77	1.89	700	1,348	33	23
rigid-N-I75-CS160992-09-27-2001	9.69	8.15	7.52	6.65	5.87	4.53	2.52	1.90	700	952	25	16
rigid-N-I75-CS160992-09-27-2001	7.32	6.18	5.67	5.00	4.41	3.35	1.81	1.90	700	1,325	25	22
rigid-N-I75-CS160992-09-27-2001	9.13	7.68	7.05	6.22	5.43	4.25	2.36	1.93	700	939	31	17
rigid-N-I75-CS160992-09-27-2001	8.03	6.85	6.34	5.59	4.96	3.90	2.17	1.95	700	1,260	28	18
rigid-N-I75-CS160992-09-27-2001	7.24	6.14	5.71	5.00	4.41	3.39	1.81	1.95	700	1,481	20	23
rigid-N-I75-CS160992-09-27-2001	7.24	6.14	5.71	5.00	4.41	3.39	1.81	1.95	700	1,475	21	23
rigid-N-I75-CS160992-09-27-2001	10.20	8.43	7.72	6.69	5.79	4.25	2.17	1.96	700	861	15	18
rigid-N-I75-CS160992-09-27-2001	7.32	6.18	5.63	5.00	4.37	3.35	1.81	1.99	700	1,302	27	22

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-N-I75-CS160992-09-27-2001	9.65	7.91	7.28	6.26	5.39	3.98	2.05	1.99	700	864	18	19
rigid-N-I75-CS160992-09-27-2001	7.52	6.38	5.83	5.12	4.49	3.43	1.81	2.00	700	1,321	20	22
rigid-N-I75-CS160992-09-27-2001	6.97	5.79	5.31	4.61	3.98	2.99	1.54	2.06	700	1,284	23	26
rigid-N-I75-CS160992-09-27-2001	7.01	5.79	5.31	4.61	4.02	3.03	1.61	2.07	700	1,205	31	25
rigid-N-I75-CS160992-09-27-2001	7.32	6.18	5.67	5.00	4.37	3.35	1.77	2.08	700	1,376	22	23
rigid-N-I75-CS160992-09-27-2001	7.09	5.98	5.51	4.88	4.25	3.27	1.73	2.09	700	1,437	21	23
rigid-N-I75-CS160992-09-27-2001	7.20	5.94	5.43	4.72	4.09	3.07	1.61	2.10	700	1,141	29	24
rigid-N-I75-CS160992-09-27-2001	7.56	6.30	5.75	5.08	4.41	3.31	1.73	2.10	700	1,255	21	24
rigid-N-I75-CS160992-09-27-2001	7.13	6.02	5.51	4.84	4.25	3.27	1.73	2.18	700	1,397	22	23
rigid-N-I75-CS160992-09-27-2001	9.72	7.99	7.32	6.34	5.47	4.06	2.05	2.25	700	914	16	20
rigid-N-I75-CS160992-09-27-2001	8.03	6.81	6.30	5.55	4.92	3.90	2.13	2.35	700	1,283	26	19
rigid-N-I75-CS160992-09-27-2001	7.13	6.02	5.55	4.88	4.25	3.35	1.77	2.45	700	1,334	27	22
rigid-N-I75-CS160992-09-27-2001	5.83	4.84	4.33	3.78	3.31	2.52	1.30	2.70	700	1,453	33	30
rigid-N-I75-CS160992-09-27-2001	7.32	6.18	5.63	5.00	4.37	3.46	1.81	2.78	700	1,433	22	22
rigid-So-I196-CS3033-05-14-2008	9.25	8.15	7.52	6.77	6.02	4.76	2.72	1.32	700	1,247	21	13
rigid-So-I196-CS3033-05-14-2008	5.08	4.41	4.09	3.62	3.19	2.56	1.50	1.33	700	1,881	56	23
rigid-So-I196-CS3033-05-14-2008	9.25	8.23	7.56	6.81	6.02	4.80	2.72	1.36	700	1,273	19	13
rigid-So-I196-CS3033-05-14-2008	9.29	8.19	7.60	6.77	6.06	4.80	2.72	1.40	700	1,268	20	13
rigid-So-I69-CS12034-10-08-1998	13.03	10.67	9.84	8.54	7.28	5.43	2.95	1.65	700	936	27	21
rigid-So-I69-CS12034-10-08-1998	9.09	7.48	6.97	5.94	5.12	3.82	2.05	1.69	700	1,409	37	31
rigid-So-I69-CS12034-10-08-1998	10.71	8.82	8.15	7.09	6.06	4.49	2.32	1.89	700	1,320	24	28
rigid-So-I69-CS12034-10-09-1998	3.07	2.60	2.44	2.17	1.89	1.46	0.94	0.99	700	1,224	61	20
rigid-So-I69-CS12034-10-09-1998	9.69	8.15	7.60	6.77	5.94	4.69	2.87	1.32	700	1,355	58	22
rigid-So-I69-CS12034-10-09-1998	3.58	2.95	2.72	2.36	1.97	1.46	0.79	1.37	700	1,000	29	24

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-So-I69-CS12034-10-09-1998	11.73	9.61	8.90	7.64	6.50	4.80	2.60	1.46	700	1,016	30	24
rigid-So-I69-CS12034-10-09-1998	7.76	6.38	5.79	5.08	4.33	3.15	1.69	1.57	700	981	26	23
rigid-So-I69-CS12034-10-09-1998	11.77	9.61	8.86	7.68	6.61	4.96	2.68	1.92	700	1,055	30	23
rigid-So-I69-CS12033-12-18-2001	5.71	5.12	4.88	4.33	3.90	3.07	1.97	0.61	700	2,067	46	20
rigid-So-I69-CS12033-12-18-2001	6.26	5.71	5.39	4.84	4.29	3.50	2.20	0.69	700	2,075	36	18
rigid-So-I69-CS12033-12-18-2001	6.34	5.79	5.43	4.92	4.37	3.58	2.24	0.69	700	2,171	34	18
rigid-So-I69-CS12033-12-18-2001	5.71	5.16	4.84	4.37	3.86	3.15	1.97	0.72	700	2,173	42	20
rigid-So-I69-CS12033-12-18-2001	5.51	5.00	4.65	4.21	3.74	3.03	1.89	0.75	700	2,238	44	21
rigid-So-I69-CS12033-12-18-2001	6.26	5.75	5.39	4.84	4.33	3.54	2.20	0.76	700	2,225	32	19
rigid-So-I69-CS12033-12-18-2001	5.87	5.12	4.80	4.29	3.82	3.07	1.93	0.84	700	1,716	57	20
rigid-So-I69-CS12033-12-18-2001	5.87	5.12	4.76	4.25	3.78	3.03	1.89	0.85	700	1,623	56	21
rigid-So-I69-CS12033-12-18-2001	5.94	5.28	4.92	4.53	4.06	3.31	2.13	0.91	700	2,033	50	18
rigid-So-I69-CS12033-12-18-2001	6.14	5.39	5.08	4.61	4.13	3.39	2.20	0.92	700	1,771	61	18
rigid-So-I69-CS12033-12-18-2001	6.61	5.83	5.47	4.96	4.45	3.66	2.36	0.93	700	1,676	55	16
rigid-So-I69-CS12033-12-18-2001	5.39	4.69	4.45	4.02	3.54	2.87	1.85	0.94	700	1,881	66	21
rigid-So-I69-CS12033-12-18-2001	6.34	5.63	5.31	4.84	4.29	3.58	2.32	1.01	700	1,791	55	16
rigid-So-I69-CS12033-12-18-2001	6.42	5.63	5.31	4.76	4.25	3.50	2.24	1.01	700	1,620	57	17
rigid-So-I69-CS12033-12-18-2001	5.94	5.24	4.96	4.53	4.06	3.35	2.17	1.01	700	2,042	56	18
rigid-So-I69-CS12033-12-18-2001	6.65	5.71	5.35	4.76	4.21	3.39	2.13	1.02	700	1,313	55	18
rigid-So-I69-CS12033-12-18-2001	6.85	5.87	5.55	4.88	4.29	3.35	2.01	1.05	700	1,407	38	20
rigid-So-I69-CS12033-12-18-2001	5.87	5.08	4.76	4.29	3.82	3.07	1.93	1.06	700	1,715	58	20
rigid-So-I69-CS12033-12-18-2001	6.34	5.59	5.24	4.80	4.29	3.54	2.28	1.07	700	1,813	54	17
rigid-So-I69-CS12033-12-18-2001	5.43	4.76	4.49	4.09	3.66	3.03	1.97	1.07	700	2,041	69	20
rigid-So-I69-CS12033-12-18-2001	5.91	5.08	4.80	4.29	3.82	3.03	1.89	1.09	700	1,673	52	21

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-So-I69-CS12033-12-18-2001	5.51	4.84	4.61	4.13	3.74	3.07	1.97	1.11	700	2,070	60	19
rigid-So-I69-CS12033-12-18-2001	5.51	4.76	4.49	4.06	3.58	2.91	1.85	1.12	700	1,799	63	21
rigid-So-I69-CS12033-12-18-2001	6.61	5.79	5.43	4.96	4.45	3.66	2.36	1.13	700	1,686	55	16
rigid-So-I69-CS12033-12-18-2001	5.79	4.96	4.65	4.17	3.70	2.99	1.89	1.15	700	1,571	65	20
rigid-So-I69-CS12033-12-18-2001	5.98	5.28	4.92	4.53	4.02	3.35	2.17	1.16	700	1,861	63	18
rigid-So-I69-CS12033-12-18-2001	5.47	4.72	4.41	3.98	3.54	2.87	1.81	1.18	700	1,767	66	21
rigid-So-I69-CS12033-12-18-2001	6.10	5.31	4.88	4.41	3.90	3.11	1.89	1.18	700	1,602	47	21
rigid-So-I69-CS12033-12-18-2001	6.61	5.83	5.51	4.96	4.45	3.70	2.36	1.19	700	1,700	52	16
rigid-So-I69-CS12033-12-18-2001	6.34	5.43	5.08	4.49	3.94	3.11	1.85	1.20	700	1,453	43	21
rigid-So-I69-CS12033-12-18-2001	6.38	5.51	5.12	4.53	3.98	3.15	1.85	1.24	700	1,532	39	21
rigid-So-I69-CS12033-12-18-2001	5.87	5.04	4.72	4.21	3.78	3.03	1.89	1.26	700	1,640	59	21
rigid-So-I69-CS12033-12-18-2001	6.18	5.35	5.00	4.45	3.94	3.15	1.89	1.26	700	1,645	43	21
rigid-So-I69-CS12033-12-18-2001	5.55	4.80	4.53	4.06	3.62	2.95	1.85	1.26	700	1,852	60	21
rigid-So-I69-CS12033-12-18-2001	6.14	5.31	4.96	4.53	4.06	3.31	2.13	1.26	700	1,649	63	18
rigid-So-I69-CS12033-12-18-2001	6.85	5.91	5.47	4.84	4.25	3.31	1.89	1.27	700	1,463	31	21
rigid-So-I69-CS12033-12-18-2001	6.02	5.16	4.80	4.29	3.82	3.03	1.85	1.27	700	1,614	50	21
rigid-So-I69-CS12033-12-18-2001	6.02	5.28	4.88	4.37	3.90	3.11	1.85	1.27	700	1,831	40	22
rigid-So-I69-CS12033-12-18-2001	6.22	5.43	5.08	4.61	4.09	3.35	2.09	1.28	700	1,711	51	18
rigid-So-I69-CS12033-12-18-2001	5.91	5.12	4.76	4.29	3.78	3.07	1.89	1.28	700	1,666	55	21
rigid-So-I69-CS12033-12-18-2001	6.26	5.43	5.08	4.61	4.09	3.39	2.17	1.28	700	1,576	63	18
rigid-So-I69-CS12033-12-18-2001	6.50	5.71	5.39	4.92	4.41	3.70	2.40	1.30	700	1,759	59	16
rigid-So-I69-CS12033-12-18-2001	5.94	5.12	4.76	4.25	3.74	3.03	1.85	1.32	700	1,577	55	21
rigid-So-I69-CS12033-12-18-2001	5.39	4.72	4.49	4.09	3.66	3.03	1.93	1.32	700	2,280	58	20
rigid-So-I69-CS12033-12-18-2001	5.31	4.57	4.33	3.86	3.50	2.87	1.85	1.33	700	1,822	80	21

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-So-I69-CS12033-12-18-2001	6.06	5.35	4.96	4.53	4.02	3.31	2.05	1.36	700	1,862	49	19
rigid-So-I69-CS12033-12-18-2001	5.94	5.12	4.76	4.29	3.78	3.07	1.89	1.36	700	1,630	56	21
rigid-So-I69-CS12033-12-18-2001	6.38	5.47	5.08	4.53	3.94	3.11	1.81	1.37	700	1,517	38	22
rigid-So-I69-CS12033-12-18-2001	6.18	5.43	5.08	4.61	4.13	3.46	2.20	1.44	700	1,791	59	18
rigid-So-I69-CS12033-12-18-2001	6.18	5.31	4.96	4.45	3.94	3.15	1.89	1.45	700	1,671	44	21
rigid-So-I69-CS12033-12-18-2001	5.87	5.04	4.72	4.21	3.78	3.03	1.85	1.48	700	1,708	53	21
rigid-So-I69-CS12033-12-18-2001	6.69	5.75	5.31	4.72	4.13	3.27	1.89	1.48	700	1,460	35	21
rigid-So-I69-CS12033-12-18-2001	6.81	5.83	5.47	4.80	4.21	3.31	1.89	1.49	700	1,493	32	22
rigid-So-I69-CS12033-12-18-2001	6.77	5.79	5.35	4.72	4.17	3.27	1.89	1.49	700	1,415	36	21
rigid-So-I69-CS12033-12-18-2001	5.67	4.92	4.65	4.17	3.70	3.03	1.85	1.51	700	1,890	51	21
rigid-So-I69-CS12033-12-18-2001	6.10	5.28	4.92	4.37	3.90	3.15	1.89	1.52	700	1,691	46	21
rigid-So-I69-CS12033-12-18-2001	6.26	5.35	5.00	4.45	3.90	3.15	1.89	1.53	700	1,524	48	21
rigid-So-I69-CS12033-12-18-2001	6.14	5.35	5.04	4.57	4.06	3.39	2.13	1.54	700	1,778	55	18
rigid-So-I69-CS12033-12-18-2001	6.14	5.24	4.88	4.33	3.86	3.03	1.77	1.60	700	1,635	39	22
rigid-So-I69-CS12033-12-18-2001	5.98	5.12	4.76	4.25	3.74	3.03	1.81	1.66	700	1,607	51	22
rigid-So-I69-CS12033-12-18-2001	6.26	5.35	5.00	4.45	3.90	3.15	1.85	1.74	700	1,604	42	21
rigid-So-I69-CS12033-12-18-2001	5.59	4.80	4.49	4.09	3.66	2.99	1.85	1.75	700	1,914	58	21
rigid-So-I69-CS12033-12-18-2001	6.65	5.63	5.28	4.72	4.21	3.39	2.05	1.81	700	1,444	48	19
rigid-So-I69-CS12033-12-18-2001	6.85	5.79	5.39	4.80	4.25	3.31	1.89	1.83	700	1,446	33	21
rigid-So-I69-CS12033-12-18-2001	6.61	5.63	5.24	4.72	4.17	3.43	2.09	1.87	700	1,407	54	18
rigid-So-I69-CS12034-09-11-2001	3.94	3.46	3.27	2.95	2.64	2.09	1.26	1.05	700	3,143	46	32
rigid-So-I69-CS12034-09-11-2001	5.98	5.31	4.96	4.49	4.06	3.39	2.17	1.27	700	1,884	56	17
rigid-So-I69-CS12034-09-11-2001	3.94	3.50	3.27	2.95	2.64	2.13	1.26	1.28	700	3,289	41	32
rigid-So-I69-CS12034-09-11-2001	4.13	3.62	3.35	3.03	2.72	2.17	1.30	1.38	700	2,760	52	30

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-So-I69-CS12034-09-11-2001	5.83	5.12	4.80	4.37	3.94	3.31	2.13	1.45	700	1,871	64	17
rigid-So-I69-CS12034-09-11-2001	5.43	4.69	4.29	3.82	3.39	2.60	1.46	1.48	700	1,852	33	27
rigid-So-I69-CS12034-09-11-2001	4.13	3.54	3.31	2.99	2.68	2.13	1.30	1.53	700	2,433	65	29
rigid-So-I69-CS12034-09-11-2001	7.72	6.57	5.98	5.24	4.65	3.58	2.05	1.53	700	1,059	32	18
rigid-So-I69-CS12034-09-11-2001	4.69	4.06	3.78	3.35	3.03	2.40	1.42	1.59	700	2,289	50	28
rigid-So-I69-CS12034-09-11-2001	3.98	3.43	3.11	2.80	2.44	1.89	1.06	1.59	700	2,392	46	36
rigid-So-I69-CS12034-09-11-2001	4.17	3.66	3.35	3.03	2.64	2.17	1.30	1.64	700	2,283	64	28
rigid-So-I69-CS12034-09-11-2001	4.09	3.54	3.31	2.95	2.68	2.13	1.26	1.72	700	2,783	50	31
rigid-So-I69-CS12034-09-11-2001	4.13	3.58	3.31	2.95	2.64	2.13	1.26	1.73	700	2,388	60	30
rigid-So-I69-CS12034-09-11-2001	3.90	3.31	3.03	2.68	2.36	1.85	1.06	1.73	700	2,204	61	35
rigid-So-I69-CS12034-09-11-2001	4.29	3.74	3.50	3.11	2.76	2.24	1.30	1.74	700	2,581	46	30
rigid-So-I69-CS12034-09-11-2001	5.47	4.72	4.33	3.82	3.39	2.64	1.46	1.76	700	1,866	31	27
rigid-So-I69-CS12034-09-11-2001	7.44	6.34	5.79	5.04	4.45	3.43	1.89	1.76	700	1,172	27	20
rigid-So-I69-CS12034-09-11-2001	4.06	3.46	3.19	2.80	2.48	1.89	1.02	1.77	700	2,524	36	40
rigid-So-I69-CS12034-09-11-2001	3.98	3.46	3.19	2.87	2.56	2.05	1.18	1.84	700	2,807	46	33
rigid-So-I69-CS12034-09-11-2001	7.44	6.34	5.75	5.04	4.41	3.43	1.89	1.86	700	1,136	29	20
rigid-So-I69-CS12034-09-11-2001	4.09	3.58	3.31	2.99	2.68	2.17	1.26	1.89	700	2,974	44	31
rigid-So-I69-CS12034-09-11-2001	4.21	3.54	3.27	2.87	2.52	1.97	1.10	1.97	700	2,106	51	35
rigid-So-I69-CS12034-09-11-2001	4.41	3.74	3.35	2.95	2.60	1.97	1.06	2.05	700	1,937	42	36
rigid-So-I69-CS12034-09-11-2001	3.94	3.43	3.15	2.83	2.52	2.05	1.18	2.09	700	2,778	50	32
rigid-So-I69-CS12034-09-11-2001	3.98	3.43	3.11	2.80	2.44	1.93	1.06	2.10	700	2,471	45	37
rigid-So-I69-CS12034-09-11-2001	4.25	3.62	3.31	2.91	2.56	2.01	1.10	2.10	700	2,164	44	35
rigid-So-I69-CS12034-09-11-2001	4.69	4.06	3.70	3.35	2.95	2.40	1.38	2.17	700	2,181	47	27
rigid-So-I69-CS12034-09-11-2001	3.74	3.19	2.91	2.56	2.28	1.81	1.02	2.19	700	2,379	62	37

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-So-I69-CS12034-09-11-2001	4.37	3.66	3.31	2.91	2.56	1.93	1.02	2.21	700	1,995	39	38
rigid-So-I69-CS12034-09-11-2001	4.29	3.74	3.46	3.11	2.76	2.28	1.30	2.32	700	2,737	43	30
rigid-So-I69-CS12034-09-11-2001	4.09	3.50	3.23	2.91	2.60	2.09	1.18	2.38	700	2,715	44	33
rigid-So-I69-CS12034-09-11-2001	4.33	3.66	3.31	2.91	2.56	1.97	1.02	2.50	700	2,173	34	38
rigid-So-I69-CS12034-09-11-2001	3.78	3.19	2.91	2.60	2.32	1.89	1.10	2.53	700	2,320	77	34
rigid-So-I69-CS12034-09-11-2001	4.21	3.58	3.27	2.87	2.52	2.05	1.10	2.93	700	2,283	45	35
rigid-So-I94-CS11081-11-18-2002	7.72	6.85	6.34	5.75	5.08	4.02	2.36	0.86	300	1,443	32	13
rigid-So-I94-CS11081-11-18-2002	9.13	8.15	7.64	6.89	6.14	5.00	3.07	0.87	300	1,290	35	10
rigid-So-I94-CS11081-11-18-2002	7.87	6.97	6.46	5.87	5.24	4.13	2.44	0.92	300	1,451	32	13
rigid-So-I94-CS11081-11-18-2002	7.17	6.34	5.79	5.24	4.61	3.62	2.09	1.00	300	1,439	36	15
rigid-So-I94-CS11081-11-18-2002	7.91	6.97	6.46	5.87	5.20	4.13	2.44	1.00	300	1,388	34	13
rigid-So-I94-CS11081-11-18-2002	8.70	7.72	7.17	6.50	5.83	4.65	2.76	1.03	300	1,341	30	11
rigid-So-I94-CS11081-11-18-2002	8.66	7.68	7.13	6.50	5.79	4.61	2.72	1.03	300	1,359	28	12
rigid-So-I94-CS11081-11-18-2002	7.76	6.85	6.38	5.75	5.12	4.09	2.40	1.07	300	1,452	33	13
rigid-So-I94-CS11081-11-18-2002	8.70	7.68	7.17	6.54	5.83	4.65	2.76	1.08	300	1,365	29	11
rigid-So-I94-CS11081-11-18-2002	7.17	6.30	5.79	5.20	4.65	3.62	2.09	1.08	300	1,462	36	15
rigid-So-I94-CS11081-11-18-2002	7.80	6.93	6.42	5.83	5.20	4.13	2.40	1.09	300	1,547	28	13
rigid-So-I94-CS11081-11-18-2002	6.46	5.71	5.28	4.76	4.25	3.35	1.93	1.11	300	1,770	36	17
rigid-So-I94-CS11081-11-18-2002	10.39	9.17	8.50	7.72	6.85	5.35	3.03	1.11	300	1,186	18	11
rigid-So-I94-CS11081-11-18-2002	7.76	6.85	6.34	5.75	5.12	4.06	2.36	1.15	300	1,473	31	13
rigid-So-I94-CS11081-11-18-2002	9.37	8.15	7.52	6.73	5.98	4.61	2.60	1.16	300	1,101	25	12
rigid-So-I94-CS11081-11-18-2002	6.42	5.71	5.24	4.76	4.25	3.35	1.93	1.17	300	1,832	34	17
rigid-So-I94-CS11081-11-18-2002	9.13	8.11	7.52	6.89	6.14	5.00	3.03	1.17	300	1,275	34	10
rigid-So-I94-CS11081-11-18-2002	10.39	9.17	8.54	7.72	6.85	5.39	3.03	1.18	300	1,210	17	11

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-So-I94-CS11081-11-18-2002	10.35	9.13	8.50	7.68	6.85	5.39	3.03	1.26	300	1,228	17	11
rigid-So-I94-CS11081-11-18-2002	9.96	8.66	8.03	7.09	6.18	4.76	2.52	1.27	300	1,076	17	13
rigid-So-I94-CS11081-11-18-2002	7.83	6.81	6.30	5.67	5.00	3.86	2.13	1.28	300	1,422	25	15
rigid-So-I94-CS11081-11-18-2002	9.17	8.15	7.56	6.89	6.18	5.04	3.03	1.28	300	1,299	33	10
rigid-So-I94-CS11081-11-18-2002	7.76	6.77	6.30	5.59	4.92	3.86	2.13	1.30	300	1,390	27	15
rigid-So-I94-CS11081-11-18-2002	9.88	8.50	7.83	6.93	6.10	4.65	2.52	1.30	300	1,005	21	13
rigid-So-I94-CS11081-11-18-2002	7.99	6.97	6.46	5.79	5.08	3.98	2.20	1.30	300	1,369	25	15
rigid-So-I94-CS11081-11-18-2002	6.50	5.75	5.31	4.80	4.25	3.39	1.93	1.31	300	1,795	34	17
rigid-So-I94-CS11081-11-18-2002	10.43	9.13	8.39	7.56	6.61	5.12	2.76	1.33	300	1,095	16	12
rigid-So-I94-CS11081-11-18-2002	9.80	8.46	7.83	6.93	6.06	4.65	2.48	1.34	300	1,058	19	13
rigid-So-I94-CS11081-11-18-2002	9.92	8.62	7.99	7.05	6.18	4.76	2.52	1.35	300	1,081	17	13
rigid-So-I94-CS11081-11-18-2002	7.95	6.93	6.42	5.79	5.16	4.06	2.32	1.37	300	1,395	30	14
rigid-So-I94-CS11081-11-18-2002	9.37	8.15	7.52	6.69	5.94	4.65	2.60	1.38	300	1,092	25	12
rigid-So-I94-CS11081-11-18-2002	8.50	7.40	6.81	6.10	5.39	4.17	2.28	1.38	300	1,304	22	15
rigid-So-I94-CS11081-11-18-2002	7.64	6.69	6.18	5.59	4.92	3.90	2.20	1.39	300	1,481	29	15
rigid-So-I94-CS11081-11-18-2002	7.99	7.01	6.46	5.75	5.08	4.02	2.24	1.40	300	1,326	29	14
rigid-So-I94-CS11081-11-18-2002	7.87	6.89	6.42	5.79	5.12	4.06	2.28	1.40	300	1,505	25	14
rigid-So-I94-CS11081-11-18-2002	9.88	8.50	7.83	6.97	6.14	4.65	2.48	1.41	300	1,057	18	13
rigid-So-I94-CS11081-11-18-2002	6.77	5.87	5.47	4.88	4.33	3.39	1.89	1.42	300	1,615	31	17
rigid-So-I94-CS11081-11-18-2002	6.77	5.87	5.47	4.88	4.33	3.39	1.89	1.42	300	1,617	31	17
rigid-So-I94-CS11081-11-18-2002	7.64	6.69	6.18	5.55	4.92	3.90	2.20	1.42	300	1,436	30	15
rigid-So-I94-CS11081-11-18-2002	8.43	7.36	6.85	6.06	5.35	4.17	2.24	1.42	300	1,357	20	15
rigid-So-I94-CS11081-11-18-2002	9.37	8.15	7.48	6.73	5.94	4.65	2.60	1.43	300	1,100	25	12
rigid-So-I94-CS11081-11-18-2002	7.91	6.93	6.46	5.75	5.16	4.09	2.32	1.43	300	1,455	28	14

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-So-I94-CS11081-11-18-2002	7.99	6.97	6.42	5.75	5.08	3.98	2.20	1.43	300	1,348	27	15
rigid-So-I94-CS11081-11-18-2002	8.43	7.36	6.81	6.10	5.35	4.17	2.24	1.44	300	1,384	19	15
rigid-So-I94-CS11081-11-18-2002	7.80	6.77	6.26	5.59	4.96	3.86	2.13	1.45	300	1,390	27	15
rigid-So-I94-CS11081-11-18-2002	7.68	6.73	6.18	5.55	4.92	3.90	2.20	1.46	300	1,399	31	15
rigid-So-I94-CS11081-11-18-2002	10.43	9.13	8.39	7.56	6.61	5.16	2.76	1.52	300	1,099	16	12
rigid-So-I94-CS11081-11-18-2002	10.39	9.09	8.31	7.52	6.57	5.12	2.76	1.53	300	1,099	17	12
rigid-So-I94-CS11081-11-18-2002	10.63	9.13	8.46	7.48	6.50	5.04	2.68	1.55	300	953	19	12
rigid-So-I94-CS11081-11-18-2002	7.17	6.30	5.79	5.16	4.61	3.66	2.05	1.58	300	1,507	33	16
rigid-So-I94-CS11081-11-18-2002	6.77	5.83	5.43	4.88	4.29	3.39	1.89	1.63	300	1,587	33	17
rigid-So-I94-CS11081-11-18-2002	10.55	9.09	8.31	7.40	6.42	4.96	2.60	1.67	300	966	18	13
rigid-So-I94-CS11081-11-18-2002	9.96	8.62	7.83	7.05	6.18	4.76	2.52	1.75	300	1,075	18	13
rigid-So-I94-CS11081-11-18-2002	10.63	9.17	8.35	7.48	6.50	5.04	2.64	1.82	300	976	17	13
rigid-So-I94-CS11081-11-18-2002	10.04	8.35	7.68	6.85	6.06	4.69	2.64	1.95	300	808	32	12
rigid-So-I94-CS11081-11-18-2002	10.08	8.39	7.68	6.85	6.06	4.69	2.60	2.10	300	812	31	12
rigid-So-I94-CS11081-11-18-2002	10.08	8.35	7.68	6.85	6.06	4.69	2.60	2.18	300	820	30	12
rigid-So-I94-CS11081-10-28-2004	12.80	11.26	10.47	9.21	8.19	6.38	3.62	0.92	300	761	18	8
rigid-So-I94-CS11081-10-28-2004	8.86	7.72	7.09	6.22	5.51	4.29	2.44	1.03	300	964	31	12
rigid-So-I94-CS11081-10-28-2004	8.07	7.05	6.50	5.71	5.08	3.98	2.28	1.08	300	1,117	34	13
rigid-So-I94-CS11081-10-28-2004	9.33	8.35	7.72	6.85	6.22	5.00	2.99	1.15	300	1,109	32	10
rigid-So-I94-CS11081-10-28-2004	9.41	8.35	7.72	6.89	6.22	5.04	3.03	1.21	300	1,081	34	10
rigid-So-I94-CS11081-10-28-2004	9.96	8.78	8.07	7.17	6.46	5.20	3.11	1.23	300	915	35	9
rigid-So-I94-CS11081-10-28-2004	6.77	5.94	5.47	4.84	4.41	3.46	2.05	1.25	300	1,318	48	14
rigid-So-I94-CS11081-10-28-2004	9.33	8.23	7.56	6.69	5.98	4.69	2.64	1.27	300	1,071	25	12
rigid-So-I94-CS11081-10-28-2004	6.73	5.94	5.47	4.84	4.37	3.46	2.01	1.28	300	1,432	42	15

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-So-I94-CS11081-10-28-2004	7.28	6.30	5.75	5.12	4.57	3.62	2.13	1.28	300	1,133	49	14
rigid-So-I94-CS11081-10-28-2004	8.86	7.68	7.05	6.18	5.51	4.33	2.48	1.29	300	942	34	12
rigid-So-I94-CS11081-10-28-2004	8.35	7.28	6.65	5.91	5.28	4.13	2.36	1.31	300	1,085	33	13
rigid-So-I94-CS11081-10-28-2004	9.45	8.35	7.76	6.89	6.26	5.04	2.99	1.36	300	1,095	32	10
rigid-So-I94-CS11081-10-28-2004	7.28	6.30	5.79	5.12	4.57	3.62	2.09	1.40	300	1,186	44	14
rigid-So-I94-CS11081-10-28-2004	9.25	8.11	7.44	6.50	5.83	4.49	2.44	1.45	300	1,069	21	13
rigid-So-I94-CS11081-10-28-2004	8.66	7.56	6.97	6.10	5.43	4.21	2.28	1.46	300	1,141	23	14
rigid-So-I94-CS11081-10-28-2004	9.25	8.15	7.52	6.65	5.98	4.69	2.60	1.48	300	1,168	22	12
rigid-So-I94-CS11081-10-28-2004	8.70	7.60	6.97	6.10	5.51	4.25	2.36	1.49	300	1,111	26	13
rigid-So-I94-CS11081-10-28-2004	9.09	8.03	7.40	6.57	5.91	4.76	2.76	1.50	300	1,123	31	11
rigid-So-I94-CS11081-10-28-2004	8.70	7.60	6.97	6.14	5.51	4.25	2.32	1.51	300	1,151	23	13
rigid-So-I94-CS11081-10-28-2004	8.62	7.52	6.89	6.02	5.39	4.17	2.28	1.52	300	1,110	25	14
rigid-So-I94-CS11081-10-28-2004	9.96	8.78	8.07	7.17	6.42	5.20	3.03	1.53	300	946	31	10
rigid-So-I94-CS11081-10-28-2004	8.31	7.28	6.69	5.91	5.28	4.17	2.32	1.58	300	1,187	28	13
rigid-So-I94-CS11081-10-28-2004	8.11	7.01	6.42	5.67	5.04	3.98	2.24	1.59	300	1,082	35	13
rigid-So-I94-CS11081-10-28-2004	7.36	6.26	5.79	5.08	4.61	3.62	2.13	1.59	300	1,124	48	14
rigid-So-I94-CS11081-10-28-2004	8.23	7.05	6.50	5.71	5.12	4.02	2.28	1.64	300	1,052	36	13
rigid-So-I94-CS11081-10-28-2004	8.19	7.05	6.46	5.71	5.12	4.02	2.28	1.64	300	1,076	35	13
rigid-So-I94-CS11081-10-28-2004	9.25	8.15	7.48	6.61	5.91	4.69	2.60	1.65	300	1,128	23	12
rigid-So-I94-CS11081-10-28-2004	8.35	7.28	6.69	5.91	5.31	4.17	2.32	1.65	300	1,193	28	13
rigid-So-I94-CS11081-10-28-2004	8.50	7.36	6.73	5.87	5.24	4.02	2.13	1.74	300	1,128	22	15
rigid-So-I94-CS11081-10-28-2004	8.70	7.60	6.97	6.06	5.47	4.25	2.32	1.74	300	1,109	25	13
rigid-So-I94-CS11081-10-28-2004	7.44	6.18	5.67	5.00	4.49	3.54	2.09	1.74	300	895	59	14
rigid-So-I94-CS11081-10-28-2004	8.54	7.44	6.81	5.91	5.24	4.06	2.13	1.78	300	1,127	22	15

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-So-I94-CS11081-10-28-2004	7.05	5.94	5.47	4.80	4.37	3.50	2.09	1.83	300	1,004	64	14
rigid-So-I94-CS11081-10-28-2004	9.37	8.19	7.48	6.57	5.91	4.61	2.48	1.90	300	1,061	22	13
rigid-So-I94-CS11081-10-28-2004	8.90	7.52	6.97	6.22	5.71	4.69	2.91	1.92	300	813	62	10
rigid-So-I94-CS11081-10-28-2004	8.94	7.44	6.93	6.14	5.63	4.65	2.91	1.94	300	722	69	10
rigid-So-I94-CS11081-10-28-2004	8.39	7.24	6.65	5.71	5.08	3.90	2.01	1.95	300	1,118	22	16
rigid-So-I94-CS11081-10-28-2004	7.52	6.22	5.71	5.00	4.49	3.54	2.05	1.97	300	887	55	14
rigid-So-I94-CS11081-10-28-2004	9.45	7.72	7.09	6.22	5.51	4.29	2.44	2.00	300	681	41	12
rigid-So-I94-CS11081-10-28-2004	11.57	10.04	9.13	7.99	7.05	5.39	2.68	2.02	300	891	11	12
rigid-So-I94-CS11081-10-28-2004	8.82	7.44	6.89	6.14	5.71	4.65	2.87	2.20	300	816	62	10
rigid-So-I94-CS11081-10-28-2004	9.45	7.68	7.01	6.14	5.47	4.25	2.40	2.22	300	676	42	12
rigid-So-I94-CS11081-10-28-2004	7.48	6.22	5.67	5.00	4.49	3.58	2.05	2.26	300	911	55	14
rigid-So-I94-CS11081-10-28-2004	9.53	7.68	7.05	6.14	5.51	4.25	2.40	2.36	300	656	42	12
rigid-So-I94-CS11081-10-28-2004	9.96	8.23	7.64	6.89	6.26	5.04	3.03	2.37	300	726	46	9
rigid-So-I94-CS11081-10-30-2001	8.58	7.48	7.01	6.22	5.59	4.37	2.60	0.89		1,166	35	12
rigid-So-I94-CS11081-10-30-2001	8.58	7.52	7.05	6.26	5.63	4.41	2.60	0.92		1,228	32	12
rigid-So-I94-CS11081-10-30-2001	9.88	8.66	8.19	7.36	6.61	5.28	3.19	1.01		1,120	30	10
rigid-So-I94-CS11081-10-30-2001	9.69	8.58	7.99	7.17	6.50	5.16	3.07	1.07		1,183	29	10
rigid-So-I94-CS11081-10-30-2001	8.70	7.60	7.09	6.34	5.67	4.49	2.64	1.09		1,187	32	12
rigid-So-I94-CS11081-10-30-2001	9.65	8.50	7.99	7.17	6.46	5.16	3.03	1.20		1,247	26	10
rigid-So-US31-CS11057-05-14-2008	5.15	4.80	4.64	4.31	4.01	3.31	2.14	0.62	250	4,737	19	14
rigid-So-US31-CS11057-05-14-2008	8.30	7.26	6.77	6.03	5.25	3.95	2.05	0.86	250	1,362	16	15
rigid-So-US31-CS11057-05-14-2008	5.30	4.77	4.46	4.13	3.69	2.94	1.75	0.87	250	2,651	37	17
rigid-So-US31-CS11057-05-14-2008	5.19	4.77	4.67	4.38	3.96	3.33	2.20	0.93	250	4,175	35	13
rigid-So-US31-CS11057-05-14-2008	4.93	4.52	4.32	4.07	3.74	3.09	1.95	0.95	250	4,600	21	16

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-So-US31-CS11057-05-14-2008	4.90	4.50	4.29	4.02	3.70	3.06	1.93	0.98	250	4,430	23	16
rigid-So-US31-CS11057-05-14-2008	4.13	3.74	3.56	3.26	3.00	2.42	1.45	1.01	250	4,324	31	21
rigid-So-US31-CS11057-05-14-2008	8.26	7.24	6.69	6.02	5.24	3.96	2.06	1.02	250	1,382	16	15
rigid-So-US31-CS11057-05-14-2008	4.76	4.33	4.21	3.96	3.64	3.04	1.94	1.13	250	5,192	17	16
rigid-So-US31-CS11057-05-14-2008	8.32	7.25	6.74	6.05	5.31	3.98	2.05	1.15	250	1,422	14	16
rigid-So-US31-CS11057-05-14-2008	4.88	4.45	4.28	4.03	3.74	3.09	1.95	1.17	250	5,039	14	17
rigid-So-US31-CS11057-05-14-2008	4.67	4.26	4.13	3.88	3.62	3.04	1.96	1.22	250	5,638	15	16
rigid-So-US31-CS11057-05-14-2008	5.31	4.75	4.42	4.12	3.71	2.97	1.76	1.30	250	2,698	38	16
rigid-So-US31-CS11057-05-14-2008	4.17	3.73	3.55	3.32	3.01	2.43	1.46	1.31	250	4,325	31	21
rigid-So-US31-CS11057-05-14-2008	4.78	4.37	4.16	3.99	3.69	3.04	1.95	1.36	250	5,240	16	16
rigid-So-US31-CS11057-05-14-2008	4.76	4.33	4.16	3.98	3.64	3.06	1.94	1.41	250	5,430	13	17
rigid-So-US31-CS11057-05-14-2008	4.17	3.67	3.49	3.19	2.89	2.32	1.35	1.50	250	3,517	43	22
rigid-So-US31-CS11057-05-14-2008	6.71	5.60	5.21	4.65	4.01	3.02	1.64	1.53	250	1,256	38	17
rigid-So-US31-CS11057-05-14-2008	5.34	4.73	4.41	4.13	3.72	2.99	1.78	1.56	250	2,709	39	16
rigid-So-US31-CS11057-05-14-2008	4.67	4.25	4.04	3.88	3.61	3.01	1.93	1.61	250	5,569	15	16
rigid-So-US31-CS11057-05-14-2008	6.71	5.63	5.16	4.63	4.01	3.04	1.63	1.68	250	1,278	37	18
rigid-So-US31-CS11057-05-14-2008	4.19	3.71	3.47	3.22	2.92	2.35	1.35	1.75	250	3,824	33	23
rigid-So-US31-CS11057-05-14-2008	6.69	5.63	5.18	4.63	4.06	3.06	1.61	1.82	250	1,381	32	18
rigid-So-US31-CS11057-05-14-2008	4.19	3.69	3.44	3.22	2.97	2.31	1.35	1.99	250	3,783	34	23
rigid-So-US31-CS11057-10-09-2001	7.68	6.57	6.10	5.39	4.76	3.74	2.17	1.46	700	1,228	31	18
rigid-So-US31-CS11057-10-09-2001	7.48	6.50	5.94	5.31	4.72	3.74	2.13	1.78	700	1,407	27	19
rigid-So-US31-CS11057-10-09-2001	7.76	6.54	6.02	5.35	4.80	3.78	2.20	2.07	700	1,201	35	18
rigid-So-US31-CS11057-10-09-2001	7.68	6.42	5.87	5.24	4.65	3.66	2.13	2.10	700	1,109	38	18
rigid-So-US31-CS11057-10-09-2001	7.68	6.50	5.94	5.31	4.72	3.74	2.13	2.23	700	1,222	33	18

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-So-US31-CS11057-10-30-2001	6.57	5.94	5.55	5.08	4.61	3.66	2.32	0.59	700	2,140	31	18
rigid-So-US31-CS11057-10-30-2001	7.48	6.61	6.10	5.47	4.88	3.94	2.52	0.60	700	1,253	49	15
rigid-So-US31-CS11057-10-30-2001	6.73	6.06	5.63	5.08	4.53	3.54	2.05	0.66	700	2,031	18	21
rigid-So-US31-CS11057-10-30-2001	12.28	10.87	10.16	9.25	8.31	6.73	4.37	0.67	700	890	28	9
rigid-So-US31-CS11057-10-30-2001	6.73	6.06	5.63	5.04	4.49	3.54	2.09	0.67	700	1,883	24	20
rigid-So-US31-CS11057-10-30-2001	12.56	11.18	10.51	9.53	8.58	6.97	4.49	0.77	700	925	23	9
rigid-So-US31-CS11057-10-30-2001	6.93	6.22	5.87	5.35	4.80	3.86	2.44	0.78	700	1,952	30	16
rigid-So-US31-CS11057-10-30-2001	12.24	10.87	10.16	9.21	8.27	6.73	4.29	0.79	700	929	25	9
rigid-So-US31-CS11057-10-30-2001	6.57	5.91	5.55	5.08	4.53	3.70	2.28	0.93	700	2,208	28	18
rigid-So-US31-CS11057-10-30-2001	6.26	5.43	5.08	4.61	4.13	3.43	2.28	0.96	700	1,428	81	17
rigid-So-US31-CS11057-10-30-2001	6.73	6.10	5.67	5.12	4.49	3.58	2.05	0.98	700	1,987	17	21
rigid-So-US31-CS11057-10-30-2001	7.76	6.85	6.38	5.75	5.20	4.25	2.72	0.98	700	1,366	46	14
rigid-So-US31-CS11057-10-30-2001	7.48	6.57	6.06	5.47	4.88	3.98	2.52	1.01	700	1,278	49	15
rigid-So-US31-CS11057-10-30-2001	8.07	7.09	6.65	5.98	5.39	4.45	2.87	1.04	700	1,267	47	13
rigid-So-US31-CS11057-10-30-2001	7.80	6.85	6.38	5.75	5.20	4.25	2.72	1.06	700	1,319	48	14
rigid-So-US31-CS11057-10-30-2001	10.04	8.90	8.31	7.72	6.97	5.83	3.90	1.10	700	1,160	41	9
rigid-So-US31-CS11057-10-30-2001	7.87	6.89	6.38	5.79	5.16	4.17	2.60	1.11	700	1,292	39	15
rigid-So-US31-CS11057-10-30-2001	9.49	8.39	7.91	7.20	6.54	5.47	3.58	1.17	700	1,228	41	11
rigid-So-US31-CS11057-10-30-2001	6.38	5.59	5.16	4.72	4.21	3.54	2.32	1.25	700	1,448	73	16
rigid-So-US31-CS11057-10-30-2001	6.22	5.39	5.08	4.61	4.09	3.43	2.24	1.28	700	1,512	74	17
rigid-So-US31-CS11057-10-30-2001	6.38	5.59	5.24	4.72	4.21	3.43	2.09	1.36	700	1,854	39	19
rigid-So-US31-CS11057-10-30-2001	9.57	8.46	7.91	7.28	6.57	5.55	3.62	1.41	700	1,213	42	10
rigid-So-US31-CS11057-10-30-2001	6.57	5.79	5.39	4.88	4.33	3.54	2.09	1.62	700	1,891	30	19
rigid-So-US31-CS11057-10-30-2001	6.34	5.59	5.20	4.72	4.21	3.46	2.05	1.74	700	2,052	31	20

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-So-US31-CS11057-06-06-2003	8.35	7.13	6.50	5.63	4.92	3.70	2.01	1.30	700	969	21	18
rigid-So-US31-CS11057-06-06-2003	8.07	6.81	6.10	5.28	4.53	3.31	1.73	1.31	700	915	21	22
rigid-So-US31-CS11057-06-06-2003	8.31	7.13	6.50	5.63	4.88	3.70	1.97	1.43	700	1,002	19	19
rigid-So-US31-CS11057-06-06-2003	8.31	7.09	6.46	5.59	4.88	3.70	2.01	1.44	700	969	22	18
rigid-So-US31-CS11057-06-06-2003	8.82	7.68	7.17	6.50	5.98	4.80	2.99	1.66	700	1,249	30	12
rigid-So-US31-CS11057-06-06-2003	8.82	7.64	7.13	6.42	5.91	4.76	2.95	1.79	700	1,192	31	12
rigid-So-US31-CS11057-06-06-2003	8.11	6.85	6.10	5.31	4.57	3.35	1.69	1.79	700	968	18	22
rigid-So-US31-CS11057-06-06-2003	6.50	5.67	5.20	4.65	4.13	3.27	1.81	1.89	700	1,714	21	21
rigid-So-US31-CS11057-06-06-2003	6.50	5.71	5.24	4.69	4.17	3.31	1.81	1.90	700	1,822	17	22
rigid-So-US31-CS11057-10-10-2002	12.13	10.67	9.92	9.02	8.11	6.61	4.33	0.77	700	783	30	8
rigid-So-US31-CS11057-10-10-2002	11.38	10.35	9.72	9.06	8.27	6.97	4.69	0.87	700	1,248	28	8
rigid-So-US31-CS11057-10-10-2002	11.61	10.20	9.45	8.54	7.72	6.30	4.09	0.90	700	795	33	9
rigid-So-US31-CS11057-10-10-2002	12.20	11.02	10.39	9.65	8.86	7.48	5.04	1.01	700	1,130	27	7
rigid-So-US31-CS11057-10-10-2002	12.52	10.87	10.00	8.90	7.83	6.06	3.50	1.05	700	766	16	11
rigid-So-US31-CS11057-10-10-2002	11.38	10.31	9.69	9.02	8.23	6.97	4.65	1.06	700	1,246	28	8
rigid-So-US31-CS11057-10-10-2002	13.07	11.34	10.39	9.33	8.19	6.34	3.70	1.08	700	712	16	10
rigid-So-US31-CS11057-10-10-2002	12.52	10.87	9.96	8.94	7.83	6.06	3.50	1.11	700	768	16	11
rigid-So-US31-CS11057-10-10-2002	9.45	8.27	7.60	6.89	6.14	4.88	2.99	1.12	700	1,027	28	12
rigid-So-US31-CS11057-10-10-2002	8.11	7.13	6.57	5.98	5.35	4.29	2.64	1.19	700	1,281	32	14
rigid-So-US31-CS11057-10-10-2002	8.11	7.13	6.57	5.98	5.35	4.29	2.64	1.20	700	1,271	32	14
rigid-So-US31-CS11057-10-10-2002	10.20	8.90	8.23	7.44	6.65	5.31	3.23	1.26	700	978	24	11
rigid-So-US31-CS11057-10-10-2002	9.45	8.27	7.60	6.85	6.14	4.88	2.95	1.28	700	1,044	26	12
rigid-So-US31-CS11057-10-10-2002	11.57	10.20	9.37	8.50	7.68	6.34	4.06	1.28	700	804	33	9
rigid-So-US31-CS11057-10-10-2002	8.15	7.05	6.50	5.94	5.28	4.21	2.60	1.35	700	1,166	34	14

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-So-US31-CS11057-10-10-2002	7.91	6.69	6.06	5.31	4.61	3.46	1.89	1.41	700	1,021	25	20
rigid-So-US31-CS11057-10-10-2002	11.89	10.35	9.53	8.50	7.52	5.83	3.23	1.46	700	907	12	12
rigid-So-US31-CS11057-10-10-2002	7.87	6.65	6.02	5.28	4.57	3.46	1.89	1.52	700	1,014	25	20
rigid-So-US31-CS11057-10-10-2002	8.15	6.89	6.26	5.51	4.76	3.62	1.97	1.59	700	1,005	23	19
rigid-So-US31-CS11057-10-10-2002	11.77	10.20	9.37	8.39	7.40	5.75	3.15	1.67	700	948	11	13
rigid-So-US31-CS11057-10-10-2002	8.31	7.17	6.54	5.83	5.12	3.98	2.20	1.69	700	1,162	20	17
rigid-So-US31-CS11057-10-10-2002	11.73	10.20	9.37	8.39	7.40	5.75	3.11	1.70	700	973	10	13
rigid-So-US31-CS11057-10-10-2002	7.72	6.61	6.02	5.35	4.72	3.66	2.05	1.74	700	1,210	25	19
rigid-So-US31-CS11057-10-10-2002	7.76	6.65	6.02	5.35	4.69	3.66	2.05	1.78	700	1,152	27	19
rigid-So-US31-CS11057-10-10-2002	7.80	6.42	5.79	5.12	4.41	3.31	1.81	1.95	700	949	29	21
rigid-So-US31-CS11057-10-10-2002	7.76	6.38	5.79	5.08	4.41	3.31	1.81	1.96	700	964	29	21
rigid-So-US31-CS11057-10-10-2002	7.56	6.26	5.63	4.72	3.90	2.28	0.94	2.12	700	850	12	43
rigid-So-US31-CS11057-10-10-2002	7.13	5.91	5.28	4.49	3.66	2.17	0.94	2.17	700	880	15	42
rigid-So-US31-CS11057-10-10-2002	7.76	6.34	5.71	5.04	4.37	3.27	1.77	2.24	700	948	28	21
rigid-Su-I75-CS49025-06-13-2000	8.39	7.48	6.93	6.26	5.55	4.49	2.80	0.60	250	1,148	42	10
rigid-Su-I75-CS49025-06-13-2000	5.59	4.92	4.53	4.09	3.62	2.83	1.69	0.65	250	1,668	52	16
rigid-Su-I75-CS49025-06-13-2000	6.81	5.94	5.43	4.88	4.21	3.27	1.89	0.74	250	1,229	43	15
rigid-Su-I75-CS49025-06-13-2000	4.80	4.21	3.94	3.50	3.03	2.40	1.42	0.76	250	1,811	62	19
rigid-Su-I75-CS49025-06-13-2000	6.97	5.94	5.43	4.88	4.21	3.23	1.89	0.80	250	1,065	48	14
rigid-Su-I75-CS49025-06-13-2000	5.35	4.65	4.37	3.98	3.50	2.83	1.81	0.82	250	1,617	80	14
rigid-Su-I75-CS49025-06-13-2000	5.71	5.12	4.88	4.53	4.06	3.31	2.13	0.87	250	2,271	56	12
rigid-Su-I75-CS49025-06-13-2000	4.96	4.33	3.98	3.62	3.11	2.44	1.50	0.88	250	1,653	74	18
rigid-Su-I75-CS49025-06-13-2000	4.96	4.25	3.94	3.50	3.11	2.40	1.42	0.88	250	1,644	66	19
rigid-Su-I75-CS49025-06-13-2000	5.71	5.04	4.69	4.29	3.70	2.95	1.81	0.91	250	1,690	59	15

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-Su-I75-CS49025-06-13-2000	8.50	7.36	7.01	6.18	5.47	4.45	2.95	0.92	250	859	61	9
rigid-Su-I75-CS49025-06-13-2000	6.93	5.87	5.39	4.88	4.21	3.31	2.09	0.92	250	951	68	13
rigid-Su-I75-CS49025-06-13-2000	9.17	7.87	7.17	6.50	5.71	4.49	2.80	0.93	250	784	46	9
rigid-Su-I75-CS49025-06-13-2000	4.84	4.37	4.09	3.78	3.31	2.68	1.69	0.93	250	2,265	69	16
rigid-Su-I75-CS49025-06-13-2000	7.24	6.22	5.75	5.20	4.49	3.50	2.09	0.96	250	1,174	46	13
rigid-Su-I75-CS49025-06-13-2000	6.10	5.35	5.00	4.49	3.90	3.11	1.81	0.97	250	1,618	43	15
rigid-Su-I75-CS49025-06-13-2000	5.59	4.76	4.45	3.94	3.39	2.64	1.54	0.99	250	1,363	59	17
rigid-Su-I75-CS49025-06-13-2000	7.20	6.18	5.79	5.12	4.37	3.39	1.97	1.00	250	1,107	44	14
rigid-Su-I75-CS49025-06-13-2000	7.56	6.50	5.83	5.24	4.41	3.27	1.81	1.00	250	1,000	35	16
rigid-Su-I75-CS49025-06-13-2000	5.28	4.57	4.21	3.78	3.23	2.60	1.57	1.05	250	1,448	74	17
rigid-Su-I75-CS49025-06-13-2000	6.81	5.87	5.51	4.92	4.21	3.39	2.13	1.07	250	1,073	63	12
rigid-Su-I75-CS49025-06-13-2000	6.81	5.79	5.28	4.84	4.21	3.31	2.09	1.09	250	1,015	68	13
rigid-Su-I75-CS49025-06-13-2000	5.00	4.29	3.98	3.62	3.11	2.44	1.46	1.10	250	1,685	68	19
rigid-Su-I75-CS49025-06-13-2000	9.65	8.54	7.80	7.24	6.38	5.08	3.11	1.11	250	1,031	34	9
rigid-Su-I75-CS49025-06-13-2000	5.20	4.53	4.17	3.74	3.19	2.60	1.61	1.12	250	1,404	84	17
rigid-Su-I75-CS49025-06-13-2000	7.40	6.10	5.51	4.88	4.09	3.11	1.77	1.13	250	814	49	16
rigid-Su-I75-CS49025-06-13-2000	8.27	7.20	6.61	5.98	5.16	4.02	2.24	1.15	250	1,134	28	12
rigid-Su-I75-CS49025-06-13-2000	6.89	5.87	5.35	4.80	4.17	3.23	1.85	1.16	250	1,146	44	15
rigid-Su-I75-CS49025-06-13-2000	5.31	4.61	4.37	3.98	3.46	2.87	1.85	1.17	250	1,602	87	14
rigid-Su-I75-CS49025-06-13-2000	6.42	5.55	5.08	4.65	3.98	3.07	1.77	1.18	250	1,377	43	16
rigid-Su-I75-CS49025-06-13-2000	6.65	5.83	5.31	4.84	4.21	3.31	1.89	1.20	250	1,418	39	15
rigid-Su-I75-CS49025-06-13-2000	7.36	6.30	5.67	5.08	4.37	3.43	1.97	1.20	250	1,008	48	14
rigid-Su-I75-CS49025-06-13-2000	5.39	4.69	4.29	3.98	3.50	2.83	1.77	1.25	250	1,621	76	15
rigid-Su-I75-CS49025-06-13-2000	5.91	5.12	4.65	4.25	3.70	2.87	1.65	1.26	250	1,514	47	17

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-Su-I75-CS49025-06-13-2000	7.52	6.69	6.14	5.75	5.20	4.21	2.83	1.27	250	1,250	67	9
rigid-Su-I75-CS49025-06-13-2000	6.54	5.71	5.24	4.80	4.25	3.35	1.97	1.27	250	1,490	45	14
rigid-Su-I75-CS49025-06-13-2000	5.79	5.04	4.72	4.25	3.66	2.83	1.50	1.27	250	1,920	26	20
rigid-Su-I75-CS49025-06-13-2000	6.57	5.71	5.28	4.84	4.25	3.39	2.01	1.27	250	1,485	46	13
rigid-Su-I75-CS49025-06-13-2000	9.06	7.64	7.05	6.22	5.35	4.02	2.13	1.27	250	945	25	14
rigid-Su-I75-CS49025-06-13-2000	5.75	5.04	4.80	4.25	3.66	2.87	1.54	1.28	250	2,000	26	20
rigid-Su-I75-CS49025-06-13-2000	7.72	6.34	5.83	5.20	4.49	3.46	2.05	1.29	250	805	52	13
rigid-Su-I75-CS49025-06-13-2000	6.50	5.63	5.12	4.61	3.98	3.11	1.73	1.29	250	1,352	40	16
rigid-Su-I75-CS49025-06-13-2000	9.06	7.68	7.09	6.30	5.35	4.09	2.20	1.29	250	945	27	13
rigid-Su-I75-CS49025-06-13-2000	7.52	6.22	5.55	4.96	4.17	3.15	1.77	1.29	250	816	47	16
rigid-Su-I75-CS49025-06-13-2000	7.56	6.42	5.87	5.20	4.33	3.31	1.77	1.31	250	1,019	34	16
rigid-Su-I75-CS49025-06-13-2000	5.16	4.29	3.90	3.46	3.03	2.36	1.38	1.31	250	1,219	80	19
rigid-Su-I75-CS49025-06-13-2000	7.17	6.18	5.67	5.20	4.41	3.50	2.09	1.31	250	1,146	49	13
rigid-Su-I75-CS49025-06-13-2000	7.83	6.42	5.91	5.28	4.57	3.50	2.09	1.32	250	795	52	13
rigid-Su-I75-CS49025-06-13-2000	5.91	5.12	4.65	4.25	3.66	2.87	1.61	1.45	250	1,540	44	17
rigid-Su-I75-CS49025-06-13-2000	8.11	6.93	6.26	5.67	4.92	3.78	2.09	1.53	250	1,047	33	13
rigid-Su-I75-CS49025-06-13-2000	5.00	4.33	3.90	3.62	3.15	2.48	1.46	1.60	250	1,758	66	19
rigid-Su-I75-CS49025-06-13-2000	5.16	4.29	3.86	3.50	3.03	2.36	1.38	1.60	250	1,262	77	19
rigid-Su-I75-CS49025-06-13-2000	7.83	6.46	5.83	5.28	4.61	3.54	2.09	1.62	250	817	52	13
rigid-Su-I75-CS49025-06-13-2000	8.39	7.28	6.57	6.02	5.24	4.09	2.28	1.63	250	1,116	29	12
rigid-Su-I75-CS49025-06-13-2000	6.22	5.39	4.88	4.49	3.94	3.03	1.69	1.64	250	1,628	37	17
rigid-Su-I75-CS49025-06-13-2000	4.96	4.25	3.90	3.58	3.11	2.44	1.38	1.68	250	1,872	53	20
rigid-Su-I75-CS49025-06-13-2000	5.12	4.09	3.82	3.43	2.95	2.40	1.46	2.06	250	1,090	104	18
rigid-Su-I75-CS49025-06-13-2000	5.71	4.72	4.25	3.78	3.19	2.36	1.14	2.18	250	1,403	31	25

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-Su-I75-CS49025-06-13-2000	5.71	4.72	4.25	3.74	3.15	2.36	1.14	2.23	250	1,340	33	25
rigid-Su-I75-CS49025-06-13-2000	5.75	4.69	4.21	3.82	3.23	2.40	1.18	2.71	250	1,428	35	25
rigid-Su-I75-CS49025-06-13-2000	7.72	5.94	5.28	4.72	4.06	2.99	1.61	2.93	250	715	50	17
rigid-Su-I75-CS49025-06-02-2000	7.36	6.18	5.63	4.88	4.17	3.07	1.69	0.53	150	813	54	11
rigid-Su-I75-CS49025-06-02-2000	8.82	7.60	7.13	6.30	5.51	4.29	2.44	0.68	150	935	44	8
rigid-Su-I75-CS49025-06-02-2000	7.52	6.30	5.63	4.92	4.25	3.11	1.65	0.70	150	814	50	12
rigid-Su-I75-CS49025-06-02-2000	7.44	6.26	5.59	4.92	4.21	3.11	1.65	0.70	150	841	50	12
rigid-Su-I75-CS49025-06-02-2000	9.13	7.87	7.28	6.50	5.55	4.17	2.24	0.78	150	915	33	9
rigid-Su-I75-CS49025-06-02-2000	6.50	5.59	5.12	4.65	4.09	3.23	1.97	0.79	150	1,094	78	9
rigid-Su-I75-CS49025-06-02-2000	9.96	8.62	7.99	7.17	6.18	4.72	2.56	0.79	150	895	30	7
rigid-Su-I75-CS49025-06-02-2000	5.00	4.37	4.06	3.62	3.11	2.36	1.26	0.81	150	1,878	52	15
rigid-Su-I75-CS49025-06-02-2000	11.22	9.88	9.13	8.23	7.05	5.31	2.68	0.83	150	951	17	8
rigid-Su-I75-CS49025-06-02-2000	10.43	9.02	8.23	7.32	6.22	4.72	2.60	0.88	150	692	36	7
rigid-Su-I75-CS49025-06-02-2000	8.62	7.36	6.73	5.98	5.16	3.78	1.93	0.89	150	960	30	10
rigid-Su-I75-CS49025-06-02-2000	10.63	9.25	8.54	7.72	6.61	5.08	2.76	0.90	150	848	28	7
rigid-Su-I75-CS49025-06-02-2000	9.21	7.95	7.28	6.57	5.63	4.21	2.24	0.91	150	932	31	9
rigid-Su-I75-CS49025-06-02-2000	10.28	8.86	8.23	7.40	6.34	4.80	2.56	0.94	150	878	28	8
rigid-Su-I75-CS49025-06-02-2000	11.42	9.84	8.94	8.07	6.93	5.16	2.76	0.95	150	702	27	7
rigid-Su-I75-CS49025-06-02-2000	9.41	7.99	7.32	6.61	5.67	4.37	2.48	0.98	150	768	45	7
rigid-Su-I75-CS49025-06-02-2000	9.84	8.27	7.72	6.77	5.83	4.33	2.32	0.98	150	752	34	8
rigid-Su-I75-CS49025-06-02-2000	9.25	7.80	7.09	6.26	5.47	4.02	2.13	0.99	150	777	36	9
rigid-Su-I75-CS49025-06-02-2000	9.80	8.46	7.87	7.01	5.94	4.57	2.44	0.99	150	869	30	8
rigid-Su-I75-CS49025-06-02-2000	5.08	4.37	4.06	3.62	3.07	2.36	1.26	1.02	150	1,629	58	15
rigid-Su-I75-CS49025-06-02-2000	9.21	7.95	7.28	6.61	5.67	4.25	2.28	1.03	150	951	32	9

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-Su-I75-CS49025-06-02-2000	10.00	8.58	7.83	7.09	6.10	4.61	2.48	1.06	150	825	31	8
rigid-Su-I75-CS49025-06-02-2000	9.80	8.50	7.76	7.05	6.06	4.61	2.44	1.09	150	937	28	8
rigid-Su-I75-CS49025-06-02-2000	10.83	9.45	8.58	7.87	6.81	5.16	2.83	1.11	150	842	28	7
rigid-Su-I75-CS49025-06-02-2000	9.49	8.07	7.28	6.61	5.75	4.37	2.48	1.11	150	754	44	7
rigid-Su-I75-CS49025-06-02-2000	10.16	8.82	7.95	7.24	6.34	4.80	2.64	1.15	150	828	32	7
rigid-Su-I75-CS49025-06-02-2000	10.51	9.09	8.27	7.56	6.46	4.88	2.60	1.19	150	846	27	7
rigid-Su-I75-CS49025-06-02-2000	10.00	8.66	7.83	7.17	6.10	4.65	2.52	1.22	150	835	32	8
rigid-Su-I75-CS49025-06-02-2000	9.49	8.15	7.44	6.77	5.91	4.49	2.44	1.25	150	937	34	8
rigid-Su-I75-CS49025-06-02-2000	10.20	8.46	7.56	6.65	5.67	4.17	2.09	1.27	150	630	32	9
rigid-Su-I75-CS49025-06-02-2000	9.33	7.80	7.05	6.34	5.43	4.02	2.09	1.40	150	783	35	9
rigid-Su-I75-CS49025-06-02-2000	9.41	8.11	7.36	6.73	5.94	4.45	2.44	1.41	150	941	34	8
rigid-Su-I75-CS49025-06-02-2000	10.28	8.50	7.56	6.73	5.79	4.21	2.17	1.44	150	618	34	9
rigid-Su-I75-CS49025-06-02-2000	7.36	6.18	5.59	4.84	4.06	2.91	1.26	1.44	150	1,086	24	17
rigid-Su-I75-CS49025-06-02-2000	10.51	9.02	8.19	7.52	6.46	4.88	2.56	1.50	150	868	26	8
rigid-Su-I75-CS49025-06-02-2000	10.28	8.50	7.52	6.77	5.79	4.21	2.17	1.65	150	624	33	9
rigid-Su-I75-CS49025-06-02-2000	5.63	4.41	4.09	3.58	3.03	2.24	1.14	2.19	150	1,016	64	16
rigid-Su-I75-CS49025-06-02-2000	6.02	4.96	4.41	3.86	3.27	2.28	0.91	2.35	150	1,387	24	24
rigid-Su-I75-CS17033-05-31-2000	7.83	6.77	6.26	5.59	4.92	3.82	2.44	0.49	600	1,039	40	15
rigid-Su-I75-CS17033-05-31-2000	7.76	6.65	6.10	5.47	4.76	3.70	2.32	0.69	600	1,008	40	16
rigid-Su-I75-CS17033-05-31-2000	7.13	6.18	5.71	5.16	4.53	3.58	2.28	0.69	600	1,236	43	16
rigid-Su-I75-CS17033-05-31-2000	8.58	7.52	7.01	6.26	5.43	4.33	2.60	0.97	600	1,168	25	14
rigid-Su-I75-CS17033-05-31-2000	7.72	6.69	6.14	5.43	4.72	3.74	2.24	0.98	600	1,079	34	16
rigid-Su-I75-CS17033-05-31-2000	8.03	6.93	6.38	5.71	4.88	3.74	2.09	1.08	600	1,205	22	19
rigid-Su-I75-CS17033-05-31-2000	9.57	8.11	7.48	6.77	5.75	4.45	2.64	1.32	600	884	26	14

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-Su-I75-CS17033-05-31-2000	9.41	8.11	7.52	6.77	5.98	4.69	2.76	1.33	600	1,098	22	14
rigid-Su-I75-CS17033-05-31-2000	9.25	7.83	7.17	6.38	5.59	4.21	2.40	1.33	600	950	23	16
rigid-Su-I75-CS17033-05-31-2000	9.65	8.23	7.48	6.77	5.87	4.53	2.64	1.41	600	917	24	14
rigid-Su-I75-CS17033-05-31-2000	7.80	6.50	6.02	5.31	4.49	3.35	1.81	1.45	600	1,082	23	21
rigid-Su-I75-CS17033-05-31-2000	8.11	6.85	6.34	5.71	4.88	3.74	2.13	1.46	600	1,128	26	18
rigid-Su-I75-CS17033-05-31-2000	8.03	6.77	6.30	5.67	4.88	3.86	2.32	1.47	600	1,079	34	16
rigid-Su-I75-CS17033-05-31-2000	8.11	6.93	6.34	5.67	4.92	3.78	2.09	1.52	600	1,192	22	19
rigid-Su-I75-CS17033-05-31-2000	7.83	6.54	6.02	5.35	4.49	3.39	1.85	1.53	600	1,067	25	21
rigid-Su-I75-CS17033-05-31-2000	7.99	6.89	6.42	5.94	5.16	4.17	2.56	1.60	600	1,346	31	14
rigid-Su-I75-CS17033-05-31-2000	13.19	11.06	10.16	9.02	7.72	5.67	2.91	1.61	600	726	11	14
rigid-Su-I75-CS17033-05-31-2000	8.50	7.32	6.65	6.14	5.28	4.06	2.32	1.63	600	1,201	21	17
rigid-Su-I75-CS17033-05-31-2000	6.93	5.91	5.47	5.04	4.41	3.58	2.24	1.66	600	1,378	45	16
rigid-Su-I75-CS17033-05-31-2000	9.69	8.15	7.40	6.69	5.63	4.33	2.44	1.67	600	840	23	15
rigid-Su-I75-CS17033-05-31-2000	9.69	8.19	7.48	6.85	5.91	4.57	2.68	1.70	600	930	24	14
rigid-Su-I75-CS17033-05-31-2000	6.77	5.75	5.39	4.96	4.29	3.50	2.20	1.70	600	1,403	46	16
rigid-Su-I75-CS17033-05-31-2000	8.03	6.85	6.46	5.94	5.16	4.17	2.56	1.72	600	1,315	31	14
rigid-Su-I75-CS17033-05-31-2000	7.91	6.65	5.94	5.35	4.57	3.46	1.93	1.72	600	1,022	28	20
rigid-Su-I75-CS17033-05-31-2000	6.93	5.98	5.59	5.20	4.61	3.82	2.44	1.75	600	1,557	45	14
rigid-Su-I75-CS17033-05-31-2000	13.31	11.10	10.12	9.02	7.64	5.67	2.91	1.84	600	687	11	14
rigid-Su-I75-CS17033-05-31-2000	12.24	10.28	9.37	8.39	7.17	5.55	3.07	1.84	600	722	17	13
rigid-Su-I75-CS17033-05-31-2000	8.46	7.28	6.57	6.10	5.31	4.13	2.36	1.99	600	1,272	21	16
rigid-Su-I75-CS17033-05-31-2000	8.11	6.77	6.10	5.55	4.92	3.70	2.20	2.01	600	1,011	32	17
rigid-Su-I75-CS17033-05-31-2000	10.12	8.46	7.56	6.77	5.83	4.41	2.40	2.01	600	819	21	16
rigid-Su-I75-CS17033-05-31-2000	6.97	5.91	5.43	5.00	4.41	3.58	2.20	2.01	600	1,366	44	17

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-Su-I75-CS17033-05-31-2000	9.37	7.91	7.36	6.69	5.71	4.49	2.44	2.18	600	1,112	17	16
rigid-Su-I75-CS17033-05-31-2000	11.50	9.72	8.82	8.03	6.93	5.47	3.03	2.30	600	835	17	12
rigid-Su-I75-CS17033-05-31-2000	8.66	7.24	6.61	6.14	5.31	4.17	2.44	2.33	600	1,112	27	15
rigid-Su-I75-CS17033-05-31-2000	7.99	6.57	6.10	5.59	4.96	4.02	2.52	2.35	600	1,067	44	14
rigid-Su-I75-CS17033-05-31-2000	9.41	7.91	7.20	6.57	5.67	4.37	2.32	2.39	600	1,110	16	17
rigid-Su-I75-CS17033-05-31-2000	8.94	7.40	6.77	6.26	5.35	4.21	2.44	2.41	600	989	28	15
rigid-Su-I75-CS17033-05-31-2000	8.94	7.40	6.69	6.22	5.35	4.21	2.48	2.48	600	966	30	15
rigid-Su-I75-CS17033-05-31-2000	9.41	7.72	7.09	6.50	5.59	4.41	2.56	2.49	600	907	27	14
rigid-Su-I75-CS17033-05-31-2000	9.72	7.83	7.17	6.30	5.31	4.17	2.28	2.59	600	732	26	16
rigid-Su-I75-CS17033-05-31-2000	9.80	7.91	7.13	6.34	5.35	4.17	2.28	2.62	600	716	27	16
rigid-Su-I75-CS17033-05-31-2000	9.92	7.99	7.17	6.38	5.39	4.25	2.32	2.86	600	706	28	16
rigid-Su-I75-CS17034-05-25-2000	7.17	6.14	5.63	5.08	4.29	3.19	1.77	1.18	400	1,273	24	20
rigid-Su-I75-CS17034-05-25-2000	10.55	8.82	8.11	7.17	6.22	4.72	2.80	1.28	400	776	21	11
rigid-Su-I75-CS17034-05-25-2000	10.43	8.86	8.03	7.24	6.22	4.76	2.76	1.43	400	844	20	12
rigid-Su-I75-CS17034-05-25-2000	5.28	4.61	4.29	3.94	3.35	2.64	1.50	1.47	400	2,135	28	23
rigid-Su-I75-CS17034-05-25-2000	10.39	8.86	8.11	7.32	6.26	4.84	2.76	1.48	400	908	18	12
rigid-Su-I75-CS17034-05-25-2000	7.40	6.22	5.71	5.12	4.33	3.23	1.73	1.54	400	1,228	23	21
rigid-Su-I75-CS17034-05-25-2000	5.28	4.61	4.21	3.90	3.35	2.64	1.50	1.69	400	2,122	28	23
rigid-Su-I75-CS17034-05-25-2000	9.06	7.60	7.09	6.38	5.43	4.21	2.36	1.83	400	1,070	20	14
rigid-Su-I75-CS17034-05-25-2000	7.36	6.22	5.63	5.08	4.33	3.27	1.73	1.84	400	1,278	22	21
rigid-Su-I75-CS17034-05-25-2000	9.02	7.64	6.97	6.38	5.47	4.17	2.32	1.84	400	1,095	19	15
rigid-Su-I75-CS17034-05-25-2000	9.06	7.60	6.97	6.30	5.47	4.17	2.36	1.85	400	1,050	20	14
rigid-Su-I75-CS17034-05-25-2000	7.40	6.22	5.75	5.24	4.45	3.39	1.85	1.90	400	1,347	22	19
rigid-Su-I75-CS17034-05-25-2000	8.39	6.97	6.50	5.79	4.96	3.74	1.93	2.04	400	1,191	18	20

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-Su-I75-CS17034-05-25-2000	8.46	7.05	6.46	5.79	4.96	3.74	1.93	2.11	400	1,153	18	20
rigid-Su-I75-CS17034-05-25-2000	7.40	6.10	5.75	5.24	4.45	3.39	1.89	2.26	400	1,351	23	19
rigid-Su-I75-CS17034-05-25-2000	7.52	6.22	5.71	5.24	4.49	3.43	1.85	2.51	400	1,345	22	19
rigid-Su-I75-CS17034-05-22-2000	9.72	8.50	7.72	7.01	6.06	4.57	2.48	1.19	400	1,085	15	15
rigid-Su-I75-CS17034-05-22-2000	8.82	7.64	7.01	6.38	5.43	4.25	2.48	1.33	400	1,109	21	13
rigid-Su-I75-CS17034-05-22-2000	8.70	7.52	6.93	6.30	5.35	4.21	2.44	1.44	400	1,135	21	13
rigid-Su-I75-CS17034-05-22-2000	9.80	8.39	7.72	7.01	6.02	4.57	2.52	1.45	400	1,039	16	14
rigid-Su-I75-CS17034-05-22-2000	8.74	7.52	6.97	6.34	5.35	4.21	2.48	1.46	400	1,107	22	13
rigid-Su-I75-CS17034-05-22-2000	5.75	5.00	4.69	4.41	3.82	3.15	2.17	1.53	400	1,826	47	12
rigid-Su-I75-CS17034-05-22-2000	6.97	5.91	5.35	4.84	4.06	3.19	1.89	1.63	400	1,150	32	16
rigid-Su-I75-CS17034-05-22-2000	6.02	5.08	4.61	4.25	3.78	3.07	2.09	1.77	400	1,327	53	12
rigid-Su-I75-CS17034-05-22-2000	5.67	4.84	4.53	4.25	3.74	3.11	2.13	1.84	400	1,800	50	11
rigid-Su-I75-CS17034-05-22-2000	6.02	5.20	4.80	4.57	4.09	3.39	2.40	1.87	400	1,756	51	10
rigid-Su-I75-CS17034-05-22-2000	6.10	5.12	4.65	4.33	3.82	3.07	2.09	1.92	400	1,326	51	12
rigid-Su-I75-CS17034-05-22-2000	10.35	8.58	7.76	7.01	6.02	4.49	2.52	1.93	400	813	19	13
rigid-Su-I75-CS17034-05-22-2000	6.97	5.87	5.20	4.76	4.09	3.15	1.89	1.94	400	1,123	33	16
rigid-Su-I75-CS17034-05-22-2000	6.97	5.87	5.28	4.80	4.06	3.19	1.85	1.99	400	1,172	31	16
rigid-Su-I75-CS17034-05-22-2000	10.00	8.46	7.80	7.17	6.14	4.84	2.80	2.01	400	1,022	19	12
rigid-Su-I75-CS17034-05-22-2000	10.00	8.39	7.76	7.13	6.14	4.80	2.80	2.07	400	1,008	19	12
rigid-Su-I75-CS17034-05-22-2000	10.20	8.46	7.60	6.89	5.91	4.41	2.44	2.09	400	829	19	14
rigid-Su-I75-CS17034-05-22-2000	9.96	8.35	7.72	7.13	6.10	4.80	2.80	2.19	400	1,014	19	11
rigid-Su-I75-CS17034-05-22-2000	10.35	8.19	7.40	6.69	5.67	4.33	2.44	2.96	400	701	23	12
rigid-Su-I75-CS17034-05-22-2000	10.28	8.11	7.32	6.57	5.51	4.21	2.32	2.96	400	682	22	13
rigid-Su-M28-CS02041-08-23-2001	6.89	6.02	5.63	5.08	4.57	3.74	2.40	0.72	300	1,138	47	12

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-Su-M28-CS02041-08-23-2001	5.16	4.69	4.41	3.98	3.50	2.83	1.65	0.85	300	2,155	26	21
rigid-Su-M28-CS02041-08-23-2001	9.25	8.19	7.40	6.34	5.39	3.90	2.01	0.89	300	714	16	17
rigid-Su-M28-CS02041-08-23-2001	5.20	4.69	4.37	3.90	3.46	2.80	1.65	0.96	300	1,886	36	19
rigid-Su-M28-CS02041-08-23-2001	5.20	4.69	4.29	3.94	3.50	2.80	1.65	0.98	300	1,951	33	20
rigid-Su-M28-CS02041-08-23-2001	6.02	5.12	4.72	4.09	3.62	2.76	1.54	0.98	300	1,146	37	21
rigid-Su-M28-CS02041-08-23-2001	9.37	8.31	7.48	6.42	5.47	3.90	2.01	0.99	300	695	16	17
rigid-Su-M28-CS02041-08-23-2001	6.77	5.94	5.47	4.92	4.41	3.58	2.20	1.00	300	1,146	41	13
rigid-Su-M28-CS02041-08-23-2001	4.65	4.13	3.86	3.43	3.07	2.48	1.46	1.04	300	2,041	42	22
rigid-Su-M28-CS02041-08-23-2001	6.06	5.20	4.76	4.13	3.62	2.80	1.54	1.14	300	1,166	35	21
rigid-Su-M28-CS02041-08-23-2001	4.65	4.17	3.86	3.46	3.07	2.52	1.50	1.20	300	2,021	46	21
rigid-Su-M28-CS02041-08-23-2001	6.77	5.91	5.47	4.96	4.41	3.62	2.20	1.29	300	1,201	39	13
rigid-Su-M28-CS02041-08-23-2001	6.02	5.16	4.76	4.13	3.58	2.80	1.50	1.46	300	1,221	32	22
rigid-Su-M28-CS02041-08-23-2001	8.03	6.38	5.91	5.24	4.65	3.70	2.24	2.05	300	644	50	13
rigid-Su-M28-CS02041-08-23-2001	4.65	4.17	3.82	3.43	3.07	2.56	1.46	2.05	300	2,189	37	22
rigid-Su-M28-CS02041-08-23-2001	8.11	6.42	5.98	5.28	4.69	3.78	2.28	2.26	300	641	51	12
rigid-Su-M28-CS02041-08-23-2001	8.07	6.38	5.94	5.24	4.69	3.74	2.24	2.37	300	650	49	13
rigid-Su-M28-CS02041-08-23-2001-(2)	7.72	6.65	6.10	5.39	4.72	3.70	2.20	0.56	300	848	35	14
rigid-Su-M28-CS02041-08-23-2001-(2)	6.69	6.06	5.63	5.08	4.45	3.54	2.09	0.60	300	1,414	25	15
rigid-Su-M28-CS02041-08-23-2001-(2)	5.28	4.72	4.45	4.02	3.62	2.87	1.69	0.62	300	2,062	27	19
rigid-Su-M28-CS02041-08-23-2001-(2)	6.65	6.02	5.59	5.04	4.41	3.46	2.05	0.63	300	1,372	25	16
rigid-Su-M28-CS02041-08-23-2001-(2)	11.93	10.47	9.53	8.19	7.01	5.12	2.72	0.64	300	550	14	12
rigid-Su-M28-CS02041-08-23-2001-(2)	7.48	6.61	6.18	5.55	4.92	3.94	2.36	0.66	300	1,193	28	13
rigid-Su-M28-CS02041-08-23-2001-(2)	6.65	6.06	5.59	5.04	4.41	3.43	2.05	0.70	300	1,329	27	15
rigid-Su-M28-CS02041-08-23-2001-(2)	11.93	10.51	9.53	8.23	7.01	5.16	2.72	0.70	300	558	13	12

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-Su-M28-CS02041-08-23-2001-(2)	9.06	7.56	6.73	5.71	4.92	3.54	1.85	0.72	300	588	24	17
rigid-Su-M28-CS02041-08-23-2001-(2)	13.15	11.73	10.71	9.33	7.95	5.87	3.07	0.76	300	559	10	11
rigid-Su-M28-CS02041-08-23-2001-(2)	13.03	11.65	10.67	9.29	7.95	5.87	3.07	0.78	300	580	10	11
rigid-Su-M28-CS02041-08-23-2001-(2)	9.06	7.60	6.77	5.75	4.92	3.58	1.85	0.81	300	605	23	17
rigid-Su-M28-CS02041-08-23-2001-(2)	7.48	6.61	6.14	5.51	4.88	3.94	2.36	0.85	300	1,155	31	13
rigid-Su-M28-CS02041-08-23-2001-(2)	11.38	9.80	8.90	7.80	6.85	5.28	2.99	0.85	300	593	20	10
rigid-Su-M28-CS02041-08-23-2001-(2)	12.05	10.51	9.49	8.23	6.97	5.12	2.72	0.87	300	517	15	11
rigid-Su-M28-CS02041-08-23-2001-(2)	11.50	9.88	8.94	7.91	6.93	5.31	2.99	0.88	300	592	19	10
rigid-Su-M28-CS02041-08-23-2001-(2)	7.44	6.61	6.06	5.51	4.88	3.90	2.32	0.89	300	1,165	29	13
rigid-Su-M28-CS02041-08-23-2001-(2)	11.46	9.80	8.94	7.87	6.89	5.31	2.99	0.90	300	595	20	10
rigid-Su-M28-CS02041-08-23-2001-(2)	9.17	7.76	6.97	5.94	5.08	3.70	1.85	0.92	300	658	19	17
rigid-Su-M28-CS02041-08-23-2001-(2)	8.98	7.52	6.73	5.67	4.88	3.54	1.81	0.96	300	616	22	17
rigid-Su-M28-CS02041-08-23-2001-(2)	5.24	4.69	4.41	3.94	3.50	2.80	1.57	0.98	300	2,045	21	22
rigid-Su-M28-CS02041-08-23-2001-(2)	11.02	9.61	8.78	7.80	6.85	5.28	2.87	1.01	300	748	15	12
rigid-Su-M28-CS02041-08-23-2001-(2)	11.06	9.65	8.78	7.80	6.85	5.28	2.87	1.06	300	741	15	12
rigid-Su-M28-CS02041-08-23-2001-(2)	5.28	4.76	4.49	4.06	3.62	2.95	1.69	1.07	300	2,280	19	21
rigid-Su-M28-CS02041-08-23-2001-(2)	5.28	4.76	4.45	4.06	3.62	2.95	1.69	1.15	300	2,255	20	21
rigid-Su-M28-CS02041-08-23-2001-(2)	11.06	9.65	8.78	7.83	6.89	5.31	2.87	1.15	300	764	14	12
rigid-Su-M28-CS02041-08-23-2001-(2)	5.16	4.53	4.13	3.70	3.27	2.64	1.57	1.15	300	1,449	49	19
rigid-Su-M28-CS02041-08-23-2001-(2)	8.86	7.28	6.57	5.79	5.04	3.86	2.20	1.30	300	627	33	14
rigid-Su-M28-CS02041-08-23-2001-(2)	7.76	6.73	6.18	5.43	4.76	3.82	2.20	1.31	300	921	32	14
rigid-Su-M28-CS02041-08-23-2001-(2)	8.86	7.24	6.57	5.79	5.04	3.86	2.20	1.38	300	632	33	14
rigid-Su-M28-CS02041-08-23-2001-(2)	6.69	5.87	5.31	4.80	4.17	3.27	1.77	1.41	300	1,259	23	18
rigid-Su-M28-CS02041-08-23-2001-(2)	8.90	7.28	6.57	5.75	5.08	3.86	2.20	1.49	300	638	32	14

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-Su-M28-CS02041-08-23-2001-(2)	7.72	6.69	6.06	5.35	4.76	3.82	2.20	1.60	300	920	34	14
rigid-Su-M28-CS02041-08-23-2001-(2)	6.65	5.83	5.35	4.72	4.13	3.31	1.77	1.79	300	1,288	22	18
rigid-Su-M28-CS02041-08-23-2001-(2)	5.20	4.53	4.17	3.70	3.27	2.72	1.54	2.19	300	1,560	43	19
rigid-Su-M28-CS17062-05-08-2001	7.17	6.06	5.55	4.88	4.25	3.27	2.01	0.43	400	960	101	18
rigid-Su-M28-CS17062-05-08-2001	7.17	6.06	5.59	4.88	4.25	3.31	2.01	0.48	400	987	100	18
rigid-Su-M28-CS17062-05-08-2001	8.03	6.89	6.26	5.47	4.80	3.74	2.24	0.49	400	925	84	16
rigid-Su-M28-CS17062-05-08-2001	7.13	6.02	5.55	4.80	4.25	3.27	2.01	0.52	400	964	104	18
rigid-Su-M28-CS17062-05-08-2001	9.13	7.56	6.89	5.98	5.28	4.13	2.52	0.53	400	613	93	14
rigid-Su-M28-CS17062-05-08-2001	8.39	7.09	6.50	5.63	4.88	3.62	2.13	0.56	400	912	63	17
rigid-Su-M28-CS17062-05-08-2001	8.19	7.09	6.54	5.87	5.24	4.13	2.60	0.61	400	1,019	94	13
rigid-Su-M28-CS17062-05-08-2001	8.39	7.20	6.61	5.87	5.20	4.09	2.52	0.62	400	920	89	13
rigid-Su-M28-CS17062-05-08-2001	7.83	6.54	6.02	5.20	4.53	3.46	2.05	0.62	400	888	83	17
rigid-Su-M28-CS17062-05-08-2001	9.21	7.80	7.13	6.30	5.51	4.25	2.56	0.63	400	789	73	14
rigid-Su-M28-CS17062-05-08-2001	8.35	7.05	6.54	5.63	4.88	3.66	2.13	0.66	400	969	61	17
rigid-Su-M28-CS17062-05-08-2001	7.80	6.54	6.02	5.24	4.57	3.46	2.05	0.71	400	941	79	17
rigid-Su-M28-CS17062-05-08-2001	8.19	7.05	6.54	5.79	5.20	4.13	2.56	0.75	400	1,014	94	14
rigid-Su-M28-CS17062-05-08-2001	8.03	6.89	6.30	5.51	4.88	3.78	2.28	0.75	400	937	87	15
rigid-Su-M28-CS17062-05-08-2001	7.87	6.61	6.06	5.28	4.61	3.50	2.05	0.76	400	963	76	17
rigid-Su-M28-CS17062-05-08-2001	8.19	7.09	6.54	5.79	5.24	4.13	2.56	0.80	400	1,038	92	14
rigid-Su-M28-CS17062-05-08-2001	8.23	7.40	6.93	6.26	5.71	4.72	3.03	0.83	400	1,434	94	11
rigid-Su-M28-CS17062-05-08-2001	8.03	6.85	6.26	5.51	4.84	3.74	2.20	0.84	400	1,021	75	16
rigid-Su-M28-CS17062-05-08-2001	7.01	5.98	5.55	4.92	4.37	3.43	2.09	0.89	400	1,257	94	17
rigid-Su-M28-CS17062-05-08-2001	10.12	8.82	8.23	7.28	6.57	5.28	3.27	0.89	400	906	73	11
rigid-Su-M28-CS17062-05-08-2001	8.86	7.36	6.69	5.79	5.08	3.94	2.32	0.89	400	716	79	15

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-Su-M28-CS17062-05-08-2001	8.35	7.01	6.50	5.63	4.84	3.66	2.13	0.91	400	880	65	17
rigid-Su-M28-CS17062-05-08-2001	7.05	6.02	5.51	4.88	4.41	3.58	2.24	0.95	400	907	138	15
rigid-Su-M28-CS17062-05-08-2001	7.99	6.54	5.94	5.12	4.49	3.43	2.01	0.98	400	766	87	18
rigid-Su-M28-CS17062-05-08-2001	7.68	6.54	6.02	5.35	4.61	3.46	2.01	0.98	400	1,238	55	17
rigid-Su-M28-CS17062-05-08-2001	6.81	6.06	5.59	5.08	4.53	3.66	2.24	0.99	400	1,777	81	15
rigid-Su-M28-CS17062-05-08-2001	7.13	6.42	5.98	5.47	4.84	3.86	2.32	1.00	400	1,983	54	15
rigid-Su-M28-CS17062-05-08-2001	8.07	6.89	6.38	5.63	4.96	3.90	2.32	1.00	400	1,081	75	15
rigid-Su-M28-CS17062-05-08-2001	7.64	6.69	6.22	5.51	5.00	4.02	2.48	1.01	400	1,269	91	14
rigid-Su-M28-CS17062-05-08-2001	8.23	6.77	6.18	5.28	4.61	3.39	1.93	1.03	400	862	65	18
rigid-Su-M28-CS17062-05-08-2001	7.91	6.77	6.14	5.43	4.92	3.94	2.44	1.03	400	817	114	14
rigid-Su-M28-CS17062-05-08-2001	8.70	7.32	6.69	5.83	5.12	3.94	2.28	1.07	400	861	66	15
rigid-Su-M28-CS17062-05-08-2001	7.60	6.54	6.02	5.31	4.69	3.70	2.17	1.13	400	1,212	76	16
rigid-Su-M28-CS17062-05-08-2001	7.95	6.77	6.30	5.55	4.88	3.78	2.20	1.16	400	1,150	68	16
rigid-Su-M28-CS17062-05-08-2001	10.28	8.74	7.99	7.01	6.22	4.92	2.91	1.17	400	759	66	12
rigid-Su-M28-CS17062-05-08-2001	9.29	7.99	7.28	6.50	5.79	4.53	2.68	1.26	400	969	62	13
rigid-Su-M28-CS17062-05-08-2001	9.13	7.68	6.97	6.06	5.24	3.90	2.13	1.26	400	933	44	16
rigid-Su-M28-CS17062-05-08-2001	11.06	9.37	8.58	7.52	6.54	4.92	2.72	1.28	400	859	34	13
rigid-Su-M28-CS17062-05-08-2001	8.94	7.40	6.69	5.71	5.00	3.70	2.05	1.29	400	840	54	17
rigid-Su-M28-CS17062-05-08-2001	7.52	6.50	5.94	5.24	4.61	3.46	1.89	1.32	400	1,551	39	19
rigid-Su-M28-CS17062-05-08-2001	7.64	6.54	5.98	5.31	4.72	3.62	2.09	1.35	400	1,260	62	16
rigid-Su-M28-CS17062-05-08-2001	6.65	5.71	5.28	4.76	4.37	3.58	2.28	1.35	400	1,242	146	15
rigid-Su-M28-CS17062-05-08-2001	6.50	5.47	5.04	4.41	3.94	3.03	1.77	1.38	400	1,353	89	20
rigid-Su-M28-CS17062-05-08-2001	8.66	7.56	6.97	6.14	5.39	4.09	2.17	1.42	400	1,527	23	16
rigid-Su-M28-CS17062-05-08-2001	10.94	9.25	8.50	7.40	6.50	4.88	2.68	1.46	400	885	33	13

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-Su-M28-CS17062-05-08-2001	9.49	8.03	7.32	6.34	5.59	4.25	2.36	1.47	400	935	47	15
rigid-Su-M28-CS17062-05-08-2001	8.27	7.13	6.57	5.71	5.00	3.78	2.01	1.48	400	1,422	32	18
rigid-Su-M28-CS17062-05-08-2001	9.96	8.39	7.68	6.69	5.75	4.33	2.32	1.51	400	939	34	15
rigid-Su-M28-CS17062-05-08-2001	7.28	6.14	5.59	4.88	4.21	3.23	1.77	1.54	400	1,169	61	20
rigid-Su-M28-CS17062-05-08-2001	7.36	6.50	6.02	5.43	4.88	3.94	2.32	1.56	400	1,761	61	15
rigid-Su-M28-CS17062-05-08-2001	7.68	6.65	6.14	5.47	4.88	3.74	2.09	1.58	400	1,647	40	17
rigid-Su-M28-CS17062-05-08-2001	9.41	8.11	7.44	6.69	5.91	4.69	2.72	1.59	400	1,117	53	13
rigid-Su-M28-CS17062-05-08-2001	10.71	9.13	8.31	7.28	6.42	4.92	2.72	1.63	400	924	37	13
rigid-Su-M28-CS17062-05-08-2001	9.45	7.80	7.05	6.06	5.28	3.98	2.17	1.68	400	786	51	16
rigid-Su-M28-CS17062-05-08-2001	7.64	6.61	6.14	5.47	4.84	3.74	2.05	1.69	400	1,825	32	17
rigid-Su-M28-CS17062-05-08-2001	7.68	6.61	6.18	5.47	4.88	3.74	2.05	1.76	400	1,792	32	17
rigid-Su-M28-CS17062-05-08-2001	7.83	6.34	5.79	4.92	4.21	3.11	1.65	1.76	400	955	54	21
rigid-Su-M28-CS17062-05-08-2001	13.94	11.89	10.87	9.57	8.39	6.38	3.43	1.78	400	785	22	10
rigid-Su-M28-CS17062-05-08-2001	8.46	7.13	6.50	5.63	4.92	3.66	1.93	1.78	400	1,138	39	18
rigid-Su-M28-CS17062-05-08-2001	7.56	6.46	5.94	5.28	4.57	3.46	1.81	1.83	400	1,689	29	20
rigid-Su-M28-CS17062-05-08-2001	8.62	7.36	6.69	5.83	5.12	3.94	2.13	1.84	400	1,147	42	16
rigid-Su-M28-CS17062-05-08-2001	11.22	9.37	8.46	7.36	6.38	4.80	2.56	1.84	400	752	34	13
rigid-Su-M28-CS17062-05-08-2001	6.50	5.55	5.12	4.49	4.02	3.11	1.73	1.89	400	1,683	62	20
rigid-Su-M28-CS17062-05-08-2001	7.48	6.42	5.87	5.20	4.53	3.46	1.81	1.95	400	1,735	29	20
rigid-Su-M28-CS17062-05-08-2001	8.90	7.56	6.89	6.02	5.20	3.86	1.93	1.96	400	1,350	20	18
rigid-Su-M28-CS17062-05-08-2001	8.70	7.52	6.93	6.10	5.39	4.06	2.05	1.97	400	1,691	14	18
rigid-Su-M28-CS17062-05-08-2001	9.37	7.99	7.40	6.54	5.75	4.33	2.24	2.00	400	1,499	17	16
rigid-Su-M28-CS17062-05-08-2001	9.41	8.11	7.44	6.57	5.83	4.49	2.40	2.05	400	1,266	30	14
rigid-Su-M28-CS17062-05-08-2001	9.33	8.07	7.36	6.50	5.75	4.41	2.28	2.21	400	1,462	20	16

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-Su-M28-CS17062-05-08-2001	9.29	7.99	7.32	6.46	5.71	4.37	2.24	2.28	400	1,536	18	16
rigid-Su-M28-CS17062-05-08-2001	10.79	8.98	8.07	6.93	5.94	4.29	2.01	2.45	400	976	15	17
rigid-Su-M28-CS17062-05-08-2001	11.30	9.06	8.27	7.01	6.06	4.41	2.24	2.46	400	712	31	15
rigid-U-I69-CS19043-06-25-2001	4.84	4.29	3.94	3.54	3.15	2.56	1.54	1.38	700	2,199	50	25
rigid-U-I69-CS19043-06-25-2001	8.43	7.24	6.57	5.79	5.08	3.82	2.05	1.49	700	1,115	18	19
rigid-U-I69-CS19043-06-25-2001	8.27	7.13	6.50	5.67	4.96	3.78	2.01	1.57	700	1,144	18	20
rigid-U-I69-CS19043-06-25-2001	4.80	4.29	3.94	3.54	3.15	2.60	1.54	1.74	700	2,421	44	25
rigid-U-I69-CS19043-06-25-2001	8.27	7.13	6.46	5.67	4.96	3.86	2.01	2.19	700	1,204	17	20
rigid-U-I69-CS19043-05-14-2002	4.09	3.66	3.39	3.07	2.76	2.20	1.34	0.88	700	2,894	47	29
rigid-U-I69-CS19043-05-14-2002	4.49	3.98	3.66	3.31	2.99	2.36	1.46	0.96	700	2,370	55	26
rigid-U-I69-CS19043-05-14-2002	3.94	3.54	3.27	2.99	2.68	2.17	1.34	1.00	700	3,136	53	29
rigid-U-I69-CS19043-05-14-2002	4.49	3.98	3.74	3.43	3.07	2.52	1.61	1.01	700	2,704	61	23
rigid-U-I69-CS19043-05-14-2002	4.57	4.02	3.74	3.39	2.99	2.40	1.46	1.03	700	2,349	50	26
rigid-U-I69-CS19043-05-14-2002	4.45	3.94	3.66	3.31	2.95	2.36	1.42	1.06	700	2,578	46	27
rigid-U-I69-CS19043-05-14-2002	4.21	3.70	3.46	3.11	2.76	2.17	1.26	1.09	700	2,833	35	32
rigid-U-I69-CS19043-05-14-2002	3.98	3.54	3.27	2.95	2.68	2.13	1.30	1.13	700	2,914	53	29
rigid-U-I69-CS19043-05-14-2002	4.76	4.21	3.94	3.58	3.23	2.56	1.54	1.13	700	2,704	34	26
rigid-U-I69-CS19043-05-14-2002	4.96	4.29	3.98	3.58	3.19	2.52	1.54	1.14	700	1,949	54	24
rigid-U-I69-CS19043-05-14-2002	4.65	4.09	3.82	3.46	3.11	2.52	1.57	1.15	700	2,436	54	24
rigid-U-I69-CS19043-05-14-2002	4.41	3.90	3.66	3.31	2.95	2.40	1.46	1.20	700	2,791	47	27
rigid-U-I69-CS19043-05-14-2002	4.65	4.09	3.78	3.39	3.03	2.40	1.42	1.20	700	2,350	41	27
rigid-U-I69-CS19043-05-14-2002	5.55	4.80	4.45	4.06	3.62	2.95	1.89	1.21	700	1,657	70	20
rigid-U-I69-CS19043-05-14-2002	4.96	4.25	3.86	3.39	2.95	2.20	1.18	1.26	700	1,802	32	33
rigid-U-I69-CS19043-05-14-2002	4.65	4.13	3.86	3.54	3.19	2.56	1.54	1.28	700	2,915	32	25

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-U-I69-CS19043-05-14-2002	4.72	4.21	3.94	3.54	3.19	2.60	1.57	1.28	700	2,731	41	25
rigid-U-I69-CS19043-05-14-2002	10.04	8.62	7.87	7.09	6.22	4.76	2.76	1.29	700	911	21	14
rigid-U-I69-CS19043-05-14-2002	5.51	4.72	4.41	3.98	3.54	2.87	1.81	1.31	700	1,652	65	21
rigid-U-I69-CS19043-05-14-2002	4.61	4.06	3.74	3.35	2.99	2.32	1.30	1.32	700	2,545	28	31
rigid-U-I69-CS19043-05-14-2002	5.35	4.69	4.33	3.90	3.50	2.80	1.69	1.33	700	1,985	44	22
rigid-U-I69-CS19043-05-14-2002	4.25	3.78	3.50	3.19	2.83	2.28	1.34	1.33	700	2,995	35	30
rigid-U-I69-CS19043-05-14-2002	5.31	4.69	4.33	3.94	3.54	2.80	1.65	1.35	700	2,313	30	24
rigid-U-I69-CS19043-05-14-2002	4.37	3.86	3.62	3.27	2.95	2.40	1.46	1.36	700	2,861	47	26
rigid-U-I69-CS19043-05-14-2002	6.46	5.51	5.04	4.45	3.86	2.91	1.57	1.39	700	1,415	24	25
rigid-U-I69-CS19043-05-14-2002	6.26	5.28	4.80	4.21	3.62	2.68	1.42	1.39	700	1,361	26	28
rigid-U-I69-CS19043-05-14-2002	8.66	7.44	6.81	6.06	5.31	4.13	2.36	1.40	700	1,041	24	16
rigid-U-I69-CS19043-05-14-2002	4.57	4.02	3.70	3.31	2.91	2.28	1.26	1.40	700	2,562	28	33
rigid-U-I69-CS19043-05-14-2002	7.32	6.34	5.79	5.24	4.65	3.62	2.13	1.41	700	1,330	30	18
rigid-U-I69-CS19043-05-14-2002	6.61	5.67	5.20	4.65	4.06	3.19	1.85	1.43	700	1,359	36	20
rigid-U-I69-CS19043-05-14-2002	5.00	4.29	3.98	3.50	3.15	2.40	1.38	1.43	700	1,940	39	28
rigid-U-I69-CS19043-05-14-2002	8.11	6.93	6.30	5.63	4.88	3.66	1.97	1.49	700	1,117	19	20
rigid-U-I69-CS19043-05-14-2002	6.50	5.51	5.04	4.45	3.86	2.91	1.57	1.52	700	1,400	25	25
rigid-U-I69-CS19043-05-14-2002	6.02	5.16	4.84	4.37	3.86	3.11	1.89	1.52	700	1,652	45	20
rigid-U-I69-CS19043-05-14-2002	4.25	3.74	3.46	3.15	2.83	2.24	1.30	1.53	700	3,037	32	31
rigid-U-I69-CS19043-05-14-2002	6.69	5.75	5.20	4.69	4.13	3.23	1.89	1.57	700	1,328	37	20
rigid-U-I69-CS19043-05-14-2002	7.56	6.34	5.75	5.12	4.45	3.39	1.93	1.59	700	1,060	31	19
rigid-U-I69-CS19043-05-14-2002	5.04	4.29	3.98	3.50	3.15	2.40	1.38	1.59	700	1,886	40	28
rigid-U-I69-CS19043-05-14-2002	7.48	6.50	5.98	5.39	4.76	3.70	2.05	1.59	700	1,515	18	20
rigid-U-I69-CS19043-05-14-2002	7.72	6.57	5.98	5.31	4.65	3.50	1.89	1.64	700	1,207	20	21

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-U-I69-CS19043-05-14-2002	5.16	4.41	4.09	3.58	3.23	2.48	1.42	1.64	700	1,819	39	27
rigid-U-I69-CS19043-05-14-2002	9.21	7.87	7.13	6.38	5.67	4.33	2.48	1.64	700	988	23	15
rigid-U-I69-CS19043-05-14-2002	9.06	7.76	7.01	6.26	5.55	4.21	2.36	1.67	700	1,014	21	16
rigid-U-I69-CS19043-05-14-2002	7.68	6.54	5.94	5.24	4.57	3.46	1.85	1.69	700	1,185	21	21
rigid-U-I69-CS19043-05-14-2002	7.64	6.50	5.94	5.28	4.57	3.58	2.01	1.71	700	1,151	29	19
rigid-U-I69-CS19043-05-14-2002	7.56	6.42	5.91	5.24	4.53	3.54	1.97	1.71	700	1,191	27	19
rigid-U-I69-CS19043-05-14-2002	5.28	4.57	4.21	3.78	3.39	2.72	1.61	1.76	700	1,935	45	23
rigid-U-I69-CS19043-05-14-2002	6.65	5.67	5.12	4.57	3.98	3.07	1.69	1.83	700	1,363	29	23
rigid-U-I69-CS19043-05-14-2002	6.26	5.24	4.76	4.17	3.62	2.68	1.38	1.90	700	1,412	24	29
rigid-U-I69-CS19043-05-14-2002	6.93	5.79	5.28	4.65	4.02	3.15	1.77	1.93	700	1,131	37	21
rigid-U-I69-CS19043-05-14-2002	6.34	5.35	4.84	4.33	3.78	2.87	1.54	2.06	700	1,451	26	25
rigid-U-I69-CS19043-05-14-2002	4.53	3.78	3.43	3.07	2.68	2.05	1.14	2.06	700	1,885	46	33
rigid-U-I69-CS19043-05-14-2002	6.93	5.94	5.43	4.88	4.33	3.35	1.81	2.10	700	1,620	19	23
rigid-U-I69-CS19043-05-14-2002	4.84	4.06	3.70	3.27	2.87	2.17	1.14	2.19	700	1,983	30	35
rigid-U-I69-CS19043-05-14-2002	6.81	5.75	5.24	4.69	4.09	3.19	1.73	2.25	700	1,373	26	22
rigid-U-I69-CS19043-05-14-2002	6.61	5.59	5.08	4.57	3.98	3.11	1.69	2.28	700	1,445	27	23
rigid-U-I69-CS19043-05-14-2002	6.93	5.79	5.24	4.61	4.02	3.15	1.73	2.31	700	1,160	34	22
rigid-U-I69-CS19043-05-14-2002	6.22	5.24	4.69	4.21	3.70	2.83	1.54	2.33	700	1,431	30	25
rigid-U-I69-CS19043-05-14-2002	4.49	3.74	3.43	2.99	2.64	2.01	1.06	2.36	700	1,994	37	36
rigid-U-I69-CS19043-05-14-2002	6.18	5.20	4.65	4.17	3.70	2.83	1.54	2.51	700	1,457	31	25
rigid-U-I69-CS19042-09-18-1999	2.51	2.08	1.89	1.62	1.38	1.03	0.63	0.54	700	1,064	69	29
rigid-U-I69-CS19042-09-18-1999	3.29	2.77	2.51	2.18	1.85	1.32	0.71	0.74	700	1,109	27	27
rigid-U-I69-CS19042-09-18-1999	8.22	7.10	6.63	5.88	5.11	3.96	2.35	0.79	700	1,804	46	26
rigid-U-I69-CS19042-09-18-1999	8.38	7.18	6.71	5.91	5.14	3.99	2.39	0.87	700	1,674	49	26

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-U-I69-CS19042-09-18-1999	8.33	7.12	6.63	5.84	5.12	3.96	2.37	0.87	700	1,651	52	26
rigid-U-I69-CS19042-09-18-1999	10.26	8.78	8.09	7.17	6.12	4.67	2.63	1.03	700	1,387	32	24
rigid-U-I69-CS19042-09-18-1999	10.17	8.70	7.99	7.04	6.03	4.55	2.47	1.12	700	1,431	27	26
rigid-U-I69-CS19042-09-18-1999	10.10	8.64	7.84	6.93	6.03	4.55	2.53	1.22	700	1,406	31	25
rigid-U-I69-CS19042-09-18-1999	3.40	2.80	2.57	2.18	1.83	1.36	0.71	1.57	700	1,010	28	26
rigid-U-I69-CS19042-09-18-1999	10.24	8.64	7.99	6.80	6.02	4.57	2.53	1.62	700	1,300	34	25
rigid-U-I75-CS58151-03-31-2008	5.14	4.92	4.54	4.28	3.94	3.24	2.08	0.96	225	3,209	23	13
rigid-U-I75-CS58151-03-31-2008	4.68	4.32	4.13	3.93	3.71	3.15	2.13	1.06	225	4,434	33	12
rigid-U-I75-CS58151-03-31-2008	4.36	4.01	3.85	3.65	3.45	2.95	2.01	1.08	225	4,585	47	12
rigid-U-I75-CS58151-03-31-2008	5.14	4.94	4.55	4.32	3.97	3.24	2.09	1.10	225	3,309	19	14
rigid-U-I75-CS58151-03-31-2008	4.67	4.35	4.13	3.98	3.74	3.23	2.21	1.14	225	4,887	29	11
rigid-U-I75-CS58151-03-31-2008	4.41	4.04	3.87	3.70	3.46	2.97	2.00	1.22	225	4,579	41	13
rigid-U-I75-CS58151-03-31-2008	4.40	4.06	3.88	3.69	3.51	2.98	2.01	1.24	225	4,983	28	13
rigid-U-I75-CS58151-03-31-2008	4.41	3.97	3.77	3.62	3.39	2.92	2.09	1.24	225	2,818	146	10
rigid-U-I75-CS58151-03-31-2008	5.39	4.73	4.43	4.09	3.80	3.06	1.97	1.24	225	1,731	76	13
rigid-U-I75-CS58151-03-31-2008	4.45	4.11	3.93	3.79	3.59	3.13	2.20	1.29	225	4,988	59	10
rigid-U-I75-CS58151-03-31-2008	4.47	4.12	3.93	3.78	3.53	3.04	2.02	1.32	225	5,080	18	13
rigid-U-I75-CS58151-03-31-2008	4.37	4.05	3.87	3.80	3.56	3.09	2.19	1.36	225	5,719	39	11
rigid-U-I75-CS58151-03-31-2008	4.78	4.45	4.20	4.08	3.85	3.30	2.26	1.37	225	4,944	23	11
rigid-U-I75-CS58151-03-31-2008	4.26	3.94	3.76	3.60	3.43	2.96	2.02	1.39	225	5,529	31	12
rigid-U-I75-CS58151-03-31-2008	4.38	4.00	3.83	3.66	3.45	2.97	2.01	1.41	225	4,538	51	12
rigid-U-I75-CS58151-03-31-2008	4.45	4.10	3.95	3.81	3.61	3.17	2.21	1.42	225	5,796	33	11
rigid-U-I75-CS58151-03-31-2008	4.60	4.19	4.03	3.83	3.61	3.07	2.02	1.42	225	4,746	18	14
rigid-U-I75-CS58151-03-31-2008	4.31	3.95	3.74	3.55	3.38	2.90	1.98	1.43	225	3,963	78	12

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-U-I75-CS58151-03-31-2008	4.86	4.75	4.51	4.18	3.82	3.10	2.04	1.44	225	3,640	15	15
rigid-U-I75-CS58151-03-31-2008	4.73	4.36	4.15	3.98	3.77	3.22	2.14	1.45	225	5,022	12	13
rigid-U-I75-CS58151-03-31-2008	4.43	4.05	3.87	3.71	3.53	3.01	2.05	1.51	225	4,775	42	12
rigid-U-I75-CS58151-03-31-2008	4.48	4.09	3.91	3.80	3.53	3.05	2.07	1.51	225	4,779	39	12
rigid-U-I75-CS58151-03-31-2008	4.36	3.94	3.80	3.63	3.42	2.87	1.88	1.59	225	4,971	14	15
rigid-U-I75-CS58151-03-31-2008	4.39	4.01	3.78	3.64	3.44	2.92	1.97	1.60	225	4,197	53	12
rigid-U-I75-CS58151-03-31-2008	4.47	4.09	3.85	3.73	3.53	3.00	2.07	1.60	225	4,071	71	11
rigid-U-I75-CS58151-03-31-2008	4.55	4.14	3.93	3.74	3.59	3.02	2.07	1.61	225	3,868	68	11
rigid-U-I75-CS58151-03-31-2008	4.17	3.77	3.62	3.47	3.29	2.80	1.90	1.65	225	4,749	52	13
rigid-U-I75-CS58151-03-31-2008	4.67	4.27	4.08	3.93	3.72	3.21	2.15	1.68	225	5,206	16	13
rigid-U-I75-CS58151-03-31-2008	4.40	4.03	3.83	3.73	3.55	3.00	2.07	1.71	225	5,082	38	12
rigid-U-I75-CS58151-03-31-2008	4.37	4.06	3.85	3.74	3.61	3.12	2.18	1.72	225	6,468	17	12
rigid-U-I75-CS58151-03-31-2008	4.28	3.94	3.74	3.57	3.45	2.97	2.03	1.76	225	5,253	43	12
rigid-U-I75-CS58151-03-31-2008	4.15	3.76	3.59	3.43	3.27	2.81	1.90	1.78	225	4,741	57	13
rigid-U-I75-CS58151-03-31-2008	4.45	4.06	3.88	3.77	3.59	3.10	2.14	1.79	225	5,440	34	11
rigid-U-I75-CS58151-03-31-2008	4.34	3.99	3.76	3.68	3.48	3.00	2.06	1.80	225	5,233	40	12
rigid-U-I75-CS58151-03-31-2008	5.34	4.67	4.32	4.03	3.74	3.07	1.93	1.81	225	1,695	81	13
rigid-U-I75-CS58151-03-31-2008	4.18	3.79	3.59	3.44	3.30	2.78	1.90	1.81	225	4,325	68	12
rigid-U-I75-CS58151-03-31-2008	4.30	3.98	3.74	3.64	3.48	2.98	2.01	1.86	225	5,993	12	14
rigid-U-I75-CS58151-03-31-2008	4.23	3.89	3.66	3.53	3.42	2.85	1.95	1.93	225	5,141	36	13
rigid-U-I75-CS58151-03-31-2008	4.32	3.93	3.73	3.64	3.45	3.00	2.07	1.95	225	5,170	53	11
rigid-U-I75-CS58151-03-31-2008	4.35	3.98	3.75	3.68	3.49	3.02	2.09	1.96	225	5,261	48	11
rigid-U-I75-CS58152-10-06-2006	3.86	3.31	3.17	2.97	2.75	2.33	1.62	1.66	500	2,347	143	20
rigid-U-I75-CS58152-10-06-2006	8.57	7.12	6.67	5.94	5.27	4.18	2.46	1.72	500	825	31	14

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-U-I75-CS58152-10-06-2006	8.55	7.10	6.64	5.93	5.25	4.16	2.43	1.78	500	848	30	15
rigid-U-I75-CS58152-10-06-2006	8.53	7.04	6.60	5.87	5.21	4.10	2.39	1.83	500	830	30	15
rigid-U-I75-CS58152-10-06-2006	7.68	6.41	6.03	5.47	4.89	3.96	2.40	1.94	500	1,006	40	15
rigid-U-I75-CS58152-10-06-2006	8.50	7.03	6.63	5.90	5.24	4.17	2.43	1.96	500	865	30	15
rigid-U-I75-CS58152-10-06-2006	10.08	8.35	7.79	7.08	6.24	5.00	2.96	2.00	500	740	27	12
rigid-U-I75-CS58152-10-06-2006	9.97	8.22	7.68	6.93	6.17	4.92	2.92	2.04	500	726	29	12
rigid-U-I75-CS58152-10-06-2006	10.10	8.34	7.77	7.06	6.25	5.00	2.96	2.09	500	725	28	12
rigid-U-I75-CS58152-10-06-2006	7.79	6.45	6.03	5.49	4.86	3.98	2.41	2.12	500	932	43	15
rigid-U-I75-CS58152-10-06-2006	9.04	7.31	6.89	6.15	5.47	4.29	2.54	2.14	500	733	33	14
rigid-U-I75-CS58152-10-06-2006	9.04	7.30	6.87	6.16	5.44	4.27	2.52	2.16	500	738	33	14
rigid-U-I75-CS58152-10-06-2006	9.00	7.26	6.86	6.16	5.44	4.27	2.51	2.27	500	752	32	14
rigid-U-I75-CS58152-10-06-2006	10.56	8.91	8.27	7.52	6.72	5.33	2.95	2.30	500	910	13	13
rigid-U-I75-CS58152-10-06-2006	7.09	5.73	5.33	4.84	4.24	3.39	2.00	2.35	500	905	46	18
rigid-U-I75-CS58152-10-06-2006	7.14	5.76	5.37	4.84	4.27	3.42	2.02	2.36	500	886	47	17
rigid-U-I75-CS58152-10-06-2006	10.65	9.00	8.36	7.65	6.78	5.43	2.99	2.39	500	932	12	13
rigid-U-I75-CS58152-10-06-2006	7.19	5.77	5.38	4.84	4.25	3.40	2.00	2.39	500	845	48	17
rigid-U-I75-CS58152-10-06-2006	10.61	8.91	8.31	7.52	6.69	5.33	2.92	2.40	500	892	13	13
rigid-U-I75-CS58152-10-06-2006	5.08	4.10	3.80	3.43	3.02	2.36	1.35	2.43	500	1,295	54	26
rigid-U-I75-CS58152-10-06-2006	5.11	4.12	3.87	3.45	3.04	2.42	1.34	2.82	500	1,406	46	27
rigid-U-US23-CS58034-09-14-2006	3.76	3.32	3.08	2.73	2.40	1.86	1.06	0.39	225	2,090	59	26
rigid-U-US23-CS58034-09-14-2006	4.48	3.90	3.57	3.22	2.80	2.18	1.29	0.50	225	1,514	71	20
rigid-U-US23-CS58034-09-14-2006	4.58	3.91	3.61	3.24	2.82	2.20	1.29	0.63	225	1,416	72	20
rigid-U-US23-CS58034-09-14-2006	4.32	3.71	3.37	3.01	2.59	2.00	1.14	0.64	225	1,428	69	23
rigid-U-US23-CS58034-09-14-2006	4.29	3.69	3.37	3.00	2.58	1.98	1.18	0.65	225	1,356	82	22

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-U-US23-CS58034-09-14-2006	4.47	3.85	3.54	3.21	2.78	2.18	1.30	0.80	225	1,487	73	20
rigid-U-US23-CS58034-09-14-2006	4.30	3.66	3.40	3.02	2.60	1.99	1.20	0.86	225	1,367	84	22
rigid-U-US23-CS58034-09-14-2006	7.40	6.24	5.71	5.04	4.38	3.26	1.72	0.90	225	912	29	16
rigid-U-US23-CS58034-09-14-2006	7.39	6.21	5.71	5.01	4.37	3.25	1.68	1.10	225	938	26	16
rigid-U-US23-CS58034-09-14-2006	3.52	3.00	2.79	2.55	2.28	1.82	1.11	1.16	225	2,056	110	23
rigid-U-US23-CS58034-09-14-2006	3.50	3.00	2.79	2.57	2.30	1.85	1.13	1.29	225	2,198	108	22
rigid-U-US23-CS58034-09-14-2006	7.37	6.15	5.69	5.00	4.36	3.21	1.61	1.37	225	987	22	18
rigid-U-US23-CS58034-09-14-2006	3.79	3.17	2.97	2.72	2.43	1.93	1.20	1.38	225	1,758	118	21
rigid-U-US23-CS58034-09-14-2006	5.58	4.36	3.93	3.44	2.89	2.12	1.13	1.47	225	790	59	23
rigid-U-US23-CS58034-09-14-2006	5.87	4.70	4.25	3.79	3.23	2.45	1.34	1.59	225	838	59	19
rigid-U-US23-CS58034-09-14-2006	6.54	5.29	4.90	4.35	3.81	2.97	1.69	1.62	225	832	59	15
rigid-U-US23-CS58034-09-14-2006	5.93	4.74	4.31	3.80	3.28	2.51	1.36	1.75	225	851	59	19
rigid-U-US23-CS58034-09-14-2006	6.53	5.28	4.86	4.32	3.76	2.92	1.62	1.76	225	841	55	16
rigid-U-US23-CS58034-09-14-2006	7.19	5.59	5.15	4.43	3.79	2.74	1.42	1.79	225	657	41	18
rigid-U-US23-CS58034-09-14-2006	8.14	6.51	5.81	5.08	4.33	3.09	1.50	1.80	225	660	27	18
rigid-U-US23-CS58034-09-14-2006	7.18	5.59	5.18	4.47	3.82	2.74	1.41	1.89	225	703	38	19
rigid-U-US23-CS58034-09-14-2006	7.63	6.12	5.62	4.91	4.20	3.10	1.54	1.91	225	762	29	17
rigid-U-US23-CS58034-09-14-2006	7.54	5.99	5.35	4.70	3.99	2.87	1.41	1.91	225	691	31	19
rigid-U-US23-CS58034-09-14-2006	7.19	5.65	5.18	4.49	3.81	2.76	1.37	1.91	225	721	34	19
rigid-U-US23-CS58034-09-14-2006	9.13	7.31	6.79	5.92	5.11	3.73	1.87	1.92	225	654	24	14
rigid-U-US23-CS58034-09-14-2006	5.92	4.75	4.30	3.82	3.30	2.46	1.29	1.92	225	909	49	20
rigid-U-US23-CS58034-09-14-2006	7.58	6.11	5.59	4.90	4.19	3.12	1.55	1.95	225	786	29	17
rigid-U-US23-CS58034-09-14-2006	5.56	4.34	3.93	3.44	2.92	2.12	1.08	1.95	225	876	50	24
rigid-U-US23-CS58034-09-14-2006	5.72	4.56	4.15	3.66	3.18	2.35	1.23	1.96	225	936	50	21

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-U-US23-CS58034-09-14-2006	7.05	5.57	5.16	4.45	3.79	2.74	1.33	2.00	225	810	29	20
rigid-U-US23-CS58034-09-14-2006	7.45	5.94	5.35	4.68	4.05	2.95	1.48	2.00	225	733	33	18
rigid-U-US23-CS58034-09-14-2006	7.62	6.15	5.60	4.92	4.23	3.08	1.49	2.00	225	806	25	18
rigid-U-US23-CS58034-09-14-2006	7.58	5.99	5.47	4.79	4.09	3.01	1.52	2.02	225	710	33	17
rigid-U-US23-CS58034-09-14-2006	7.07	5.59	4.98	4.33	3.67	2.60	1.21	2.02	225	622	17	17
rigid-U-US23-CS58034-09-14-2006	7.50	5.97	5.43	4.77	4.03	2.96	1.45	2.03	225	754	29	19
rigid-U-US23-CS58034-09-14-2006	7.43	5.66	5.02	4.42	3.75	2.66	1.26	2.03	225	706	22	19
rigid-U-US23-CS58034-09-14-2006	8.13	6.51	5.80	5.08	4.33	3.10	1.47	2.03	225	680	24	18
rigid-U-US23-CS58034-09-14-2006	9.28	7.44	6.91	6.06	5.21	3.84	1.91	2.05	225	679	22	14
rigid-U-US23-CS58034-09-14-2006	7.51	5.94	5.33	4.70	4.04	2.95	1.50	2.07	225	704	35	18
rigid-U-US23-CS58034-09-14-2006	5.76	4.55	4.09	3.57	3.07	2.26	1.14	2.08	225	880	48	23
rigid-U-US23-CS58034-09-14-2006	7.52	5.99	5.40	4.73	4.09	2.97	1.45	2.08	225	821	29	20
rigid-U-US23-CS58034-09-14-2006	7.42	5.67	5.03	4.44	3.74	2.66	1.24	2.12	225	756	28	22
rigid-U-US23-CS58034-09-14-2006	7.62	6.02	5.50	4.83	4.08	3.01	1.49	2.13	225	730	31	18
rigid-U-US23-CS58034-09-14-2006	5.61	4.35	3.93	3.42	2.89	2.11	1.03	2.13	225	671	31	19
rigid-U-US23-CS58034-09-14-2006	7.11	5.63	5.24	4.57	3.86	2.82	1.38	2.15	225	696	22	19
rigid-U-US23-CS58034-09-14-2006	5.79	4.62	4.20	3.73	3.23	2.44	1.28	2.16	225	948	51	20
rigid-U-US23-CS58034-09-14-2006	8.28	6.52	5.81	5.14	4.39	3.11	1.51	2.22	225	710	21	19
rigid-U-US23-CS58034-09-14-2006	7.57	5.96	5.32	4.58	3.80	2.62	1.05	2.22	225	709	20	15
rigid-U-US23-CS58034-09-14-2006	7.03	5.45	4.88	4.25	3.61	2.51	0.97	2.23	225	703	38	21
rigid-U-US23-CS58034-09-14-2006	6.22	4.83	4.31	3.76	3.23	2.31	1.14	2.24	225	750	30	19
rigid-U-US23-CS58034-09-14-2006	9.87	7.75	7.15	6.23	5.26	3.73	1.74	2.24	225	594	18	16
rigid-U-US23-CS58034-09-14-2006	7.03	5.48	4.94	4.24	3.57	2.49	0.96	2.25	225	940	51	21
rigid-U-US23-CS58034-09-14-2006	6.15	4.85	4.33	3.78	3.23	2.31	1.06	2.26	225	690	23	18

Table A.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			PCC	Granular	Road-bed
rigid-U-US23-CS58034-09-14-2006	7.46	5.67	5.05	4.40	3.74	2.63	1.23	2.29	225	738	28	23
rigid-U-US23-CS58034-09-14-2006	5.60	4.32	3.89	3.44	2.90	2.10	1.05	2.30	225	644	26	18
rigid-U-US23-CS58034-09-14-2006	5.77	4.51	4.07	3.61	3.10	2.32	1.18	2.33	225	794	41	23
rigid-U-US23-CS58034-09-14-2006	8.21	6.45	5.95	5.14	4.37	3.09	1.43	2.33	225	791	25	24
rigid-U-US23-CS58034-09-14-2006	7.02	5.34	4.88	4.26	3.63	2.63	1.35	2.34	225	883	46	26
rigid-U-US23-CS58034-09-14-2006	5.59	4.35	3.90	3.38	2.94	2.12	1.04	2.35	225	651	27	17
rigid-U-US23-CS58034-09-14-2006	7.15	5.58	4.99	4.35	3.68	2.58	1.20	2.35	225	646	23	19
rigid-U-US23-CS58034-09-14-2006	7.02	5.50	4.93	4.29	3.60	2.55	1.16	2.36	225	628	24	19
rigid-U-US23-CS58034-09-14-2006	9.87	7.71	7.13	6.17	5.23	3.73	1.73	2.39	225	581	18	16
rigid-U-US23-CS58034-09-14-2006	7.03	5.41	4.84	4.25	3.55	2.45	0.95	2.40	225	662	43	19
rigid-U-US23-CS58034-09-14-2006	6.31	4.87	4.35	3.81	3.27	2.33	1.15	2.41	225	854	49	25
rigid-U-US23-CS58034-09-14-2006	9.29	7.44	6.94	6.06	5.25	3.85	1.88	2.47	225	772	42	23
rigid-U-US23-CS58034-09-14-2006	6.93	5.33	4.88	4.22	3.61	2.55	1.27	2.53	225	884	46	25
rigid-U-US23-CS58034-09-14-2006	7.58	5.93	5.29	4.64	3.84	2.66	1.07	2.58	225	893	50	22
rigid-U-US23-CS58034-09-14-2006	5.79	4.58	4.18	3.73	3.22	2.41	1.27	2.59	225	885	32	25
rigid-U-US23-CS58034-09-14-2006	9.51	7.54	6.96	5.97	5.11	3.59	1.65	2.67	225	692	20	19
rigid-U-US23-CS58034-09-14-2006	7.67	6.01	5.40	4.74	4.02	2.88	1.41	2.86	225	644	31	21
rigid-U-US23-CS58034-09-14-2006	8.30	6.61	5.97	5.25	4.41	3.22	1.51	2.93	225	653	33	21
rigid-U-US23-CS58034-09-14-2006	8.30	6.55	5.95	5.21	4.44	3.24	1.56	2.97	225	666	31	21

APPENDIX B

Table B.1 Backcalculated Pavement Layer Moduli for Flexible Pavement (Two – Layer System)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-N-US131-CS67017-05-01-2002	9.30	7.18	6.25	5.21	4.38	3.15	1.89	1.29	700	539	50	20
flex-N-US131-CS67017-05-01-2002	6.03	5.43	5.00	4.45	3.85	2.92	1.73	0.33	700	2,500	38	22
flex-N-US131-CS67017-05-01-2002	5.84	5.24	4.76	4.20	3.58	2.65	1.46	0.52	700	2,488	31	27
flex-N-US131-CS67017-05-01-2002	7.44	6.56	5.91	5.09	4.33	3.15	1.82	0.28	700	1,446	36	21
flex-N-US131-CS67017-05-01-2002	6.07	5.40	4.87	4.22	3.57	2.59	1.45	0.37	700	1,953	36	27
flex-N-US131-CS67017-05-01-2002	7.87	6.66	5.90	4.89	4.07	2.84	1.66	0.63	700	935	41	23
flex-N-US131-CS67017-05-01-2002	6.15	5.50	5.03	4.38	3.81	2.86	1.64	0.41	700	2,221	36	23
flex-N-US131-CS67017-05-01-2002	6.78	5.94	5.35	4.60	3.89	2.71	1.37	0.52	700	1,853	22	28
flex-N-US131-CS67017-05-01-2002	5.91	5.30	4.83	4.26	3.71	2.81	1.57	0.82	700	2,644	31	25
flex-N-US131-CS67017-05-01-2002	6.19	5.56	5.09	4.42	3.82	2.81	1.55	0.24	700	2,328	28	25
flex-N-US131-CS67017-05-01-2002	5.88	5.40	5.01	4.48	3.91	3.03	1.77	0.36	700	3,181	29	23
flex-N-US131-CS67017-05-01-2002	7.55	6.55	5.97	5.23	4.52	3.45	2.02	0.94	700	1,567	40	19
flex-N-US131-CS67017-05-01-2002	7.51	6.66	6.06	5.29	4.60	3.36	1.85	0.62	700	1,897	25	21
flex-N-US131-CS67017-05-01-2002	6.06	5.39	4.89	4.25	3.65	2.69	1.51	0.34	700	2,129	36	25
flex-N-US131-CS67017-05-01-2002	6.73	5.98	5.40	4.68	3.95	2.80	1.30	0.90	700	2,272	14	32
flex-N-US131-CS67017-05-01-2002	7.15	6.31	5.64	4.83	4.05	2.85	1.47	0.40	700	1,641	24	26
flex-N-US131-CS67017-05-01-2002	7.14	6.31	5.70	4.91	4.21	3.03	1.75	0.40	700	1,561	35	22
flex-N-US131-CS67017-05-01-2002	6.96	6.21	5.67	4.93	4.24	3.11	1.78	0.18	700	1,861	32	22
flex-N-US131-CS67017-05-01-2002	6.30	5.64	5.16	4.50	3.88	2.88	1.64	0.16	700	2,198	33	24
flex-N-US131-CS67017-05-01-2002	6.33	5.71	5.25	4.68	4.12	3.15	1.86	0.50	700	2,584	34	21
flex-N-US131-CS67017-05-01-2002	6.51	5.87	5.35	4.73	4.08	3.06	1.73	0.41	700	2,299	29	23
flex-N-US131-CS67017-05-01-2002	8.45	7.48	6.82	6.03	5.31	3.91	2.36	0.81	700	1,547	32	16
flex-N-US131-CS67017-05-01-2002	8.94	7.89	7.14	6.18	5.33	3.90	2.21	0.40	700	1,353	26	17
flex-N-US131-CS67017-05-01-2002	11.34	9.36	8.03	6.42	5.20	3.44	1.81	0.43	700	568	24	20

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-N-US131-CS67017-05-01-2002	10.73	8.75	7.52	6.03	4.91	3.30	1.77	0.46	700	574	27	20
flex-N-US131-CS67017-05-01-2002	10.81	8.86	7.51	6.01	4.84	3.22	1.66	0.78	700	572	25	21
flex-N-US131-CS67017-05-01-2002	10.33	8.69	7.50	6.10	4.97	3.32	1.72	0.51	700	713	23	21
flex-N-US131-CS67017-05-01-2002	8.71	7.86	7.15	6.19	5.30	3.79	1.96	0.27	700	1,692	15	20
flex-N-US131-CS67017-05-01-2002	10.01	8.34	7.40	6.30	5.28	3.69	1.81	1.83	700	1,059	19	20
flex-N-US131-CS67017-05-01-2002	10.51	8.02	6.81	5.47	4.39	2.82	1.45	1.72	700	534	27	24
flex-N-US131-CS67017-05-01-2002	7.05	6.13	5.51	4.73	4.00	2.84	1.56	0.36	700	1,533	32	24
flex-N-US131-CS67017-05-01-2002	7.64	6.72	6.05	5.21	4.41	3.20	1.84	0.23	700	1,390	34	21
flex-N-US131-CS67017-05-01-2002	8.37	7.00	6.07	4.95	3.98	2.60	1.29	0.35	700	918	25	28
flex-N-US131-CS67017-05-01-2002	7.90	6.86	6.07	5.05	4.18	2.82	1.44	0.32	700	1,204	24	26
flex-N-US131-CS67017-05-01-2002	8.13	7.10	6.35	5.38	4.53	3.14	1.68	0.30	700	1,282	25	22
flex-N-US131-CS67017-05-01-2002	8.40	7.26	6.47	5.50	4.63	3.29	1.80	0.45	700	1,189	28	21
flex-N-US131-CS67017-05-01-2002	10.37	8.75	7.76	6.57	5.47	3.65	1.90	0.92	700	908	20	20
flex-N-US131-CS67017-05-01-2002	6.30	5.55	5.01	4.36	3.78	2.83	1.73	0.28	700	1,679	52	22
flex-N-US131-CS67017-05-01-2002	6.32	5.69	5.16	4.52	3.93	2.91	1.75	0.47	700	1,964	42	22
flex-N-US131-CS67017-05-01-2002	8.08	7.12	6.48	5.62	4.83	3.56	2.00	0.43	700	1,533	27	19
flex-N-US131-CS67017-05-01-2002	7.91	6.58	5.97	5.04	4.20	2.99	1.64	0.94	700	1,139	33	22
flex-N-US131-CS67017-05-01-2002	9.03	7.99	7.17	6.10	5.19	3.70	2.09	0.41	700	1,160	27	18
flex-N-US131-CS67017-05-01-2002	9.67	8.34	7.44	6.31	5.30	3.69	1.97	0.41	700	1,037	22	19
flex-N-US131-CS67017-05-01-2002	6.92	6.10	5.43	4.60	3.85	2.76	1.55	0.53	700	1,381	36	24
flex-N-US131-CS67017-05-01-2002	6.43	5.54	4.93	4.21	3.57	2.53	1.45	0.44	700	1,440	43	26
flex-N-US131-CS67017-05-01-2002	10.59	9.21	8.18	6.85	5.68	3.83	1.86	0.40	700	993	15	20
flex-N-M55-CS77022-8-20-2001	12.52	9.56	7.69	5.56	4.25	2.77	1.62	1.56	700	290	30	26
flex-N-M55-CS77022-8-20-2001	14.16	10.68	8.46	6.10	4.65	2.96	1.62	1.29	700	267	24	25

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-N-M55-CS77022-8-20-2001	14.32	10.88	8.49	5.92	4.45	2.77	1.53	1.90	700	245	24	26
flex-N-M55-CS77022-8-20-2001	11.80	9.06	7.20	5.24	4.07	2.69	1.60	1.71	700	299	33	26
flex-N-M55-CS77022-8-20-2001	12.57	9.67	7.71	5.62	4.37	2.87	1.61	1.51	700	306	28	25
flex-N-M55-CS77022-8-20-2001	13.28	10.15	7.92	5.56	4.18	2.65	1.47	1.99	700	262	26	27
flex-N-M55-CS77022-8-20-2001	12.30	9.26	7.27	5.27	4.09	2.73	1.53	1.75	700	281	31	26
flex-N-M55-CS77022-8-20-2001	11.88	8.79	6.78	4.81	3.73	2.47	1.42	1.86	700	255	34	29
flex-N-M55-CS77022-8-20-2001	11.93	8.95	7.04	4.96	3.81	2.48	1.43	1.85	700	267	32	28
flex-N-M55-CS77022-8-20-2001	11.98	8.65	6.61	4.65	3.62	2.44	1.42	1.97	700	223	36	29
flex-N-M55-CS77022-8-20-2001	13.00	9.57	7.30	5.15	3.95	2.59	1.45	1.97	700	231	30	28
flex-N-M55-CS77022-8-20-2001	13.15	9.78	7.61	5.39	4.12	2.69	1.46	1.99	700	253	27	27
flex-N-M55-CS77022-8-20-2001	13.18	10.48	8.40	6.23	4.88	3.31	1.97	1.98	700	292	29	21
flex-N-M55-CS77022-8-20-2001	13.27	10.29	8.22	6.07	4.78	3.28	1.97	1.78	700	263	31	21
flex-N-M55-CS77022-8-20-2001	13.57	10.16	8.03	5.93	4.69	3.20	1.94	1.41	700	234	32	21
flex-N-M55-CS77022-8-20-2001	13.45	9.86	7.77	5.69	4.53	3.20	1.95	1.61	700	208	35	21
flex-N-M55-CS77022-8-20-2001	12.98	9.74	7.68	5.70	4.57	3.27	2.01	1.83	700	229	37	21
flex-N-M55-CS77022-8-20-2001	12.44	9.45	7.45	5.60	4.45	3.19	2.00	1.94	700	244	38	21
flex-N-M55-CS77022-8-20-2001	12.42	9.34	7.43	5.50	4.40	3.15	1.96	1.90	700	240	38	21
flex-N-M55-CS77022-8-20-2001	13.00	9.78	7.80	5.76	4.57	3.22	1.92	1.55	700	248	33	21
flex-N-M55-CS77022-8-20-2001	14.85	11.27	8.93	6.52	5.09	3.37	1.92	1.44	700	239	25	21
flex-N-M55-CS77022-8-20-2001	16.42	12.72	10.03	7.29	5.66	3.62	1.97	1.70	700	239	20	20
flex-N-M55-CS77022-8-20-2001	13.39	10.13	7.98	5.84	4.65	3.16	1.92	1.76	700	236	32	22
flex-N-M55-CS77022-8-20-2001	17.09	12.65	10.15	7.64	5.94	3.82	2.01	1.88	700	246	19	19
flex-N-M55-CS77022-8-20-2001	13.23	9.97	7.83	5.73	4.57	3.13	1.94	1.97	700	228	34	21
flex-N-M55-CS77022-8-20-2001	14.37	10.43	8.00	5.76	4.54	3.14	1.83	1.88	700	190	31	22

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-N-M55-CS77022-8-20-2001	13.30	9.81	7.82	5.76	4.58	3.21	1.86	1.50	700	239	33	22
flex-N-M55-CS77022-8-20-2001	16.85	12.57	10.11	7.49	5.88	3.82	2.04	1.76	700	244	20	19
flex-N-M55-CS77022-8-20-2001	12.43	9.38	7.40	5.47	4.32	2.98	1.81	1.62	700	255	35	23
flex-N-M55-CS77022-8-20-2001	15.14	11.71	9.38	7.02	5.52	3.61	1.92	1.80	700	293	21	20
flex-N-M55-CS77022-8-20-2001	15.10	11.73	9.44	7.09	5.60	3.69	1.97	1.80	700	298	21	20
flex-N-M55-CS77022-8-20-2001	12.95	9.97	8.03	5.95	4.79	3.35	1.98	1.64	700	276	32	21
flex-N-M55-CS77022-8-20-2001-(2)	12.52	9.56	7.69	5.56	4.25	2.77	1.62	1.56	700	292	30	26
flex-N-M55-CS77022-8-20-2001-(2)	14.16	10.68	8.46	6.10	4.65	2.96	1.62	1.29	700	267	24	25
flex-N-M55-CS77022-8-20-2001-(2)	14.32	10.88	8.49	5.92	4.45	2.77	1.53	1.90	700	245	24	26
flex-N-M55-CS77022-8-20-2001-(2)	11.80	9.06	7.20	5.24	4.07	2.69	1.60	1.71	700	299	33	26
flex-N-M55-CS77022-8-20-2001-(2)	12.57	9.67	7.71	5.62	4.37	2.87	1.61	1.51	700	306	28	25
flex-N-M55-CS77022-8-20-2001-(2)	13.28	10.15	7.92	5.56	4.18	2.65	1.47	1.99	700	262	26	27
flex-N-M55-CS77022-8-20-2001-(2)	12.30	9.26	7.27	5.27	4.09	2.73	1.53	1.75	700	281	31	26
flex-N-M55-CS77022-8-20-2001-(2)	11.88	8.79	6.78	4.81	3.73	2.47	1.42	1.86	700	255	34	29
flex-N-M55-CS77022-8-20-2001-(2)	11.93	8.95	7.04	4.96	3.81	2.48	1.43	1.85	700	267	32	28
flex-N-M55-CS77022-8-20-2001-(2)	11.98	8.65	6.61	4.65	3.62	2.44	1.42	1.97	700	223	36	29
flex-N-M55-CS77022-8-20-2001-(2)	13.00	9.57	7.30	5.15	3.95	2.59	1.45	1.97	700	231	30	28
flex-N-M55-CS77022-8-20-2001-(2)	13.15	9.78	7.61	5.39	4.12	2.69	1.46	1.99	700	253	27	27
flex-N-M55-CS77022-8-20-2001-(2)	13.18	10.48	8.40	6.23	4.88	3.31	1.97	1.98	700	292	29	21
flex-N-M55-CS77022-8-20-2001-(2)	13.27	10.29	8.22	6.07	4.78	3.28	1.97	1.78	700	263	31	21
flex-N-M55-CS77022-8-20-2001-(2)	13.11	10.05	8.02	5.95	4.72	3.30	2.01	1.74	700	251	33	21
flex-N-M55-CS77022-8-20-2001-(2)	13.57	10.16	8.03	5.93	4.69	3.20	1.93	1.39	700	235	32	21
flex-N-M55-CS77022-8-20-2001-(2)	13.45	9.86	7.77	5.69	4.53	3.20	1.94	1.60	700	209	35	21
flex-N-M55-CS77022-8-20-2001-(2)	12.98	9.74	7.68	5.70	4.57	3.27	2.01	1.83	700	229	37	21

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-N-M55-CS77022-8-20-2001-(2)	12.44	9.45	7.45	5.60	4.45	3.19	2.00	1.94	700	244	38	21
flex-N-M55-CS77022-8-20-2001-(2)	12.42	9.34	7.43	5.50	4.40	3.15	1.96	1.90	700	240	38	21
flex-N-M55-CS77022-8-20-2001-(2)	13.00	9.78	7.80	5.76	4.57	3.22	1.92	1.55	700	248	33	21
flex-N-M55-CS77022-8-20-2001-(2)	14.85	11.27	8.93	6.52	5.09	3.37	1.93	1.42	700	237	25	21
flex-N-M55-CS77022-8-20-2001-(2)	16.42	12.72	10.03	7.29	5.66	3.62	1.97	1.70	700	239	20	20
flex-N-M55-CS77022-8-20-2001-(2)	13.39	10.13	7.98	5.84	4.65	3.16	1.92	1.76	700	236	32	22
flex-N-M55-CS77022-8-20-2001-(2)	17.09	12.65	10.15	7.64	5.94	3.82	2.01	1.88	700	246	19	19
flex-N-M55-CS77022-8-20-2001-(2)	13.30	10.00	7.90	5.80	4.60	3.19	1.94	1.72	700	231	33	21
flex-N-M55-CS77022-8-20-2001-(2)	14.13	10.38	8.03	5.82	4.54	3.14	1.89	1.84	700	195	32	22
flex-N-M55-CS77022-8-20-2001-(2)	14.18	10.46	8.16	5.93	4.64	3.16	1.90	1.62	700	206	30	21
flex-N-M55-CS77022-8-20-2001-(2)	14.37	10.43	8.00	5.76	4.54	3.14	1.87	1.86	700	186	32	22
flex-N-M55-CS77022-8-20-2001-(2)	13.30	9.81	7.82	5.76	4.58	3.21	1.86	1.50	700	239	33	22
flex-N-M55-CS77022-8-20-2001-(2)	16.85	12.57	10.11	7.49	5.88	3.82	2.04	1.76	700	244	20	19
flex-N-M55-CS77022-8-20-2001-(2)	12.43	9.38	7.40	5.47	4.32	2.98	1.81	1.62	700	255	35	23
flex-N-M55-CS77022-8-20-2001-(2)	15.14	11.71	9.38	7.02	5.52	3.61	1.92	1.80	700	293	21	20
flex-N-M55-CS77022-8-20-2001-(2)	15.10	11.73	9.44	7.09	5.60	3.69	1.98	1.71	700	296	21	20
flex-N-M55-CS77022-8-20-2001-(2)	12.95	9.97	8.03	5.95	4.79	3.35	2.01	1.64	700	271	33	20
flex-N-I75-CS69014-11-12-1997	16.77	12.56	10.31	8.15	6.26	3.90	2.05	1.81	700	388	20	18
flex-N-I75-CS69014-11-12-1997	10.12	7.80	6.57	5.31	4.17	2.80	1.61	1.21	700	647	41	24
flex-N-I75-CS69014-11-12-1997	7.40	6.22	5.31	4.37	3.46	2.32	1.38	1.48	700	1,174	48	29
flex-N-I75-CS69014-11-12-1997	11.26	8.03	6.30	4.69	3.58	2.44	1.50	1.51	700	295	47	26
flex-N-I75-CS69014-11-12-1997	9.17	5.79	4.65	3.58	2.76	1.77	1.14	3.36	700	305	67	35
flex-N-I75-CS69014-11-12-1997	8.03	6.85	5.98	4.88	3.90	2.44	1.06	0.56	700	1,717	21	36
flex-N-I75-CS69014-11-12-1997	10.67	8.35	6.46	4.72	3.31	1.89	0.98	1.90	700	467	29	37

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-N-I75-CS69014-11-12-1997	7.91	6.50	5.47	4.29	3.31	2.09	1.02	0.60	700	1,116	33	36
flex-N-I75-CS69014-11-12-1997	11.69	8.58	7.09	5.51	4.25	2.68	1.57	1.81	700	436	36	24
flex-N-I75-CS69014-11-12-1997	9.21	8.15	7.24	6.02	4.88	3.11	1.50	0.90	700	1,624	19	26
flex-N-I75-CS69014-11-12-1997	12.64	7.99	6.22	4.29	3.03	1.73	0.91	1.92	700	267	33	39
flex-N-I75-CS69014-11-12-1997	7.44	6.26	5.31	4.29	3.27	2.05	1.06	1.26	700	1,222	35	35
flex-N-I75-CS69014-11-12-1997	11.50	9.49	7.99	6.18	4.72	2.72	1.22	0.49	700	798	18	29
flex-N-I75-CS69014-11-12-1997	9.84	8.39	7.13	5.59	4.41	2.76	1.50	1.52	700	875	29	25
flex-N-I75-CS69014-11-12-1997	7.76	6.77	5.98	5.04	4.09	2.80	1.38	0.65	700	1,989	25	28
flex-N-I75-CS69014-11-12-1997	9.80	8.39	7.32	5.98	4.76	3.15	1.61	0.36	700	1,175	25	24
flex-N-I75-CS69014-11-12-1997	10.67	8.07	6.57	5.12	3.94	2.56	1.38	1.15	700	548	36	27
flex-N-I75-CS69014-11-12-1997	8.66	7.72	6.69	5.63	4.57	3.15	1.77	1.18	700	1,416	33	22
flex-N-I75-CS69014-11-12-1997	7.05	6.06	5.35	4.53	3.62	2.44	1.34	1.02	700	1,757	37	29
flex-N-I75-CS69014-11-12-1997	6.89	5.94	5.28	4.37	3.54	2.44	1.30	0.35	700	1,862	37	30
flex-N-I75-CS69014-11-12-1997	7.01	5.98	5.24	4.41	3.54	2.40	1.38	1.13	700	1,539	44	28
flex-N-I75-CS69014-11-12-1997	6.85	5.87	5.16	4.33	3.46	2.40	1.38	0.96	700	1,595	46	28
flex-N-I75-CS69014-11-12-1997	8.58	7.01	5.94	4.53	3.54	2.28	1.14	0.99	700	950	33	32
flex-N-I75-CS69014-11-12-1997	8.07	6.73	5.83	4.76	3.74	2.32	0.91	1.57	700	1,745	18	41
flex-N-I75-CS69014-11-12-1997	7.83	6.34	5.31	4.13	3.11	1.89	0.91	0.50	700	1,063	32	40
flex-N-I75-CS69014-11-12-1997	8.50	6.85	5.67	4.33	3.31	1.97	1.10	1.99	700	761	37	34
flex-N-I75-CS69014-11-12-1997	6.85	5.87	5.16	4.17	3.35	2.17	1.02	0.35	700	1,899	29	38
flex-N-I75-CS69014-11-12-1997	10.16	7.80	6.14	4.53	3.31	1.85	0.94	1.15	700	549	30	39
flex-N-I75-CS69014-11-12-1997	7.52	6.34	5.39	4.37	3.35	1.89	0.79	1.19	700	1,524	23	47
flex-N-I75-CS69014-11-12-1997	9.65	7.95	6.89	5.67	4.53	3.15	1.81	0.59	700	921	38	21
flex-N-I75-CS69014-11-12-1997	7.32	6.22	5.51	4.65	3.78	2.64	1.46	0.60	700	1,704	40	27

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-N-I75-CS69014-11-12-1997	11.18	8.11	6.61	5.04	3.86	2.48	1.38	1.05	700	438	38	27
flex-N-I75-CS69014-11-12-1997	8.74	6.93	5.83	4.80	3.78	2.52	1.42	1.31	700	885	42	27
flex-N-I75-CS69014-11-12-1997	8.43	6.77	5.79	4.65	3.74	2.52	1.38	0.80	700	988	41	28
flex-N-I75-CS69014-08-03-1999	8.35	6.38	5.00	3.78	2.83	1.81	0.98	1.01	700	540	42	35
flex-N-I75-CS69014-08-03-1999	7.64	5.71	4.41	3.43	2.52	1.73	1.02	1.97	700	454	57	34
flex-N-I75-CS69014-08-03-1999	7.32	5.59	4.53	3.58	2.72	1.89	1.10	1.20	700	616	57	32
flex-N-I75-CS69014-08-03-1999	7.64	5.94	4.80	3.82	2.91	2.01	1.18	1.26	700	615	53	30
flex-N-I75-CS69014-08-03-1999	7.68	5.75	4.72	3.66	2.87	1.97	1.26	1.91	700	487	62	29
flex-N-I75-CS69014-08-03-1999	8.35	6.02	4.65	3.66	2.83	2.05	1.26	1.57	700	347	65	28
flex-N-I75-CS69014-08-03-1999	7.91	5.87	4.65	3.70	2.80	1.97	1.14	1.50	700	489	57	30
flex-N-I75-CS69014-08-03-1999	9.25	6.97	5.55	4.33	3.27	2.20	1.30	1.28	700	444	45	27
flex-N-I75-CS69014-08-03-1999	10.63	8.07	6.46	5.08	3.90	2.60	1.46	1.11	700	439	36	23
flex-N-I75-CS69014-08-03-1999	9.41	7.32	6.02	4.88	3.82	2.72	1.65	1.10	700	503	47	21
flex-N-I75-CS69014-08-03-1999	8.86	6.61	5.28	4.21	3.31	2.20	1.26	1.57	700	508	46	27
flex-N-I75-CS69014-08-03-1999	9.33	6.93	5.43	4.17	3.15	2.05	1.14	1.07	700	443	41	30
flex-N-I75-CS69014-08-03-1999	9.65	6.97	5.28	4.02	2.95	1.97	1.06	1.82	700	367	42	32
flex-N-I75-CS69014-08-03-1999	9.72	6.73	4.96	3.62	2.60	1.69	0.91	1.71	700	301	42	37
flex-N-I75-CS69014-08-03-1999	8.43	6.30	5.04	3.94	3.03	2.01	1.14	1.01	700	523	47	30
flex-N-I75-CS69014-08-03-1999	8.46	6.02	4.69	3.50	2.60	1.69	0.91	1.36	700	434	46	37
flex-N-I75-CS69014-08-03-1999	7.28	5.31	4.17	3.35	2.52	1.69	0.98	1.79	700	530	59	35
flex-N-I75-CS69014-08-03-1999	7.17	5.28	4.25	3.31	2.44	1.61	0.91	1.29	700	603	53	38
flex-N-I75-CS69014-08-03-1999	7.28	5.55	4.57	3.62	2.83	1.93	1.14	0.83	700	652	56	31
flex-N-I75-CS69014-08-03-1999	7.20	5.59	4.57	3.78	2.95	2.09	1.18	1.79	700	765	55	29
flex-N-I75-CS69014-08-03-1999	7.32	5.51	4.53	3.66	2.95	2.05	1.18	1.59	700	679	58	29

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-N-I75-CS69014-08-03-1999	8.74	6.26	4.96	3.86	2.95	2.01	1.10	1.74	700	446	48	31
flex-N-I75-CS69014-08-03-1999	8.43	6.50	5.31	4.17	3.35	2.17	1.18	1.47	700	685	41	29
flex-N-I75-CS69014-08-03-1999	10.39	7.99	6.46	5.04	3.78	2.36	1.14	1.91	700	603	26	28
flex-N-I75-CS69014-08-03-1999	10.08	7.52	5.71	4.29	3.07	1.89	0.98	1.61	700	411	33	33
flex-N-I75-CS69014-08-03-1999	11.57	8.43	6.54	4.92	3.66	2.32	1.22	1.50	700	358	31	27
flex-N-I75-CS69014-08-03-1999	10.51	7.76	6.18	4.88	3.78	2.72	1.61	1.08	700	341	46	22
flex-N-I75-CS69014-08-03-1999	8.70	6.42	5.20	4.17	3.31	2.32	1.42	1.08	700	441	56	25
flex-N-I75-CS69014-08-03-1999	9.84	6.93	5.28	4.02	3.07	2.13	1.22	1.20	700	296	49	28
flex-N-I75-CS69014-08-03-1999	9.37	7.09	5.79	4.72	3.74	2.64	1.50	1.80	700	528	45	23
flex-N-I75-CS69014-08-03-1999	10.04	7.40	5.94	4.72	3.70	2.56	1.42	1.86	700	437	41	24
flex-N-I75-CS69014-08-03-1999	10.31	7.17	5.55	4.21	3.19	2.13	1.26	1.13	700	289	45	27
flex-N-I75-CS69014-08-03-1999	7.68	5.31	3.98	3.03	2.24	1.54	0.87	1.64	700	366	61	39
flex-N-I75-CS69014-08-03-1999	9.06	6.38	5.04	3.94	3.07	2.13	1.26	1.04	700	352	54	27
flex-N-I75-CS69014-08-03-1999	9.88	6.77	5.16	3.90	2.99	2.13	1.26	1.07	700	252	54	28
flex-N-I75-CS69014-08-03-1999	9.21	6.54	5.04	3.86	2.99	1.93	1.06	1.90	700	377	45	31
flex-N-I75-CS69014-08-03-1999	7.68	5.31	4.13	3.19	2.44	1.57	0.94	1.83	700	411	60	37
flex-N-I75-CS69014-08-03-1999	9.21	6.54	5.00	3.82	2.87	1.89	1.02	1.79	700	377	45	33
flex-N-I75-CS69014-08-03-1999	9.49	7.09	5.75	4.53	3.50	2.40	1.34	1.30	700	481	42	25
flex-N-I75-CS69014-08-03-1999	10.31	7.17	5.51	4.06	2.95	1.85	0.98	1.27	700	337	37	34
flex-N-I75-CS69014-08-03-1999	10.39	7.44	5.71	4.33	3.39	2.24	1.26	1.44	700	324	42	27
flex-N-I75-CS69014-08-03-1999	9.21	6.34	4.80	3.50	2.68	1.81	1.02	0.87	700	296	51	33
flex-N-I75-CS69014-08-03-1999	8.74	5.91	4.49	3.39	2.56	1.73	1.06	1.63	700	284	59	33
flex-N-I75-CS69014-08-03-1999	9.09	6.73	5.35	4.02	3.03	1.89	1.06	0.87	700	455	39	32
flex-N-I75-CS69014-08-03-1999	8.58	5.87	4.45	3.23	2.40	1.50	0.79	1.67	700	366	46	41

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-N-I75-CS69014-08-03-1999	7.99	5.59	4.17	2.91	2.05	1.22	0.63	1.04	700	413	45	52
flex-N-I75-CS69014-08-03-1999	7.83	5.59	4.33	3.15	2.28	1.50	0.79	1.43	700	457	49	43
flex-N-I75-CS69014-08-03-1999	7.28	5.20	4.13	2.99	2.20	1.38	0.79	1.00	700	490	53	44
flex-N-I75-CS69014-08-03-1999	7.52	5.51	4.41	3.35	2.56	1.69	0.98	0.66	700	514	55	35
flex-N-I75-CS69014-08-03-1999	7.99	5.71	4.41	3.35	2.52	1.69	0.98	1.04	700	405	56	35
flex-N-I75-CS69014-08-03-1999	7.28	5.31	4.17	3.15	2.32	1.54	0.87	1.01	700	508	55	39
flex-N-I75-CS69014-08-03-1999	7.28	5.59	4.57	3.43	2.60	1.77	0.98	1.04	700	627	52	35
flex-N-I75-CS69014-08-03-1999	7.95	6.02	4.92	3.86	2.95	1.97	1.14	0.92	700	588	49	30
flex-N-I75-CS69014-08-03-1999	9.02	6.61	5.24	4.02	3.03	2.09	1.14	1.45	700	427	45	29
flex-N-I75-CS69014-08-03-1999	10.20	7.48	5.98	4.57	3.50	2.36	1.38	0.60	700	369	42	25
flex-N-I75-CS69014-08-03-1999	10.08	7.28	5.75	4.41	3.35	2.28	1.34	0.91	700	343	45	26
flex-N-I75-CS69014-08-03-1999	7.83	5.75	4.57	3.46	2.64	1.77	1.02	0.64	700	476	54	34
flex-N-I75-CS69014-08-03-1999	8.90	6.73	5.39	4.25	3.31	2.32	1.46	1.60	700	415	54	24
flex-N-I75-CS69014-08-03-1999	8.15	6.18	5.04	4.02	3.23	2.40	1.50	0.84	700	457	66	24
flex-N-I75-CS69014-08-03-1999	8.46	6.54	5.24	4.09	3.11	2.09	1.26	1.67	700	505	48	28
flex-N-I75-CS69014-08-03-1999	7.52	5.51	4.41	3.43	2.64	1.81	1.10	1.17	700	470	61	32
flex-N-I75-CS69014-08-03-1999	7.05	5.39	4.53	3.58	2.91	1.89	1.10	1.50	700	803	53	31
flex-N-I75-CS69014-08-03-1999-(2)	6.57	5.00	3.86	2.91	2.20	1.46	0.91	1.79	700	599	63	45
flex-N-I75-CS69014-08-03-1999-(2)	6.77	4.96	3.86	2.87	2.13	1.50	0.91	1.64	700	498	66	45
flex-N-I75-CS69014-08-03-1999-(2)	5.98	4.37	3.50	2.76	2.13	1.50	0.98	1.75	700	593	84	42
flex-N-I75-CS69014-08-03-1999-(2)	7.36	5.59	4.45	3.54	2.72	1.93	1.22	1.48	700	559	62	33
flex-N-I75-CS69014-08-03-1999-(2)	7.05	5.31	4.25	3.43	2.64	1.89	1.22	1.64	700	566	69	34
flex-N-I75-CS69014-08-03-1999-(2)	8.03	5.94	4.61	3.58	2.72	1.89	1.14	1.36	700	466	55	35
flex-N-I75-CS69014-08-03-1999-(2)	7.48	5.59	4.45	3.43	2.56	1.73	1.10	1.89	700	525	57	37

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-N-I75-CS69014-08-03-1999-(2)	7.64	5.83	4.69	3.70	2.87	2.01	1.30	1.54	700	546	60	32
flex-N-I75-CS69014-08-03-1999-(2)	9.06	6.61	5.31	4.13	3.27	2.28	1.46	0.87	700	405	54	28
flex-N-I75-CS69014-08-03-1999-(2)	7.17	5.43	4.33	3.35	2.64	1.73	1.02	1.13	700	657	53	38
flex-N-I75-CS69014-08-03-1999-(2)	8.50	6.46	5.20	4.02	3.03	1.97	1.14	0.87	700	589	41	34
flex-N-I75-CS69014-08-03-1999-(2)	7.20	5.31	4.13	3.15	2.36	1.46	0.87	1.61	700	593	50	45
flex-N-I75-CS69014-08-03-1999-(2)	6.81	5.00	3.90	2.95	2.17	1.30	0.75	1.56	700	657	49	52
flex-N-I75-CS69014-08-03-1999-(2)	7.60	5.63	4.29	3.15	2.24	1.42	0.79	1.38	700	525	45	48
flex-N-I75-CS69014-08-03-1999-(2)	7.13	5.24	4.13	3.15	2.40	1.61	0.98	0.86	700	536	59	40
flex-N-I75-CS69014-08-03-1999-(2)	6.10	4.61	3.66	2.91	2.20	1.57	0.91	1.93	700	744	67	43
flex-N-I75-CS69014-08-03-1999-(2)	6.73	4.84	3.82	2.83	2.13	1.34	0.79	0.85	700	591	56	50
flex-N-I75-CS69014-08-03-1999-(2)	7.60	5.55	4.37	3.39	2.56	1.65	0.94	1.58	700	586	49	41
flex-N-I75-CS69014-08-03-1999-(2)	6.26	4.45	3.54	2.72	2.09	1.38	0.83	1.20	700	615	67	47
flex-N-I75-CS69014-08-03-1999-(2)	7.28	5.43	4.33	3.43	2.56	1.69	0.94	1.85	700	702	48	41
flex-N-I75-CS69014-08-03-1999-(2)	7.44	5.51	4.53	3.58	2.72	1.85	1.06	1.60	700	689	50	37
flex-N-I75-CS69014-08-03-1999-(2)	7.91	5.94	4.80	3.78	2.95	2.01	1.26	1.12	700	550	54	32
flex-N-I75-CS69014-08-03-1999-(2)	6.89	4.84	3.74	2.76	2.05	1.30	0.75	0.97	700	529	56	52
flex-N-I75-CS69014-08-03-1999-(2)	7.17	5.16	4.06	3.11	2.40	1.57	0.94	1.23	700	540	58	41
flex-N-I75-CS69014-08-03-1999-(2)	9.21	6.69	5.16	3.74	2.68	1.65	0.91	0.98	700	437	37	42
flex-N-I75-CS69014-08-03-1999-(2)	8.86	6.54	5.12	4.02	3.23	2.36	1.46	1.21	700	385	58	27
flex-N-I75-CS69014-08-03-1999-(2)	7.64	5.83	4.72	3.78	2.91	1.97	1.14	1.41	700	706	48	34
flex-N-I75-CS69014-08-03-1999-(2)	8.19	6.02	4.84	3.78	2.91	1.97	1.18	1.04	700	525	50	33
flex-N-I75-CS69014-08-03-1999-(2)	7.87	5.87	4.69	3.70	2.87	1.97	1.22	1.14	700	530	55	33
flex-N-I75-CS69014-08-03-1999-(2)	8.86	6.54	5.20	4.09	3.23	2.20	1.30	1.57	700	483	47	30
flex-N-I75-CS69014-08-03-1999-(2)	7.09	5.16	4.09	3.19	2.40	1.57	0.94	1.40	700	590	56	41

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-N-I75-CS69014-08-03-1999-(2)	9.33	6.81	5.43	4.17	3.11	2.01	1.14	1.30	700	485	38	33
flex-N-I75-CS69014-08-03-1999-(2)	7.83	5.31	4.09	2.99	2.09	1.26	0.71	1.60	700	454	46	53
flex-N-I75-CS69014-08-03-1999-(2)	7.48	5.00	3.66	2.44	1.69	0.98	0.51	1.71	700	412	47	70
flex-N-I75-CS69014-08-03-1999-(2)	7.01	5.00	3.90	3.03	2.28	1.61	1.02	1.58	700	450	70	39
flex-N-I75-CS69014-08-03-1999-(2)	7.60	5.59	4.37	3.43	2.68	1.89	1.14	1.24	700	481	60	34
flex-N-I75-CS69014-08-03-1999-(2)	9.88	7.17	5.55	4.17	3.19	2.09	1.22	1.03	700	382	40	31
flex-N-I75-CS69014-08-03-1999-(2)	8.50	6.18	4.76	3.54	2.60	1.57	0.87	1.35	700	507	39	43
flex-N-I75-CS69014-08-03-1999-(2)	9.76	7.01	5.47	4.13	3.19	2.09	1.18	1.66	700	412	40	32
flex-N-I75-CS69014-08-03-1999-(2)	9.09	6.73	5.39	4.25	3.31	2.24	1.30	1.61	700	507	43	30
flex-N-I75-CS69014-08-03-1999-(2)	8.62	6.18	4.76	3.62	2.72	1.77	1.02	1.38	700	440	45	37
flex-N-I75-CS69014-08-03-1999-(2)	8.62	5.98	4.57	3.43	2.64	1.77	1.14	1.69	700	318	58	35
flex-N-I75-CS69014-08-03-1999-(2)	8.58	6.10	4.69	3.66	2.83	1.97	1.26	1.56	700	351	58	32
flex-N-I75-CS69014-08-03-1999-(2)	7.95	5.16	3.74	2.60	1.81	1.10	0.63	1.06	700	329	52	60
flex-N-I75-CS69014-08-03-1999-(2)	7.01	4.88	3.74	2.64	1.89	1.14	0.67	0.93	700	491	55	59
flex-N-I75-CS69014-08-03-1999-(2)	7.48	5.04	3.74	2.72	1.93	1.26	0.75	1.40	700	374	60	53
flex-N-I75-CS69014-08-03-1999-(2)	5.79	4.17	3.35	2.52	1.89	1.30	0.79	0.87	700	651	76	52
flex-N-I75-CS69014-08-03-1999-(2)	7.20	5.00	3.78	2.76	2.01	1.30	0.79	1.26	700	427	60	51
flex-N-I75-CS69014-08-03-1999-(2)	6.81	4.76	3.66	2.72	2.01	1.30	0.79	1.15	700	490	63	51
flex-N-I75-CS69014-08-03-1999-(2)	6.61	4.61	3.46	2.52	1.81	1.22	0.75	1.84	700	432	69	55
flex-N-I75-CS69014-08-03-1999-(2)	7.76	5.55	4.45	3.35	2.52	1.65	0.98	0.79	700	511	52	40
flex-N-I75-CS69014-08-03-1999-(2)	7.36	5.24	4.13	3.11	2.36	1.57	0.91	1.15	700	526	56	43
flex-N-I75-CS69014-08-03-1999-(2)	8.66	6.10	4.80	3.62	2.72	1.89	1.22	1.84	700	354	57	34
flex-N-I75-CS69014-08-03-1999-(2)	8.15	6.02	4.80	3.70	2.76	1.85	1.14	1.41	700	504	51	36
flex-N-I75-CS69014-08-03-1999-(2)	8.62	6.46	5.12	4.02	2.99	2.01	1.22	1.47	700	503	46	33

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-N-I75-CS69014-08-03-1999-(2)	9.06	6.61	5.20	3.90	3.03	2.09	1.26	0.62	700	395	49	32
flex-N-I75-CS69014-08-03-1999-(2)	7.01	5.16	4.09	3.11	2.32	1.50	0.91	1.22	700	591	54	44
flex-N-I75-CS69014-08-03-1999-(2)	7.60	5.67	4.65	3.66	2.83	2.01	1.22	0.90	700	583	57	33
flex-N-I75-CS69014-08-03-1999-(2)	7.17	5.31	4.29	3.39	2.60	1.89	1.22	1.53	700	507	70	34
flex-N-I75-CS69014-08-03-1999-(2)	6.61	4.76	3.86	3.03	2.36	1.61	1.06	1.86	700	555	74	39
flex-N-I75-CS69014-08-03-1999-(2)	7.20	5.39	4.37	3.39	2.60	1.77	1.14	1.63	700	565	61	36
flex-N-I75-CS69014-11-23-1997	14.88	12.56	10.67	8.54	6.69	4.21	2.13	0.60	700	667	17	18
flex-N-I75-CS69014-11-23-1997	7.87	6.61	5.71	4.69	3.82	2.60	1.50	0.58	700	1,224	45	26
flex-N-I75-CS69014-11-23-1997	7.68	6.30	5.35	4.37	3.50	2.40	1.42	0.75	700	1,030	52	28
flex-N-I75-CS69014-11-23-1997	12.36	9.29	7.64	5.79	4.45	2.91	1.73	1.17	700	387	36	22
flex-N-I75-CS69014-11-23-1997	11.46	9.29	7.87	6.18	4.88	3.19	1.77	0.41	700	659	30	22
flex-N-I75-CS69014-11-23-1997	8.39	7.05	5.98	4.57	3.58	2.36	1.34	1.66	700	867	41	29
flex-N-I75-CS69014-11-23-1997	8.11	6.85	5.83	4.45	3.54	2.36	1.38	1.87	700	881	45	28
flex-N-I75-CS69014-11-23-1997	9.53	7.52	6.18	4.84	3.82	2.36	1.22	1.28	700	790	33	31
flex-N-I75-CS69014-11-23-1997	8.50	7.40	6.69	5.79	4.80	3.50	2.13	0.83	700	1,624	41	19
flex-N-I75-CS69014-11-23-1997	10.31	8.39	7.13	5.67	4.53	2.99	1.65	0.34	700	780	33	23
flex-N-I75-CS69014-11-23-1997	8.11	6.65	5.59	4.33	3.31	2.09	1.14	1.21	700	896	39	33
flex-N-I75-CS69014-11-23-1997	7.91	6.38	5.43	4.25	3.27	2.09	1.10	0.42	700	1,001	39	34
flex-N-I75-CS69014-11-23-1997	10.98	8.46	6.85	5.12	3.86	2.40	1.34	0.92	700	481	34	28
flex-N-I75-CS69014-11-23-1997	6.77	5.43	4.57	3.70	2.87	1.85	0.94	1.20	700	1,305	43	40
flex-N-I75-CS69014-11-23-1997	6.85	5.75	4.92	4.06	3.19	2.13	1.14	0.74	700	1,451	43	34
flex-N-I75-CS69014-11-23-1997	6.77	5.59	4.76	3.90	3.03	2.05	1.14	0.90	700	1,256	50	34
flex-N-I75-CS69014-11-23-1997	7.91	6.30	5.39	4.29	3.43	2.32	1.30	0.50	700	953	47	29
flex-N-I75-CS69014-11-23-1997	9.41	7.87	6.77	5.67	4.53	3.19	1.77	0.96	700	1,054	36	22

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-N-I75-CS69014-11-23-1997	9.13	7.68	6.65	5.55	4.45	3.15	1.77	0.77	700	1,098	37	22
flex-N-I75-CS69014-11-23-1997	10.31	8.58	7.24	5.83	4.53	2.99	1.65	0.90	700	789	31	23
flex-N-I75-CS69014-11-23-1997	10.16	7.91	6.54	5.20	4.06	2.80	1.61	0.69	700	568	42	24
flex-N-I75-CS69014-11-23-1997	10.87	8.39	6.73	4.96	3.58	2.05	0.91	1.34	700	614	24	38
flex-N-I75-CS69014-11-23-1997	8.58	6.57	5.39	4.13	3.15	2.01	1.10	0.49	700	675	43	34
flex-N-I75-CS69014-11-23-1997	8.11	6.73	5.79	4.76	3.66	2.36	1.30	1.47	700	1,125	36	30
flex-N-I75-CS69014-11-23-1997	10.98	7.48	5.83	4.37	3.31	2.13	1.26	1.42	700	303	46	30
flex-N-I75-CS69014-11-23-1997	8.39	7.01	5.98	4.80	3.78	2.60	1.50	0.96	700	944	43	26
flex-N-I75-CS69014-11-23-1997	6.73	5.67	4.88	3.98	3.15	2.05	1.02	0.51	700	1,635	36	37
flex-N-I75-CS69014-11-23-1997	9.92	7.52	5.83	4.29	3.07	1.73	0.79	1.68	700	583	28	43
flex-N-I75-CS69014-11-23-1997	7.09	6.06	5.24	4.41	3.46	2.24	0.98	1.27	700	2,027	23	39
flex-N-I75-CS69014-11-23-1997	10.16	7.87	6.10	4.49	3.31	1.93	0.94	1.33	700	543	30	37
flex-N-I75-CS69014-11-23-1997	11.30	8.70	7.13	5.59	4.21	2.60	1.46	1.51	700	531	31	26
flex-N-I75-CS69014-11-23-1997	9.88	6.81	5.12	3.70	2.72	1.65	0.91	1.11	700	349	44	40
flex-N-I75-CS69014-11-23-1997	10.94	7.76	5.94	4.13	3.19	1.97	1.02	1.86	700	345	38	35
flex-N-I75-CS69014-11-23-1997	7.76	6.02	5.08	4.02	3.07	1.93	0.94	1.51	700	1,057	37	39
flex-N-I75-CS69014-11-23-1997	9.92	7.52	6.14	4.88	3.70	2.32	1.30	1.58	700	594	37	29
flex-N-I75-CS69014-11-23-1997	12.01	9.09	7.13	5.28	3.90	2.36	1.34	1.58	700	380	32	28
flex-N-I75-CS69014-11-23-1997	8.74	7.13	5.98	4.76	3.78	2.56	1.50	0.77	700	786	44	26
flex-N-I75-CS69014-11-23-1997	7.24	6.18	5.31	4.29	3.35	2.20	1.22	1.28	700	1,261	41	31
flex-N-I75-CS69014-11-23-1997	9.21	7.36	6.06	4.65	3.58	2.20	1.14	0.54	700	759	33	32
flex-N-I75-CS69014-11-23-1997	7.60	6.22	5.24	4.17	3.15	2.05	1.10	1.08	700	1,007	41	34
flex-N-I75-CS69014-11-23-1997	10.71	8.74	7.24	5.63	4.25	2.56	1.30	0.86	700	705	25	28
flex-N-I75-CS69014-11-23-1997	9.53	7.68	6.38	5.12	3.98	2.64	1.38	1.16	700	825	33	27

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-N-I75-CS69014-11-23-1997	8.27	6.85	5.83	4.72	3.66	2.44	1.34	0.84	700	1,024	38	28
flex-N-I75-CS69014-11-23-1997	8.43	6.93	5.94	4.84	3.90	2.72	1.61	0.57	700	920	47	24
flex-N-I75-CS69014-11-23-1997	8.54	6.93	5.83	4.65	3.46	2.09	0.91	1.24	700	1,138	24	39
flex-N-I75-CS69014-11-23-1997	8.15	6.77	5.79	4.57	3.58	2.28	1.18	0.29	700	1,097	33	32
flex-N-I75-CS69014-11-23-1997	9.53	7.72	6.30	4.92	3.70	2.24	1.18	1.20	700	725	31	31
flex-N-I75-CS69014-11-23-1997	7.68	6.38	5.39	4.33	3.31	2.09	1.06	0.81	700	1,155	34	35
flex-N-I75-CS69014-11-23-1997	7.60	6.54	5.71	4.69	3.74	2.60	1.42	0.73	700	1,417	38	27
flex-N-I75-CS69014-11-23-1997	7.24	6.06	5.24	4.25	3.31	2.20	1.26	1.33	700	1,178	45	30
flex-N-I75-CS69014-11-23-1997	7.60	6.46	5.71	4.69	3.86	2.68	1.61	0.97	700	1,280	48	24
flex-N-I75-CS69014-11-23-1997	8.07	6.42	5.31	4.17	3.19	1.93	0.91	1.24	700	1,043	31	40
flex-N-I75-CS69014-11-23-1997	8.11	6.81	5.94	4.80	3.82	2.48	1.34	0.71	700	1,221	34	28
flex-N-I75-CS69014-11-23-1997	8.27	6.61	5.55	4.37	3.39	2.13	1.22	1.53	700	817	42	31
flex-N-I75-CS69014-11-23-1997	6.77	5.55	4.65	3.62	2.68	1.65	0.83	1.05	700	1,142	39	44
flex-N-I75-CS69014-11-23-1997	7.44	5.87	4.80	3.70	2.72	1.61	0.83	1.01	700	880	39	44
flex-N-I75-CS69014-11-23-1997	7.36	6.06	5.08	4.06	3.11	2.01	1.10	1.06	700	1,035	43	34
flex-N-I75-CS69014-11-23-1997	7.17	5.91	4.96	3.90	3.07	1.97	1.06	0.60	700	1,097	43	35
flex-N-I75-CS69014-11-23-1997	9.45	7.17	5.98	4.57	3.46	2.09	1.14	1.31	700	639	36	33
flex-N-I75-CS69014-11-23-1997	6.93	5.67	4.88	3.98	3.07	1.97	1.06	1.13	700	1,290	42	36
flex-N-I75-CS69014-11-23-1997	7.60	6.34	5.47	4.53	3.54	2.32	1.26	1.02	700	1,293	37	30
flex-N-I75-CS69014-11-23-1997	7.64	6.34	5.39	4.37	3.43	2.28	1.22	0.61	700	1,174	39	31
flex-N-I75-CS69014-11-23-1997	7.99	6.42	5.47	4.33	3.39	2.28	1.34	0.94	700	840	48	28
flex-N-I75-CS69014-11-23-1997	7.40	6.10	5.16	4.13	3.19	2.09	1.22	1.69	700	988	47	32
flex-N-I75-CS69014-11-23-1997	11.22	8.90	7.28	5.47	4.09	2.60	1.50	1.84	700	487	32	25
flex-N-I75-CS69014-08-04-1999	8.54	6.38	4.92	3.78	2.99	2.01	1.22	1.59	700	401	54	29

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-N-I75-CS69014-08-04-1999	8.46	6.02	4.92	3.86	2.99	2.05	1.26	1.43	700	414	57	28
flex-N-I75-CS69014-08-04-1999	8.23	5.98	4.69	3.66	2.87	2.09	1.34	1.89	700	341	69	27
flex-N-I75-CS69014-08-04-1999	9.09	6.65	5.28	4.17	3.35	2.40	1.46	0.86	700	366	58	24
flex-N-I75-CS69014-08-04-1999	9.06	6.14	4.61	3.39	2.56	1.73	1.06	1.82	700	266	57	34
flex-N-I75-CS69014-08-04-1999	8.07	5.31	4.06	3.07	2.36	1.65	0.98	0.84	700	291	69	36
flex-N-I75-CS69014-08-04-1999	9.37	6.97	5.63	4.45	3.50	2.52	1.54	0.79	700	393	53	23
flex-N-I75-CS69014-08-04-1999	9.02	6.77	5.51	4.37	3.35	2.32	1.38	1.08	700	473	48	25
flex-N-I75-CS69014-08-04-1999	10.51	7.56	6.02	4.69	3.58	2.44	1.42	1.02	700	347	42	24
flex-N-I75-CS69014-08-04-1999	9.65	6.73	5.20	3.78	2.83	1.81	1.02	0.53	700	327	43	33
flex-N-I75-CS69014-08-04-1999	9.37	6.65	5.28	4.09	3.11	2.13	1.18	1.56	700	391	46	29
flex-N-I75-CS69014-08-04-1999	8.46	5.79	4.41	3.35	2.48	1.61	0.91	1.51	700	366	52	38
flex-N-I75-CS69014-08-04-1999	9.92	7.24	5.79	4.76	3.74	2.68	1.65	1.61	700	356	52	21
flex-N-I75-CS69014-08-04-1999	9.21	6.34	5.04	4.02	3.07	2.17	1.30	1.59	700	324	56	26
flex-N-I75-CS69014-08-04-1999	9.45	6.57	5.16	3.98	2.95	1.93	1.10	1.54	700	359	45	31
flex-N-I75-CS69014-08-04-1999	10.35	6.93	5.04	3.66	2.76	1.81	1.06	1.47	700	221	47	32
flex-N-I75-CS69014-08-04-1999	9.09	6.26	4.92	3.78	2.95	1.89	1.10	1.87	700	366	49	31
flex-N-I75-CS69014-08-04-1999	8.58	6.10	4.84	3.78	2.87	1.97	1.22	1.70	700	370	57	29
flex-N-I75-CS69014-08-04-1999	8.62	6.02	4.72	3.50	2.52	1.61	0.94	1.69	700	372	48	36
flex-N-I75-CS69014-08-04-1999	7.83	5.43	4.09	3.07	2.40	1.65	1.02	1.66	700	313	68	35
flex-N-I75-CS69014-08-04-1999	10.04	6.81	5.08	3.74	2.87	1.93	1.10	1.05	700	254	49	31
flex-N-I75-CS69014-08-04-1999	9.88	6.54	4.92	3.78	2.95	2.13	1.26	1.10	700	222	59	27
flex-N-I75-CS69014-08-04-1999	9.09	5.87	4.37	3.35	2.48	1.69	0.98	1.66	700	252	58	35
flex-N-I75-CS69014-08-04-1999	10.43	6.97	5.28	4.06	3.15	2.24	1.30	1.28	700	226	52	26
flex-N-I75-CS69014-08-04-1999	10.28	7.13	5.47	4.13	3.15	2.09	1.22	1.04	700	283	45	28

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-N-I75-CS69014-08-04-1999	9.76	6.77	5.16	3.82	2.95	2.01	1.22	1.33	700	263	52	29
flex-N-I75-CS69014-08-04-1999	9.37	6.61	5.08	3.82	2.83	1.81	0.94	1.97	700	392	40	34
flex-N-I75-CS69014-08-04-1999	9.09	6.34	4.84	3.62	2.72	1.73	0.94	1.45	700	368	44	35
flex-N-I75-CS69014-08-04-1999	8.31	5.94	4.57	3.46	2.56	1.65	0.87	1.93	700	450	45	37
flex-N-I75-CS69014-08-04-1999	9.09	6.61	5.28	4.09	3.07	1.97	1.06	1.57	700	485	40	31
flex-N-I75-CS69014-08-04-1999	9.45	6.65	5.16	3.94	2.95	2.05	1.18	1.14	700	320	49	29
flex-N-I75-CS69014-08-04-1999	9.49	6.50	5.04	3.94	2.91	2.01	1.18	1.69	700	304	51	29
flex-N-I75-CS69014-08-04-1999	8.50	6.38	5.12	4.02	3.07	2.09	1.14	1.45	700	555	46	30
flex-N-I75-CS69014-08-04-1999	9.69	7.32	5.87	4.72	3.70	2.56	1.46	1.53	700	486	44	24
flex-N-I75-CS69014-08-04-1999	9.57	7.13	5.79	4.45	3.46	2.28	1.30	0.66	700	470	42	27
flex-N-I75-CS69014-08-04-1999	8.31	6.02	4.80	3.70	2.76	1.81	1.06	1.37	700	464	51	33
flex-N-I75-CS69014-08-04-1999	8.43	5.91	4.57	3.43	2.52	1.69	0.94	1.15	700	387	52	37
flex-N-I75-CS69014-08-04-1999	9.37	6.81	5.47	4.29	3.27	2.20	1.26	1.22	700	434	45	27
flex-N-I75-CS69014-08-04-1999	10.63	8.03	6.54	5.08	4.02	2.68	1.46	1.43	700	486	35	23
flex-N-I75-CS69014-08-04-1999	10.08	7.56	6.06	4.72	3.70	2.64	1.57	0.81	700	377	47	22
flex-N-I75-CS69014-08-04-1999	9.96	7.24	5.87	4.57	3.54	2.36	1.34	1.19	700	428	42	26
flex-N-I75-CS69014-08-04-1999	10.71	7.76	5.98	4.49	3.39	2.20	1.18	1.45	700	357	37	29
flex-N-I75-CS69014-08-04-1999	11.34	7.99	6.10	4.53	3.39	2.13	1.26	1.67	700	275	38	28
flex-N-I75-CS69014-08-04-1999	9.76	7.17	5.63	4.33	3.27	2.17	1.22	1.04	700	405	42	28
flex-N-I75-CS69014-08-04-1999	10.39	7.68	6.14	4.61	3.50	2.17	1.14	1.09	700	456	32	29
flex-N-I75-CS69014-08-04-1999	10.20	7.36	5.71	4.29	3.31	2.24	1.34	1.06	700	311	46	26
flex-N-I75-CS69014-08-04-1999	10.35	7.24	5.51	3.94	2.91	1.89	1.10	1.32	700	277	43	32
flex-N-I75-CS69014-08-04-1999	9.45	6.73	5.16	3.82	2.83	1.77	0.94	1.30	700	386	40	35
flex-N-I75-CS69014-08-04-1999	9.92	6.73	5.04	3.54	2.56	1.61	0.94	1.62	700	265	44	37

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-N-I75-CS69014-08-04-1999	10.04	7.24	5.63	4.29	3.27	2.20	1.34	1.46	700	323	46	26
flex-N-I75-CS69014-08-04-1999	10.35	7.24	5.51	4.02	2.95	1.85	0.98	1.19	700	330	38	34
flex-N-I75-CS69014-08-04-1999	9.29	6.30	4.76	3.43	2.64	1.69	0.98	0.97	700	291	51	35
flex-N-I75-CS69014-08-04-1999	9.76	6.61	4.80	3.43	2.48	1.54	0.87	1.38	700	271	44	39
flex-N-I75-CS69014-08-04-1999	9.29	6.26	4.65	3.31	2.44	1.54	0.83	1.17	700	302	45	40
flex-N-I75-CS69014-08-04-1999	9.09	6.57	5.16	3.94	2.95	1.97	1.14	1.03	700	388	47	30
flex-N-I75-CS69014-08-04-1999	8.50	5.91	4.65	3.46	2.64	1.73	1.06	1.63	700	347	56	33
flex-N-I75-CS69014-08-04-1999	8.11	5.71	4.53	3.54	2.76	1.97	1.22	1.15	700	360	67	29
flex-N-I75-CS69014-08-04-1999	9.33	6.81	5.47	4.29	3.39	2.28	1.30	1.41	700	430	46	26
flex-N-I75-CS69014-08-04-1999	8.74	6.18	4.88	3.78	2.91	1.97	1.22	1.59	700	357	57	29
flex-N-I75-CS69014-08-04-1999	9.49	6.65	5.20	4.02	3.07	2.13	1.34	1.84	700	299	56	27
flex-N-I75-CS69014-08-04-1999	7.83	5.94	4.69	3.66	2.83	1.97	1.22	1.71	700	479	60	29
flex-N-I75-CS69014-08-04-1999	8.15	6.30	4.92	3.82	2.80	1.81	0.98	1.55	700	571	42	34
flex-N-I75-CS69014-08-04-1999	8.74	6.50	5.20	4.06	3.11	2.05	1.14	1.17	700	516	44	30
flex-N-I75-CS69014-08-04-1999-(2)	7.83	5.79	4.53	3.50	2.60	1.81	1.14	1.92	700	440	57	35
flex-N-I75-CS69014-08-04-1999-(2)	9.17	6.22	4.92	3.94	3.07	2.20	1.34	1.90	700	311	58	29
flex-N-I75-CS69014-08-04-1999-(2)	9.33	5.98	4.45	3.15	2.36	1.54	0.94	0.97	700	242	52	42
flex-N-I75-CS69014-08-04-1999-(2)	9.09	5.87	4.29	3.03	2.28	1.50	0.94	1.65	700	234	56	42
flex-N-I75-CS69014-08-04-1999-(2)	8.66	5.47	4.09	3.03	2.32	1.54	0.94	1.35	700	256	61	42
flex-N-I75-CS69014-08-04-1999-(2)	8.82	5.55	4.02	2.95	2.24	1.54	0.98	1.78	700	219	67	42
flex-N-I75-CS69014-08-04-1999-(2)	9.09	5.67	4.17	3.11	2.32	1.57	0.94	1.41	700	238	60	42
flex-N-I75-CS69014-08-04-1999-(2)	8.82	5.51	4.02	2.91	2.20	1.50	0.94	1.40	700	220	64	43
flex-N-I75-CS69014-08-04-1999-(2)	8.78	5.31	3.86	2.76	2.09	1.46	0.91	1.11	700	198	67	44
flex-N-I75-CS69014-08-04-1999-(2)	8.86	5.51	3.82	2.80	2.09	1.42	0.87	1.88	700	206	63	46

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-N-I75-CS69014-08-04-1999-(2)	9.61	6.02	4.29	3.19	2.44	1.65	1.02	1.61	700	204	60	40
flex-N-I75-CS69014-08-04-1999-(2)	8.90	5.59	4.02	2.95	2.24	1.57	0.94	1.32	700	219	65	42
flex-N-I75-CS69014-08-04-1999-(2)	9.09	6.02	4.33	3.23	2.44	1.65	1.02	1.75	700	249	58	39
flex-N-I75-CS69014-08-04-1999-(2)	9.88	6.77	5.31	4.17	3.23	2.28	1.50	1.65	700	275	56	27
flex-N-I75-CS69014-08-04-1999-(2)	8.39	6.30	5.00	3.86	2.95	2.05	1.26	1.06	700	469	51	32
flex-N-I75-CS69014-08-04-1999-(2)	9.49	6.81	5.31	4.06	3.11	2.09	1.26	0.93	700	365	45	31
flex-N-I75-CS69014-08-04-1999-(2)	7.44	5.04	3.86	2.91	2.13	1.46	0.91	1.67	700	365	64	44
flex-N-I75-CS69014-08-04-1999-(2)	8.58	5.31	3.94	2.87	2.13	1.38	0.83	1.47	700	259	58	47
flex-N-I75-CS69014-08-04-1999-(2)	8.23	5.59	4.17	3.03	2.28	1.46	0.87	1.11	700	339	53	45
flex-N-I75-CS69014-08-04-1999-(2)	8.74	6.02	4.69	3.62	2.72	1.85	1.14	1.45	700	347	54	35
flex-N-I75-CS69014-08-04-1999-(2)	9.49	5.87	4.49	3.35	2.52	1.73	1.02	1.63	700	233	56	37
flex-N-I75-CS69014-08-04-1999-(2)	8.82	5.98	4.80	3.66	2.80	1.81	1.10	1.83	700	380	50	35
flex-N-I75-CS69014-08-04-1999-(2)	8.90	5.75	4.29	3.11	2.24	1.42	0.79	1.95	700	312	47	47
flex-N-I75-CS69014-08-04-1999-(2)	9.02	5.63	4.25	3.27	2.48	1.69	1.02	1.93	700	245	61	38
flex-N-I75-CS69014-08-04-1999-(2)	8.03	6.06	4.88	3.86	3.03	1.97	1.18	1.47	700	631	49	35
flex-N-I75-CS69014-08-04-1999-(2)	8.23	6.54	5.35	4.33	3.31	2.24	1.26	1.42	700	789	40	32
flex-N-I75-CS69014-08-04-1999-(2)	7.60	5.75	4.69	3.70	2.76	1.77	0.94	1.79	700	802	41	42
flex-N-I75-CS69014-08-04-1999-(2)	7.36	5.59	4.53	3.46	2.60	1.73	0.94	1.42	700	725	46	42
flex-N-I75-CS69014-08-04-1999-(2)	6.61	5.04	4.13	3.23	2.44	1.65	0.94	1.06	700	809	55	43
flex-N-I75-CS69014-08-04-1999-(2)	6.34	4.53	3.62	2.80	2.09	1.38	0.83	1.33	700	634	66	49
flex-N-I75-CS69014-08-04-1999-(2)	6.89	5.04	4.06	3.07	2.32	1.57	0.98	1.23	700	547	64	42
flex-N-I75-CS69014-08-04-1999-(2)	9.33	7.28	6.02	4.72	3.66	2.32	1.18	1.76	700	793	28	33
flex-N-I75-CS69014-08-04-1999-(2)	8.82	6.65	5.35	4.33	3.46	2.44	1.50	1.35	700	513	52	27
flex-N-I75-CS69014-08-04-1999-(2)	8.19	6.22	5.04	3.94	2.95	1.81	0.94	1.65	700	762	34	41

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-N-I75-CS69014-08-04-1999-(2)	8.58	6.61	5.28	4.09	2.99	1.77	0.87	1.75	700	751	29	43
flex-N-I75-CS69014-08-04-1999-(2)	9.37	6.81	5.31	3.94	2.91	1.85	1.02	1.09	700	442	38	38
flex-N-I75-CS69014-08-04-1999-(2)	8.98	6.81	5.59	4.37	3.35	2.13	1.10	1.97	700	720	32	35
flex-N-I75-CS69014-08-04-1999-(2)	8.31	6.38	5.20	4.09	3.23	2.09	1.18	1.43	700	710	40	33
flex-N-I75-CS69014-08-04-1999-(2)	8.43	6.46	5.35	4.21	3.23	2.13	1.14	1.61	700	750	37	34
flex-N-I75-CS69014-08-04-1999-(2)	9.21	6.97	5.47	4.17	3.11	1.97	1.14	1.11	700	494	38	35
flex-N-I75-CS69014-08-04-1999-(2)	8.90	6.34	4.80	3.46	2.56	1.65	0.94	0.97	700	376	45	41
flex-N-I75-CS69014-08-04-1999-(2)	7.60	5.51	4.29	3.19	2.48	1.65	1.06	1.73	700	424	62	39
flex-N-I75-CS69014-08-04-1999-(2)	7.28	5.00	3.74	2.80	2.01	1.30	0.79	1.73	700	413	61	52
flex-N-I75-CS69014-08-04-1999-(2)	7.44	5.31	4.13	3.07	2.20	1.42	0.79	1.31	700	518	50	49
flex-N-I75-CS69014-08-04-1999-(2)	7.68	5.75	4.57	3.54	2.68	1.73	1.06	1.52	700	568	51	39
flex-N-I75-CS69014-08-04-1999-(2)	9.09	6.61	5.20	3.90	2.87	1.81	1.02	0.96	700	468	40	38
flex-N-I75-CS69014-08-04-1999-(2)	7.91	5.87	4.61	3.58	2.68	1.77	1.10	1.72	700	491	53	37
flex-N-I75-CS69014-08-04-1999-(2)	6.89	4.96	3.82	2.83	2.09	1.22	0.67	1.60	700	623	48	57
flex-N-I75-CS69014-08-04-1999-(2)	7.36	5.51	4.33	3.31	2.40	1.46	0.75	1.79	700	717	40	50
flex-N-I75-CS69014-08-04-1999-(2)	7.36	5.16	4.02	2.91	2.09	1.26	0.75	1.45	700	483	51	53
flex-N-I75-CS69014-08-04-1999-(2)	7.36	5.63	4.45	3.39	2.44	1.46	0.79	1.19	700	707	40	49
flex-N-I75-CS69014-08-04-1999-(2)	6.73	4.84	3.78	2.87	2.13	1.42	0.83	1.15	700	554	60	48
flex-N-I75-CS69014-08-04-1999-(2)	6.77	4.96	3.90	2.99	2.28	1.54	0.98	1.72	700	519	67	42
flex-N-I75-CS69014-08-04-1999-(2)	7.32	5.51	4.45	3.50	2.68	1.81	1.06	1.11	700	656	53	38
flex-N-I75-CS69014-08-04-1999-(2)	8.31	5.83	4.45	3.35	2.48	1.61	0.98	1.38	700	386	52	41
flex-G-M120-CS61012-07-23-1998	15.39	11.18	8.86	6.69	5.04	3.07	1.69	1.10	700	236	23	21
flex-G-M120-CS61012-07-23-1998	17.99	13.11	10.24	7.68	5.83	3.58	1.85	1.35	700	209	19	19
flex-G-M120-CS61012-07-23-1998	14.13	10.24	8.39	6.61	5.20	3.50	2.05	0.99	700	259	31	18

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-M120-CS61012-07-23-1998	17.40	13.46	10.98	8.70	6.81	4.41	2.40	0.96	700	278	19	15
flex-G-M120-CS61012-07-23-1998	12.76	9.65	7.99	6.57	5.28	3.62	2.13	1.41	700	351	33	17
flex-G-M120-CS61012-07-23-1998	13.66	9.21	7.17	5.51	4.41	3.07	1.97	1.67	700	165	45	19
flex-G-M120-CS61012-07-23-1998	12.76	9.21	7.36	5.79	4.57	3.27	2.05	1.24	700	228	43	18
flex-G-M120-CS61012-07-23-1998	13.11	8.90	6.89	5.20	4.06	2.80	1.73	1.40	700	177	42	21
flex-G-M120-CS61012-07-23-1998	16.02	11.34	9.02	7.01	5.47	3.74	2.28	1.11	700	179	31	16
flex-G-M120-CS61012-07-23-1998	16.85	12.17	9.72	7.20	5.31	3.31	1.93	1.80	700	190	23	19
flex-G-M120-CS61012-07-23-1998	12.99	9.09	7.09	5.47	4.29	2.99	1.89	1.69	700	193	42	20
flex-G-M120-CS61012-07-23-1998	18.90	13.90	10.91	8.03	5.91	3.58	1.93	0.86	700	183	18	18
flex-G-M120-CS61012-07-23-1998	17.20	11.50	8.82	6.61	4.80	3.03	1.69	1.36	700	156	25	21
flex-G-M120-CS61012-07-23-1998	22.95	15.24	11.38	8.23	6.02	3.58	1.97	1.31	700	112	18	18
flex-G-M120-CS61012-07-23-1998	17.05	11.10	8.35	6.34	4.72	3.19	1.89	1.44	700	128	31	19
flex-G-M120-CS61012-07-23-1998	24.53	17.44	13.19	9.53	6.81	4.41	2.24	1.97	700	120	15	15
flex-G-M120-CS61012-07-23-1998	16.77	11.77	9.29	7.44	5.91	4.06	2.32	1.86	700	188	29	15
flex-G-M120-CS61012-07-23-1998	18.86	14.02	11.06	8.70	6.73	4.49	2.40	1.75	700	202	20	14
flex-G-M120-CS61012-07-23-1998	19.72	13.70	10.39	7.68	5.75	3.70	1.97	1.38	700	144	21	17
flex-G-M120-CS61012-07-23-1998	16.93	12.01	9.69	7.64	6.14	4.41	2.56	1.20	700	178	30	14
flex-G-M120-CS61012-07-23-1998	16.65	11.14	8.66	6.61	5.12	3.54	2.20	1.44	700	137	34	17
flex-G-M120-CS61012-07-23-1998	14.49	9.21	6.81	5.24	4.06	2.87	1.77	1.60	700	126	44	21
flex-G-M120-CS61012-07-23-1998	19.02	11.69	8.35	6.18	4.88	3.35	2.05	1.83	700	86	34	18
flex-G-M120-CS61012-07-23-1998	11.65	8.19	6.77	5.51	4.45	3.23	2.01	1.15	700	258	50	18
flex-G-M120-CS61012-07-23-1998	13.70	9.57	7.20	5.51	4.33	2.87	1.65	1.55	700	195	35	22
flex-G-M120-CS61012-07-23-1998	19.25	13.50	10.39	7.44	5.16	2.87	1.54	1.64	700	161	17	22
flex-G-M120-CS61012-07-23-1998	16.18	12.28	10.28	7.83	5.79	3.54	1.65	1.27	700	333	16	21

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-M120-CS61012-07-23-1998	17.48	11.97	9.13	6.42	4.57	2.52	1.18	1.65	700	193	18	28
flex-G-M120-CS61012-07-23-1998	15.39	11.18	8.86	6.69	5.04	3.07	1.69	1.10	700	236	23	21
flex-G-M120-CS61012-07-23-1998	17.99	13.11	10.24	7.68	5.83	3.58	1.85	1.35	700	209	19	19
flex-G-M120-CS61012-07-23-1998	14.13	10.24	8.39	6.61	5.20	3.50	2.05	0.99	700	259	31	18
flex-G-M120-CS61012-07-23-1998	17.40	13.46	10.98	8.70	6.81	4.41	2.40	0.96	700	278	19	15
flex-G-M120-CS61012-07-23-1998	12.76	9.65	7.99	6.57	5.28	3.62	2.13	1.41	700	351	33	17
flex-G-M120-CS61012-07-23-1998	13.66	9.21	7.17	5.51	4.41	3.07	1.97	1.67	700	165	45	19
flex-G-M120-CS61012-07-23-1998	12.76	9.21	7.36	5.79	4.57	3.27	2.05	1.24	700	228	43	18
flex-G-M120-CS61012-07-23-1998	13.11	8.90	6.89	5.20	4.06	2.80	1.73	1.40	700	177	42	21
flex-G-M120-CS61012-07-23-1998	16.02	11.34	9.02	7.01	5.47	3.74	2.28	1.11	700	179	31	16
flex-G-M120-CS61012-07-23-1998	16.85	12.17	9.72	7.20	5.31	3.31	1.93	1.80	700	190	23	19
flex-G-M120-CS61012-07-23-1998	12.99	9.09	7.09	5.47	4.29	2.99	1.89	1.69	700	193	42	20
flex-G-M120-CS61012-07-23-1998	18.90	13.90	10.91	8.03	5.91	3.58	1.93	0.86	700	183	18	18
flex-G-M120-CS61012-07-23-1998	17.20	11.50	8.82	6.61	4.80	3.03	1.69	1.36	700	156	25	21
flex-G-M120-CS61012-07-23-1998	22.95	15.24	11.38	8.23	6.02	3.58	1.97	1.31	700	112	18	18
flex-G-M120-CS61012-07-23-1998	17.05	11.10	8.35	6.34	4.72	3.19	1.89	1.44	700	128	31	19
flex-G-M120-CS61012-07-23-1998	24.53	17.44	13.19	9.53	6.81	4.41	2.24	1.97	700	120	15	15
flex-G-M120-CS61012-07-23-1998	16.77	11.77	9.29	7.44	5.91	4.06	2.32	1.86	700	188	29	15
flex-G-M120-CS61012-07-23-1998	18.86	14.02	11.06	8.70	6.73	4.49	2.40	1.75	700	202	20	14
flex-G-M120-CS61012-07-23-1998	19.72	13.70	10.39	7.68	5.75	3.70	1.97	1.38	700	144	21	17
flex-G-M120-CS61012-07-23-1998	16.93	12.01	9.69	7.64	6.14	4.41	2.56	1.20	700	178	30	14
flex-G-M120-CS61012-07-23-1998	16.65	11.14	8.66	6.61	5.12	3.54	2.20	1.44	700	137	34	17
flex-G-M120-CS61012-07-23-1998	14.49	9.21	6.81	5.24	4.06	2.87	1.77	1.60	700	126	44	21
flex-G-M120-CS61012-07-23-1998	19.02	11.69	8.35	6.18	4.88	3.35	2.05	1.83	700	86	34	18

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-M120-CS61012-07-23-1998	11.65	8.19	6.77	5.51	4.45	3.23	2.01	1.15	700	258	50	18
flex-G-M120-CS61012-07-23-1998	13.70	9.57	7.20	5.51	4.33	2.87	1.65	1.55	700	195	35	22
flex-G-M120-CS61012-07-23-1998	19.25	13.50	10.39	7.44	5.16	2.87	1.54	1.64	700	161	17	22
flex-G-M120-CS61012-07-23-1998	16.18	12.28	10.28	7.83	5.79	3.54	1.65	1.27	700	333	16	21
flex-G-M120-CS61012-07-23-1998	17.48	11.97	9.13	6.42	4.57	2.52	1.18	1.65	700	193	18	28
flex-G-US131-CS54014-05-13-1998	5.94	5.04	4.45	3.74	2.99	2.20	1.38	1.43	700	1,090	60	31
flex-G-US131-CS54014-05-13-1998	5.83	4.88	4.25	3.58	2.80	1.93	1.06	1.17	700	1,261	41	39
flex-G-US131-CS54014-05-13-1998	5.63	4.88	4.29	3.58	2.87	1.97	0.98	0.84	700	1,658	29	42
flex-G-US131-CS54014-05-13-1998	10.24	8.94	7.99	6.73	5.39	3.50	1.54	0.49	700	1,082	10	28
flex-G-US131-CS54014-05-13-1998	9.72	8.54	7.68	6.42	5.16	3.43	1.50	0.66	700	1,175	10	29
flex-G-US131-CS54014-05-13-1998	10.51	9.13	8.19	6.81	5.35	3.50	1.54	0.88	700	987	11	27
flex-G-US131-CS54014-05-13-1998	5.83	5.04	4.53	3.94	3.15	2.36	1.42	1.49	700	1,488	49	29
flex-G-US131-CS54014-05-13-1998	6.54	5.75	5.24	4.69	3.94	2.87	1.65	0.98	700	1,979	27	26
flex-G-US131-CS54014-05-13-1998	10.20	8.78	7.83	6.61	5.28	3.58	1.77	0.77	700	964	15	23
flex-G-US131-CS54014-05-13-1998	11.18	9.45	8.27	6.93	5.35	3.46	1.54	1.15	700	818	12	26
flex-G-US131-CS54014-05-13-1998	10.28	8.70	7.68	6.34	4.96	3.15	1.42	0.60	700	865	13	28
flex-G-US131-CS54014-05-13-1998	5.98	5.04	4.29	3.43	2.68	1.77	1.02	1.59	700	935	45	39
flex-G-US131-CS54014-05-13-1998	9.06	7.24	6.18	5.20	4.06	2.83	1.69	1.34	700	585	37	24
flex-G-US131-CS54014-05-13-1998	6.14	5.16	4.53	3.82	2.99	2.09	1.18	1.20	700	1,157	40	34
flex-G-US131-CS54014-05-13-1998	6.50	5.43	4.76	3.94	3.11	2.17	1.34	1.73	700	915	49	31
flex-G-US131-CS54014-05-13-1998	12.99	10.67	8.94	6.93	5.08	2.80	1.06	0.68	700	485	10	33
flex-G-US131-CS54014-05-13-1998	10.47	8.58	7.32	5.47	4.06	2.32	0.94	1.12	700	573	14	38
flex-G-US131-CS54014-05-13-1998	10.51	8.27	6.73	5.08	3.82	2.40	1.30	0.98	700	387	26	29
flex-G-US131-CS54014-05-13-1998	11.77	8.94	7.32	5.51	4.09	2.60	1.38	0.79	700	337	24	27

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-US131-CS54014-05-13-1998	8.35	6.57	5.55	4.49	3.43	2.24	1.26	1.04	700	587	33	31
flex-G-US131-CS54014-05-13-1998	8.19	6.61	5.63	4.41	3.39	2.28	1.34	1.46	700	552	37	29
flex-G-US131-CS54014-05-13-1998	7.40	6.18	5.39	4.45	3.54	2.40	1.34	0.58	700	976	35	32
flex-G-US131-CS54014-05-13-1998	8.07	6.57	5.67	4.72	3.74	2.48	1.30	1.08	700	918	29	32
flex-G-US131-CS54014-05-13-1998	7.32	6.22	5.51	4.72	3.78	2.76	1.65	1.20	700	1,064	42	26
flex-G-US131-CS54014-05-13-1998	9.65	8.03	7.01	5.67	4.29	2.52	0.98	0.71	700	874	13	40
flex-G-US131-CS54014-05-13-1998	8.46	7.24	6.46	5.47	4.29	2.80	1.18	1.05	700	1,316	12	37
flex-G-US131-CS54014-05-13-1998	9.37	7.76	6.69	5.43	4.09	2.48	0.98	1.10	700	889	14	40
flex-G-US131-CS54014-05-13-1998	8.70	7.48	6.65	5.71	4.45	3.15	1.65	1.55	700	1,094	22	26
flex-G-US131-CS54014-05-13-1998	10.20	8.54	7.40	6.02	4.57	2.64	0.94	0.71	700	869	11	42
flex-G-US131-CS54014-05-13-1998	11.10	8.78	7.32	5.87	4.49	2.87	1.46	1.17	700	525	22	28
flex-G-US131-CS54014-05-13-1998	8.03	6.18	5.12	3.94	2.83	1.81	0.94	1.48	700	561	34	42
flex-G-US131-CS54014-05-13-1998	9.17	7.32	6.14	4.84	3.66	2.36	1.30	0.95	700	553	30	31
flex-G-US131-CS54014-05-13-1998	6.81	5.75	5.04	4.21	3.31	2.24	1.18	0.91	700	1,192	31	35
flex-G-US131-CS54014-05-13-1998	7.40	6.18	5.39	4.37	3.46	2.24	1.14	0.21	700	1,026	27	36
flex-G-US131-CS54014-05-13-1998	7.01	5.87	5.12	4.21	3.31	2.24	1.22	0.80	700	1,017	34	34
flex-G-US131-CS54014-05-13-1998	8.62	7.09	6.06	4.88	3.82	2.48	1.30	0.44	700	755	27	31
flex-G-US131-CS54014-05-13-1998	11.65	9.13	7.68	6.10	4.65	2.80	1.18	1.92	700	592	15	32
flex-G-US131-CS54014-05-13-1998	9.80	7.52	6.14	4.69	3.50	2.17	1.14	0.52	700	449	28	34
flex-G-US131-CS54014-05-13-1998	8.46	6.77	5.75	4.65	3.58	2.36	1.38	1.24	700	605	36	30
flex-G-US131-CS54014-05-13-1998	7.60	6.30	5.55	4.53	3.58	2.48	1.42	0.84	700	854	36	29
flex-G-US131-CS54014-05-13-1998	6.73	5.59	4.76	3.86	2.95	1.89	0.91	0.96	700	1,045	27	44
flex-G-US131-CS54014-05-13-1998	7.36	5.67	4.72	3.74	2.83	1.85	0.98	1.09	700	660	38	40
flex-G-US131-CS54014-05-13-1998	6.30	4.96	4.09	3.27	2.44	1.61	0.94	1.64	700	685	51	43

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-US131-CS54014-05-13-1998	6.34	5.00	4.13	3.23	2.44	1.57	0.94	1.90	700	653	51	44
flex-G-US131-CS54014-05-13-1998	7.44	6.30	5.47	4.53	3.62	2.64	1.61	1.30	700	817	47	26
flex-G-US131-CS54014-05-13-1998	7.05	5.71	4.76	3.82	2.95	1.93	1.14	1.55	700	689	44	36
flex-G-US131-CS54014-05-13-1998	7.76	6.38	5.55	4.45	3.50	2.44	1.42	0.99	700	741	39	29
flex-G-US131-CS54014-05-13-1998	10.31	8.07	6.65	5.04	3.82	2.32	1.14	0.81	700	479	22	33
flex-G-US131-CS54014-05-13-1998	8.90	7.20	6.14	4.84	3.78	2.44	1.22	0.81	700	697	25	32
flex-G-US131-CS54014-05-13-1998	12.56	9.57	7.68	5.67	4.06	2.36	1.10	1.29	700	351	18	34
flex-G-US131-CS54014-05-13-1998	6.42	5.08	4.33	3.39	2.48	1.50	0.71	1.02	700	898	31	54
flex-G-US131-CS54014-05-13-1998	6.97	5.75	4.88	3.78	2.83	1.77	0.87	1.14	700	841	29	45
flex-G-US131-CS54014-05-13-1998	8.70	6.85	5.79	4.53	3.43	2.13	0.94	1.72	700	725	21	40
flex-G-US131-CS54014-05-13-1998	7.13	6.14	5.59	4.80	3.90	2.80	1.61	1.04	700	1,337	32	26
flex-G-US131-CS54014-05-13-1998	8.62	6.81	5.87	4.76	3.70	2.48	1.42	0.92	700	616	34	28
flex-G-US131-CS54014-05-13-1998	7.05	5.47	4.49	3.62	2.80	1.85	1.06	1.07	700	637	47	38
flex-G-US131-CS54014-05-13-1998	7.13	5.43	4.45	3.39	2.56	1.69	0.98	1.03	700	512	48	41
flex-G-US131-CS54014-05-13-1998	6.61	5.20	4.33	3.46	2.72	1.85	1.06	0.64	700	700	50	38
flex-G-US131-CS54014-05-13-1998	7.48	5.87	5.04	4.06	3.15	2.17	1.22	0.90	700	685	41	33
flex-G-US131-CS54014-05-13-1998	8.66	6.77	5.63	4.53	3.50	2.36	1.26	1.44	700	587	33	31
flex-G-M20-CS54041-04-09-2002	19.67	15.30	12.31	9.03	6.85	4.18	2.04	1.49	700	342	15	17
flex-G-M20-CS54041-04-09-2002	17.94	14.23	11.75	8.83	6.76	4.20	2.12	0.69	700	412	17	17
flex-G-M20-CS54041-04-09-2002	15.84	11.97	9.37	6.53	4.87	2.99	1.55	1.34	700	306	22	23
flex-G-M20-CS54041-04-09-2002	16.77	12.48	9.45	6.23	4.47	2.55	1.27	1.81	700	256	20	27
flex-G-M20-CS54041-04-09-2002	20.60	15.21	11.40	7.57	5.31	3.06	1.48	1.96	700	206	16	23
flex-G-M20-CS54041-04-09-2002	16.75	12.56	9.71	6.86	5.13	3.33	1.91	1.75	700	236	25	19
flex-G-M20-CS54041-04-09-2002	13.26	9.74	7.29	5.02	3.62	2.02	0.97	1.85	700	361	24	35

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-M20-CS54041-04-09-2002	14.61	10.51	7.93	5.55	4.15	2.58	1.35	1.54	700	274	27	26
flex-G-M20-CS54041-04-09-2002	12.97	10.36	8.69	6.65	5.24	3.32	1.89	1.03	700	538	27	19
flex-G-M20-CS54041-04-09-2002	12.93	10.69	9.08	6.90	5.32	3.12	1.38	0.60	700	792	16	25
flex-G-M20-CS54041-04-09-2002	11.89	9.84	8.37	6.48	5.01	2.99	1.25	1.10	700	972	16	28
flex-G-M20-CS54041-04-09-2002	10.73	8.86	7.50	5.81	4.53	2.78	1.34	0.48	700	924	22	26
flex-G-M20-CS54041-04-09-2002	9.24	7.73	6.69	5.33	4.22	2.68	1.34	0.18	700	1,225	26	27
flex-G-M20-CS54041-04-09-2002	11.91	10.37	9.08	7.35	5.72	3.60	1.52	0.68	700	1,255	13	24
flex-G-M20-CS54041-04-09-2002	14.01	11.25	9.50	7.39	5.73	3.53	1.58	1.65	700	748	16	22
flex-G-M20-CS54041-04-09-2002	16.86	12.35	9.95	7.32	5.58	3.34	1.73	1.39	700	340	21	20
flex-G-M20-CS54041-04-09-2002	13.40	10.20	8.28	6.13	4.71	2.92	1.64	0.84	700	412	28	22
flex-G-M20-CS54041-04-09-2002	12.70	10.11	8.31	6.36	5.04	3.35	1.92	0.63	700	493	31	19
flex-G-M20-CS54041-04-09-2002	11.98	9.38	7.63	5.71	4.48	2.94	1.64	0.70	700	482	32	22
flex-G-M20-CS54041-04-09-2002	11.53	8.54	6.66	4.82	3.71	2.41	1.37	0.87	700	363	38	27
flex-G-M20-CS54041-04-09-2002	11.66	8.90	7.13	5.20	3.96	2.52	1.41	0.71	700	437	33	26
flex-G-M20-CS54041-04-09-2002	11.85	8.55	6.61	4.62	3.49	2.10	1.10	1.26	700	372	32	32
flex-G-M20-CS54041-04-09-2002	11.28	8.27	6.44	4.54	3.42	2.10	1.10	1.11	700	405	33	32
flex-G-M20-CS54041-04-09-2002	10.16	7.56	6.03	4.37	3.32	2.10	1.19	0.72	700	451	40	31
flex-G-M20-CS54041-04-09-2002	9.24	6.97	5.58	3.99	3.03	1.92	1.10	1.24	700	499	44	34
flex-G-M20-CS54041-04-09-2002	9.92	7.35	5.68	3.97	3.02	1.88	1.07	1.54	700	400	42	34
flex-G-M20-CS54041-04-09-2002	11.94	9.38	7.70	5.77	4.50	2.94	1.73	1.22	700	466	34	21
flex-G-M20-CS54041-04-09-2002	12.47	10.11	8.51	6.68	5.33	3.58	2.10	0.69	700	572	31	18
flex-G-M20-CS54041-04-09-2002	13.71	10.80	8.91	6.78	5.36	3.59	2.14	1.01	700	405	31	17
flex-G-M20-CS54041-04-09-2002	11.61	9.33	7.81	5.98	4.66	2.94	1.58	0.31	700	655	27	23
flex-G-M20-CS54041-04-09-2002	12.56	9.74	7.89	5.85	4.54	2.93	1.69	1.04	700	419	32	22

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-M20-CS54041-04-09-2002	15.63	12.33	10.08	7.59	6.01	3.99	2.31	0.87	700	361	26	16
flex-G-M20-CS54041-04-09-2002	16.00	12.58	10.56	8.23	6.55	4.28	2.30	0.98	700	469	21	16
flex-G-M20-CS54041-04-09-2002	13.52	10.84	9.11	7.10	5.58	3.53	1.76	1.12	700	666	20	20
flex-G-M20-CS54041-04-09-2002	13.56	10.54	8.58	6.26	4.62	2.82	1.41	0.84	700	471	22	25
flex-G-M20-CS54041-04-09-2002	12.85	9.99	8.12	5.84	4.25	2.40	1.10	0.76	700	539	20	30
flex-G-M20-CS54041-04-09-2002	11.51	9.36	7.78	5.88	4.45	2.55	1.01	1.54	700	887	16	33
flex-G-M20-CS54041-04-09-2002	12.19	10.01	8.36	6.21	4.52	2.59	1.03	1.39	700	771	16	32
flex-G-M20-CS54041-04-09-2002	10.34	8.27	6.85	5.04	3.65	2.02	0.81	1.04	700	842	20	40
flex-G-M20-CS54041-04-09-2002	10.16	7.99	6.48	4.67	3.38	1.82	0.76	0.97	700	762	22	43
flex-G-M20-CS54041-04-09-2002	11.68	9.04	7.26	5.22	3.81	2.05	0.86	1.47	700	644	20	38
flex-G-M20-CS54041-04-09-2002	11.10	8.95	7.43	5.51	4.19	2.39	1.00	1.43	700	843	19	33
flex-G-M20-CS54041-04-09-2002	13.86	10.14	7.90	5.54	4.20	2.64	1.35	1.75	700	329	27	26
flex-G-M20-CS54041-04-09-2002	10.09	8.15	6.79	5.08	3.93	2.41	1.22	0.64	700	772	28	29
flex-G-M20-CS54041-04-09-2002	14.11	12.11	10.49	8.32	6.60	3.99	1.68	0.54	700	971	11	21
flex-G-M20-CS54041-04-09-2002	11.54	9.79	8.48	6.77	5.36	3.27	1.31	0.98	700	1,253	13	27
flex-G-M20-CS54041-04-09-2002	11.22	9.08	7.70	6.04	4.75	2.95	1.34	1.62	700	967	20	26
flex-G-M20-CS54041-04-09-2002	11.46	9.34	7.98	6.24	4.92	3.19	1.57	1.12	700	874	23	22
flex-G-M37-CS62032-05-18-2000	10.04	8.03	6.57	5.31	4.09	2.76	1.50	1.33	700	439	28	28
flex-G-M37-CS62032-05-18-2000	8.23	6.89	6.02	5.24	4.25	3.03	1.69	1.19	700	884	29	25
flex-G-M37-CS62032-05-18-2000	12.52	10.51	9.17	7.68	6.14	4.25	2.28	0.73	700	525	18	19
flex-G-M37-CS62032-05-18-2000	14.88	12.24	10.55	8.66	6.93	4.61	2.48	0.44	700	383	16	17
flex-G-M37-CS62032-05-18-2000	14.17	11.42	9.69	7.76	6.02	3.94	2.05	0.62	700	355	17	20
flex-G-M37-CS62032-05-18-2000	12.95	9.76	7.80	6.06	4.53	2.83	1.57	1.20	700	260	24	26
flex-G-M37-CS62032-05-18-2000	17.20	13.70	11.30	8.98	6.81	4.41	2.28	1.09	700	257	15	18

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-M37-CS62032-05-18-2000	15.39	13.27	11.50	10.00	8.31	5.98	3.27	1.29	700	530	13	13
flex-G-M37-CS62032-05-18-2000	11.30	9.57	8.35	7.20	5.94	4.33	2.48	1.01	700	628	22	17
flex-G-M37-CS62032-05-18-2000	16.81	13.66	11.46	9.65	7.68	5.12	2.52	1.82	700	370	12	16
flex-G-M37-CS62032-05-18-2000	12.32	9.49	7.95	6.30	4.88	3.19	1.57	1.57	700	382	20	25
flex-G-M37-CS62032-05-18-2000	8.15	6.81	5.94	5.12	4.25	3.19	1.81	1.61	700	864	34	23
flex-G-M37-CS62032-05-18-2000	13.31	10.59	8.70	6.69	5.04	3.31	1.61	1.90	700	323	18	24
flex-G-M37-CS62032-05-18-2000	13.35	9.84	8.03	6.26	4.80	3.35	1.93	1.02	700	235	28	21
flex-G-M37-CS62032-05-18-2000	12.60	9.69	7.76	6.22	4.92	3.66	2.28	1.74	700	236	36	18
flex-G-M37-CS62032-05-18-2000	11.18	8.11	6.30	4.96	3.86	2.87	1.77	1.92	700	216	45	24
flex-G-M37-CS62032-05-18-2000	12.01	10.04	8.78	7.32	5.87	3.86	1.89	0.55	700	589	14	22
flex-G-M37-CS62032-05-18-2000	14.49	11.57	9.96	8.31	6.50	4.17	2.01	1.35	700	425	13	20
flex-G-M37-CS62032-05-18-2000	13.46	10.67	9.13	7.48	5.79	3.74	1.93	0.93	700	386	17	21
flex-G-M37-CS62032-05-18-2000	9.69	8.03	7.01	6.06	4.92	3.58	2.01	1.40	700	702	26	21
flex-G-M37-CS62032-05-18-2000	16.02	12.24	10.47	7.95	5.98	3.66	1.77	0.72	700	269	14	22
flex-G-M37-CS62032-05-18-2000	17.28	14.33	12.13	9.69	7.36	4.69	2.36	1.26	700	296	12	17
flex-G-M37-CS62032-05-18-2000	14.06	11.65	9.84	7.72	5.87	3.78	2.05	1.84	700	325	17	20
flex-G-M37-CS62032-05-18-2000	13.54	11.26	9.69	7.76	6.02	4.02	2.28	1.63	700	361	19	18
flex-G-US131-CS54013-08-18-1994	9.36	6.83	5.60	4.36	3.50	2.24	1.18	1.92	700	448	37	30
flex-G-US131-CS54013-08-18-1994	8.99	6.62	5.28	3.96	3.10	1.91	1.05	1.05	700	381	39	33
flex-G-US131-CS54013-08-18-1994	9.31	6.84	5.59	4.12	3.22	2.05	1.08	0.79	700	390	38	32
flex-G-US131-CS54013-08-18-1994	9.38	6.81	5.44	4.07	3.01	1.94	1.04	0.74	700	346	39	34
flex-G-US131-CS54013-08-18-1994	8.62	6.35	5.09	3.94	3.13	2.12	1.23	0.67	700	368	52	29
flex-G-US131-CS54013-08-18-1994	9.92	7.30	5.81	4.41	3.47	2.26	1.20	1.26	700	351	38	29
flex-G-US131-CS54013-08-18-1994	10.57	7.71	6.18	4.64	3.59	2.23	1.18	0.88	700	338	33	29

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-US131-CS54013-08-18-1994	8.62	6.31	5.00	3.78	2.97	1.88	1.00	1.28	700	406	42	35
flex-G-US131-CS54013-08-18-1994	10.37	7.47	5.98	4.54	3.51	2.23	1.17	1.25	700	341	34	30
flex-G-US131-CS54013-08-18-1994	8.63	6.12	4.86	3.69	2.90	1.88	1.05	0.84	700	351	49	34
flex-G-US131-CS54013-08-18-1994	10.36	7.81	6.42	5.01	4.01	2.62	1.42	1.05	700	393	35	25
flex-G-US131-CS54013-08-18-1994	11.75	9.16	7.62	6.18	5.06	3.54	2.01	1.06	700	383	34	18
flex-G-US131-CS54013-08-18-1994	9.31	6.86	5.56	4.28	3.33	2.11	1.09	1.39	700	428	36	32
flex-G-US131-CS54013-08-18-1994	9.67	7.35	5.96	4.57	3.70	2.35	1.20	1.91	700	464	32	29
flex-G-US131-CS54013-08-18-1994	9.39	7.10	5.86	4.70	3.78	2.62	1.52	0.65	700	405	46	24
flex-G-US131-CS54013-08-18-1994	10.60	7.98	6.46	4.96	3.89	2.44	1.25	1.33	700	400	29	28
flex-G-US131-CS54013-08-18-1994	11.07	8.27	6.71	5.09	4.02	2.57	1.35	1.15	700	355	31	26
flex-G-US131-CS54013-08-18-1994	10.60	7.99	6.64	5.22	4.19	2.78	1.51	1.15	700	404	34	23
flex-G-US131-CS54013-08-18-1994	9.83	7.31	5.87	4.51	3.60	2.40	1.35	0.85	700	346	41	26
flex-G-US131-CS54013-08-18-1994	9.59	7.03	5.68	4.52	3.58	2.48	1.45	0.80	700	337	48	25
flex-G-US131-CS54013-08-18-1994	10.31	7.36	5.75	4.39	3.39	2.14	1.16	1.24	700	304	37	30
flex-G-US131-CS54013-08-18-1994	10.02	7.32	5.85	4.47	3.45	2.18	1.14	1.21	700	360	34	30
flex-G-US131-CS54013-08-18-1994	8.79	6.41	5.12	4.01	3.14	2.03	1.12	1.23	700	398	44	31
flex-G-US131-CS54013-08-18-1994	9.13	6.71	5.35	4.16	3.26	2.12	1.15	1.19	700	386	41	30
flex-G-US131-CS54013-08-18-1994	10.06	7.14	5.82	4.46	3.55	2.31	1.23	1.77	700	348	39	28
flex-G-US131-CS54013-08-18-1994	9.39	6.76	5.47	4.18	3.30	2.16	1.24	0.68	700	337	45	29
flex-G-US131-CS54013-08-18-1994	10.85	8.20	6.71	5.32	4.31	2.99	1.72	0.72	700	336	40	21
flex-G-US131-CS54013-08-18-1994	12.85	9.74	8.06	6.52	5.37	3.76	2.06	1.92	700	327	32	17
flex-G-US131-CS54013-08-18-1994	8.91	6.69	5.48	4.37	3.44	2.33	1.34	0.74	700	416	46	27
flex-G-US131-CS54013-08-18-1994	10.26	7.80	6.39	5.01	3.98	2.59	1.31	1.82	700	451	30	26
flex-G-US131-CS54013-08-18-1994	11.12	8.47	6.73	5.16	4.07	2.74	1.46	1.62	700	336	33	24

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-US131-CS54013-08-18-1994	10.72	8.06	6.53	5.19	4.18	2.88	1.60	1.29	700	350	38	22
flex-G-US131-CS54013-08-18-1994	10.01	7.29	5.91	4.54	3.60	2.36	1.23	1.87	700	374	36	28
flex-G-US131-CS54013-08-18-1994	11.43	8.70	7.12	5.51	4.40	2.99	1.66	0.75	700	332	34	21
flex-G-US131-CS54013-08-18-1994	10.18	7.93	6.54	5.15	4.06	2.68	1.47	0.55	700	429	33	24
flex-G-US131-CS54013-08-18-1994	9.82	7.61	6.24	4.84	3.95	2.73	1.64	1.25	700	353	46	22
flex-G-US131-CS54013-08-18-1994	10.20	7.62	5.97	4.48	3.45	2.18	1.18	1.06	700	328	35	29
flex-G-US131-CS54013-08-18-1994	9.95	7.20	5.84	4.47	3.51	2.28	1.25	0.91	700	348	39	28
flex-G-US131-CS54013-08-18-1994	8.65	6.24	4.92	3.70	2.86	1.87	1.01	0.84	700	359	46	34
flex-G-US131-CS54013-08-18-1994	8.22	6.07	4.90	3.69	2.88	1.90	1.04	0.56	700	410	46	34
flex-G-US131-CS54013-08-18-1994	9.60	7.16	5.72	4.36	3.42	2.27	1.30	0.83	700	334	43	27
flex-G-US131-CS54013-08-18-1994	10.73	7.64	6.03	4.48	3.53	2.22	1.15	1.76	700	306	34	30
flex-G-US131-CS54013-08-18-1994	10.50	7.80	6.42	5.04	4.02	2.68	1.48	0.93	700	364	37	24
flex-G-US131-CS54013-08-18-1994-(2)	10.72	7.94	6.69	5.29	4.09	2.43	1.26	1.91	700	449	26	28
flex-G-US131-CS54013-08-18-1994-(2)	9.80	7.30	6.07	4.74	3.79	2.50	1.46	0.89	700	384	42	25
flex-G-US131-CS54013-08-18-1994-(2)	9.15	6.52	5.24	4.05	3.10	2.07	1.07	1.94	700	378	41	32
flex-G-US131-CS54013-08-18-1994-(2)	9.05	6.72	5.43	3.98	3.04	1.89	1.00	0.51	700	393	37	35
flex-G-US131-CS54013-08-18-1994-(2)	9.13	6.89	5.55	4.14	3.23	2.17	1.29	1.80	700	341	47	28
flex-G-US131-CS54013-08-18-1994-(2)	8.58	6.01	4.59	3.32	2.48	1.51	0.85	1.22	700	310	46	42
flex-G-US131-CS54013-08-18-1994-(2)	10.69	7.51	5.88	4.35	3.33	2.17	1.14	1.40	700	280	37	30
flex-G-US131-CS54013-08-18-1994-(2)	9.52	6.79	5.39	4.07	3.15	2.07	1.07	1.79	700	343	40	32
flex-G-US131-CS54013-08-18-1994-(2)	9.69	6.83	5.34	3.93	3.11	1.99	1.04	1.89	700	311	40	33
flex-G-US131-CS54013-08-18-1994-(2)	9.81	7.32	5.96	4.43	3.51	2.25	1.13	1.84	700	399	33	30
flex-G-US131-CS54013-08-18-1994-(2)	9.25	6.88	5.56	4.23	3.34	2.23	1.20	1.17	700	391	41	29
flex-G-US131-CS54013-08-18-1994-(2)	9.20	7.05	5.78	4.48	3.62	2.51	1.51	1.03	700	373	49	24

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-US131-CS54013-08-18-1994-(2)	9.65	7.19	5.70	4.20	3.23	2.04	1.02	1.70	700	384	33	33
flex-G-US131-CS54013-08-18-1994-(2)	9.73	7.36	5.86	4.36	3.34	2.06	0.99	1.76	700	421	29	34
flex-G-US131-CS54013-08-18-1994-(2)	9.08	6.71	5.33	3.91	3.04	1.93	1.01	1.15	700	378	38	34
flex-G-US131-CS54013-08-18-1994-(2)	9.55	7.33	5.85	4.42	3.44	2.21	1.10	1.83	700	429	32	31
flex-G-US131-CS54013-08-18-1994-(3)	9.42	6.69	5.29	3.97	3.08	1.92	0.97	1.93	700	351.29	35.839	34.653
flex-G-US131-CS54013-08-18-1994-(3)	10.23	7.37	5.91	4.49	3.47	2.20	1.15	1.09	700	325.61	34.083	29.616
flex-G-US131-CS54013-08-18-1994-(3)	8.50	6.02	4.78	3.63	2.85	1.85	1.03	0.78	700	338.84	48.255	33.862
flex-G-US131-CS54013-08-18-1994-(3)	10.26	7.74	6.36	4.96	3.97	2.59	1.41	0.91	700	374.23	34.294	24.664
flex-G-US131-CS54013-08-18-1994-(3)	11.64	9.07	7.54	6.12	5.02	3.51	1.99	1.06	700	367.1	33.552	17.767
flex-G-US131-CS54013-08-18-1994-(3)	9.19	6.77	5.48	4.22	3.29	2.08	1.08	1.23	700	407.16	35.415	31.611
flex-G-US131-CS54013-08-18-1994-(3)	9.55	7.26	5.89	4.52	3.66	2.32	1.18	1.81	700	439.48	31.989	28.853
flex-G-US131-CS54013-08-18-1994-(3)	9.29	7.02	5.80	4.65	3.74	2.59	1.51	0.57	700	387.7	45.638	23.624
flex-G-US131-CS54013-08-18-1994-(3)	10.47	7.88	6.37	4.90	3.84	2.41	1.23	1.27	700	381.57	28.993	27.72
flex-G-US131-CS54013-08-18-1994-(3)	10.99	8.21	6.66	5.06	3.99	2.55	1.34	1.05	700	337.19	30.182	25.617
flex-G-US131-CS54013-08-18-1994-(3)	10.53	7.93	6.59	5.19	4.16	2.76	1.50	1.05	700	385.32	33.297	23.254
flex-G-US131-CS54013-08-18-1994-(3)	9.75	7.25	5.82	4.47	3.57	2.38	1.34	0.85	700	331.05	41.072	26.314
flex-G-US131-CS54013-08-18-1994-(3)	9.49	6.96	5.62	4.47	3.55	2.45	1.43	0.78	700	323.63	47.809	24.884
flex-G-US131-CS54013-08-18-1994-(3)	10.25	7.31	5.72	4.36	3.37	2.13	1.15	1.18	700	292.66	36.705	29.959
flex-G-US131-CS54013-08-18-1994-(3)	9.98	7.30	5.83	4.45	3.44	2.17	1.13	1.12	700	344.4	33.894	30.09
flex-G-US131-CS54013-08-18-1994-(3)	8.70	6.34	5.08	3.97	3.11	2.00	1.11	1.12	700	380.33	43.561	31.413
flex-G-US131-CS54013-08-18-1994-(3)	9.08	6.68	5.32	4.14	3.24	2.11	1.14	1.15	700	370.21	40.768	30.293
flex-G-US131-CS54013-08-18-1994-(3)	9.96	7.07	5.76	4.41	3.51	2.28	1.22	1.63	700	333.3	38.07	28.22
flex-G-US131-CS54013-08-18-1994-(3)	9.30	6.70	5.42	4.14	3.27	2.14	1.23	0.64	700	322.28	44.659	28.78
flex-G-US131-CS54013-08-18-1994-(3)	10.77	8.14	6.66	5.27	4.27	2.96	1.71	0.68	700	322.13	39.667	20.785

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-US131-CS54013-08-18-1994-(3)	12.77	9.68	8.00	6.48	5.33	3.73	2.05	1.83	700	313.56	31.399	16.968
flex-G-US131-CS54013-08-18-1994-(3)	8.84	6.64	5.45	4.33	3.42	2.32	1.33	0.67	700	398.07	45.49	26.652
flex-G-US131-CS54013-08-18-1994-(3)	10.20	7.75	6.36	4.98	3.96	2.57	1.30	1.70	700	427.96	29.826	26.161
flex-G-US131-CS54013-08-18-1994-(3)	11.01	8.39	6.67	5.11	4.03	2.71	1.44	1.56	700	319.85	32.76	23.958
flex-G-US131-CS54013-08-18-1994-(3)	10.66	8.01	6.50	5.16	4.16	2.86	1.59	1.22	700	335.6	37.808	22.029
flex-G-US131-CS54013-08-18-1994-(3)	9.95	7.25	5.87	4.51	3.58	2.35	1.22	1.80	700	358.09	35.655	28.015
flex-G-US131-CS54013-08-18-1994-(3)	11.40	8.68	7.11	5.50	4.39	2.98	1.65	0.73	700	317.63	33.296	21.225
flex-G-US131-CS54013-08-18-1994-(3)	10.12	7.88	6.50	5.12	4.03	2.66	1.46	0.55	700	409.45	32.924	24.031
flex-G-US131-CS54013-08-18-1994-(3)	9.74	7.55	6.19	4.80	3.92	2.71	1.63	1.36	700	338.71	45.526	22.115
flex-G-US131-CS54013-08-18-1994-(3)	10.14	7.58	5.94	4.45	3.43	2.17	1.17	1.11	700	314.39	34.442	29.564
flex-G-US131-CS54013-08-18-1994-(3)	9.85	7.12	5.78	4.43	3.47	2.26	1.24	0.78	700	332.44	38.5	28.093
flex-G-US131-CS54013-08-18-1994-(3)	8.58	6.18	4.88	3.68	2.84	1.85	1.00	0.79	700	345.35	44.943	34.528
flex-G-US131-CS54013-08-18-1994-(3)	8.20	6.06	4.88	3.68	2.88	1.89	1.04	0.59	700	391	46.02	33.58
flex-G-US131-CS54013-08-18-1994-(3)	9.57	7.14	5.70	4.35	3.41	2.26	1.30	0.94	700	320.2	42.157	27.367
flex-G-US131-CS54013-08-18-1994-(3)	10.65	7.59	5.99	4.45	3.50	2.20	1.14	1.64	700	291.72	33.806	29.642
flex-G-US131-CS54013-08-18-1994-(3)	10.47	7.78	6.40	5.02	4.00	2.67	1.48	0.84	700	347.96	36.229	23.673
flex-G-US131-CS54013-08-18-1994-(4)	9.59	7.33	5.64	4.42	3.52	2.43	1.39	1.91	700	312	45	26
flex-G-US131-CS54013-08-18-1994-(4)	10.53	7.80	6.57	5.20	4.02	2.39	1.24	1.83	700	424	26	28
flex-G-US131-CS54013-08-18-1994-(4)	9.60	7.15	5.94	4.65	3.72	2.45	1.42	0.80	700	369	41	25
flex-G-US131-CS54013-08-18-1994-(4)	10.48	7.45	6.03	4.69	3.75	2.32	1.27	1.97	700	323	35	27
flex-G-US131-CS54013-08-18-1994-(4)	9.11	6.49	5.21	4.03	3.09	2.06	1.06	1.86	700	362	40	32
flex-G-US131-CS54013-08-18-1994-(4)	8.91	6.62	5.36	3.93	2.99	1.86	0.99	0.62	700	375	37	35
flex-G-US131-CS54013-08-18-1994-(4)	8.99	6.79	5.47	4.08	3.18	2.14	1.27	1.93	700	327	46	28
flex-G-US131-CS54013-08-18-1994-(4)	8.42	5.90	4.50	3.26	2.43	1.49	0.83	1.27	700	299	46	42

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-US131-CS54013-08-18-1994-(4)	10.57	7.43	5.82	4.30	3.29	2.15	1.13	1.29	700	268	36	30
flex-G-US131-CS54013-08-18-1994-(4)	9.44	6.73	5.34	4.04	3.13	2.05	1.06	1.68	700	329	39	32
flex-G-US131-CS54013-08-18-1994-(4)	9.61	6.79	5.30	3.90	3.09	1.98	1.03	1.83	700	300	40	33
flex-G-US131-CS54013-08-18-1994-(4)	9.72	7.25	5.90	4.39	3.48	2.23	1.12	1.74	700	381	33	30
flex-G-US131-CS54013-08-18-1994-(4)	9.18	6.83	5.51	4.20	3.32	2.22	1.19	1.14	700	374	40	29
flex-G-US131-CS54013-08-18-1994-(4)	9.12	6.98	5.72	4.45	3.58	2.49	1.50	1.15	700	358	49	24
flex-G-US131-CS54013-08-18-1994-(4)	9.55	7.11	5.64	4.16	3.20	2.02	1.01	1.64	700	366	33	33
flex-G-US131-CS54013-08-18-1994-(4)	9.65	7.30	5.82	4.33	3.32	2.05	0.98	1.65	700	400	29	34
flex-G-US131-CS54013-08-18-1994-(4)	8.99	6.64	5.28	3.87	3.00	1.91	1.00	1.14	700	360	38	34
flex-G-US131-CS54013-08-18-1994-(4)	9.47	7.27	5.80	4.38	3.42	2.20	1.09	1.81	700	409	32	31
flex-G-US131-CS54013-08-18-1994-(5)	9.79	7.48	5.76	4.51	3.59	2.48	1.42	1.88	700	313	45	26
flex-G-US131-CS54013-08-18-1994-(5)	10.72	7.94	6.69	5.29	4.09	2.43	1.26	1.83	700	425	26	28
flex-G-US131-CS54013-08-18-1994-(5)	9.80	7.30	6.07	4.74	3.79	2.50	1.46	0.87	700	367	41	25
flex-G-US131-CS54013-08-18-1994-(5)	10.60	7.54	6.10	4.75	3.79	2.35	1.29	1.97	700	323	35	27
flex-G-US131-CS54013-08-18-1994-(5)	9.15	6.52	5.24	4.05	3.10	2.07	1.07	1.83	700	362	41	32
flex-G-US131-CS54013-08-18-1994-(5)	9.05	6.72	5.43	3.98	3.04	1.89	1.00	0.62	700	374	37	35
flex-G-US131-CS54013-08-18-1994-(5)	9.13	6.89	5.55	4.14	3.23	2.17	1.29	1.92	700	328	46	28
flex-G-US131-CS54013-08-18-1994-(5)	8.58	6.01	4.59	3.32	2.48	1.51	0.85	1.32	700	298	46	42
flex-G-US131-CS54013-08-18-1994-(5)	10.69	7.51	5.88	4.35	3.33	2.17	1.14	1.33	700	268	36	30
flex-G-US131-CS54013-08-18-1994-(5)	9.52	6.79	5.39	4.07	3.15	2.07	1.07	1.69	700	329	40	32
flex-G-US131-CS54013-08-18-1994-(5)	9.69	6.83	5.34	3.93	3.11	1.99	1.04	1.81	700	298	40	33
flex-G-US131-CS54013-08-18-1994-(5)	9.81	7.32	5.96	4.43	3.51	2.25	1.13	1.75	700	381	33	30
flex-G-US131-CS54013-08-18-1994-(5)	9.25	6.88	5.56	4.23	3.34	2.23	1.20	1.11	700	373	40	29
flex-G-US131-CS54013-08-18-1994-(5)	9.20	7.05	5.78	4.48	3.62	2.51	1.51	1.13	700	359	49	24

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-US131-CS54013-08-18-1994-(5)	9.65	7.19	5.70	4.20	3.23	2.04	1.02	1.65	700	365	33	33
flex-G-US131-CS54013-08-18-1994-(5)	9.73	7.36	5.86	4.36	3.34	2.06	0.99	1.67	700	400	29	34
flex-G-US131-CS54013-08-18-1994-(5)	9.08	6.71	5.33	3.91	3.04	1.93	1.01	1.14	700	361	38	34
flex-G-US131-CS54013-08-18-1994-(5)	9.55	7.33	5.85	4.42	3.44	2.21	1.10	1.78	700	409	32	31
flex-G-US131-CS59012-06-25-1998	7.64	6.14	5.31	4.37	3.46	2.36	1.38	1.19	700	614	42	27
flex-G-US131-CS59012-06-25-1998	8.39	6.42	5.55	4.57	3.66	2.40	1.42	1.74	700	510	41	26
flex-G-US131-CS59012-06-25-1998	8.62	6.65	5.79	4.72	3.78	2.56	1.50	1.10	700	499	40	24
flex-G-US131-CS59012-06-25-1998	8.82	6.77	5.75	4.69	3.74	2.48	1.50	1.60	700	433	42	25
flex-G-US131-CS59012-06-25-1998	7.44	5.71	5.04	4.29	3.43	2.32	1.30	1.97	700	706	41	28
flex-G-US131-CS59012-06-25-1998	8.78	6.69	5.71	4.61	3.62	2.36	1.26	0.94	700	497	34	28
flex-G-US131-CS59012-06-25-1998	8.46	6.61	5.63	4.69	3.62	2.40	1.30	1.30	700	551	34	28
flex-G-US131-CS59012-06-25-1998	8.39	6.38	5.55	4.61	3.62	2.36	1.30	1.72	700	560	35	28
flex-G-US131-CS59012-06-25-1998	6.46	5.31	4.61	3.94	3.15	2.17	1.22	1.16	700	902	43	30
flex-G-US131-CS59012-06-25-1998	7.56	5.75	5.04	4.17	3.23	2.17	1.18	1.66	700	618	39	30
flex-G-US131-CS59012-06-25-1998	8.94	6.69	5.35	4.25	3.19	2.05	1.14	1.49	700	356	38	31
flex-G-US131-CS59012-06-25-1998	8.98	6.69	5.55	4.41	3.43	2.17	1.14	1.02	700	428	34	31
flex-G-US131-CS59012-06-25-1998	8.31	6.50	5.35	4.17	3.11	2.05	1.10	1.57	700	433	37	32
flex-G-US131-CS59012-06-25-1998	7.91	6.02	5.20	4.17	3.19	1.97	1.06	1.81	700	537	35	34
flex-G-US131-CS59012-06-25-1998	7.95	5.94	5.04	4.06	3.15	2.01	1.14	1.60	700	474	41	32
flex-G-US131-CS59012-06-25-1998	8.78	6.42	5.28	4.17	3.19	2.05	1.14	1.10	700	372	39	31
flex-G-US131-CS59012-06-25-1998	7.80	5.94	5.00	4.06	3.11	2.01	1.14	1.58	700	491	41	32
flex-G-US131-CS59012-06-25-1998	8.98	6.69	5.51	4.21	3.23	2.05	1.14	0.99	700	360	37	31
flex-G-M57-CS41122-8-23-1994	17.24	12.70	9.70	6.65	4.93	3.09	1.69	1.01	700	1,305	25	21
flex-G-M57-CS41122-8-23-1994	13.09	9.84	7.47	5.04	3.84	2.53	1.46	1.17	700	1,438	37	25

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-M57-CS41122-8-23-1994	12.98	9.82	7.48	5.25	4.05	2.61	1.43	1.76	700	1,801	35	24
flex-G-M57-CS41122-8-23-1994	11.49	9.00	7.13	5.03	3.83	2.41	1.26	1.87	700	2,830	33	27
flex-G-M57-CS41122-8-23-1994	10.56	8.51	6.88	4.98	3.89	2.54	1.43	0.98	700	3,254	39	25
flex-G-M57-CS41122-8-23-1994	10.37	8.36	6.74	4.82	3.74	2.42	1.31	1.43	700	3,423	37	27
flex-G-M57-CS41122-8-23-1994	11.04	8.72	6.83	4.83	3.70	2.43	1.42	1.03	700	2,318	41	25
flex-G-M57-CS41122-8-23-1994	11.48	8.90	6.90	4.72	3.37	1.88	0.95	1.05	700	2,864	29	35
flex-G-M57-CS41122-8-23-1994	9.87	7.51	5.73	3.90	2.84	1.73	0.95	0.79	700	2,506	41	37
flex-G-M57-CS41122-8-23-1994	11.10	8.71	6.75	4.70	3.57	2.37	1.41	1.44	700	2,028	42	26
flex-G-M57-CS41122-8-23-1994	10.38	7.86	5.86	4.08	3.07	1.98	1.15	1.08	700	1,919	45	31
flex-G-M57-CS41122-8-23-1994	9.27	7.33	5.85	4.25	3.23	2.08	1.21	0.65	700	3,221	45	29
flex-G-M57-CS41122-8-23-1994	9.59	7.56	6.10	4.37	3.32	2.17	1.27	0.64	700	2,978	44	28
flex-G-M57-CS41122-8-23-1994	11.81	9.33	7.55	5.45	4.16	2.54	1.35	1.11	700	3,223	30	25
flex-G-M57-CS41122-8-23-1994	9.63	6.88	5.19	3.59	2.63	1.63	0.89	1.42	700	2,163	46	39
flex-G-M57-CS41122-8-23-1994	9.13	7.38	5.81	4.02	2.96	1.83	1.01	1.27	700	3,317	41	35
flex-G-M57-CS41122-8-23-1994	9.29	7.26	5.62	3.98	3.04	2.05	1.18	1.04	700	2,521	49	30
flex-G-M57-CS41122-8-23-1994	11.09	8.91	6.94	4.97	3.73	2.40	1.35	1.01	700	2,618	36	26
flex-G-M57-CS41122-8-23-1994	9.64	7.54	5.81	4.12	3.08	1.98	1.10	0.97	700	2,750	43	32
flex-G-M57-CS41122-8-23-1994	10.59	8.28	6.43	4.55	3.42	2.20	1.25	0.77	700	2,454	40	28
flex-G-M57-CS41122-8-23-1994	9.86	8.10	6.42	4.66	3.55	2.40	1.48	2.00	700	2,711	46	25
flex-G-M57-CS41122-8-23-1994	11.88	9.86	7.95	5.80	4.47	2.98	1.80	1.66	700	2,664	36	20
flex-G-M57-CS41122-8-23-1994	8.65	6.61	5.37	3.81	2.84	1.70	0.94	0.85	700	3,736	43	37
flex-G-M57-CS41122-8-23-1994	13.77	11.03	9.26	7.13	5.59	3.61	1.88	1.79	700	3,852	24	18
flex-G-M57-CS41122-8-23-1994	9.38	7.38	5.83	4.09	3.12	2.00	1.16	0.96	700	2,843	45	31
flex-G-M57-CS41122-8-23-1994	10.55	8.15	6.24	4.40	3.34	2.20	1.29	0.97	700	2,056	44	27

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-M57-CS41122-8-23-1994	9.87	6.75	5.11	3.53	2.66	1.66	0.94	1.93	700	1,767	49	37
flex-G-M57-CS41122-8-23-1994	9.69	6.83	5.13	3.53	2.60	1.61	0.89	1.45	700	1,952	46	38
flex-G-M57-CS41122-8-23-1994	9.25	6.86	5.27	3.69	2.76	1.74	1.02	0.92	700	2,299	48	35
flex-G-M57-CS41122-8-23-1994	9.33	7.27	5.81	4.19	3.23	2.13	1.27	0.70	700	2,824	48	28
flex-G-M57-CS41122-8-23-1994	8.34	6.30	5.03	3.66	2.83	1.88	1.09	0.80	700	3,068	55	32
flex-G-M57-CS41122-8-23-1994	10.29	7.13	5.18	3.46	2.56	1.61	0.91	0.99	700	1,440	47	38
flex-G-M57-CS41122-8-23-1994	12.36	8.86	6.40	4.21	3.11	1.97	1.16	1.29	700	1,181	40	31
flex-G-M57-CS41122-8-23-1994	9.91	7.60	5.95	4.26	3.28	2.11	1.16	1.49	700	2,911	43	31
flex-G-M57-CS41122-8-23-1994	9.81	7.79	6.26	4.68	3.69	2.56	1.57	0.56	700	2,803	51	23
flex-G-M57-CS41122-8-23-1994	10.23	7.78	6.09	4.42	3.41	2.16	1.17	1.91	700	2,936	41	30
flex-G-M57-CS41122-8-23-1994	9.26	6.83	5.22	3.57	2.65	1.66	0.93	0.78	700	2,359	47	38
flex-G-M57-CS41122-8-23-1994	8.86	6.75	5.44	3.96	2.96	1.84	1.04	0.87	700	3,572	46	34
flex-G-M57-CS41122-8-23-1994	9.85	7.92	6.53	4.89	3.82	2.50	1.42	0.55	700	3,995	41	25
flex-G-M57-CS41122-8-23-1994	10.30	8.09	6.50	4.65	3.52	2.16	1.08	2.00	700	3,854	33	31
flex-G-M57-CS41122-8-23-1994	9.69	7.46	5.82	4.02	2.93	1.78	0.94	1.14	700	3,034	38	36
flex-G-M57-CS41122-8-23-1994	9.79	7.41	5.79	4.07	3.06	1.91	1.06	0.86	700	2,727	42	33
flex-G-M57-CS41122-8-23-1994	10.88	8.01	5.95	4.25	3.32	2.29	1.33	1.25	700	1,487	49	27
flex-G-M57-CS41122-8-23-1994	10.88	8.29	6.35	4.56	3.57	2.47	1.49	0.88	700	1,755	48	24
flex-G-M57-CS41122-8-23-1994	10.10	7.75	6.06	4.30	3.26	2.09	1.20	0.54	700	2,512	43	29
flex-G-M57-CS41122-8-23-1994	10.54	8.01	6.09	4.47	3.54	2.34	1.44	1.58	700	1,930	49	25
flex-G-M57-CS41122-8-23-1994	11.10	8.05	6.25	4.40	3.39	2.15	1.25	1.29	700	1,923	43	29
flex-G-M57-CS41122-8-23-1994	10.28	8.23	6.64	4.85	3.83	2.39	1.28	1.74	700	3,961	36	27
flex-G-M57-CS41122-8-23-1994	9.99	7.58	5.84	4.22	3.17	2.18	1.28	0.65	700	2,117	50	28
flex-G-M57-CS41122-8-23-1994	11.54	8.96	6.94	5.02	3.78	2.34	1.28	1.29	700	2,683	34	27

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-M57-CS41122-8-23-1994	11.25	8.05	6.03	4.24	3.21	2.09	1.19	1.14	700	1,594	44	30
flex-G-M57-CS41122-8-23-1994	10.36	7.84	6.07	4.21	3.13	1.91	1.02	1.39	700	2,673	38	34
flex-G-M57-CS41122-8-23-1994	10.36	7.57	5.83	4.09	3.04	1.96	1.11	0.68	700	2,056	44	32
flex-G-M57-CS41122-8-23-1994	10.79	7.74	5.83	3.89	2.80	1.64	0.92	1.00	700	1,907	39	38
flex-G-M57-CS41122-8-23-1994	11.02	8.10	6.20	4.31	3.19	2.02	1.20	0.97	700	1,826	42	30
flex-G-M57-CS41122-8-23-1994	10.71	8.01	6.18	4.48	3.41	2.20	1.21	1.75	700	2,403	41	29
flex-G-M57-CS41122-8-23-1994	11.48	8.92	7.01	5.15	3.98	2.64	1.46	1.54	700	2,528	37	24
flex-G-M57-CS41122-8-23-1994	11.15	8.34	6.45	4.71	3.64	2.38	1.34	1.58	700	2,214	41	26
flex-G-M57-CS41122-8-23-1994	9.58	7.07	5.55	3.96	3.02	1.96	1.12	0.96	700	2,457	48	31
flex-G-M57-CS41122-8-23-1994	9.87	7.31	5.64	4.02	3.09	2.05	1.18	0.80	700	2,143	49	30
flex-G-M57-CS41122-8-23-1994	10.12	7.49	5.74	4.15	3.18	2.15	1.28	0.56	700	1,889	51	28
flex-G-M57-CS29021-5-23-1995	10.37	7.45	5.43	3.47	2.44	1.39	0.73	1.46	700	2,041	40	49
flex-G-M57-CS29021-5-23-1995	12.38	9.66	7.70	5.49	4.07	2.48	1.30	1.11	700	3,001	30	28
flex-G-M57-CS29021-5-23-1995	11.82	9.10	6.99	4.96	3.75	2.49	1.40	0.98	700	2,085	40	26
flex-G-M57-CS29021-5-23-1995	10.85	8.21	6.31	4.36	3.27	2.13	1.22	0.65	700	2,078	44	31
flex-G-M57-CS29021-5-23-1995	10.46	7.79	5.94	4.15	3.12	2.04	1.16	0.59	700	2,099	47	32
flex-G-M57-CS29021-5-23-1995	11.40	9.31	7.58	5.64	4.37	2.72	1.43	1.18	700	4,183	31	25
flex-G-M57-CS29021-5-23-1995	10.47	8.30	6.76	4.97	3.77	2.26	1.11	1.91	700	4,797	30	32
flex-G-M57-CS29021-5-23-1995	11.46	9.11	7.43	5.49	4.18	2.56	1.27	1.89	700	4,359	29	28
flex-G-M57-CS29021-5-23-1995	11.50	8.99	7.23	5.23	3.96	2.34	1.20	1.57	700	3,702	30	30
flex-G-M57-CS29021-5-23-1995	11.51	9.10	7.29	5.32	3.93	2.28	1.12	1.52	700	4,033	28	32
flex-G-M57-CS29021-5-23-1995	11.29	8.69	6.99	5.09	3.83	2.35	1.31	0.94	700	3,138	36	28
flex-G-M57-CS29021-5-23-1995	11.04	8.50	6.78	4.89	3.67	2.18	1.16	1.37	700	3,405	34	31
flex-G-M57-CS29021-5-23-1995	10.02	7.86	6.43	4.71	3.59	2.16	1.09	1.72	700	4,689	34	33

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-M57-CS29021-5-23-1995	10.47	7.71	5.80	3.92	2.88	1.75	0.92	1.87	700	2,378	40	39
flex-G-M57-CS29021-5-23-1995	11.02	8.59	6.81	4.77	3.46	1.88	0.91	1.40	700	3,825	28	38
flex-G-M57-CS29021-5-23-1995	10.14	7.88	6.18	4.33	3.15	1.85	0.93	1.45	700	3,652	35	38
flex-G-M57-CS29021-5-23-1995	12.83	10.32	8.40	6.11	4.51	2.63	1.21	1.86	700	4,204	22	29
flex-G-M57-CS59021-08-23-1994	13.09	9.84	7.47	5.04	3.84	2.53	1.46	1.17	700	1,448	37	25
flex-G-M57-CS59021-08-23-1994	12.98	9.82	7.48	5.25	4.05	2.61	1.43	1.76	700	1,802	35	24
flex-G-M57-CS59021-08-23-1994	11.49	9.00	7.13	5.03	3.83	2.41	1.26	1.87	700	2,830	33	27
flex-G-M57-CS59021-08-23-1994	10.56	8.51	6.88	4.98	3.89	2.54	1.43	0.98	700	3,254	39	25
flex-G-M57-CS59021-08-23-1994	10.37	8.36	6.74	4.82	3.74	2.42	1.31	1.43	700	3,423	37	27
flex-G-M57-CS59021-08-23-1994	11.04	8.72	6.83	4.83	3.70	2.43	1.42	1.03	700	2,318	41	25
flex-G-M57-CS59021-08-23-1994	11.48	8.90	6.90	4.72	3.37	1.88	0.95	1.05	700	2,865	29	35
flex-G-M57-CS59021-08-23-1994	9.87	7.51	5.73	3.90	2.84	1.73	0.95	0.79	700	2,506	41	37
flex-G-M57-CS59021-08-23-1994	11.10	8.71	6.75	4.70	3.57	2.37	1.41	1.44	700	2,028	42	26
flex-G-M57-CS59021-08-23-1994	10.75	8.44	6.58	4.72	3.56	2.33	1.42	1.52	700	2,255	43	26
flex-G-M57-CS59021-08-23-1994	10.38	7.86	5.86	4.08	3.07	1.98	1.15	1.08	700	1,919	45	31
flex-G-M57-CS59021-08-23-1994	9.83	7.96	6.50	4.81	3.66	2.31	1.28	0.30	700	4,018	37	28
flex-G-M57-CS59021-08-23-1994	9.65	7.70	6.27	4.48	3.42	2.11	1.10	1.24	700	4,066	36	31
flex-G-M57-CS59021-08-23-1994	9.27	7.33	5.85	4.25	3.23	2.08	1.21	0.65	700	3,221	45	29
flex-G-M57-CS59021-08-23-1994	9.59	7.56	6.10	4.37	3.32	2.17	1.27	0.64	700	2,978	44	28
flex-G-M57-CS59021-08-23-1994	11.81	9.33	7.55	5.45	4.16	2.54	1.35	1.11	700	3,223	30	25
flex-G-M57-CS59021-08-23-1994	9.09	7.06	5.74	4.17	3.08	1.87	0.93	1.75	700	4,593	36	36
flex-G-M57-CS59021-08-23-1994	9.63	7.51	6.02	4.37	3.37	2.26	1.43	1.62	700	2,548	51	26
flex-G-M57-CS59021-08-23-1994	9.63	6.88	5.19	3.59	2.63	1.63	0.89	1.42	700	2,163	46	39
flex-G-M57-CS59021-08-23-1994	9.13	7.38	5.81	4.02	2.96	1.83	1.01	1.27	700	3,317	41	35

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-M57-CS59021-08-23-1994	9.29	7.26	5.62	3.98	3.04	2.05	1.18	1.04	700	2,521	49	30
flex-G-M57-CS59021-08-23-1994	11.09	8.91	6.94	4.97	3.73	2.40	1.35	1.01	700	2,618	36	26
flex-G-M57-CS59021-08-23-1994	9.64	7.54	5.81	4.12	3.08	1.98	1.10	0.97	700	2,750	43	32
flex-G-M57-CS59021-08-23-1994	10.59	8.28	6.43	4.55	3.42	2.20	1.25	0.77	700	2,454	40	28
flex-G-M57-CS59021-08-23-1994	9.86	8.10	6.42	4.66	3.55	2.40	1.48	2.00	700	2,711	46	25
flex-G-M57-CS59021-08-23-1994	11.88	9.86	7.95	5.80	4.47	2.98	1.80	1.66	700	2,664	36	20
flex-G-M57-CS59021-08-23-1994	8.65	6.61	5.37	3.81	2.84	1.70	0.94	0.85	700	3,736	43	37
flex-G-M57-CS59021-08-23-1994	13.77	11.03	9.26	7.13	5.59	3.61	1.88	1.79	700	3,852	24	18
flex-G-M57-CS59021-08-23-1994	9.38	7.38	5.83	4.09	3.12	2.00	1.16	0.96	700	2,843	45	31
flex-G-M57-CS59021-08-23-1994	10.55	8.15	6.24	4.40	3.34	2.20	1.29	0.97	700	2,056	44	27
flex-G-M57-CS59021-08-23-1994	9.87	6.76	5.12	3.51	2.64	1.64	0.95	1.62	700	1,705	49	37
flex-G-M57-CS59021-08-23-1994	9.59	6.85	5.13	3.50	2.56	1.58	0.88	1.01	700	1,972	46	39
flex-G-M57-CS59021-08-23-1994	8.60	6.86	5.53	4.06	3.16	2.11	1.31	1.30	700	3,222	54	28
flex-G-M57-CS59021-08-23-1994	8.89	7.04	5.64	4.04	3.13	2.04	1.19	0.81	700	3,139	47	29
flex-G-M57-CS59021-08-23-1994	10.18	7.78	6.15	4.51	3.45	2.35	1.45	1.03	700	2,156	49	25
flex-G-M57-CS59021-08-23-1994	8.45	6.62	5.43	4.06	3.18	2.17	1.26	0.61	700	3,787	53	28
flex-G-M57-CS59021-08-23-1994	8.15	5.67	4.25	2.86	2.12	1.28	0.75	1.72	700	2,086	57	47
flex-G-M57-CS59021-08-23-1994	10.72	7.73	5.74	4.08	3.19	2.21	1.35	0.90	700	1,226	52	26
flex-G-M57-CS59021-08-23-1994	8.23	5.62	4.15	2.85	2.10	1.30	0.75	1.61	700	1,899	59	47
flex-G-M57-CS59021-08-23-1994-(2)	12.61	9.48	7.20	4.86	3.71	2.44	1.41	1.17	700	1,450	37	25
flex-G-M57-CS59021-08-23-1994-(2)	12.53	9.48	7.22	5.06	3.91	2.52	1.38	1.82	700	1,808	35	24
flex-G-M57-CS59021-08-23-1994-(2)	11.06	8.67	6.86	4.84	3.69	2.32	1.21	1.86	700	2,828	33	27
flex-G-M57-CS59021-08-23-1994-(2)	10.21	8.23	6.65	4.81	3.77	2.46	1.39	0.98	700	3,254	39	25
flex-G-M57-CS59021-08-23-1994-(2)	10.04	8.09	6.52	4.67	3.62	2.34	1.27	1.39	700	3,407	37	27

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-M57-CS59021-08-23-1994-(2)	10.69	8.44	6.61	4.67	3.58	2.36	1.38	1.04	700	2,309	41	25
flex-G-M57-CS59021-08-23-1994-(2)	11.11	8.61	6.68	4.56	3.26	1.82	0.92	1.02	700	2,854	29	35
flex-G-M57-CS59021-08-23-1994-(2)	9.56	7.27	5.55	3.78	2.76	1.68	0.92	0.78	700	2,517	40	37
flex-G-M57-CS59021-08-23-1994-(2)	10.76	8.45	6.54	4.56	3.46	2.30	1.37	1.46	700	2,025	42	26
flex-G-M57-CS59021-08-23-1994-(2)	10.44	8.20	6.39	4.58	3.46	2.26	1.38	1.52	700	2,255	43	26
flex-G-M57-CS59021-08-23-1994-(2)	10.09	7.64	5.70	3.97	2.99	1.93	1.12	1.08	700	1,913	45	31
flex-G-M57-CS59021-08-23-1994-(2)	9.56	7.75	6.33	4.68	3.56	2.25	1.25	0.30	700	4,017	37	28
flex-G-M57-CS59021-08-23-1994-(2)	9.41	7.51	6.12	4.36	3.33	2.06	1.07	1.32	700	4,084	36	31
flex-G-M57-CS59021-08-23-1994-(2)	9.05	7.16	5.71	4.15	3.15	2.03	1.18	0.64	700	3,216	45	29
flex-G-M57-CS59021-08-23-1994-(2)	9.42	7.43	5.99	4.29	3.26	2.13	1.25	0.68	700	2,965	44	28
flex-G-M57-CS59021-08-23-1994-(2)	11.59	9.16	7.41	5.34	4.08	2.49	1.32	1.12	700	3,228	30	25
flex-G-M57-CS59021-08-23-1994-(2)	8.82	6.85	5.57	4.05	2.99	1.82	0.90	1.81	700	4,615	36	36
flex-G-M57-CS59021-08-23-1994-(2)	9.30	7.25	5.81	4.22	3.25	2.19	1.38	1.59	700	2,548	51	26
flex-G-M57-CS59021-08-23-1994-(2)	9.34	6.68	5.04	3.48	2.55	1.58	0.87	1.41	700	2,170	46	39
flex-G-M57-CS59021-08-23-1994-(2)	8.89	7.18	5.66	3.92	2.88	1.78	0.98	1.26	700	3,323	41	35
flex-G-M57-CS59021-08-23-1994-(2)	9.07	7.09	5.49	3.88	2.97	2.00	1.15	1.05	700	2,535	49	30
flex-G-M57-CS59021-08-23-1994-(2)	10.88	8.73	6.80	4.88	3.66	2.35	1.33	1.00	700	2,624	36	26
flex-G-M57-CS59021-08-23-1994-(2)	9.42	7.37	5.67	4.02	3.01	1.94	1.08	0.97	700	2,740	43	32
flex-G-M57-CS59021-08-23-1994-(2)	10.41	8.14	6.32	4.47	3.36	2.16	1.23	0.78	700	2,448	40	28
flex-G-M57-CS59021-08-23-1994-(2)	11.70	9.71	7.83	5.72	4.40	2.93	1.77	1.66	700	2,675	36	20
flex-G-M57-CS59021-08-23-1994-(2)	9.41	7.50	5.77	3.95	2.93	1.83	1.09	1.99	700	2,506	43	32
flex-G-M57-CS59021-08-23-1994-(2)	8.51	6.50	5.28	3.74	2.79	1.68	0.93	0.86	700	3,736	43	37
flex-G-M57-CS59021-08-23-1994-(2)	13.54	10.85	9.10	7.01	5.50	3.55	1.85	1.79	700	3,852	24	18
flex-G-M57-CS59021-08-23-1994-(2)	9.21	7.25	5.72	4.02	3.06	1.96	1.14	0.95	700	2,844	45	31

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-M57-CS59021-08-23-1994-(2)	10.38	8.02	6.14	4.33	3.29	2.17	1.27	0.96	700	2,061	44	27
flex-G-M57-CS59021-08-23-1994-(2)	9.72	6.67	5.04	3.46	2.60	1.62	0.93	1.59	700	1,701	49	37
flex-G-M57-CS59021-08-23-1994-(2)	9.47	6.76	5.07	3.45	2.53	1.56	0.87	1.03	700	1,965	46	39
flex-G-M57-CS59021-08-23-1994-(2)	8.45	6.74	5.44	3.99	3.11	2.08	1.28	1.25	700	3,222	54	28
flex-G-M57-CS59021-08-23-1994-(2)	10.79	7.91	5.92	4.22	3.26	2.31	1.47	1.98	700	1,216	53	25
flex-G-M57-CS59021-08-23-1994-(2)	9.00	7.13	5.72	4.09	3.17	2.07	1.21	0.82	700	3,133	47	29
flex-G-M57-CS59021-08-23-1994-(2)	9.97	7.62	6.03	4.42	3.38	2.30	1.42	1.05	700	2,157	49	25
flex-G-M57-CS59021-08-23-1994-(2)	8.31	6.51	5.34	4.00	3.13	2.13	1.24	0.58	700	3,782	53	28
flex-G-M57-CS59021-08-23-1994-(2)	8.02	5.57	4.18	2.81	2.09	1.26	0.74	1.72	700	2,073	57	47
flex-G-M57-CS59021-08-23-1994-(2)	10.70	7.71	5.73	4.07	3.18	2.21	1.35	0.92	700	1,223	52	26
flex-G-M57-CS59021-08-23-1994-(2)	9.86	6.78	5.01	3.50	2.64	1.74	1.10	1.98	700	1,214	56	33
flex-G-M57-CS59021-08-23-1994-(2)	8.11	5.54	4.09	2.81	2.07	1.28	0.74	1.63	700	1,898	59	47
flex-G-M57-CS59021-08-23-1994-(3)	10.58	8.53	6.95	5.24	4.17	2.87	1.71	0.97	700	3,462	41	24
flex-G-M57-CS59021-08-23-1994-(3)	10.26	8.17	6.62	4.85	3.75	2.38	1.29	1.80	700	4,080	34	31
flex-G-M57-CS59021-08-23-1994-(3)	8.14	6.33	4.97	3.55	2.56	1.53	0.87	0.56	700	4,017	44	46
flex-G-M57-CS59021-08-23-1994-(3)	9.60	7.76	6.41	4.79	3.75	2.45	1.40	1.00	700	4,477	38	29
flex-G-M57-CS59021-08-23-1994-(3)	9.89	7.65	6.03	4.24	3.22	2.12	1.18	1.77	700	2,974	41	33
flex-G-M57-CS59021-08-23-1994-(3)	9.59	7.71	6.13	4.24	3.10	1.85	0.97	1.54	700	3,910	32	40
flex-G-M57-CS59021-08-23-1994-(3)	10.23	7.73	6.02	4.23	3.24	2.16	1.36	0.86	700	2,065	47	31
flex-G-M57-CS59021-08-23-1994-(3)	11.72	8.82	6.68	4.78	3.71	2.57	1.50	1.74	700	1,735	41	27
flex-G-M57-CS59021-08-23-1994-(3)	9.24	7.28	5.72	4.17	3.27	2.28	1.44	0.88	700	2,566	53	29
flex-G-M57-CS59021-08-23-1994-(3)	10.34	7.98	6.22	4.39	3.35	2.17	1.25	1.21	700	2,612	40	32
flex-G-M57-CS59021-08-23-1994-(3)	9.53	7.24	5.83	4.18	3.02	1.88	1.15	1.26	700	3,031	41	36
flex-G-M57-CS59021-08-23-1994-(3)	9.69	7.42	5.75	4.16	3.19	2.09	1.22	1.35	700	2,797	44	33

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-M57-CS59021-08-23-1994-(3)	10.71	8.47	6.81	4.86	3.81	2.65	1.71	1.41	700	2,261	46	24
flex-G-M57-CS59021-08-23-1994-(3)	9.69	7.29	5.72	4.14	3.15	2.22	1.42	0.90	700	1,997	53	29
flex-G-M57-CS59021-08-23-1994-(3)	25.11	14.76	9.35	5.66	3.98	2.49	1.48	0.91	700	231	22	26
flex-G-M57-CS59021-08-23-1994-(3)	7.92	5.76	4.55	3.08	2.17	1.45	0.88	1.51	700	2,570	57	47
flex-G-M57-CS59021-08-23-1994-(3)	11.22	7.89	5.94	4.03	3.09	2.02	1.30	1.53	700	1,315	47	32
flex-G-M57-CS59021-08-23-1994-(3)	9.50	7.87	6.44	4.62	3.84	2.58	1.60	1.99	700	3,609	47	26
flex-G-M57-CS59021-08-23-1994-(3)	10.49	8.41	6.81	5.03	3.88	2.47	1.46	0.63	700	3,564	36	28
flex-G-M57-CS59021-08-23-1994-(3)	8.75	7.02	5.89	4.33	3.30	2.14	1.28	0.61	700	4,410	44	32
flex-G-M57-CS59021-08-23-1994-(3)	10.24	7.87	6.02	4.32	3.32	2.25	1.44	1.24	700	2,017	48	29
flex-G-M57-CS59021-08-23-1994-(3)	10.17	7.47	5.64	4.03	3.03	2.17	1.36	1.04	700	1,537	54	31
flex-G-M57-CS59021-08-23-1994-(3)	11.48	9.39	7.47	5.40	4.05	2.42	1.25	1.63	700	3,863	26	31
flex-G-M57-CS59021-08-23-1994-(3)	11.67	8.09	5.94	4.26	3.26	2.21	1.33	1.52	700	1,227	46	30
flex-G-M57-CS59021-08-23-1994-(3)	10.22	7.54	5.85	4.19	3.17	2.13	1.24	1.26	700	2,227	45	32
flex-G-M57-CS59021-08-23-1994-(3)	11.18	8.03	5.92	3.95	2.82	1.74	1.05	0.82	700	1,608	40	39
flex-G-M57-CS59021-08-23-1994-(3)	10.73	8.28	6.80	5.06	3.98	2.61	1.48	1.85	700	3,531	37	27
flex-G-M57-CS59021-08-23-1994-(3)	9.65	7.03	5.51	3.98	3.03	1.95	1.14	1.77	700	2,656	45	35
flex-G-M57-CS59021-08-23-1994-(3)	9.62	7.26	5.65	4.02	3.07	2.00	1.13	1.86	700	2,799	44	35
flex-G-M57-CS59021-08-23-1994-(3)	10.21	7.40	5.57	3.98	3.11	2.12	1.31	0.93	700	1,648	52	32
flex-G-M57-CS59021-08-23-1994-(3)	10.08	7.68	6.15	4.48	3.37	2.20	1.23	1.73	700	3,228	39	32
flex-G-M57-CS59021-08-23-1994-(4)	10.17	8.21	6.68	5.04	4.01	2.76	1.65	0.50	700	3,132	45	21
flex-G-M57-CS59021-08-23-1994-(4)	9.91	7.90	6.39	4.68	3.62	2.30	1.25	1.10	700	3,710	37	27
flex-G-M57-CS59021-08-23-1994-(4)	7.84	6.10	4.79	3.42	2.46	1.47	0.84	1.09	700	3,676	47	41
flex-G-M57-CS59021-08-23-1994-(4)	9.29	7.50	6.20	4.64	3.62	2.37	1.36	0.40	700	4,111	42	26
flex-G-M57-CS59021-08-23-1994-(4)	9.99	8.06	6.58	4.95	3.91	2.59	1.40	1.71	700	4,111	37	24

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-M57-CS59021-08-23-1994-(4)	9.58	7.41	5.84	4.11	3.11	2.06	1.15	0.96	700	2,660	44	30
flex-G-M57-CS59021-08-23-1994-(4)	9.37	7.53	5.99	4.14	3.03	1.81	0.95	1.02	700	3,560	35	35
flex-G-M57-CS59021-08-23-1994-(4)	9.35	7.07	5.56	3.90	2.90	1.73	0.89	1.91	700	3,386	38	37
flex-G-M57-CS59021-08-23-1994-(4)	9.95	7.52	5.85	4.11	3.15	2.10	1.32	1.75	700	1,880	50	27
flex-G-M57-CS59021-08-23-1994-(4)	11.63	8.06	5.67	3.99	3.11	2.20	1.28	1.39	700	821	50	27
flex-G-M57-CS59021-08-23-1994-(4)	11.46	8.63	6.53	4.67	3.63	2.51	1.47	0.98	700	1,561	44	24
flex-G-M57-CS59021-08-23-1994-(4)	9.04	7.12	5.60	4.08	3.21	2.24	1.41	1.46	700	2,355	57	26
flex-G-M57-CS59021-08-23-1994-(4)	10.12	7.81	6.09	4.30	3.27	2.13	1.22	0.68	700	2,379	43	28
flex-G-M57-CS59021-08-23-1994-(4)	9.49	7.27	5.63	4.08	3.13	2.04	1.19	0.77	700	2,521	47	29
flex-G-M57-CS59021-08-23-1994-(4)	9.50	7.14	5.61	4.06	3.09	2.18	1.39	1.88	700	1,797	57	26
flex-G-M57-CS59021-08-23-1994-(4)	10.16	8.15	6.60	4.88	3.75	2.39	1.41	0.90	700	3,259	39	25
flex-G-M57-CS59021-08-23-1994-(4)	8.49	6.81	5.71	4.20	3.20	2.07	1.24	1.29	700	4,071	47	28
flex-G-M57-CS59021-08-23-1994-(4)	9.77	7.17	5.42	3.87	2.91	2.09	1.31	1.88	700	1,368	57	28
flex-G-M57-CS59021-08-23-1994-(4)	9.49	7.58	6.06	4.42	3.33	2.07	1.04	1.86	700	4,183	35	32
flex-G-M57-CS59021-08-23-1994-(4)	11.17	9.14	7.27	5.26	3.94	2.36	1.22	1.08	700	3,543	28	27
flex-G-M57-CS59021-08-23-1994-(4)	11.33	7.85	5.76	4.13	3.16	2.14	1.29	1.05	700	1,079	49	27
flex-G-M57-CS59021-08-23-1994-(4)	10.16	7.79	6.02	4.11	3.02	1.77	0.89	1.97	700	2,963	34	37
flex-G-M57-CS59021-08-23-1994-(4)	9.97	7.36	5.71	4.09	3.10	2.08	1.21	0.35	700	2,001	48	29
flex-G-M57-CS59021-08-23-1994-(4)	10.32	7.39	5.63	3.76	2.70	1.56	0.82	1.62	700	2,257	37	40
flex-G-M57-CS59021-08-23-1994-(4)	10.84	7.79	5.74	3.83	2.74	1.69	1.02	1.87	700	1,465	42	35
flex-G-M57-CS59021-08-23-1994-(4)	10.40	8.03	6.59	4.91	3.86	2.53	1.44	1.24	700	3,205	40	24
flex-G-M57-CS59021-08-23-1994-(4)	11.05	8.74	6.92	5.11	3.94	2.63	1.46	1.23	700	2,769	38	23
flex-G-M57-CS59021-08-23-1994-(4)	11.76	8.85	6.84	4.98	3.86	2.54	1.40	1.90	700	2,156	37	24
flex-G-M57-CS59021-08-23-1994-(4)	9.47	6.90	5.41	3.90	2.98	1.91	1.12	1.25	700	2,347	49	31

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-M57-CS59021-08-23-1994-(4)	9.35	7.06	5.49	3.91	2.98	1.95	1.10	0.91	700	2,522	47	31
flex-G-M57-CS59021-08-23-1994-(4)	9.85	7.14	5.37	3.84	3.00	2.04	1.26	1.04	700	1,478	55	28
flex-G-M57-CS59021-08-23-1994-(4)	9.78	7.45	5.97	4.35	3.27	2.13	1.19	0.89	700	2,934	42	29
flex-Su-M28-CS75061-05-21-2008	9.71	8.07	7.09	5.71	4.61	3.06	1.67	0.50	700	1,408	31	22
flex-Su-M28-CS75061-05-21-2008	9.41	7.84	6.94	5.63	4.63	3.13	1.77	0.65	700	1,485	35	21
flex-Su-M28-CS75061-05-21-2008	9.27	7.64	6.68	5.39	4.37	2.89	1.50	1.04	700	1,579	30	25
flex-Su-M28-CS75061-05-21-2008	11.12	9.41	8.30	6.74	5.50	3.66	1.93	0.49	700	1,445	24	19
flex-Su-M28-CS75061-05-21-2008	10.20	8.76	7.75	6.42	5.33	3.64	1.99	0.48	700	1,713	27	19
flex-Su-M28-CS75061-05-21-2008	9.44	7.94	7.11	5.90	4.83	3.25	1.67	1.02	700	1,972	25	22
flex-Su-M28-CS75061-05-21-2008	9.89	8.44	7.47	6.11	4.97	3.26	1.60	0.62	700	1,867	22	23
flex-Su-M28-CS75061-05-21-2008	9.85	8.24	7.35	6.00	4.95	3.38	1.90	0.71	700	1,525	32	20
flex-Su-M28-CS75061-05-21-2008	10.01	8.81	7.99	6.79	5.80	4.13	2.32	0.47	700	2,288	26	16
flex-Su-M28-CS75061-05-21-2008	8.91	7.45	6.53	5.28	4.21	2.63	1.19	0.99	700	1,992	21	31
flex-Su-M28-CS75061-05-21-2008	11.07	9.63	8.59	7.21	6.02	4.24	2.41	0.23	700	1,646	27	16
flex-Su-US2-CS75021-05-22-2008	5.55	4.69	4.28	3.72	3.19	2.35	1.31	1.68	300	3,872	64	23
flex-Su-US2-CS75021-05-22-2008	5.20	4.34	3.90	3.34	2.85	2.04	1.12	1.70	300	3,578	69	27
flex-Su-US2-CS75021-05-22-2008	6.30	5.40	5.00	4.38	3.82	2.87	1.77	1.27	300	3,271	72	17
flex-Su-US2-CS75021-05-22-2008	6.15	5.29	4.88	4.27	3.71	2.78	1.68	1.15	300	3,415	70	18
flex-Su-US2-CS75021-05-22-2008	5.87	5.01	4.60	4.00	3.43	2.46	1.31	1.58	300	4,348	46	24
flex-Su-US2-CS75021-05-22-2008	5.62	4.83	4.46	3.84	3.25	2.29	1.16	1.27	300	4,783	39	28
flex-Su-US2-CS75021-05-22-2008	6.07	5.29	4.88	4.28	3.72	2.81	1.65	1.06	300	4,060	62	18
flex-Su-US2-CS75021-05-22-2008	6.24	5.42	5.03	4.36	3.75	2.75	1.55	1.02	300	3,989	51	20
flex-Su-US2-CS75021-05-22-2008	6.08	5.33	4.95	4.37	3.84	2.88	1.73	1.05	300	4,366	62	18
flex-Su-US2-CS75021-05-22-2008	6.11	5.36	4.97	4.42	3.87	2.96	1.82	0.97	300	4,191	68	16

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-Su-M28-CS17061-05-22-2008	10.82	9.32	8.19	6.58	5.19	3.15	1.38	0.23	700	2,138	16	26
flex-Su-M28-CS17061-05-22-2008	10.50	8.91	7.81	6.29	5.01	3.16	1.43	0.85	700	2,197	18	25
flex-Su-M28-CS17061-05-22-2008	10.30	8.76	7.74	6.35	5.11	3.30	1.64	0.63	700	2,204	22	22
flex-Su-M28-CS17061-05-22-2008	10.05	8.48	7.52	6.17	5.05	3.42	1.85	0.74	700	2,047	28	20
flex-Su-M28-CS17061-05-22-2008	9.73	8.13	7.19	5.77	4.67	3.05	1.56	0.83	700	2,045	26	23
flex-Su-M28-CS17061-05-22-2008	10.65	9.21	8.26	6.87	5.66	3.88	2.13	0.38	700	2,198	25	17
flex-Su-M28-CS17061-05-22-2008	10.51	9.10	8.15	6.85	5.68	3.92	2.14	0.53	700	2,377	25	17
flex-Su-M28-CS17061-05-22-2008	9.43	7.99	7.08	5.80	4.70	3.10	1.57	0.75	700	2,361	25	23
flex-Su-M28-CS17061-05-22-2008	9.23	7.88	7.03	5.84	4.83	3.26	1.71	0.88	700	2,649	26	22
flex-Su-M28-CS17061-05-22-2008	10.43	8.97	7.96	6.56	5.38	3.61	1.82	0.74	700	2,340	21	20
flex-N-US23-CS1052-06-03-2008	10.18	7.35	6.13	4.87	3.96	2.80	1.62	1.91	200	1,272	65	14
flex-N-US23-CS1052-06-03-2008	13.12	9.84	7.98	6.10	4.83	3.23	1.82	1.44	200	1,123	42	13
flex-N-US23-CS1052-06-03-2008	9.13	6.78	5.64	4.52	3.75	2.73	1.70	1.48	200	1,245	79	14
flex-N-US23-CS1052-06-03-2008	9.36	6.93	5.76	4.53	3.65	2.51	1.48	1.89	200	1,525	66	16
flex-N-US23-CS1052-06-03-2008	8.84	6.32	5.19	4.10	3.30	2.35	1.42	1.90	200	1,160	79	17
flex-N-US23-CS1052-06-03-2008	10.60	7.54	5.92	4.26	3.19	1.88	0.93	1.99	200	1,431	42	25
flex-N-US23-CS71073-06-04-2008	11.74	9.26	7.71	5.94	4.69	3.11	1.71	0.46	700	480	30	21
flex-N-US23-CS71073-06-04-2008	10.85	8.31	6.86	5.06	3.85	2.48	1.46	1.83	700	397	36	25
flex-N-US23-CS71073-06-04-2008	11.31	8.52	7.06	5.45	4.24	2.76	1.57	0.68	700	427	34	23
flex-N-US23-CS71073-06-04-2008	11.33	8.45	7.16	5.66	4.58	3.14	1.82	1.16	700	444	39	20
flex-N-US23-CS71073-06-04-2008	11.65	9.83	8.51	7.06	5.78	4.08	2.38	0.42	700	719	30	15
flex-N-US23-CS71073-06-04-2008	10.88	8.62	7.26	5.88	4.75	3.27	1.81	1.20	700	605	33	20
flex-N-US23-CS71073-06-04-2008	12.13	9.38	7.74	5.96	4.65	2.98	1.59	0.68	700	463	27	22
flex-N-US23-CS71073-06-04-2008	13.68	10.57	8.54	6.52	5.08	3.25	1.79	0.70	700	355	26	20

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-N-US23-CS71073-06-04-2008	15.08	11.85	9.65	7.26	5.54	3.41	1.73	0.65	700	371	19	20
flex-N-US23-CS71073-06-04-2008	12.18	9.61	8.25	6.59	5.31	3.63	2.05	0.64	700	529	30	17
flex-N-US23-CS71073-06-04-2008	7.18	5.78	5.10	4.22	3.50	2.47	1.41	1.18	700	1,156	49	26
flex-N-US23-CS71073-06-04-2008-(2)	7.38	6.03	5.35	4.55	3.85	2.80	1.63	1.48	300	1,694	64	18
flex-N-US23-CS71073-06-04-2008-(2)	5.71	4.70	4.30	3.77	3.26	2.52	1.54	1.95	300	2,685	94	19
flex-N-US23-CS71073-06-04-2008-(2)	6.08	4.91	4.35	3.69	3.12	2.30	1.31	1.88	300	2,053	77	22
flex-N-US23-CS71073-06-04-2008-(2)	5.64	4.62	4.13	3.49	2.98	2.19	1.26	1.64	300	2,406	81	24
flex-N-US23-CS71073-06-04-2008-(2)	5.72	4.61	4.13	3.45	2.86	2.04	1.15	1.52	300	2,212	74	26
flex-N-US23-CS71073-06-04-2008-(2)	6.60	5.43	4.80	3.99	3.32	2.33	1.18	1.93	300	2,463	48	25
flex-N-US23-CS71073-06-04-2008-(2)	7.13	5.72	5.00	4.03	3.23	2.13	1.08	1.31	300	1,755	46	28
flex-N-US23-CS71073-06-04-2008-(2)	8.75	7.36	6.47	5.26	4.19	2.61	1.06	1.09	300	2,135	20	28
flex-N-US23-CS4032-06-03-2008	9.31	7.87	7.16	6.21	5.34	4.00	2.40	1.05	150	1,851	63	7
flex-N-US23-CS4032-06-03-2008	6.71	5.65	5.13	4.56	3.95	2.98	1.80	1.57	150	2,798	89	9
flex-N-US23-CS4032-06-03-2008	8.27	7.20	6.64	5.88	5.11	3.81	2.14	1.21	150	3,609	52	8
flex-N-US23-CS4032-06-03-2008	7.70	6.10	5.43	4.63	3.96	2.93	1.68	1.81	150	1,475	82	10
flex-N-US23-CS4032-06-03-2008	7.36	6.29	5.78	5.05	4.35	3.23	1.86	1.19	150	3,078	67	9
flex-N-US23-CS4032-06-03-2008	7.42	6.39	5.83	5.09	4.39	3.14	1.56	1.58	150	4,341	42	12
flex-N-US23-CS4032-06-03-2008	8.91	6.19	4.83	3.36	2.44	1.37	0.62	1.96	150	563	50	30
flex-N-US23-CS4032-06-03-2008	12.32	9.36	7.73	6.01	4.78	3.12	1.54	1.01	150	609	40	12
flex-Su-I75-CS49025-05-22-2008	6.45	4.78	3.94	2.91	2.09	0.99	0.21	1.72	150	836	26	68
flex-Su-I75-CS49025-05-22-2008	5.96	4.42	3.69	2.72	1.95	0.95	0.24	1.18	150	862	31	66
flex-Su-I75-CS49025-05-22-2008	5.94	4.52	3.74	2.82	2.03	1.07	0.38	1.32	150	726	43	47
flex-Su-I75-CS49025-05-22-2008	6.39	4.81	4.07	3.07	2.28	1.22	0.44	1.43	150	713	40	41
flex-B-M57-CS29022-08-30-1994	19.95	14.23	10.17	6.24	4.18	2.21	1.13	2.00	700	194	18	29

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-B-M57-CS29022-08-30-1994	16.78	11.52	8.33	5.29	3.75	2.15	1.18	1.53	700	208	25	30
flex-B-M57-CS29022-08-30-1994	13.63	9.51	7.10	4.72	3.42	2.07	1.15	1.00	700	282	31	31
flex-B-M57-CS29022-08-30-1994	19.29	13.78	9.96	6.49	4.62	2.69	1.36	1.97	700	215	20	25
flex-B-M57-CS29022-08-30-1994	20.53	15.36	11.74	8.14	6.04	3.57	1.76	1.97	700	282	17	19
flex-B-M57-CS29022-08-30-1994	14.95	10.61	7.81	5.13	3.73	2.22	1.25	1.79	700	254	28	29
flex-B-M57-CS29022-08-30-1994	12.44	8.86	6.71	4.56	3.37	2.05	1.16	1.06	700	336	34	31
flex-B-M57-CS29022-08-30-1994	17.00	12.00	8.80	5.92	4.38	2.77	1.53	1.44	700	214	26	23
flex-B-M57-CS29022-08-30-1994	19.76	14.50	11.03	7.62	5.63	3.37	1.74	1.37	700	258	19	20
flex-B-M57-CS29022-08-30-1994	18.16	13.22	9.71	6.47	4.85	3.04	1.67	1.99	700	212	24	21
flex-B-M57-CS29022-08-30-1994	21.87	15.14	10.80	6.77	4.58	2.57	1.30	1.62	700	167	17	26
flex-B-M57-CS29022-08-30-1994	16.91	12.08	9.06	6.11	4.43	2.52	1.24	1.84	700	296	21	27
flex-B-M57-CS29022-08-30-1994	18.57	12.95	9.54	6.28	4.49	2.64	1.43	1.01	700	206	22	24
flex-B-M57-CS29022-08-30-1994	17.71	12.58	9.33	6.17	4.46	2.62	1.37	1.31	700	242	22	25
flex-B-M57-CS29022-08-30-1994	16.08	11.41	8.43	5.69	4.17	2.50	1.34	1.19	700	258	25	26
flex-B-M57-CS29022-08-30-1994	19.79	14.37	10.89	7.65	5.71	3.55	1.92	1.04	700	237	21	18
flex-B-M57-CS29022-08-30-1994	17.66	12.90	9.88	7.11	5.46	3.55	1.93	1.38	700	274	25	18
flex-B-M57-CS29022-08-30-1994	19.92	14.70	11.30	7.72	5.69	3.28	1.70	1.08	700	270	18	20
flex-B-M57-CS29022-08-30-1994	17.87	12.99	9.73	6.47	4.67	2.75	1.48	1.28	700	245	21	24
flex-B-M57-CS29022-08-30-1994	16.50	11.40	8.33	5.67	4.16	2.46	1.29	1.64	700	247	25	26
flex-B-M57-CS29022-08-30-1994	17.65	12.08	8.88	5.89	4.21	2.49	1.29	1.14	700	221	23	26
flex-B-M57-CS29022-08-30-1994	18.88	12.62	9.05	5.80	4.06	2.35	1.30	1.24	700	169	23	27
flex-B-M57-CS29022-08-30-1994	16.80	11.54	8.20	5.18	3.64	2.06	1.10	1.57	700	206	24	31
flex-B-M57-CS29022-08-30-1994	13.71	9.69	7.26	4.90	3.58	2.17	1.27	1.82	700	278	32	29
flex-B-M57-CS29022-08-30-1994	19.14	13.91	10.60	7.27	5.41	3.31	1.73	1.35	700	252	20	20

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-B-M57-CS29022-08-30-1994	13.88	10.09	7.72	5.51	4.20	2.64	1.42	1.35	700	359	30	25
flex-B-M57-CS29022-08-30-1994	19.78	13.95	10.10	6.46	4.45	2.45	1.32	1.55	700	194	19	26
flex-B-M57-CS29022-08-30-1994	16.68	11.93	8.73	5.90	4.37	2.76	1.59	1.93	700	217	28	23
flex-B-M57-CS29022-08-30-1994	14.59	10.25	7.48	4.91	3.53	2.08	1.17	1.60	700	254	29	31
flex-B-M57-CS29022-08-30-1994	14.95	10.78	8.14	5.64	4.27	2.72	1.42	1.85	700	303	28	24
flex-B-M57-CS29022-08-30-1994	16.20	12.62	10.28	8.03	6.52	4.58	2.68	0.99	700	405	29	13
flex-B-M57-CS29022-08-30-1994	15.76	12.03	9.62	7.20	5.75	3.94	2.38	0.85	700	331	30	15
flex-B-M57-CS29022-08-30-1994	18.95	13.91	10.63	7.44	5.46	3.10	1.60	1.19	700	298	18	21
flex-B-M57-CS29022-08-30-1994	11.91	8.40	6.18	4.27	3.18	2.05	1.23	1.99	700	288	41	30
flex-B-M57-CS29022-08-30-1994	12.36	9.12	7.11	5.19	3.89	2.53	1.47	0.80	700	393	36	25
flex-B-M57-CS29022-08-30-1994	12.20	8.60	6.37	4.17	3.02	1.75	0.90	1.46	700	348	32	38
flex-B-M57-CS29022-08-30-1994	12.23	8.90	6.80	4.82	3.59	2.28	1.21	1.28	700	403	33	29
flex-B-M57-CS29022-08-30-1994	11.37	8.14	6.02	4.07	2.95	1.83	1.01	1.34	700	346	38	35
flex-B-M57-CS29022-08-30-1994	13.61	9.88	7.51	5.41	4.17	2.77	1.51	1.62	700	331	33	24
flex-B-M57-CS29022-08-30-1994	10.44	7.59	5.75	3.95	2.91	1.82	1.04	1.47	700	402	41	35
flex-B-M57-CS29022-08-30-1994	11.53	8.14	6.03	3.97	2.81	1.63	0.88	0.97	700	355	34	40
flex-B-M57-CS29022-08-30-1994	11.42	8.39	6.44	4.49	3.25	1.97	1.04	0.74	700	448	33	33
flex-B-M57-CS29022-08-30-1994	12.51	8.55	6.35	4.16	2.93	1.70	0.95	1.14	700	296	33	37
flex-B-M57-CS29022-08-30-1994-(2)	11.87	8.58	6.29	4.21	3.03	1.89	1.09	1.65	700	325	33	36
flex-B-M57-CS29022-08-30-1994-(2)	10.94	7.85	5.76	3.85	2.84	1.81	1.08	1.86	700	326	39	37
flex-B-M57-CS29022-08-30-1994-(2)	10.57	7.57	5.70	3.93	2.96	1.86	1.06	1.20	700	397	38	37
flex-B-M57-CS29022-08-30-1994-(2)	11.46	8.45	6.54	4.64	3.48	2.16	1.15	1.75	700	489	30	33
flex-B-M57-CS29022-08-30-1994-(2)	9.39	6.88	5.14	3.40	2.46	1.45	0.86	1.99	700	438	40	46
flex-B-M57-CS29022-08-30-1994-(2)	11.44	8.47	6.38	4.35	3.22	1.99	1.08	1.82	700	416	32	35

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-B-M57-CS29022-08-30-1994-(2)	10.38	7.42	5.60	3.92	2.92	1.97	1.20	1.41	700	348	44	34
flex-B-M57-CS29022-08-30-1994-(2)	12.57	9.77	7.73	5.61	4.28	2.84	1.56	1.69	700	492	28	25
flex-B-M57-CS29022-08-30-1994-(2)	12.50	9.39	7.12	5.06	3.89	2.58	1.62	1.96	700	333	35	25
flex-B-M57-CS29022-08-30-1994-(2)	12.34	8.31	5.96	4.00	2.98	1.98	1.20	1.72	700	224	40	33
flex-B-M57-CS29022-08-30-1994-(2)	21.48	15.35	11.30	7.54	5.46	3.21	1.74	1.54	700	200	17	22
flex-B-M57-CS29022-08-30-1994-(2)	19.81	14.52	11.02	7.81	5.82	3.67	2.00	1.72	700	252	19	19
flex-B-M57-CS29022-08-30-1994-(2)	19.90	13.38	9.54	5.95	4.15	2.46	1.32	1.89	700	163	20	28
flex-B-M57-CS29022-08-30-1994-(2)	19.31	13.74	10.13	6.43	4.53	2.64	1.46	1.67	700	202	19	26
flex-B-M57-CS29022-08-30-1994-(2)	15.43	11.08	8.11	5.46	4.08	2.65	1.59	1.99	700	223	28	25
flex-B-M57-CS29022-08-30-1994-(2)	17.30	12.13	9.00	5.84	4.15	2.42	1.39	1.16	700	220	22	28
flex-B-M57-CS29022-08-30-1994-(2)	19.87	12.61	8.63	5.27	3.64	2.21	1.25	1.72	700	122	23	30
flex-B-M57-CS29022-08-30-1994-(2)	22.28	14.58	10.31	6.24	4.31	2.49	1.33	1.90	700	135	18	28
flex-B-M57-CS29022-08-30-1994-(2)	17.86	12.29	8.86	5.71	4.11	2.44	1.31	1.93	700	202	22	28
flex-B-M57-CS29022-08-30-1994-(2)	15.45	10.68	7.67	5.24	3.82	2.37	1.29	1.99	700	236	26	29
flex-B-M57-CS29022-08-30-1994-(2)	21.82	13.96	9.80	6.11	4.27	2.65	1.51	1.43	700	118	21	25
flex-B-M57-CS29022-08-30-1994-(2)	17.48	11.19	8.02	5.33	3.93	2.65	1.57	1.25	700	141	29	25
flex-B-M57-CS29022-08-30-1994-(2)	19.21	13.37	9.55	6.45	4.76	2.92	1.62	1.96	700	187	21	23
flex-B-M57-CS29022-08-30-1994-(2)	15.44	10.27	7.30	4.81	3.43	2.09	1.16	1.31	700	207	27	33
flex-B-M57-CS29022-08-30-1994-(3)	12.50	9.03	6.62	4.44	3.19	1.99	1.15	1.66	700	325	33	36
flex-B-M57-CS29022-08-30-1994-(3)	11.49	8.25	6.05	4.04	2.98	1.90	1.13	1.85	700	326	39	37
flex-B-M57-CS29022-08-30-1994-(3)	11.02	7.89	5.94	4.10	3.08	1.94	1.11	1.19	700	396	38	37
flex-B-M57-CS29022-08-30-1994-(3)	12.00	8.85	6.85	4.86	3.64	2.26	1.21	1.74	700	489	30	33
flex-B-M57-CS29022-08-30-1994-(3)	9.81	7.18	5.37	3.55	2.57	1.51	0.90	2.00	700	437	40	46
flex-B-M57-CS29022-08-30-1994-(3)	11.99	8.88	6.69	4.56	3.37	2.09	1.13	1.85	700	417	32	35

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-B-M57-CS29022-08-30-1994-(3)	10.84	7.75	5.85	4.09	3.06	2.05	1.25	1.36	700	349	44	34
flex-B-M57-CS29022-08-30-1994-(3)	13.17	10.23	8.09	5.88	4.48	2.98	1.63	1.72	700	494	28	25
flex-B-M57-CS29022-08-30-1994-(3)	13.04	9.80	7.43	5.28	4.06	2.69	1.69	1.96	700	333	35	25
flex-B-M57-CS29022-08-30-1994-(3)	12.95	8.72	6.25	4.20	3.13	2.08	1.26	1.73	700	224	40	33
flex-B-M57-CS29022-08-30-1994-(3)	22.28	15.92	11.72	7.82	5.66	3.33	1.81	1.56	700	200	17	22
flex-B-M57-CS29022-08-30-1994-(3)	20.51	15.03	11.41	8.08	6.03	3.80	2.07	1.71	700	252	19	19
flex-B-M57-CS29022-08-30-1994-(3)	20.66	13.89	9.90	6.18	4.31	2.55	1.37	1.88	700	164	20	28
flex-B-M57-CS29022-08-30-1994-(3)	19.94	14.19	10.46	6.64	4.68	2.73	1.51	1.67	700	201	19	26
flex-B-M57-CS29022-08-30-1994-(3)	15.94	11.45	8.38	5.64	4.22	2.74	1.64	1.98	700	223	28	25
flex-B-M57-CS29022-08-30-1994-(3)	17.83	12.50	9.28	6.02	4.27	2.50	1.43	1.13	700	221	22	28
flex-B-M57-CS29022-08-30-1994-(3)	17.22	12.24	9.23	6.51	4.98	3.32	1.84	2.00	700	245	26	21
flex-B-M57-CS29022-08-30-1994-(3)	20.41	12.96	8.86	5.42	3.74	2.27	1.28	1.71	700	122	23	31
flex-B-M57-CS29022-08-30-1994-(3)	22.72	14.87	10.52	6.36	4.40	2.54	1.36	1.91	700	135	18	28
flex-B-M57-CS29022-08-30-1994-(3)	18.17	12.50	9.01	5.81	4.18	2.49	1.34	1.93	700	202	22	28
flex-B-M57-CS29022-08-30-1994-(3)	15.81	10.92	7.85	5.36	3.90	2.42	1.32	1.94	700	236	26	29
flex-B-M57-CS29022-08-30-1994-(3)	22.22	14.21	9.98	6.22	4.35	2.70	1.54	1.44	700	118	21	25
flex-B-M57-CS29022-08-30-1994-(3)	17.98	11.52	8.25	5.48	4.05	2.72	1.61	1.25	700	141	29	25
flex-B-M57-CS29022-08-30-1994-(3)	19.76	13.76	9.82	6.63	4.90	3.00	1.66	1.98	700	188	21	24
flex-B-M57-CS29022-08-30-1994-(3)	15.84	10.53	7.49	4.93	3.52	2.14	1.19	1.31	700	207	27	33
flex-B-M57-CS29022-08-30-1994-(4)	19.19	13.69	9.78	6.01	4.02	2.13	1.09	1.99	700	194	18	29
flex-B-M57-CS29022-08-30-1994-(4)	16.12	11.07	8.00	5.08	3.60	2.06	1.13	1.54	700	208	25	30
flex-B-M57-CS29022-08-30-1994-(4)	13.07	9.12	6.80	4.53	3.27	1.98	1.10	0.99	700	282	31	31
flex-B-M57-CS29022-08-30-1994-(4)	18.50	13.21	9.55	6.22	4.43	2.58	1.30	1.98	700	216	20	25
flex-B-M57-CS29022-08-30-1994-(4)	14.26	10.13	7.45	4.89	3.56	2.12	1.19	1.76	700	255	28	29

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-B-M57-CS29022-08-30-1994-(4)	11.95	8.51	6.44	4.38	3.24	1.97	1.11	1.05	700	336	34	31
flex-B-M57-CS29022-08-30-1994-(4)	16.31	11.52	8.45	5.69	4.21	2.66	1.47	1.45	700	215	26	23
flex-B-M57-CS29022-08-30-1994-(4)	19.18	14.07	10.71	7.40	5.47	3.27	1.69	1.35	700	258	19	20
flex-B-M57-CS29022-08-30-1994-(4)	17.53	12.76	9.37	6.25	4.68	2.93	1.61	2.00	700	212	24	21
flex-B-M57-CS29022-08-30-1994-(4)	21.17	14.66	10.45	6.55	4.43	2.48	1.26	1.60	700	167	17	26
flex-B-M57-CS29022-08-30-1994-(4)	16.29	11.63	8.73	5.89	4.27	2.43	1.20	1.87	700	297	21	27
flex-B-M57-CS29022-08-30-1994-(4)	17.98	12.55	9.24	6.08	4.35	2.55	1.39	1.02	700	206	22	24
flex-B-M57-CS29022-08-30-1994-(4)	17.02	12.08	8.97	5.92	4.28	2.52	1.31	1.30	700	242	22	25
flex-B-M57-CS29022-08-30-1994-(4)	15.51	11.01	8.14	5.49	4.03	2.42	1.30	1.19	700	258	25	26
flex-B-M57-CS29022-08-30-1994-(4)	19.13	13.89	10.53	7.40	5.52	3.43	1.85	1.03	700	237	21	18
flex-B-M57-CS29022-08-30-1994-(4)	16.99	12.41	9.51	6.84	5.26	3.41	1.86	1.37	700	274	25	18
flex-B-M57-CS29022-08-30-1994-(4)	19.34	14.28	10.97	7.50	5.52	3.19	1.65	1.10	700	271	18	20
flex-B-M57-CS29022-08-30-1994-(4)	17.29	12.57	9.41	6.26	4.52	2.66	1.43	1.29	700	245	22	23
flex-B-M57-CS29022-08-30-1994-(4)	16.00	11.05	8.07	5.50	4.04	2.38	1.25	1.60	700	247	25	26
flex-B-M57-CS29022-08-30-1994-(4)	17.11	11.71	8.61	5.71	4.08	2.41	1.25	1.13	700	221	23	26
flex-B-M57-CS29022-08-30-1994-(4)	18.33	12.25	8.79	5.63	3.94	2.28	1.26	1.23	700	169	23	27
flex-B-M57-CS29022-08-30-1994-(4)	16.21	11.13	7.91	5.00	3.51	1.99	1.06	1.56	700	206	24	31
flex-B-M57-CS29022-08-30-1994-(4)	13.14	9.28	6.95	4.69	3.43	2.08	1.22	1.87	700	279	32	29
flex-B-M57-CS29022-08-30-1994-(4)	18.42	13.38	10.20	7.00	5.21	3.18	1.67	1.32	700	252	20	20
flex-B-M57-CS29022-08-30-1994-(4)	13.35	9.71	7.42	5.30	4.04	2.54	1.37	1.35	700	359	30	25
flex-B-M57-CS29022-08-30-1994-(4)	19.19	13.53	9.80	6.27	4.31	2.37	1.28	1.54	700	195	19	26
flex-B-M57-CS29022-08-30-1994-(4)	15.90	11.37	8.33	5.62	4.16	2.64	1.52	1.93	700	217	28	23
flex-B-M57-CS29022-08-30-1994-(4)	14.04	9.86	7.20	4.72	3.39	2.00	1.12	1.61	700	254	29	31
flex-B-M57-CS29022-08-30-1994-(4)	14.45	10.42	7.87	5.45	4.13	2.63	1.37	1.89	700	304	28	24

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-B-M57-CS29022-08-30-1994-(4)	15.74	12.26	9.98	7.80	6.33	4.45	2.61	0.99	700	405	29	13
flex-B-M57-CS29022-08-30-1994-(4)	15.30	11.67	9.34	6.99	5.58	3.82	2.31	0.85	700	331	30	15
flex-B-M57-CS29022-08-30-1994-(4)	18.38	13.49	10.31	7.21	5.29	3.01	1.55	1.19	700	298	18	21
flex-B-M57-CS29022-08-30-1994-(4)	11.90	8.78	6.85	5.00	3.75	2.44	1.42	0.80	700	393	36	25
flex-B-M57-CS29022-08-30-1994-(4)	11.76	8.29	6.14	4.02	2.91	1.69	0.87	1.41	700	347	32	38
flex-B-M57-CS29022-08-30-1994-(4)	11.72	8.54	6.52	4.62	3.44	2.19	1.16	1.29	700	402	33	29
flex-B-M57-CS29022-08-30-1994-(4)	10.89	7.80	5.77	3.90	2.83	1.75	0.97	1.33	700	346	38	35
flex-B-M57-CS29022-08-30-1994-(4)	13.09	9.50	7.22	5.20	4.01	2.67	1.45	1.66	700	332	33	24
flex-B-M57-CS29022-08-30-1994-(4)	10.06	7.32	5.54	3.80	2.80	1.75	1.01	1.51	700	401	41	35
flex-B-M57-CS29022-08-30-1994-(4)	11.07	7.82	5.79	3.81	2.70	1.57	0.85	0.99	700	353	34	40
flex-B-M57-CS29022-08-30-1994-(4)	11.03	8.11	6.23	4.34	3.14	1.90	1.01	0.71	700	449	33	33
flex-B-M57-CS29022-08-30-1994-(4)	12.08	8.26	6.13	4.01	2.83	1.64	0.92	1.22	700	295	33	37
flex-B-M57-CS29022-01-28-1993	11.02	7.89	5.94	4.10	3.08	1.94	1.11	1.10	700	368	40	33
flex-B-M57-CS29022-01-28-1993	12.00	8.85	6.85	4.86	3.64	2.26	1.21	0.96	700	447	33	29
flex-B-M57-CS29022-01-28-1993	11.99	8.58	6.30	4.06	2.90	1.68	0.87	1.65	700	349	32	40
flex-B-M57-CS29022-01-28-1993	11.99	8.88	6.69	4.56	3.37	2.09	1.13	1.47	700	386	34	32
flex-B-M57-CS29022-01-28-1993	13.17	10.23	8.09	5.88	4.48	2.98	1.63	1.29	700	459	30	22
flex-B-M57-CS29022-01-28-1993	22.28	15.92	11.72	7.82	5.66	3.33	1.81	1.28	700	184	18	19
flex-B-M57-CS29022-01-28-1993	20.51	15.03	11.41	8.08	6.03	3.80	2.07	1.02	700	233	20	17
flex-B-M57-CS29022-01-28-1993	18.02	12.68	9.42	6.31	4.60	2.70	1.43	1.14	700	236	22	24
flex-B-M57-CS29022-01-28-1993	20.66	13.89	9.90	6.18	4.31	2.55	1.37	1.62	700	151	21	25
flex-B-M57-CS29022-01-28-1993	16.85	11.58	8.62	5.96	4.42	2.77	1.44	1.93	700	238	25	24
flex-B-M57-CS29022-01-28-1993	20.97	15.21	11.38	7.83	5.72	3.46	1.78	1.56	700	225	18	19
flex-B-M57-CS29022-01-28-1993	17.22	12.24	9.23	6.51	4.98	3.32	1.84	1.25	700	227	27	19

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-B-M57-CS29022-01-28-1993	22.72	14.87	10.52	6.36	4.40	2.54	1.36	1.73	700	125	19	25
flex-B-M57-CS29022-01-28-1993	18.17	12.50	9.01	5.81	4.18	2.49	1.34	1.45	700	190	23	26
flex-B-M57-CS29022-01-28-1993	21.62	14.95	10.87	7.24	5.29	3.24	1.67	1.84	700	170	19	20
flex-B-M57-CS29022-01-28-1993	22.87	15.70	11.66	7.82	5.76	3.51	1.85	1.39	700	169	18	18
flex-B-M57-CS29022-01-28-1993	21.47	14.59	10.38	7.01	5.12	3.13	1.67	1.61	700	157	20	20
flex-B-M57-CS29022-01-28-1993	17.24	11.44	8.13	5.39	3.88	2.38	1.28	1.19	700	179	26	27
flex-B-M57-CS29022-01-28-1993	15.81	10.92	7.85	5.36	3.90	2.42	1.32	1.29	700	221	28	26
flex-B-M57-CS29022-01-28-1993	19.76	13.76	9.82	6.63	4.90	3.00	1.66	1.61	700	176	22	21
flex-B-M57-CS29022-01-28-1993	15.84	10.53	7.49	4.93	3.52	2.14	1.19	1.12	700	191	29	29
flex-B-M57-CS29022-01-28-1993	18.87	12.77	9.07	5.86	4.13	2.39	1.23	1.56	700	184	22	27
flex-B-M57-CS29022-01-28-1993	14.90	11.13	8.48	5.84	4.16	2.37	1.11	1.95	700	414	22	30
flex-B-M57-CS29022-01-28-1993	16.78	11.52	8.33	5.29	3.75	2.15	1.18	1.56	700	207	25	30
flex-B-M57-CS29022-01-28-1993	13.63	9.51	7.10	4.72	3.42	2.07	1.15	0.99	700	282	31	31
flex-B-M57-CS29022-01-28-1993	19.29	13.78	9.96	6.49	4.62	2.69	1.36	1.94	700	214	20	25
flex-B-M57-CS29022-01-28-1993	20.53	15.36	11.74	8.14	6.04	3.57	1.76	1.95	700	281	17	19
flex-B-M57-CS29022-01-28-1993	14.95	10.61	7.81	5.13	3.73	2.22	1.25	1.79	700	254	28	29
flex-B-M57-CS29022-01-28-1993	12.44	8.86	6.71	4.56	3.37	2.05	1.16	1.04	700	337	34	31
flex-B-M57-CS29022-01-28-1993	17.00	12.00	8.80	5.92	4.38	2.77	1.53	1.44	700	215	26	23
flex-B-M57-CS29022-01-28-1993	19.76	14.50	11.03	7.62	5.63	3.37	1.74	1.36	700	258	19	20
flex-B-M57-CS29022-01-28-1993	18.16	13.22	9.71	6.47	4.85	3.04	1.67	1.99	700	213	24	21
flex-B-M57-CS29022-01-28-1993	21.87	15.14	10.80	6.77	4.58	2.57	1.30	1.60	700	166	18	26
flex-B-M57-CS29022-01-28-1993	16.91	12.08	9.06	6.11	4.43	2.52	1.24	1.79	700	295	21	27
flex-B-M57-CS29022-01-28-1993	18.57	12.95	9.54	6.28	4.49	2.64	1.43	1.02	700	206	22	24
flex-B-M57-CS29022-01-28-1993	17.71	12.58	9.33	6.17	4.46	2.62	1.37	1.30	700	241	22	25

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-B-M57-CS29022-01-28-1993	16.08	11.41	8.43	5.69	4.17	2.50	1.34	1.19	700	258	25	26
flex-B-M57-CS29022-01-28-1993	19.79	14.37	10.89	7.65	5.71	3.55	1.92	1.06	700	238	21	18
flex-B-M57-CS29022-01-28-1993	17.66	12.90	9.88	7.11	5.46	3.55	1.93	1.43	700	276	24	18
flex-B-M57-CS29022-01-28-1993	19.92	14.70	11.30	7.72	5.69	3.28	1.70	1.07	700	270	18	20
flex-B-M57-CS29022-01-28-1993	17.87	12.99	9.73	6.47	4.67	2.75	1.48	1.29	700	245	22	24
flex-B-M57-CS29022-01-28-1993	16.50	11.40	8.33	5.67	4.16	2.46	1.29	1.63	700	247	25	27
flex-B-M57-CS29022-01-28-1993	17.65	12.08	8.88	5.89	4.21	2.49	1.29	1.11	700	220	23	26
flex-B-M57-CS29022-01-28-1993	18.88	12.62	9.05	5.80	4.06	2.35	1.30	1.27	700	169	23	27
flex-B-M57-CS29022-01-28-1993	16.80	11.54	8.20	5.18	3.64	2.06	1.10	1.59	700	205	24	31
flex-B-M57-CS29022-01-28-1993	13.71	9.69	7.26	4.90	3.58	2.17	1.27	1.79	700	278	32	29
flex-B-M57-CS29022-01-28-1993	19.14	13.91	10.60	7.27	5.41	3.31	1.73	1.36	700	253	20	20
flex-B-M57-CS29022-01-28-1993	13.88	10.09	7.72	5.51	4.20	2.64	1.42	1.38	700	362	30	25
flex-B-M57-CS29022-01-28-1993	19.78	13.95	10.10	6.46	4.45	2.45	1.32	1.61	700	193	19	26
flex-B-M57-CS29022-01-28-1993	16.68	11.93	8.73	5.90	4.37	2.76	1.59	1.89	700	217	28	23
flex-B-M57-CS29022-01-28-1993	14.59	10.25	7.48	4.91	3.53	2.08	1.17	1.60	700	254	29	31
flex-B-M57-CS29022-01-28-1993	14.95	10.78	8.14	5.64	4.27	2.72	1.42	1.88	700	305	28	24
flex-B-M57-CS29022-01-28-1993	16.20	12.62	10.28	8.03	6.52	4.58	2.68	1.07	700	413	28	13
flex-B-M57-CS29022-01-28-1993	15.76	12.03	9.62	7.20	5.75	3.94	2.38	0.79	700	336	30	15
flex-B-M57-CS29022-01-28-1993	18.95	13.91	10.63	7.44	5.46	3.10	1.60	1.18	700	297	18	21
flex-B-M57-CS29022-01-28-1993	11.91	8.40	6.18	4.27	3.18	2.05	1.23	1.91	700	290	41	30
flex-B-M57-CS29022-01-28-1993	12.36	9.12	7.11	5.19	3.89	2.53	1.47	0.74	700	396	35	25
flex-B-M57-CS29022-01-28-1993	12.20	8.60	6.37	4.17	3.02	1.75	0.90	1.44	700	347	32	38
flex-B-M57-CS29022-01-28-1993	12.23	8.90	6.80	4.82	3.59	2.28	1.21	1.31	700	404	33	29
flex-B-M57-CS29022-01-28-1993	11.37	8.14	6.02	4.07	2.95	1.83	1.01	1.32	700	346	38	35

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-B-M57-CS29022-01-28-1993	13.61	9.88	7.51	5.41	4.17	2.77	1.51	1.68	700	335	33	24
flex-B-M57-CS29022-01-28-1993	10.44	7.59	5.75	3.95	2.91	1.82	1.04	1.43	700	403	41	35
flex-B-M57-CS29022-01-28-1993	11.53	8.14	6.03	3.97	2.81	1.63	0.88	0.98	700	354	34	40
flex-B-M57-CS29022-01-28-1993	11.42	8.39	6.44	4.49	3.25	1.97	1.04	0.74	700	448	33	33
flex-B-M57-CS29022-01-28-1993	12.51	8.55	6.35	4.16	2.93	1.70	0.95	1.16	700	295	33	37
flex-B-M84-CS9011-05-17-2005	12.72	10.05	8.43	6.23	4.70	2.79	1.37	0.67	300	1,415	24	20
flex-B-M84-CS9011-05-17-2005	12.02	9.52	8.03	5.98	4.60	2.76	1.27	1.36	300	1,734	24	21
flex-B-M84-CS9011-05-17-2005	11.74	9.06	7.67	5.75	4.44	2.71	1.31	1.61	300	1,638	28	21
flex-B-M84-CS9011-05-17-2005	13.15	9.95	8.11	5.64	4.09	2.31	1.02	1.54	300	1,191	23	25
flex-B-M84-CS9011-05-17-2005	11.89	8.91	7.24	4.99	3.55	2.02	0.98	0.71	300	1,080	28	27
flex-B-M84-CS9011-05-17-2005	16.31	12.57	10.34	7.36	5.54	3.42	1.72	0.65	300	839	22	16
flex-B-M84-CS9011-05-17-2005	15.93	13.00	11.11	8.34	6.35	3.82	1.78	0.50	300	1,406	17	15
flex-B-M84-CS9011-05-17-2005	13.19	9.83	7.87	5.40	3.91	2.31	1.14	0.56	300	872	27	23
flex-B-M84-CS9011-05-17-2005	13.66	10.35	8.51	6.06	4.45	2.57	1.27	0.91	300	1,038	24	21
flex-B-M84-CS9011-05-17-2005	14.74	11.60	9.73	7.14	5.43	3.39	1.77	0.63	300	1,039	25	15
flex-B-M84-CS9011-05-17-2005	14.00	10.64	8.65	6.15	4.57	2.72	1.38	0.65	300	931	26	20
flex-B-M84-CS9011-05-17-2005	12.78	9.74	8.00	5.66	4.12	2.40	1.18	0.68	300	1,095	26	23
flex-B-M84-CS9011-05-17-2005	15.53	11.96	9.80	7.12	5.38	3.32	1.68	0.62	300	919	23	16
flex-B-M84-CS9011-05-17-2005	15.44	11.68	9.52	6.78	5.05	3.11	1.54	0.87	300	855	24	18
flex-B-M84-CS9011-05-17-2005	15.55	11.94	9.77	6.88	5.07	3.00	1.47	0.56	300	891	22	18
flex-B-M84-CS9011-05-17-2005	14.66	10.89	8.85	6.22	4.61	2.73	1.37	0.94	300	850	25	20
flex-B-M84-CS9011-05-17-2005	14.04	10.33	8.23	5.71	4.14	2.43	1.22	0.70	300	797	26	22
flex-B-M84-CS9011-05-17-2005	11.19	8.04	6.45	4.45	3.20	1.77	0.83	1.73	300	1,117	30	31
flex-B-M84-CS9011-05-17-2005	14.04	10.84	9.03	6.64	5.09	3.14	1.47	1.82	300	1,264	23	18

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-B-M84-CS9011-05-17-2005	12.21	9.37	7.90	6.03	4.84	3.24	1.73	1.54	300	1,245	35	16
flex-B-M84-CS9011-05-17-2005	14.11	10.42	8.32	5.86	4.29	2.53	1.29	0.80	300	811	26	21
flex-B-M84-CS9011-05-17-2005	17.24	13.46	11.17	8.27	6.33	3.97	1.97	0.94	300	940	20	14
flex-B-M84-CS9011-05-17-2005	17.28	13.65	11.27	8.26	6.27	3.83	1.88	0.68	300	971	19	14
flex-B-M84-CS9011-05-17-2005	18.87	15.12	12.78	9.73	7.60	4.75	2.25	1.40	300	1,142	16	12
flex-B-M84-CS9011-05-17-2005	18.37	14.69	12.57	9.72	7.71	4.89	2.29	1.92	300	1,342	16	12
flex-B-M84-CS9011-05-17-2005	16.93	13.14	10.78	7.67	5.60	3.07	1.38	0.82	300	1,012	17	19
flex-B-M84-CS9011-05-17-2005	17.27	13.19	10.93	8.04	6.14	3.78	1.78	1.89	300	969	19	15
flex-B-M84-CS9011-05-17-2005	12.41	8.99	7.32	5.23	3.94	2.44	1.26	1.33	300	901	33	22
flex-B-M84-CS9011-05-17-2005	14.16	10.41	8.37	5.98	4.49	2.86	1.62	1.66	300	637	32	18
flex-B-M84-CS9011-05-17-2005	12.17	8.75	7.04	4.99	3.73	2.27	1.22	1.42	300	814	35	23
flex-B-M84-CS9011-05-17-2005-(2)	10.97	8.87	7.49	5.59	4.22	2.59	1.38	0.88	400	1,683	30	23
flex-B-M84-CS9011-05-17-2005-(2)	11.15	8.94	7.71	5.80	4.40	2.60	1.25	0.88	400	2,125	25	24
flex-B-M84-CS9011-05-17-2005-(2)	10.44	8.39	7.19	5.47	4.20	2.53	1.19	1.13	400	2,398	26	25
flex-B-M84-CS9011-05-17-2005-(2)	11.74	9.29	7.96	6.03	4.60	2.76	1.25	1.70	400	2,147	22	24
flex-B-M84-CS9011-05-17-2005-(2)	14.13	11.15	9.22	6.60	4.81	2.73	1.26	0.73	400	1,329	20	23
flex-B-M84-CS9011-05-17-2005-(2)	13.62	10.92	9.14	6.68	4.85	2.65	1.11	0.77	400	1,681	17	26
flex-B-M84-CS9011-05-17-2005-(2)	12.18	9.58	7.88	5.59	4.03	2.27	1.09	0.34	400	1,394	24	27
flex-B-M84-CS9011-05-17-2005-(2)	13.24	10.48	8.66	6.19	4.53	2.65	1.35	0.65	400	1,202	24	22
flex-B-M84-CS9011-05-17-2005-(2)	19.63	16.12	13.79	10.32	7.76	4.57	2.06	0.62	400	1,276	12	14
flex-B-M84-CS9011-05-17-2005-(2)	12.18	9.85	8.55	6.53	4.99	2.99	1.34	1.22	400	2,277	20	22
flex-B-M84-CS9011-05-17-2005-(2)	14.07	10.91	9.01	6.35	4.65	2.77	1.49	1.17	400	975	25	21
flex-B-M84-CS9011-05-17-2005-(2)	14.66	11.77	10.07	7.41	5.51	3.26	1.57	0.67	400	1,424	19	19
flex-B-M84-CS9011-05-17-2005-(2)	14.28	11.51	9.97	7.59	5.83	3.59	1.78	0.84	400	1,641	20	17

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-B-M84-CS9011-05-17-2005-(2)	13.20	10.22	8.59	6.18	4.50	2.60	1.30	0.92	400	1,277	23	23
flex-B-M84-CS9011-05-17-2005-(2)	15.10	11.86	10.01	7.36	5.56	3.46	1.74	0.89	400	1,195	22	17
flex-B-M84-CS9011-05-17-2005-(2)	14.00	10.58	8.61	5.84	4.08	2.27	1.09	0.79	400	988	22	27
flex-B-M84-CS9011-05-17-2005-(2)	17.22	13.22	11.00	8.11	6.17	3.82	1.86	1.77	400	1,025	19	16
flex-B-M84-CS9011-05-17-2005-(2)	15.85	12.01	9.76	6.94	5.19	3.18	1.65	0.68	400	822	23	18
flex-B-M84-CS9011-05-17-2005-(2)	15.04	11.09	8.83	5.99	4.33	2.56	1.38	1.02	400	676	25	22
flex-B-M84-CS9011-05-17-2005-(2)	14.88	11.60	9.64	6.82	4.95	2.91	1.50	0.91	400	1,008	22	20
flex-B-M84-CS9011-05-17-2005-(2)	12.68	9.67	7.87	5.44	3.91	2.28	1.14	0.59	400	1,080	26	26
flex-B-M84-CS9011-05-17-2005-(2)	12.51	9.38	7.72	5.51	4.01	2.31	1.14	1.14	400	1,224	26	26
flex-B-M84-CS9011-05-17-2005-(2)	14.24	10.55	8.54	5.94	4.40	2.75	1.50	0.81	400	744	28	20
flex-B-M84-CS9011-05-17-2005-(2)	11.14	8.11	6.68	4.64	3.34	1.89	0.94	1.50	400	1,227	30	31
flex-B-M84-CS9011-05-17-2005-(2)	13.37	10.35	8.75	6.55	5.01	3.15	1.57	1.55	400	1,411	25	19
flex-B-M84-CS9011-05-17-2005-(2)	12.74	9.71	8.11	5.93	4.38	2.57	1.18	1.91	400	1,670	25	27
flex-B-M84-CS9011-05-17-2005-(2)	14.24	10.78	8.93	6.39	4.65	2.60	1.17	1.72	400	1,284	19	24
flex-B-M84-CS9011-05-17-2005-(2)	13.28	10.26	8.57	6.26	4.64	2.76	1.30	1.44	400	1,412	22	22
flex-B-M84-CS9011-05-17-2005-(2)	14.82	11.14	9.37	6.93	5.25	3.35	1.82	1.23	400	945	26	17
flex-B-M84-CS9011-05-17-2005-(2)	17.03	12.86	10.43	7.24	5.20	3.03	1.56	0.63	400	750	20	19
flex-B-M84-CS9011-05-17-2005-(2)	16.63	12.77	10.78	8.03	6.13	3.82	1.85	1.95	400	1,153	19	16
flex-B-M84-CS9011-05-17-2005-(2)	14.87	11.27	9.53	7.20	5.54	3.50	1.81	1.76	400	1,180	24	17
flex-B-M84-CS9011-05-17-2005-(2)	16.04	11.93	9.70	6.82	4.91	2.82	1.47	1.11	400	800	21	20
flex-B-M84-CS9011-05-17-2005-(2)	14.76	10.88	8.83	6.23	4.52	2.61	1.26	1.60	400	957	22	23
flex-B-M84-CS9011-05-17-2005-(2)	14.12	10.19	8.11	5.54	3.95	2.28	1.19	0.99	400	756	26	25
flex-B-M84-CS9011-05-17-2005-(2)	17.55	12.95	10.30	7.27	5.51	3.54	1.92	0.54	400	566	24	16
flex-B-M84-CS9011-05-17-2005-(2)	13.63	10.89	9.36	7.14	5.55	3.50	1.78	0.99	400	1,608	23	17

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-B-M84-CS9011-05-17-2005-(2)	17.23	13.54	11.59	8.89	7.00	4.41	2.17	1.89	400	1,312	18	14
flex-B-M84-CS9011-05-17-2005-(2)	15.95	12.67	10.87	8.43	6.66	4.41	2.24	1.76	400	1,411	21	13
flex-B-M84-CS9011-05-17-2005-(2)	15.67	12.39	10.64	8.22	6.53	4.29	2.18	1.83	400	1,419	21	14
flex-B-M84-CS9011-05-17-2005-(2)	13.90	10.75	9.03	6.70	5.09	3.08	1.66	1.25	400	1,162	25	18
flex-B-M84-CS9011-05-17-2005-(2)	16.29	12.59	10.56	7.90	6.01	3.65	1.78	1.55	400	1,178	19	16
flex-B-M84-CS9011-05-17-2005-(2)	15.14	11.90	10.03	7.43	5.64	3.43	1.73	0.83	400	1,224	21	17
flex-B-M84-CS9011-05-17-2005-(2)	18.78	14.00	11.30	7.95	5.86	3.53	1.77	1.11	400	688	19	17
flex-B-M84-CS9011-05-17-2005-(2)	14.58	10.30	8.10	5.58	4.10	2.56	1.42	0.94	400	567	30	21
flex-B-M84-CS9011-05-17-2005-(2)	14.61	10.98	8.94	6.38	4.70	2.77	1.39	1.02	400	966	23	21
flex-B-M84-CS9011-05-17-2005-(2)	16.15	11.89	9.66	6.86	5.08	3.15	1.73	1.00	400	680	25	18
flex-B-M84-CS9011-05-17-2005-(2)	12.37	9.07	7.37	5.32	4.09	2.68	1.45	1.16	400	874	35	21
flex-B-M84-CS9011-05-17-2005-(2)	13.54	10.16	8.27	5.94	4.50	2.86	1.65	1.35	400	788	32	19
flex-B-M84-CS9011-05-17-2005-(2)	15.16	11.57	9.69	7.33	5.72	3.71	1.97	1.55	400	1,017	26	15
flex-B-M84-CS9011-05-17-2005-(2)	15.88	12.43	10.44	7.86	6.07	3.86	2.08	0.79	400	1,045	23	15
flex-B-M84-CS9011-05-17-2005-(2)	15.56	12.78	11.17	8.97	7.33	4.92	2.45	1.94	400	2,010	19	12
flex-B-M84-CS9011-10-03-2005	13.05	8.69	6.31	4.31	3.20	1.99	1.04	1.93	200	368	42	22
flex-B-M84-CS9011-10-03-2005	12.83	8.60	6.27	4.15	2.98	1.72	0.77	1.45	200	533	35	28
flex-B-M84-CS9011-10-03-2005	14.70	9.89	7.11	4.65	3.39	1.99	0.89	1.49	200	429	31	24
flex-B-M84-CS9011-10-03-2005	15.81	10.66	7.62	5.20	3.94	2.42	1.19	1.26	200	324	33	19
flex-B-M84-CS9011-10-03-2005	15.53	10.15	7.19	4.77	3.50	2.03	0.95	1.53	200	346	31	23
flex-B-M84-CS9011-10-03-2005	13.73	9.39	6.73	4.53	3.40	2.13	1.08	1.61	200	361	38	21
flex-B-M84-CS9011-10-03-2005	14.73	10.61	7.81	5.54	4.21	2.70	1.31	1.17	200	473	34	17
flex-B-M84-CS9011-10-03-2005	12.67	8.72	6.30	4.42	3.41	2.13	1.02	1.73	200	468	41	22
flex-B-M84-CS9011-10-10-2005	11.49	8.67	6.92	4.96	3.72	2.27	1.17	0.60	275	1,089	36	24

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-B-M84-CS9011-10-10-2005	11.57	8.74	6.96	4.85	3.54	2.04	0.99	0.55	275	1,158	31	27
flex-B-M84-CS9011-10-10-2005	10.78	8.03	6.39	4.55	3.36	2.04	1.06	0.79	275	1,080	39	26
flex-B-M84-CS9011-10-10-2005	11.15	8.44	6.78	4.89	3.74	2.37	1.20	0.74	275	1,139	38	23
flex-B-M84-CS9011-10-10-2005	11.17	8.43	6.83	4.94	3.80	2.42	1.27	0.60	275	1,108	39	22
flex-B-M84-CS9011-10-10-2005	9.24	6.79	5.45	3.94	2.95	1.81	0.88	1.54	275	1,411	44	30
flex-B-M84-CS9011-10-10-2005	11.92	9.26	7.59	5.57	4.19	2.45	1.10	1.54	275	1,640	26	24
flex-B-M84-CS9011-10-10-2005	10.85	8.12	6.54	4.69	3.52	2.12	1.04	1.15	275	1,275	35	26
flex-B-M84-CS9011-10-10-2005	11.33	8.41	6.70	4.69	3.48	2.10	1.15	1.70	275	903	39	24
flex-B-M84-CS9011-10-10-2005	11.31	8.47	6.66	4.61	3.31	1.88	0.91	0.50	275	1,110	32	29
flex-B-M84-CS9011-10-10-2005	11.60	8.74	7.00	4.93	3.61	2.11	1.00	0.77	275	1,200	31	26
flex-B-M84-CS9011-10-10-2005	11.94	9.13	7.39	5.29	4.06	2.57	1.36	0.56	275	1,020	36	20
flex-B-M84-CS9011-10-10-2005	10.70	7.85	6.27	4.41	3.27	2.02	1.04	0.63	275	1,015	40	26
flex-B-M84-CS9011-10-10-2005	9.97	7.45	5.88	4.09	2.98	1.72	0.79	1.46	275	1,385	35	33
flex-B-M84-CS9011-10-10-2005	12.15	9.09	7.25	5.11	3.75	2.17	0.99	1.61	275	1,215	28	26
flex-B-M84-CS9011-10-10-2005	11.89	8.81	7.00	4.84	3.46	1.96	0.92	0.81	275	1,117	29	28
flex-B-M84-CS9011-09-11-2005	8.10	6.53	5.76	4.58	3.71	2.43	1.21	1.24	160	2,959	52	16
flex-B-M84-CS9011-09-11-2005	7.79	6.24	5.44	4.26	3.40	2.10	0.94	1.42	160	3,320	45	21
flex-B-M84-CS9011-09-11-2005	7.61	6.06	5.30	4.19	3.39	2.17	1.04	1.51	160	3,135	52	19
flex-B-M84-CS9011-09-11-2005	7.75	6.23	5.44	4.31	3.50	2.26	1.10	1.35	160	3,086	52	18
flex-B-M84-CS9011-09-11-2005	7.69	6.12	5.32	4.18	3.36	2.19	1.12	1.30	160	2,532	59	18
flex-B-M84-CS9011-09-11-2005	6.50	5.09	4.42	3.45	2.77	1.77	0.85	1.64	160	3,207	64	23
flex-B-M84-CS9011-09-11-2005	7.64	6.13	5.40	4.32	3.50	2.27	1.05	1.67	160	3,597	49	19
flex-B-M84-CS9011-09-11-2005	7.47	5.94	5.17	4.04	3.23	2.04	0.95	1.40	160	3,126	51	21
flex-B-M84-CS9011-09-11-2005	7.98	6.45	5.68	4.48	3.63	2.34	1.11	1.29	160	3,218	48	18

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-B-M84-CS9011-09-11-2005	8.06	6.61	5.87	4.77	3.92	2.59	1.27	1.37	160	3,657	49	16
flex-B-M84-CS9011-09-11-2005	8.10	6.53	5.70	4.49	3.53	2.15	0.97	1.38	160	3,207	42	20
flex-B-M84-CS9011-09-11-2005	7.68	6.18	5.40	4.24	3.38	2.08	0.93	1.41	160	3,457	44	21
flex-B-M84-CS9011-09-11-2005	8.53	6.78	5.87	4.55	3.57	2.12	0.93	1.51	160	2,837	39	21
flex-B-M84-CS9011-09-11-2005	8.62	6.80	5.78	4.42	3.39	1.96	0.78	1.53	160	2,841	35	24
flex-B-M84-CS9011-09-11-2005	7.67	6.15	5.37	4.22	3.34	2.07	0.89	1.55	160	3,670	42	22
flex-B-M84-CS9011-09-11-2005	8.51	6.76	5.88	4.58	3.65	2.34	1.17	1.34	160	2,353	51	17
flex-B-M84-CS9011-09-11-2005	8.00	6.33	5.47	4.24	3.31	2.04	0.98	1.47	160	2,546	50	20
flex-B-M84-CS9011-09-11-2005	8.45	6.59	5.61	4.23	3.26	2.00	0.92	1.05	160	2,158	46	21
flex-B-M84-CS9011-09-11-2005	8.97	7.15	6.20	4.87	3.89	2.55	1.31	1.24	160	2,093	52	15
flex-B-M84-CS9011-09-11-2005	8.29	6.46	5.56	4.28	3.37	2.12	1.06	1.63	160	2,086	54	19
flex-B-M84-CS9011-09-11-2005	7.62	5.92	5.06	3.81	2.95	1.76	0.81	1.57	160	2,438	50	24
flex-B-M84-CS9011-09-11-2005	8.69	6.89	5.93	4.62	3.63	2.27	1.00	1.46	160	2,696	41	19
flex-B-M84-CS9011-09-11-2005	8.18	6.44	5.48	4.23	3.31	2.04	0.93	1.29	160	2,536	46	21
flex-B-M84-CS9011-09-11-2005	8.08	6.55	5.70	4.46	3.56	2.21	1.03	1.13	160	3,074	45	19
flex-B-M84-CS9011-09-11-2005	9.45	7.82	6.91	5.53	4.55	3.00	1.44	1.10	160	3,103	40	14
flex-B-M84-CS9011-09-11-2005	7.87	6.45	5.65	4.45	3.51	2.15	0.94	1.04	160	3,660	40	21
flex-B-M84-CS9011-09-11-2005	8.34	6.76	5.87	4.63	3.69	2.27	1.04	1.33	160	3,097	42	19
flex-B-M84-CS9011-09-11-2005	8.11	6.54	5.71	4.50	3.58	2.23	1.04	1.27	160	3,110	45	19
flex-B-M84-CS9011-09-11-2005	8.04	6.45	5.57	4.37	3.45	2.08	0.96	1.54	160	2,977	44	21
flex-B-M84-CS9011-09-11-2005	7.68	6.16	5.32	4.19	3.35	2.03	0.97	1.85	160	3,005	49	20
flex-B-M84-CS9011-09-13-2005-(2)	12.08	8.63	6.58	4.40	3.22	1.96	1.00	0.81	250	662	37	26
flex-B-M84-CS9011-09-13-2005-(2)	12.69	9.28	7.26	4.96	3.62	2.17	1.11	0.82	250	766	33	23
flex-B-M84-CS9011-09-13-2005-(2)	13.48	9.75	7.53	5.09	3.71	2.22	1.09	0.45	250	693	31	23

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-B-M84-CS9011-09-13-2005-(2)	12.37	8.76	6.63	4.38	3.15	1.82	0.89	0.62	250	690	33	28
flex-B-M84-CS9011-09-13-2005-(2)	12.10	8.91	6.91	4.70	3.40	1.97	0.93	0.73	250	895	31	27
flex-B-M84-CS9011-09-13-2005-(2)	13.60	9.68	7.31	4.81	3.40	1.91	0.88	0.97	250	694	28	28
flex-B-M84-CS9011-09-13-2005-(2)	14.18	10.11	7.51	4.78	3.27	1.72	0.74	1.48	250	694	24	31
flex-B-M84-CS9011-09-13-2005-(2)	12.63	9.14	7.03	4.60	3.21	1.76	0.83	0.52	250	793	29	30
flex-B-M84-CS9011-09-13-2005-(2)	11.86	8.66	6.70	4.58	3.37	2.00	0.99	0.54	250	829	34	26
flex-B-M84-CS9011-09-13-2005-(2)	12.61	9.26	7.17	4.94	3.68	2.25	1.12	0.61	250	766	33	23
flex-B-M84-CS9011-09-13-2005-(2)	11.54	8.30	6.41	4.30	3.09	1.76	0.86	0.72	250	834	34	29
flex-B-M84-CS9011-09-13-2005-(2)	11.93	8.59	6.60	4.51	3.29	1.90	0.88	1.59	250	887	32	28
flex-B-M84-CS9011-09-13-2005-(2)	11.80	8.35	6.37	4.23	3.04	1.74	0.82	1.11	250	794	33	30
flex-B-M84-CS9011-09-13-2005-(2)	11.91	8.44	6.47	4.34	3.15	1.85	0.86	1.40	250	800	33	28
flex-B-M84-CS9011-09-13-2005-(2)	11.38	7.98	6.13	4.12	3.03	1.83	0.88	1.02	250	756	37	28
flex-B-M84-CS9011-09-13-2005-(2)	11.37	8.07	6.18	4.16	2.98	1.72	0.81	1.11	250	836	34	30
flex-U-M52-CS33051-11-13-2002	10.75	9.07	7.76	6.03	4.64	2.68	1.18	1.24	250	936	22	23
flex-U-M52-CS33051-11-13-2002	10.74	9.05	7.77	6.06	4.66	2.72	1.18	0.95	250	971	21	23
flex-U-M52-CS33051-11-13-2002	11.14	9.32	8.06	6.27	4.80	2.73	1.15	1.13	250	944	20	23
flex-U-M52-CS33051-11-13-2002	11.15	9.26	7.92	6.19	4.75	2.72	1.22	1.42	250	858	22	22
flex-U-M52-CS33051-11-13-2002	10.99	9.13	7.81	6.07	4.64	2.64	1.14	1.13	250	896	21	23
flex-U-M52-CS33051-11-13-2002	11.51	9.53	8.00	6.09	4.66	2.64	1.14	0.97	250	776	21	23
flex-U-M52-CS33051-11-13-2002	11.13	9.20	7.76	5.92	4.49	2.57	1.15	1.18	250	769	23	23
flex-U-M52-CS33051-11-13-2002	10.85	8.89	7.60	5.88	4.53	2.64	1.17	0.72	250	879	23	23
flex-U-M52-CS33051-11-13-2002	10.85	9.02	7.60	5.83	4.42	2.53	1.13	1.19	250	814	23	24
flex-U-M52-CS33051-11-13-2002	10.62	8.83	7.53	5.86	4.50	2.61	1.18	1.19	250	888	24	23
flex-U-M52-CS33051-11-13-2002	10.87	9.05	7.80	6.07	4.65	2.65	1.14	1.16	250	938	21	23

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-U-M52-CS33051-11-13-2002	10.93	8.99	7.61	5.79	4.42	2.55	1.11	0.74	250	806	23	24
flex-U-M52-CS33051-11-13-2002	11.01	8.85	7.39	5.51	4.17	2.36	1.10	1.39	250	666	26	24
flex-U-M52-CS33051-11-13-2002	10.60	8.74	7.43	5.71	4.33	2.52	1.15	1.20	250	825	25	23
flex-U-M52-CS33051-11-13-2002	11.43	9.37	7.86	5.97	4.53	2.63	1.14	0.49	250	756	22	23
flex-U-M52-CS33051-11-13-2002	10.85	8.86	7.48	5.71	4.33	2.51	1.11	0.71	250	789	24	24
flex-U-M52-CS33051-11-13-2002	11.06	8.75	7.20	5.29	3.95	2.24	1.10	1.94	250	561	29	24
flex-U-M52-CS33051-11-13-2002	11.73	9.26	7.63	5.78	4.33	2.48	1.17	1.17	250	596	26	23
flex-U-M52-CS33051-11-13-2002	11.42	9.29	7.82	5.87	4.42	2.52	1.15	1.31	250	685	24	23
flex-U-M52-CS33051-11-13-2002	13.08	10.38	8.58	6.39	4.72	2.64	1.14	0.51	250	568	20	23
flex-U-M52-CS33051-11-13-2002	10.71	8.66	7.31	5.56	4.21	2.45	1.14	1.04	250	736	26	23
flex-U-M52-CS33051-11-13-2002	10.66	8.81	7.47	5.70	4.33	2.47	1.10	1.25	250	824	23	24
flex-U-M52-CS33051-11-13-2002	10.67	8.58	7.31	5.59	4.21	2.36	1.06	1.44	250	779	24	25
flex-U-M52-CS33051-11-13-2002	11.67	9.08	7.45	5.38	3.99	2.23	1.09	1.96	250	500	28	25
flex-U-M52-CS33051-11-13-2002	11.25	9.02	7.52	5.58	4.14	2.36	1.10	1.41	250	626	26	24
flex-U-M52-CS33051-11-13-2002	11.30	9.09	7.52	5.62	4.20	2.37	1.07	1.04	250	646	25	24
flex-U-M52-CS33051-11-13-2002	10.64	8.73	7.44	5.66	4.32	2.49	1.14	1.22	250	797	25	23
flex-U-M52-CS33051-11-13-2002	10.51	8.66	7.41	5.71	4.33	2.45	1.10	1.52	250	856	23	24
flex-U-M52-CS33051-11-13-2002	10.58	8.67	7.31	5.60	4.28	2.44	1.07	0.91	250	829	24	24
flex-U-M52-CS33051-11-13-2002	11.27	8.95	7.45	5.51	4.09	2.29	1.06	1.38	250	609	25	25
flex-U-M52-CS33051-11-13-2002	10.76	8.78	7.45	5.72	4.37	2.48	1.17	1.80	250	772	25	23
flex-U-M52-CS33051-11-13-2002	10.72	8.93	7.44	5.67	4.32	2.49	1.09	0.87	250	812	23	24
flex-U-M52-CS33051-11-13-2002	10.72	8.71	7.39	5.64	4.36	2.49	1.07	0.69	250	852	23	24
flex-U-M52-CS33051-11-13-2002	10.56	8.45	7.13	5.54	4.22	2.51	1.13	0.59	250	813	26	23
flex-U-M52-CS33051-11-13-2002	10.39	8.65	7.36	5.67	4.32	2.51	1.10	0.90	250	897	23	24

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-U-M52-CS33051-11-13-2002	10.51	8.51	7.23	5.51	4.20	2.40	1.06	0.83	250	815	24	25
flex-U-M52-CS33051-11-13-2002	11.01	8.86	7.48	5.66	4.28	2.44	1.09	0.83	250	732	24	24
flex-U-M52-CS33051-11-13-2002	11.17	8.94	7.41	5.55	4.16	2.35	1.10	1.48	250	622	26	24
flex-Su-M38-CS66042-05-20-2008	13.55	10.03	8.01	5.89	4.53	2.85	1.49	1.85	350	1,433	32	20
flex-Su-M38-CS66042-05-20-2008	12.28	9.08	7.30	5.46	4.27	2.85	1.64	1.12	350	1,264	42	19
flex-Su-M38-CS66042-05-20-2008	12.33	9.05	7.37	5.41	4.19	2.70	1.54	1.43	350	1,344	39	20
flex-Su-M38-CS66042-05-20-2008	12.69	9.71	7.95	6.01	4.73	3.11	1.70	1.34	350	1,677	36	18
flex-Su-M38-CS66042-05-20-2008	13.27	10.11	8.27	6.34	5.03	3.29	1.77	1.97	350	1,747	33	17
flex-Su-M38-CS66042-05-20-2008	16.71	13.13	10.71	8.03	6.20	3.91	1.94	1.75	350	1,666	22	16
flex-Su-M38-CS66042-05-20-2008	15.42	12.18	10.11	8.04	6.52	4.47	2.58	1.37	350	1,606	32	12
flex-Su-M38-CS66042-05-20-2008	14.15	10.04	7.61	5.29	3.96	2.39	1.26	1.56	350	958	32	24
flex-Su-M38-CS66042-05-20-2008	14.16	10.68	8.43	6.20	4.77	2.98	1.55	1.72	350	1,372	30	20
flex-Su-M38-CS66042-05-20-2008	14.77	11.37	9.24	6.90	5.36	3.39	1.74	1.69	350	1,622	27	17
flex-M-M53-CS50015-04-04-2008	7.78	6.56	5.97	5.24	4.54	3.40	1.84	1.63	300	1,253	35	17
flex-Su-US141-CS7022-05-19-2008	13.87	11.29	9.16	6.58	4.81	2.58	1.02	1.70	700	1,322	16	31
flex-Su-US141-CS7022-05-19-2008	16.27	13.63	11.46	8.70	6.68	3.94	1.84	0.59	700	1,257	15	19
flex-Su-US141-CS7022-05-19-2008	17.27	13.95	11.29	7.98	5.67	2.87	1.12	0.98	700	962	12	27
flex-Su-US141-CS7022-05-19-2008	13.99	11.50	9.61	7.24	5.56	3.36	1.62	0.92	700	1,329	19	21
flex-Su-US141-CS7022-05-19-2008	12.02	9.35	7.62	5.55	4.25	2.63	1.38	1.09	700	1,056	29	25
flex-Su-US141-CS7022-05-19-2008	15.52	12.82	10.73	8.15	6.32	3.85	1.85	1.09	700	1,256	17	19
flex-Su-US141-CS7022-05-19-2008	16.04	13.05	10.78	7.94	5.96	3.45	1.53	1.47	700	1,143	15	22
flex-Su-US141-CS7022-05-19-2008	17.84	14.50	11.90	8.75	6.52	3.62	1.53	1.42	700	1,046	12	21
flex-Su-US141-CS7022-05-19-2008	19.76	15.96	13.02	9.54	7.17	4.17	1.99	1.05	700	803	14	17
flex-Su-US141-CS7022-05-19-2008	17.61	14.18	11.65	8.70	6.69	4.12	2.13	0.84	700	853	18	16

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-Su-US141-CS7022-05-19-2008	17.99	14.62	12.07	8.96	6.92	4.41	2.33	0.89	700	805	18	15
flex-Su-US141-CS7022-05-19-2008	17.49	13.99	11.38	8.31	6.25	3.78	1.95	0.61	700	770	18	18
flex-Su-US41-CS7013-05-19-2008	17.11	12.61	9.96	7.16	5.50	3.36	1.55	1.52	150	2,397	28	12
flex-Su-US41-CS7013-05-19-2008	18.45	13.93	10.91	7.94	6.13	3.77	1.75	1.33	150	2,332	26	10
flex-Su-US41-CS7013-05-19-2008	16.35	12.06	9.33	6.70	5.18	3.23	1.57	1.22	150	2,080	32	12
flex-Su-US41-CS7013-05-19-2008	15.97	11.64	9.02	6.55	5.11	3.27	1.65	1.35	150	1,874	35	11
flex-Su-US41-CS7013-05-19-2008	17.59	13.09	10.17	7.36	5.59	3.37	1.46	1.91	150	2,546	26	12
flex-Su-US41-CS7013-05-19-2008	17.00	13.12	10.42	7.67	5.96	3.81	1.83	0.79	150	2,628	29	10
flex-Su-US41-CS7013-05-19-2008	18.65	13.97	10.94	7.95	6.19	3.92	1.91	1.07	150	1,967	28	9
flex-Su-US41-CS7013-05-19-2008	17.73	12.87	9.91	7.12	5.52	3.51	1.77	1.36	150	1,588	32	10
flex-Su-US41-CS7013-05-19-2008	17.97	13.35	10.57	7.79	6.18	4.06	2.09	1.05	150	1,823	32	9
flex-Su-US41-CS7013-05-19-2008	18.77	13.85	10.71	7.81	6.08	3.92	1.94	1.04	150	1,681	29	9
flex-Su-US41-CS7013-05-19-2008	16.97	12.35	9.56	6.89	5.34	3.38	1.71	1.45	150	1,740	33	11
flex-Su-US2-CS27022-05-20-2008	8.31	5.84	4.68	3.62	3.07	2.42	1.56	1.94	250	655	108	18
flex-N-US131-CS67017-05-01-2002	6.76	6.29	5.88	5.13	4.44	3.31	1.82	0.80	700	2,738	18	23
flex-N-US131-CS67017-05-01-2002	6.90	6.18	5.60	4.81	4.08	2.88	1.56	0.41	700	1,835	26	25
flex-N-US131-CS67017-05-01-2002	6.77	6.09	5.55	4.84	4.13	2.80	1.54	1.58	700	1,944	24	26
flex-N-US131-CS67017-05-01-2002	8.52	7.72	7.06	6.07	5.13	3.60	1.91	0.75	700	1,596	17	21
flex-N-US131-CS67017-05-01-2002	8.36	7.42	6.72	5.68	4.70	3.10	1.46	0.64	700	1,464	14	27
flex-N-US131-CS67017-05-01-2002	7.98	7.11	6.43	5.59	4.65	3.11	1.60	1.23	700	1,550	18	24
flex-N-US131-CS67017-05-01-2002	7.15	6.50	5.97	5.25	4.54	3.38	2.00	0.48	700	2,006	31	19
flex-N-US131-CS67017-05-01-2002	6.18	5.51	4.99	4.32	3.67	2.64	1.49	0.37	700	1,965	35	26
flex-N-US131-CS67017-05-01-2002	7.57	6.78	6.09	5.08	4.24	2.93	1.51	0.76	700	1,449	23	25
flex-N-US131-CS67017-05-01-2002	7.51	6.82	6.26	5.54	4.87	3.42	2.07	1.74	700	1,861	29	19

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-N-US131-CS67017-05-01-2002	11.13	9.46	8.36	6.97	5.77	3.89	2.20	0.98	700	704	25	17
flex-N-US131-CS67017-05-01-2002	11.29	9.50	8.33	6.73	5.47	3.57	1.87	0.55	700	654	21	19
flex-N-US131-CS67017-05-01-2002	8.35	7.22	6.34	5.23	4.23	2.79	1.48	0.97	700	965	26	25
flex-N-US131-CS67017-05-01-2002	8.02	7.02	6.21	5.19	4.30	2.98	1.62	0.60	700	1,130	29	23
flex-N-US131-CS67017-05-01-2002	7.90	7.07	6.36	5.51	4.74	3.12	1.70	1.86	700	1,533	21	23
flex-N-I75-CS69014-11-12-1997	11.42	9.33	7.99	6.42	5.12	3.27	1.77	0.80	700	780	27	22
flex-N-I75-CS69014-11-12-1997	8.62	7.24	6.10	4.80	3.66	2.17	1.06	1.20	700	1,029	27	35
flex-N-I75-CS69014-11-12-1997	9.72	8.15	7.09	5.79	4.49	2.91	1.34	1.06	700	1,249	21	28
flex-N-I75-CS69014-11-12-1997	9.45	7.95	6.85	5.59	4.41	2.87	1.34	1.08	700	1,286	22	28
flex-N-I75-CS69014-11-12-1997	6.89	5.67	4.76	3.82	2.95	1.93	1.14	1.81	700	1,028	53	34
flex-N-I75-CS69014-11-12-1997	7.56	6.34	5.43	4.57	3.74	2.72	1.81	1.81	700	962	69	22
flex-N-I75-CS69014-11-12-1997	7.32	6.18	5.39	4.49	3.70	2.68	1.73	1.31	700	1,132	64	23
flex-N-I75-CS69014-11-12-1997	7.48	5.94	4.92	3.94	3.15	2.17	1.30	0.79	700	804	60	30
flex-N-I75-CS69014-11-12-1997	8.62	6.93	5.71	4.53	3.46	2.17	1.18	1.14	700	823	38	32
flex-N-I75-CS69014-11-12-1997	7.95	6.34	5.24	4.09	3.11	1.89	0.91	0.99	700	1,023	33	40
flex-N-I75-CS69014-11-12-1997	6.61	5.16	4.21	3.19	2.32	1.34	0.63	0.66	700	1,058	40	57
flex-N-I75-CS69014-11-12-1997	7.32	6.14	5.20	4.09	3.11	1.93	1.02	1.47	700	1,127	38	37
flex-N-I75-CS69014-11-12-1997	8.39	6.65	5.71	4.57	3.70	2.52	1.38	1.14	700	965	43	28
flex-N-I75-CS69014-11-12-1997	8.86	7.76	6.85	5.59	4.49	3.19	1.81	1.23	700	1,230	36	21
flex-N-I75-CS69014-11-12-1997	6.65	5.59	4.88	3.90	3.07	2.05	1.06	0.55	700	1,526	41	36
flex-N-I75-CS69014-11-12-1997	6.50	5.39	4.72	3.82	3.07	2.05	1.06	0.52	700	1,656	42	36
flex-N-I75-CS69014-11-12-1997	7.24	5.83	4.92	4.02	3.11	2.09	1.22	1.29	700	991	53	32
flex-N-I75-CS69014-11-12-1997	7.05	5.98	5.24	4.41	3.54	2.52	1.46	0.77	700	1,493	49	27
flex-N-I75-CS69014-11-12-1997	8.39	6.77	5.75	4.65	3.66	2.44	1.26	1.20	700	1,072	36	30

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-N-I75-CS69014-11-12-1997	8.94	7.48	6.34	5.20	4.21	2.99	1.85	1.10	700	826	49	21
flex-N-I75-CS69014-11-12-1997	11.89	9.02	7.60	6.10	4.84	3.35	2.01	1.01	700	468	40	19
flex-N-I75-CS69014-11-12-1997	10.24	8.50	7.24	5.79	4.57	2.91	1.69	1.75	700	766	33	23
flex-N-I75-CS69014-11-12-1997	8.66	7.28	6.10	4.96	3.82	2.52	1.38	1.20	700	971	36	28
flex-N-I75-CS69014-11-12-1997	7.91	6.42	5.43	4.37	3.50	2.40	1.38	0.38	700	942	49	28
flex-N-I75-CS69014-11-12-1997	6.97	5.87	5.04	4.13	3.27	2.17	1.18	0.72	700	1,400	42	32
flex-N-I75-CS69014-11-12-1997	7.91	6.46	5.39	4.33	3.31	2.13	1.18	1.24	700	949	42	32
flex-N-I75-CS69014-11-12-1997	7.56	5.98	4.96	3.82	2.91	1.85	1.06	1.37	700	781	49	36
flex-N-I75-CS69014-11-12-1997	8.74	7.05	5.83	4.57	3.50	2.24	1.22	0.72	700	802	38	31
flex-N-I75-CS69014-11-23-1997	5.67	4.92	4.37	3.70	2.99	2.05	1.18	1.24	700	2,155	52	33
flex-N-I75-CS69014-11-23-1997	7.28	6.34	5.63	4.76	3.82	2.36	1.18	1.83	700	1,929	25	33
flex-N-I75-CS69014-11-23-1997	7.44	6.18	5.24	4.09	3.07	1.93	1.06	1.89	700	993	40	36
flex-N-I75-CS69014-11-23-1997	7.32	6.22	5.43	4.45	3.54	2.40	1.42	1.40	700	1,253	46	27
flex-N-I75-CS69014-11-23-1997	7.56	6.38	5.59	4.53	3.62	2.40	1.46	1.99	700	1,128	46	26
flex-N-I75-CS69014-11-23-1997	7.76	6.65	5.79	4.84	3.90	2.72	1.65	1.42	700	1,206	47	23
flex-N-I75-CS69014-08-04-1999-(2)	9.09	6.18	4.69	3.70	2.87	2.05	1.34	1.82	700	265	63	30
flex-N-I75-CS69014-08-04-1999-(2)	9.17	5.63	4.09	3.07	2.28	1.50	0.91	1.98	700	229	58	43
flex-N-I75-CS69014-08-04-1999-(2)	9.02	5.63	4.02	2.95	2.24	1.50	0.94	1.78	700	214	63	43
flex-N-I75-CS69014-08-04-1999-(2)	8.82	5.67	4.06	3.03	2.28	1.50	0.91	1.91	700	251	58	43
flex-N-I75-CS69014-08-04-1999-(2)	7.28	5.00	3.82	2.87	2.13	1.38	0.87	1.85	700	399	61	46
flex-N-I75-CS69014-08-04-1999-(2)	9.49	6.65	5.28	4.25	3.27	2.24	1.42	1.98	700	354	51	28
flex-N-I75-CS69014-08-04-1999-(2)	8.07	5.04	3.78	2.91	2.20	1.57	1.02	1.89	700	236	77	40
flex-N-I75-CS69014-08-04-1999-(2)	9.17	5.71	4.37	3.35	2.56	1.77	1.14	1.75	700	224	64	35
flex-G-US131-CS54014-05-13-1998	5.47	4.61	4.06	3.43	2.72	1.89	1.18	1.91	700	1,200	58	36

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-US131-CS54014-05-13-1998	5.67	4.96	4.37	3.74	3.03	2.17	1.26	1.03	700	1,518	44	33
flex-G-US131-CS54014-05-13-1998	5.71	4.84	4.25	3.50	2.76	1.97	1.18	1.58	700	1,123	54	35
flex-G-US131-CS54014-05-13-1998	5.87	4.96	4.25	3.39	2.52	1.54	0.67	1.25	700	1,217	26	58
flex-G-US131-CS54014-05-13-1998	9.65	8.11	7.17	5.75	4.45	2.76	1.26	0.64	700	827	16	32
flex-G-US131-CS54014-05-13-1998	8.90	7.64	6.93	5.83	4.61	3.15	1.61	1.11	700	1,075	18	26
flex-G-US131-CS54014-05-13-1998	5.28	4.53	3.98	3.27	2.52	1.65	0.91	1.79	700	1,365	40	45
flex-G-US131-CS54014-05-13-1998	6.54	5.55	4.96	4.09	3.27	2.32	1.38	1.28	700	1,075	43	30
flex-G-US131-CS54014-05-13-1998	6.18	5.08	4.37	3.58	2.64	1.73	0.91	1.83	700	996	36	44
flex-G-US131-CS54014-05-13-1998	6.38	5.28	4.61	3.74	2.80	1.77	0.91	1.57	700	1,039	31	44
flex-G-US131-CS54014-05-13-1998	8.70	7.44	6.57	5.59	4.37	2.91	1.42	1.10	700	1,070	17	29
flex-G-US131-CS54014-05-13-1998	7.28	6.30	5.47	4.65	3.62	2.40	1.22	1.24	700	1,172	23	33
flex-G-US131-CS54014-05-13-1998	7.76	6.65	5.71	4.72	3.70	2.44	1.42	1.89	700	827	32	29
flex-G-US131-CS54014-05-13-1998	7.13	6.02	5.24	4.37	3.46	2.32	1.34	1.28	700	961	35	31
flex-G-US131-CS54014-05-13-1998	8.19	7.20	6.42	5.43	4.41	2.83	1.34	0.84	700	1,286	14	31
flex-G-US131-CS54014-05-13-1998	6.81	5.94	5.24	4.41	3.54	2.48	1.46	1.34	700	1,136	37	28
flex-G-US131-CS54014-05-13-1998	6.38	5.39	4.72	3.98	3.11	2.05	1.06	1.05	700	1,254	29	38
flex-G-US131-CS54014-05-13-1998	6.81	5.83	5.16	4.25	3.54	2.48	1.61	1.89	700	931	51	26
flex-G-US131-CS54014-05-13-1998	6.50	5.55	4.76	3.90	2.91	1.77	0.87	1.91	700	1,053	26	45
flex-G-US131-CS54014-05-13-1998	9.09	7.76	6.77	5.51	4.21	2.64	1.34	1.57	700	782	19	30
flex-G-US131-CS54014-05-13-1998	5.87	4.92	4.29	3.58	2.80	1.85	1.06	1.62	700	1,134	42	38
flex-G-US131-CS54014-05-13-1998	5.67	4.69	4.09	3.39	2.60	1.77	1.06	1.98	700	1,018	51	38
flex-G-US131-CS54014-05-13-1998	6.02	5.08	4.49	3.82	3.03	2.09	1.22	1.37	700	1,229	43	34
flex-G-US131-CS54014-05-13-1998	5.67	4.65	4.06	3.35	2.60	1.61	0.87	1.64	700	1,179	37	46
flex-G-US131-CS54014-05-13-1998	5.55	4.61	4.02	3.31	2.52	1.61	0.87	1.55	700	1,200	39	47

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-US131-CS54014-05-13-1998	5.39	4.69	4.09	3.43	2.64	1.77	0.94	1.66	700	1,445	36	43
flex-G-US131-CS54014-05-13-1998	5.94	5.04	4.49	3.66	2.87	1.97	1.06	1.11	700	1,238	36	38
flex-G-US131-CS54014-05-13-1998	6.61	5.55	4.92	3.98	3.03	1.97	1.02	1.48	700	1,046	29	39
flex-G-US131-CS54014-05-13-1998	6.57	5.47	4.80	3.94	3.03	1.97	1.06	1.34	700	1,021	33	38
flex-G-US131-CS54014-05-13-1998	8.46	7.36	6.42	5.20	4.06	2.60	1.38	1.70	700	837	23	29
flex-G-US131-CS54014-05-13-1998	7.48	6.38	5.63	4.49	3.54	2.40	1.42	1.93	700	801	36	28
flex-G-US131-CS54014-05-13-1998	7.72	6.54	5.63	4.61	3.46	2.28	1.26	2.00	700	785	29	31
flex-G-US131-CS54014-05-13-1998	7.13	5.94	5.04	3.90	2.99	1.89	1.06	1.94	700	705	34	37
flex-G-US131-CS54014-05-13-1998	8.90	7.24	6.18	4.76	3.62	2.24	1.26	1.85	700	550	27	31
flex-G-US131-CS54014-05-13-1998	12.99	10.00	8.27	6.02	4.33	2.44	1.18	0.76	700	326	17	30
flex-G-US131-CS54014-05-13-1998	8.90	7.17	6.02	4.65	3.43	2.17	1.18	1.66	700	520	28	33
flex-G-US131-CS54014-05-13-1998	10.08	7.80	6.61	5.12	3.82	2.36	1.34	1.59	700	428	27	29
flex-G-US131-CS54014-05-13-1998	8.46	7.28	6.50	5.47	4.29	2.83	1.34	0.95	700	1,190	16	32
flex-G-US131-CS54014-05-13-1998	9.76	7.99	6.73	5.43	4.09	2.68	1.46	1.31	700	580	27	28
flex-G-US131-CS54014-05-13-1998	7.44	6.22	5.35	4.37	3.31	2.13	1.06	1.18	700	949	26	38
flex-G-US131-CS54014-05-13-1998	8.46	6.97	5.98	4.76	3.62	2.36	1.30	1.34	700	687	30	32
flex-G-US131-CS54014-05-13-1998	7.95	6.85	6.02	5.00	3.94	2.68	1.57	1.82	700	900	32	27
flex-G-US131-CS54014-05-13-1998	7.99	6.69	5.87	4.84	3.78	2.60	1.50	1.29	700	842	34	28
flex-G-US131-CS54014-05-13-1998	6.69	5.63	4.96	4.09	3.15	2.09	1.06	1.14	700	1,184	29	39
flex-G-US131-CS54014-05-13-1998	8.03	6.69	5.79	4.65	3.58	2.36	1.26	0.99	700	807	29	32
flex-G-US131-CS54014-05-13-1998	7.36	6.18	5.31	4.29	3.39	2.20	1.26	1.38	700	835	36	33
flex-G-US131-CS54014-05-13-1998	7.60	6.38	5.55	4.49	3.58	2.28	1.18	0.49	700	977	26	35
flex-G-US131-CS54014-05-13-1998	6.61	5.43	4.69	3.78	2.91	1.89	1.06	1.33	700	905	39	39
flex-G-US131-CS54014-05-13-1998	6.73	5.59	4.80	3.98	3.07	2.05	1.18	1.54	700	908	40	35

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-US131-CS54014-05-13-1998	6.97	5.71	4.88	3.82	2.91	1.89	1.06	1.50	700	750	39	38
flex-G-US131-CS54014-05-13-1998	7.95	6.54	5.47	4.41	3.43	2.28	1.34	1.38	700	640	38	31
flex-G-US131-CS54014-05-13-1998	9.37	7.72	6.54	4.96	3.66	2.28	1.18	1.82	700	545	24	33
flex-G-US131-CS54014-05-13-1998	9.69	8.03	6.89	5.51	4.25	2.72	1.42	0.77	700	656	22	28
flex-G-US131-CS54014-05-13-1998	8.62	7.28	6.22	5.00	3.86	2.48	1.30	1.10	700	744	24	31
flex-G-US131-CS54014-05-13-1998	10.24	8.23	6.77	5.08	3.66	2.24	1.14	1.73	700	448	23	34
flex-G-US131-CS54014-05-13-1998	10.91	9.06	7.76	6.02	4.45	2.52	1.10	1.27	700	582	14	34
flex-G-US131-CS54014-05-13-1998	10.59	8.74	7.40	5.67	4.09	2.13	0.67	0.71	700	635	11	51
flex-G-US131-CS54014-05-13-1998	8.11	6.81	5.79	4.49	3.27	1.97	0.94	1.93	700	720	23	41
flex-G-US131-CS54014-05-13-1998	6.69	5.59	4.76	3.78	2.83	1.81	0.91	1.33	700	932	30	44
flex-G-US131-CS54014-05-13-1998	11.06	9.06	7.48	5.71	4.17	2.48	1.22	1.44	700	461	19	31
flex-G-US131-CS54014-05-13-1998	5.63	4.88	4.45	3.82	3.11	2.20	1.30	1.23	700	1,676	42	32
flex-G-US131-CS54014-05-13-1998	5.83	5.16	4.72	4.21	3.43	2.56	1.50	1.42	700	2,064	35	28
flex-G-US131-CS54014-05-13-1998	6.10	5.35	4.76	4.06	3.23	2.28	1.38	1.85	700	1,305	43	30
flex-G-US131-CS54014-05-13-1998	6.14	5.35	4.88	4.21	3.43	2.44	1.38	1.02	700	1,684	32	30
flex-G-US131-CS54014-05-13-1998	5.83	5.16	4.61	3.94	3.11	2.20	1.30	1.95	700	1,455	40	32
flex-G-US131-CS54014-05-13-1998	5.31	4.61	4.21	3.58	2.83	1.93	1.06	1.73	700	1,785	34	39
flex-G-US131-CS54014-05-13-1998	6.26	5.71	5.20	4.57	3.74	2.68	1.46	1.27	700	2,081	21	30
flex-G-US131-CS54014-05-13-1998	7.17	6.30	5.67	4.92	3.94	2.83	1.65	1.50	700	1,310	31	25
flex-G-US131-CS54014-05-13-1998	7.32	6.54	5.87	4.84	3.86	2.60	1.34	1.48	700	1,276	21	31
flex-G-US131-CS54014-05-13-1998	6.73	5.75	5.31	4.65	3.70	2.64	1.46	1.66	700	1,604	27	29
flex-G-M37-CS62032-05-18-2000	10.28	8.86	7.60	6.26	4.76	3.11	1.57	1.85	700	586	18	27
flex-G-US131-CS59012-06-25-1998	8.78	6.85	5.87	4.76	3.66	2.44	1.42	1.66	700	464	37	26
flex-G-US131-CS59012-06-25-1998	7.17	5.98	5.20	4.41	3.50	2.32	1.34	1.91	700	787	37	28

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-M57-CS41122-8-23-1994	10.75	8.44	6.58	4.72	3.56	2.33	1.42	1.52	700	2,255	43	26
flex-G-M57-CS41122-8-23-1994	9.63	7.51	6.02	4.37	3.37	2.26	1.43	1.62	700	2,544	51	26
flex-G-M57-CS41122-8-23-1994	9.38	7.25	5.69	4.14	3.21	2.19	1.38	1.45	700	2,272	54	27
flex-G-M57-CS41122-8-23-1994	10.31	7.73	5.91	4.20	3.25	2.27	1.40	1.26	700	1,538	51	25
flex-G-M57-CS41122-8-23-1994	9.60	7.40	5.92	4.37	3.37	2.29	1.40	0.70	700	2,564	51	26
flex-G-M57-CS41122-8-23-1994	9.04	6.37	4.76	3.28	2.49	1.59	0.96	1.28	700	1,689	56	37
flex-G-M57-CS41122-8-23-1994	10.48	7.45	5.54	3.91	3.02	2.07	1.26	0.87	700	1,249	53	28
flex-G-M57-CS41122-8-23-1994	9.43	6.48	4.77	3.33	2.49	1.61	1.00	1.87	700	1,371	57	36
flex-G-M57-CS41122-8-23-1994	8.67	6.42	4.92	3.34	2.49	1.58	0.95	1.23	700	2,280	54	39
flex-G-M57-CS41122-8-23-1994	9.01	6.94	5.46	3.99	3.07	2.08	1.26	0.76	700	2,599	55	29
flex-G-M57-CS41122-8-23-1994	11.80	8.37	6.11	4.27	3.27	2.26	1.38	1.20	700	1,007	49	27
flex-G-M57-CS41122-8-23-1994	9.59	7.52	5.88	4.25	3.30	2.25	1.37	1.10	700	2,412	51	27
flex-G-M57-CS41122-8-23-1994	9.58	7.28	5.83	4.20	3.06	1.94	1.19	1.88	700	2,649	46	31
flex-G-M57-CS41122-8-23-1994	9.42	7.19	5.58	3.97	3.02	1.96	1.19	1.17	700	2,336	50	30
flex-G-M57-CS41122-8-23-1994	10.38	8.11	6.45	4.64	3.62	2.53	1.60	1.70	700	2,026	51	23
flex-G-M57-CS41122-8-23-1994	8.42	6.03	4.54	3.18	2.35	1.50	0.90	1.18	700	2,074	58	40
flex-G-M57-CS41122-8-23-1994	9.81	8.05	6.55	4.85	3.85	2.54	1.54	1.23	700	3,459	45	24
flex-G-M57-CS41122-8-23-1994	9.88	7.97	6.51	4.81	3.69	2.34	1.41	1.35	700	3,509	42	26
flex-G-M57-CS41122-8-23-1994	9.14	7.30	5.91	4.33	3.29	2.19	1.33	1.22	700	3,148	49	27
flex-G-M57-CS41122-8-23-1994	10.40	7.74	5.91	4.21	3.23	2.20	1.40	1.79	700	1,620	52	27
flex-G-M57-CS29021-5-23-1995	9.04	7.44	6.24	4.77	3.67	2.25	1.09	1.33	700	7,250	31	33
flex-G-M57-CS29021-5-23-1995	9.32	7.60	6.35	4.81	3.73	2.33	1.17	1.40	700	6,262	34	31
flex-G-M57-CS29021-5-23-1995	9.52	7.64	6.36	4.80	3.58	2.10	0.99	1.39	700	6,253	29	36
flex-G-M57-CS59021-08-23-1994	7.51	6.21	4.96	3.62	2.77	1.83	1.12	1.84	700	4,082	58	33

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-G-M57-CS59021-08-23-1994-(2)	9.31	7.34	5.94	4.38	3.33	2.23	1.42	1.94	700	2,778	50	25
flex-G-M57-CS59021-08-23-1994-(2)	7.25	6.00	4.79	3.49	2.67	1.77	1.08	1.84	700	4,083	58	33
flex-G-M57-CS59021-08-23-1994-(3)	8.37	6.32	4.89	3.55	2.73	1.93	1.26	1.31	700	2,200	65	34
flex-G-M57-CS59021-08-23-1994-(3)	8.61	6.35	4.94	3.40	2.60	1.72	1.12	1.59	700	2,203	60	39
flex-G-M57-CS59021-08-23-1994-(3)	8.94	6.34	4.62	3.24	2.46	1.54	0.94	1.88	700	1,931	54	43
flex-G-M57-CS59021-08-23-1994-(4)	9.84	7.80	5.98	4.53	3.66	2.40	1.45	1.97	700	2,647	48	24
flex-N-US23-CS4032-06-03-2008	7.95	5.59	4.48	3.26	2.38	1.34	0.59	2.00	150	815	52	31
flex-U-M52-CS33051-11-13-2002	11.22	9.38	8.02	6.17	4.66	2.57	1.10	1.69	250	848	20	24
flex-M-M53-CS50015-04-04-2008	10.96	9.96	9.00	7.62	6.34	4.26	2.13	1.65	300	864	15	15
flex-M-M53-CS50015-04-04-2008	9.54	8.54	7.64	6.45	5.30	3.42	1.42	0.86	300	1,043	11	24
flex-M-M53-CS50015-04-04-2008	9.40	8.46	7.69	6.56	5.48	3.72	1.72	0.76	300	1,140	13	20
flex-M-M53-CS50015-04-04-2008	9.13	8.07	7.15	5.86	4.69	2.86	1.12	1.30	300	894	13	29
flex-M-M53-CS50015-04-04-2008	8.04	7.27	6.59	5.66	4.72	3.18	1.45	0.84	300	1,375	14	24
flex-M-M53-CS50015-04-04-2008	8.95	8.02	7.28	6.22	5.17	3.44	1.56	0.87	300	1,184	13	22
flex-M-M53-CS50015-04-04-2008	8.01	7.09	6.40	5.39	4.44	2.90	1.26	0.66	300	1,225	15	27
flex-M-M53-CS50015-02-27-2009	10.81	9.92	9.11	7.98	6.84	4.70	2.24	1.00	300	1,261	8	17
flex-M-M53-CS50015-02-27-2009	10.65	9.71	8.91	7.74	6.56	4.37	1.85	0.95	300	1,256	6	23
flex-M-M53-CS50015-02-27-2009	9.30	8.39	7.72	6.66	5.66	3.80	1.57	0.48	300	1,457	7	28
flex-M-M53-CS50015-02-27-2009	9.21	8.36	7.59	6.55	5.54	3.62	1.41	0.76	300	1,422	6	32
flex-M-M53-CS50015-02-27-2009	9.71	8.84	8.18	7.20	6.20	4.32	1.86	0.28	300	1,647	5	27
flex-M-M53-CS50015-02-27-2009	10.28	9.32	8.46	7.37	6.37	4.37	2.04	0.73	300	1,275	9	18
flex-M-M53-CS50015-02-27-2009	9.53	8.71	7.98	6.98	6.02	4.14	1.82	0.56	300	1,558	6	24
flex-M-M53-CS50015-02-27-2009	9.57	8.79	8.09	7.15	6.21	4.39	2.07	0.49	300	1,653	7	20
flex-M-M53-CS50015-02-27-2009	9.15	8.21	7.40	6.29	5.23	3.32	1.30	0.93	300	1,210	9	29

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-M-M53-CS50015-02-27-2009	8.16	7.44	6.90	6.00	5.20	3.60	1.59	0.46	300	1,877	7	29
flex-M-M53-CS50015-02-27-2009	9.61	8.67	7.91	6.86	5.87	3.97	1.71	0.51	300	1,389	8	23
flex-M-M53-CS50015-02-27-2009	8.69	7.97	7.40	6.55	5.75	4.08	1.85	0.41	300	2,024	5	29
flex-M-M53-CS50015-02-27-2009	8.04	7.30	6.70	5.80	4.88	3.24	1.36	0.93	300	1,614	9	30
flex-M-M53-CS50015-03-06-2009	11.64	10.46	9.29	7.89	6.56	4.25	1.94	1.31	300	784	11	16
flex-M-M53-CS50015-03-06-2009	11.30	10.15	9.06	7.64	6.26	3.90	1.57	1.38	300	820	9	21
flex-M-M53-CS50015-03-06-2009	10.25	9.17	8.18	6.84	5.65	3.51	1.32	1.00	300	941	8	26
flex-M-M53-CS50015-03-06-2009	10.14	8.97	7.93	6.62	5.43	3.28	1.16	0.97	300	912	8	30
flex-M-M53-CS50015-03-06-2009	10.29	9.18	8.30	7.09	5.94	3.88	1.51	0.34	300	1,092	7	25
flex-M-M53-CS50015-03-06-2009	11.16	9.97	8.95	7.55	6.25	4.02	1.74	1.08	300	834	10	18
flex-M-M53-CS50015-03-06-2009	10.89	9.68	8.69	7.29	6.03	3.82	1.50	0.74	300	896	8	23
flex-M-M53-CS50015-03-06-2009	9.91	9.00	8.18	7.07	6.04	4.12	1.83	0.54	300	1,253	8	20
flex-M-M53-CS50015-03-06-2009	10.34	9.14	8.08	6.63	5.31	3.13	1.10	1.30	300	792	9	29
flex-M-M53-CS50015-03-06-2009	8.72	7.76	6.96	5.92	4.93	3.16	1.29	0.81	300	1,164	11	26
flex-M-M53-CS50015-03-06-2009	10.43	9.33	8.36	7.04	5.83	3.70	1.51	0.97	300	924	9	22
flex-M-M53-CS50015-03-06-2009	9.89	9.00	8.20	7.12	6.01	3.94	1.50	0.75	300	1,328	5	33
flex-M-M53-CS50015-03-06-2009	8.97	7.97	7.12	5.90	4.86	3.02	1.22	1.18	300	984	12	26
flex-M-M53-CS50015-03-09-2009	10.85	9.91	9.06	7.83	6.66	4.53	2.19	1.13	300	1,103	10	16
flex-M-M53-CS50015-03-09-2009	10.01	9.09	8.28	7.11	5.97	3.91	1.72	1.29	300	1,142	9	21
flex-M-M53-CS50015-03-09-2009	9.32	8.42	7.64	6.56	5.51	3.61	1.48	0.83	300	1,281	8	26
flex-M-M53-CS50015-03-09-2009	8.93	8.02	7.28	6.25	5.20	3.36	1.32	0.82	300	1,316	8	30
flex-M-M53-CS50015-03-09-2009	9.52	8.72	8.08	7.11	6.12	4.21	1.78	0.59	300	1,674	5	31
flex-M-M53-CS50015-03-09-2009	10.26	9.26	8.41	7.28	6.21	4.25	2.05	0.74	300	1,132	12	17
flex-M-M53-CS50015-03-09-2009	9.40	8.53	7.75	6.72	5.73	3.86	1.67	0.63	300	1,381	8	23

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-M-M53-CS50015-03-09-2009	9.93	9.00	8.27	7.19	6.14	4.22	1.93	0.57	300	1,339	9	19
flex-M-M53-CS50015-03-09-2009	9.32	8.31	7.43	6.24	5.11	3.15	1.15	1.03	300	1,072	9	32
flex-M-M53-CS50015-03-09-2009	8.12	7.39	6.80	5.93	5.09	3.44	1.52	0.87	300	1,715	8	27
flex-M-M53-CS50015-03-09-2009	9.51	8.51	7.72	6.65	5.59	3.69	1.61	0.78	300	1,190	10	22
flex-M-M53-CS50015-03-09-2009	9.45	8.69	8.07	7.16	6.27	4.39	1.93	0.57	300	1,852	4	32
flex-M-M53-CS50015-03-09-2009	8.13	7.31	6.60	5.65	4.71	3.05	1.30	1.04	300	1,346	12	28
flex-M-M53-CS50015-03-13-2009	10.42	9.53	8.71	7.51	6.39	4.38	2.17	1.18	300	1,120	12	16
flex-M-M53-CS50015-03-13-2009	10.08	9.19	8.41	7.27	6.08	4.04	1.78	1.20	300	1,204	9	21
flex-M-M53-CS50015-03-13-2009	9.03	8.24	7.50	6.46	5.43	3.63	1.55	0.84	300	1,375	9	25
flex-M-M53-CS50015-03-13-2009	8.68	7.85	7.18	6.18	5.14	3.37	1.34	0.84	300	1,427	8	31
flex-M-M53-CS50015-03-13-2009	8.71	7.90	7.33	6.44	5.56	3.89	1.72	0.29	300	1,775	6	26
flex-M-M53-CS50015-03-13-2009	9.69	8.84	8.08	6.99	5.94	4.12	2.02	0.88	300	1,219	12	17
flex-M-M53-CS50015-03-13-2009	9.12	8.31	7.64	6.56	5.59	3.82	1.71	0.67	300	1,420	9	22
flex-M-M53-CS50015-03-13-2009	9.61	8.79	8.16	7.12	6.12	4.31	2.08	0.66	300	1,483	9	18
flex-M-M53-CS50015-03-13-2009	8.91	7.92	7.19	6.01	4.94	3.09	1.22	1.17	300	1,120	11	29
flex-M-M53-CS50015-03-13-2009	7.90	7.15	6.62	5.73	4.89	3.36	1.54	0.62	300	1,693	11	25
flex-M-M53-CS50015-03-13-2009	9.57	8.63	7.91	6.72	5.69	3.78	1.69	0.95	300	1,201	11	21
flex-M-M53-CS50015-03-13-2009	8.87	8.15	7.62	6.76	5.83	4.09	1.81	0.63	300	1,922	5	31
flex-M-M53-CS50015-03-13-2009	7.73	6.93	6.34	5.39	4.51	2.97	1.30	0.88	300	1,412	13	27
flex-M-M53-CS50015-04-09-2009	12.96	10.98	9.57	7.55	5.86	3.30	1.18	1.26	300	488	10	24
flex-M-M53-CS50015-04-09-2009	12.53	10.54	9.09	7.10	5.45	2.96	0.96	1.12	300	489	10	29
flex-M-M53-CS50015-04-09-2009	13.11	11.26	9.88	8.09	6.48	3.89	1.41	0.46	300	596	8	22
flex-M-M53-CS50015-04-09-2009	13.28	11.41	10.01	8.03	6.44	3.92	1.80	1.75	300	468	14	16
flex-M-M53-CS50015-04-09-2009	12.84	10.99	9.54	7.54	6.00	3.53	1.47	1.51	300	474	13	20

Table B.1 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	2-Layer Backcalculated Resilient Modulus (ksi)		
	0	8	12	18	24	36	60			AC	Granular	Roadbed
flex-M-M53-CS50015-04-09-2009	11.88	10.51	9.32	7.70	6.36	4.07	1.83	1.15	300	681	12	17
flex-M-M53-CS50015-04-09-2009	12.56	10.53	9.00	6.96	5.28	2.82	1.00	1.84	300	428	12	27
flex-M-M53-CS50015-04-09-2009	10.95	9.59	8.46	6.84	5.46	3.25	1.26	1.42	300	674	11	24
flex-M-M53-CS50015-04-09-2009	11.94	10.38	9.08	7.32	5.86	3.52	1.49	1.59	300	561	13	20
flex-M-M53-CS50015-04-09-2009	13.64	12.07	10.80	8.85	7.14	4.17	1.39	1.44	300	630	6	24
flex-M-M53-CS50015-04-09-2009	10.31	8.85	7.71	6.11	4.80	2.79	1.15	1.80	300	594	15	25
flex-M-I94-CS77111-04-02-2008	22.60	20.59	18.47	15.30	12.27	7.33	2.51	1.80	100	1,808	12	5
flex-M-I94-CS77111-04-02-2008	21.05	19.62	17.71	14.88	12.10	7.35	2.56	1.97	100	2,343	11	5
flex-M-I94-CS77111-04-02-2008	21.72	19.99	17.95	15.18	12.29	7.43	2.51	1.69	100	2,259	10	5
flex-M-I94-CS77111-04-02-2008	20.65	18.85	16.97	14.19	11.49	6.99	2.42	1.51	100	2,174	13	5
flex-M-I94-CS77111-04-02-2008	26.46	23.42	20.46	16.39	12.66	7.15	2.26	1.92	100	1,105	12	5

Table B.2 Backcalculated Pavement Layer Moduli for Flexible Pavement (Three – Layer System)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-Su-US2-CS27022-05-20-2008	13.09	9.28	6.93	4.76	3.50	2.10	1.04	0.69	250	759	45	31	25
flex-Su-US2-CS27022-05-20-2008	13.71	9.78	7.35	4.92	3.59	2.12	1.04	0.62	250	808	38	30	25
flex-Su-US2-CS27022-05-20-2008	13.48	10.02	8.06	5.98	4.67	2.99	1.55	0.71	250	862	58	28	18
flex-Su-US2-CS27022-05-20-2008	12.24	8.65	6.64	4.71	3.56	2.18	1.12	1.00	250	768	55	33	24
flex-Su-US2-CS27022-05-20-2008	13.93	10.12	7.78	5.47	4.09	2.52	1.40	1.53	250	1,083	27	41	19
flex-Su-US2-CS27022-05-20-2008	14.48	10.50	8.11	5.75	4.38	2.70	1.42	1.11	250	825	39	30	19
flex-N-US131-CS67017-05-01-2002	6.30	5.68	5.19	4.52	3.89	2.84	1.58	0.18	700	2,278	11	42	25
flex-N-US131-CS67017-05-01-2002	8.07	7.21	6.50	5.55	4.64	3.20	1.42	0.52	700	1,376	124	8	31
flex-N-US131-CS67017-05-01-2002	7.53	6.77	6.19	5.35	4.54	3.19	1.58	0.18	700	2,006	5	22	26
flex-N-US131-CS67017-05-01-2002	10.87	8.11	6.93	5.58	4.62	3.12	1.76	0.66	700	272	132	29	21
flex-N-US131-CS67017-05-01-2002	7.90	7.11	6.52	5.71	4.89	3.54	1.85	0.14	700	1,797	65	13	22
flex-N-US131-CS67017-05-01-2002	6.08	5.49	5.06	4.46	3.84	2.84	1.55	0.17	700	2,452	77	20	27
flex-N-US131-CS67017-05-01-2002	5.91	5.25	4.79	4.15	3.55	2.57	1.41	0.10	700	2,010	92	26	28
flex-N-US131-CS67017-05-01-2002	6.44	5.85	5.38	4.78	4.14	3.07	1.75	0.30	700	2,555	6	60	23
flex-N-US131-CS67017-05-01-2002	9.03	8.03	7.38	6.46	5.54	3.95	2.00	0.25	700	1,292	154	9	22
flex-N-US131-CS67017-05-01-2002	6.70	6.00	5.57	4.94	4.26	3.11	1.60	0.33	700	1,838	287	9	29
flex-N-US131-CS67017-05-01-2002	5.38	4.85	4.48	3.95	3.44	2.60	1.53	0.11	700	2,701	55	39	26
flex-N-US131-CS67017-05-01-2002	8.07	7.22	6.56	5.72	4.87	3.46	1.68	0.27	700	1,388	179	9	26
flex-N-US131-CS67017-05-01-2002	7.91	7.10	6.48	5.62	4.72	3.29	1.54	0.22	700	1,781	41	10	28
flex-N-US131-CS67017-05-01-2002	7.81	7.15	6.62	5.87	5.15	3.94	2.20	0.39	700	1,812	201	12	19
flex-N-US131-CS67017-05-01-2002	6.37	5.70	5.21	4.51	3.84	2.78	1.35	0.47	700	1,664	281	10	33
flex-N-US131-CS67017-05-01-2002	7.36	6.58	6.02	4.84	4.11	2.94	1.50	1.68	700	1,491	17	27	25
flex-N-US131-CS67017-05-01-2002	7.76	6.59	5.83	4.93	4.12	2.81	1.48	0.53	700	936	114	23	26

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-US131-CS67017-05-01-2002	7.73	6.64	5.92	5.09	4.29	3.05	1.60	0.33	700	868	231	18	24
flex-N-US131-CS67017-05-01-2002	9.30	7.18	6.25	5.21	4.38	3.15	1.89	0.49	700	366	153	40	20
flex-N-US131-CS67017-05-01-2002	6.03	5.43	5.00	4.45	3.85	2.92	1.73	0.32	700	2,277	78	34	23
flex-N-US131-CS67017-05-01-2002	5.84	5.24	4.76	4.20	3.58	2.65	1.46	0.43	700	2,005	158	24	27
flex-N-US131-CS67017-05-01-2002	7.44	6.56	5.91	5.09	4.33	3.15	1.82	0.23	700	1,496	13	55	21
flex-N-US131-CS67017-05-01-2002	6.07	5.40	4.87	4.22	3.57	2.59	1.45	0.35	700	1,986	13	55	26
flex-N-US131-CS67017-05-01-2002	7.87	6.66	5.90	4.89	4.07	2.84	1.66	0.28	700	1,082	6	170	22
flex-N-US131-CS67017-05-01-2002	6.15	5.50	5.03	4.38	3.81	2.86	1.64	0.23	700	1,744	173	28	24
flex-N-US131-CS67017-05-01-2002	6.78	5.94	5.35	4.60	3.89	2.71	1.37	0.25	700	1,378	158	17	29
flex-N-US131-CS67017-05-01-2002	5.91	5.30	4.83	4.26	3.71	2.81	1.57	0.44	700	1,606	388	19	26
flex-N-US131-CS67017-05-01-2002	6.19	5.56	5.09	4.42	3.82	2.81	1.55	0.19	700	2,042	90	24	25
flex-N-US131-CS67017-05-01-2002	5.88	5.40	5.01	4.48	3.91	3.03	1.77	0.35	700	2,864	91	25	23
flex-N-US131-CS67017-05-01-2002	7.55	6.55	5.97	5.23	4.52	3.45	2.02	0.31	700	915	309	27	19
flex-N-US131-CS67017-05-01-2002	7.51	6.66	6.06	5.29	4.60	3.36	1.85	0.28	700	1,282	222	17	22
flex-N-US131-CS67017-05-01-2002	6.06	5.39	4.89	4.25	3.65	2.69	1.51	0.23	700	1,773	126	29	26
flex-N-US131-CS67017-05-01-2002	6.73	5.98	5.40	4.68	3.95	2.80	1.30	0.45	700	1,366	294	9	35
flex-N-US131-CS67017-05-01-2002	7.15	6.31	5.64	4.83	4.05	2.85	1.47	0.35	700	1,438	67	20	26
flex-N-US131-CS67017-05-01-2002	7.14	6.31	5.70	4.91	4.21	3.03	1.75	0.36	700	1,637	8	81	22
flex-N-US131-CS67017-05-01-2002	6.96	6.21	5.67	4.93	4.24	3.11	1.78	0.11	700	1,881	12	46	21
flex-N-US131-CS67017-05-01-2002	6.30	5.64	5.16	4.50	3.88	2.88	1.64	0.11	700	1,989	70	29	24
flex-N-US131-CS67017-05-01-2002	6.33	5.71	5.25	4.68	4.12	3.15	1.86	0.22	700	1,779	292	23	21
flex-N-US131-CS67017-05-01-2002	6.51	5.87	5.35	4.73	4.08	3.06	1.73	0.32	700	1,885	137	23	23
flex-N-US131-CS67017-05-01-2002	8.45	7.48	6.82	6.03	5.31	3.91	2.36	0.77	700	1,244	117	25	16

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-US131-CS67017-05-01-2002	8.94	7.89	7.14	6.18	5.33	3.90	2.21	0.22	700	1,083	103	21	17
flex-N-US131-CS67017-05-01-2002	11.34	9.36	8.03	6.42	5.20	3.44	1.81	0.42	700	535	27	23	20
flex-N-US131-CS67017-05-01-2002	10.73	8.75	7.52	6.03	4.91	3.30	1.77	0.35	700	508	44	25	21
flex-N-US131-CS67017-05-01-2002	10.81	8.86	7.51	6.01	4.84	3.22	1.66	0.64	700	488	49	22	22
flex-N-US131-CS67017-05-01-2002	10.33	8.69	7.50	6.10	4.97	3.32	1.72	0.48	700	648	36	21	21
flex-N-US131-CS67017-05-01-2002	8.71	7.86	7.15	6.19	5.30	3.79	1.96	0.26	700	1,583	28	13	20
flex-N-US131-CS67017-05-01-2002	10.01	8.34	7.40	6.30	5.28	3.69	1.81	0.33	700	460	299	11	22
flex-N-US131-CS67017-05-01-2002	10.51	8.02	6.81	5.47	4.39	2.82	1.45	0.53	700	324	124	21	25
flex-N-US131-CS67017-05-01-2002	7.05	6.13	5.51	4.73	4.00	2.84	1.56	0.30	700	1,326	81	27	24
flex-N-US131-CS67017-05-01-2002	7.64	6.72	6.05	5.21	4.41	3.20	1.84	0.20	700	1,418	15	45	20
flex-N-US131-CS67017-05-01-2002	8.37	7.00	6.07	4.95	3.98	2.60	1.29	0.23	700	810	49	22	28
flex-N-US131-CS67017-05-01-2002	7.90	6.86	6.07	5.05	4.18	2.82	1.44	0.30	700	1,210	13	30	26
flex-N-US131-CS67017-05-01-2002	8.13	7.10	6.35	5.38	4.53	3.14	1.68	0.30	700	1,251	21	26	22
flex-N-US131-CS67017-05-01-2002	8.40	7.26	6.47	5.50	4.63	3.29	1.80	0.22	700	958	94	23	21
flex-N-US131-CS67017-05-01-2002	10.37	8.75	7.76	6.57	5.47	3.65	1.90	0.84	700	720	73	16	20
flex-N-US131-CS67017-05-01-2002	6.30	5.55	5.01	4.36	3.78	2.83	1.73	0.28	700	1,591	61	51	22
flex-N-US131-CS67017-05-01-2002	6.32	5.69	5.16	4.52	3.93	2.91	1.75	0.41	700	2,106	6	181	22
flex-N-US131-CS67017-05-01-2002	8.08	7.12	6.48	5.62	4.83	3.56	2.00	0.10	700	1,159	142	21	19
flex-N-US131-CS67017-05-01-2002	7.91	6.58	5.97	5.04	4.20	2.99	1.64	0.49	700	758	174	25	23
flex-N-US131-CS67017-05-01-2002	9.03	7.99	7.17	6.10	5.19	3.70	2.09	0.82	700	1,235	5	88	18
flex-N-US131-CS67017-05-01-2002	9.67	8.34	7.44	6.31	5.30	3.69	1.97	0.28	700	865	67	18	19
flex-N-US131-CS67017-05-01-2002	6.92	6.10	5.43	4.60	3.85	2.76	1.55	0.43	700	1,476	7	100	24
flex-N-US131-CS67017-05-01-2002	6.43	5.54	4.93	4.21	3.57	2.53	1.45	0.41	700	1,297	73	39	26

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-US131-CS67017-05-01-2002	10.59	9.21	8.18	6.85	5.68	3.83	1.86	0.29	700	846	49	13	20
flex-N-M55-CS77022-8-20-2001	12.52	9.56	7.69	5.56	4.25	2.77	1.62	0.74	700	354	8	88	22
flex-N-M55-CS77022-8-20-2001	14.16	10.68	8.46	6.10	4.65	2.96	1.62	1.02	700	278	14	34	22
flex-N-M55-CS77022-8-20-2001	14.32	10.88	8.49	5.92	4.45	2.77	1.53	1.49	700	276	9	43	23
flex-N-M55-CS77022-8-20-2001	11.80	9.06	7.20	5.24	4.07	2.69	1.60	1.03	700	366	9	92	23
flex-N-M55-CS77022-8-20-2001	12.57	9.67	7.71	5.62	4.37	2.87	1.61	1.25	700	330	13	44	22
flex-N-M55-CS77022-8-20-2001	13.28	10.15	7.92	5.56	4.18	2.65	1.47	1.52	700	300	9	51	24
flex-N-M55-CS77022-8-20-2001	12.30	9.26	7.27	5.27	4.09	2.73	1.53	1.44	700	293	18	42	23
flex-N-M55-CS77022-8-20-2001	11.88	8.79	6.78	4.81	3.73	2.47	1.42	1.42	700	290	14	58	25
flex-N-M55-CS77022-8-20-2001	11.93	8.95	7.04	4.96	3.81	2.48	1.43	1.25	700	319	10	70	25
flex-N-M55-CS77022-8-20-2001	11.98	8.65	6.61	4.65	3.62	2.44	1.42	1.42	700	258	16	60	25
flex-N-M55-CS77022-8-20-2001	13.00	9.57	7.30	5.15	3.95	2.59	1.45	1.61	700	248	16	43	24
flex-N-M55-CS77022-8-20-2001	13.15	9.78	7.61	5.39	4.12	2.69	1.46	1.64	700	256	19	35	24
flex-N-M55-CS77022-8-20-2001	13.18	10.48	8.40	6.23	4.88	3.31	1.97	1.32	700	355	7	93	18
flex-N-M55-CS77022-8-20-2001	13.27	10.29	8.22	6.07	4.78	3.28	1.97	1.12	700	322	8	83	18
flex-N-M55-CS77022-8-20-2001	13.57	10.16	8.03	5.93	4.69	3.20	1.94	0.89	700	276	11	65	18
flex-N-M55-CS77022-8-20-2001	13.45	9.86	7.77	5.69	4.53	3.20	1.95	0.89	700	251	13	70	18
flex-N-M55-CS77022-8-20-2001	12.98	9.74	7.68	5.70	4.57	3.27	2.01	1.11	700	278	12	83	18
flex-N-M55-CS77022-8-20-2001	12.44	9.45	7.45	5.60	4.45	3.19	2.00	0.99	700	308	10	106	18
flex-N-M55-CS77022-8-20-2001	12.42	9.34	7.43	5.50	4.40	3.15	1.96	0.98	700	298	11	97	18
flex-N-M55-CS77022-8-20-2001	13.00	9.78	7.80	5.76	4.57	3.22	1.92	1.05	700	283	13	62	19
flex-N-M55-CS77022-8-20-2001	14.85	11.27	8.93	6.52	5.09	3.37	1.92	1.17	700	256	13	37	18
flex-N-M55-CS77022-8-20-2001	16.42	12.72	10.03	7.29	5.66	3.62	1.97	1.49	700	243	12	26	18

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-M55-CS77022-8-20-2001	13.39	10.13	7.98	5.84	4.65	3.16	1.92	1.20	700	287	10	73	19
flex-N-M55-CS77022-8-20-2001	17.09	12.65	10.15	7.64	5.94	3.82	2.01	0.71	700	186	35	18	17
flex-N-M55-CS77022-8-20-2001	13.23	9.97	7.83	5.73	4.57	3.13	1.94	1.15	700	285	9	94	18
flex-N-M55-CS77022-8-20-2001	14.37	10.43	8.00	5.76	4.54	3.14	1.83	1.44	700	211	15	47	19
flex-N-M55-CS77022-8-20-2001	13.30	9.81	7.82	5.76	4.58	3.21	1.86	1.14	700	250	20	44	19
flex-N-M55-CS77022-8-20-2001	16.85	12.57	10.11	7.49	5.88	3.82	2.04	0.97	700	200	29	20	17
flex-N-M55-CS77022-8-20-2001	12.43	9.38	7.40	5.47	4.32	2.98	1.81	0.97	700	309	11	82	20
flex-N-M55-CS77022-8-20-2001	15.14	11.71	9.38	7.02	5.52	3.61	1.92	1.29	700	253	26	22	18
flex-N-M55-CS77022-8-20-2001	15.10	11.73	9.44	7.09	5.60	3.69	1.97	1.32	700	257	27	22	18
flex-N-M55-CS77022-8-20-2001	12.95	9.97	8.03	5.95	4.79	3.35	1.98	1.28	700	309	13	57	18
flex-N-M55-CS77022-8-20-2001-(2)	12.52	9.56	7.69	5.56	4.25	2.77	1.62	0.74	701	354	8	88	22
flex-N-M55-CS77022-8-20-2001-(2)	14.16	10.68	8.46	6.10	4.65	2.96	1.62	1.02	702	278	14	34	22
flex-N-M55-CS77022-8-20-2001-(2)	14.32	10.88	8.49	5.92	4.45	2.77	1.53	1.49	703	276	9	43	23
flex-N-M55-CS77022-8-20-2001-(2)	11.80	9.06	7.20	5.24	4.07	2.69	1.60	1.03	704	366	9	92	23
flex-N-M55-CS77022-8-20-2001-(2)	12.57	9.67	7.71	5.62	4.37	2.87	1.61	1.25	705	330	13	44	22
flex-N-M55-CS77022-8-20-2001-(2)	13.28	10.15	7.92	5.56	4.18	2.65	1.47	1.52	706	300	9	51	24
flex-N-M55-CS77022-8-20-2001-(2)	12.30	9.26	7.27	5.27	4.09	2.73	1.53	1.44	707	293	18	42	23
flex-N-M55-CS77022-8-20-2001-(2)	11.88	8.79	6.78	4.81	3.73	2.47	1.42	1.42	708	290	14	58	25
flex-N-M55-CS77022-8-20-2001-(2)	11.93	8.95	7.04	4.96	3.81	2.48	1.43	1.25	709	319	10	70	25
flex-N-M55-CS77022-8-20-2001-(2)	11.98	8.65	6.61	4.65	3.62	2.44	1.42	1.42	710	258	16	60	25
flex-N-M55-CS77022-8-20-2001-(2)	13.00	9.57	7.30	5.15	3.95	2.59	1.45	1.61	711	248	16	43	24
flex-N-M55-CS77022-8-20-2001-(2)	13.15	9.78	7.61	5.39	4.12	2.69	1.46	1.64	712	256	19	35	24
flex-N-M55-CS77022-8-20-2001-(2)	13.18	10.48	8.40	6.23	4.88	3.31	1.97	1.32	713	354	7	91	18

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-M55-CS77022-8-20-2001-(2)	13.27	10.29	8.22	6.07	4.78	3.28	1.97	1.12	714	322	8	83	18
flex-N-M55-CS77022-8-20-2001-(2)	13.11	10.05	8.02	5.95	4.72	3.30	2.01	1.02	715	307	10	82	18
flex-N-M55-CS77022-8-20-2001-(2)	13.57	10.16	8.03	5.93	4.69	3.20	1.93	0.90	716	275	11	63	19
flex-N-M55-CS77022-8-20-2001-(2)	13.45	9.86	7.77	5.69	4.53	3.20	1.94	0.92	717	250	13	68	18
flex-N-M55-CS77022-8-20-2001-(2)	12.98	9.74	7.68	5.70	4.57	3.27	2.01	1.11	718	276	12	80	18
flex-N-M55-CS77022-8-20-2001-(2)	12.44	9.45	7.45	5.60	4.45	3.19	2.00	0.99	719	307	10	106	18
flex-N-M55-CS77022-8-20-2001-(2)	12.42	9.34	7.43	5.50	4.40	3.15	1.96	0.98	720	298	11	97	18
flex-N-M55-CS77022-8-20-2001-(2)	13.00	9.78	7.80	5.76	4.57	3.22	1.92	1.05	721	283	13	62	19
flex-N-M55-CS77022-8-20-2001-(2)	14.85	11.27	8.93	6.52	5.09	3.37	1.93	1.12	722	258	12	39	18
flex-N-M55-CS77022-8-20-2001-(2)	16.42	12.72	10.03	7.29	5.66	3.62	1.97	1.49	723	243	12	26	18
flex-N-M55-CS77022-8-20-2001-(2)	13.39	10.13	7.98	5.84	4.65	3.16	1.92	1.20	724	287	10	73	19
flex-N-M55-CS77022-8-20-2001-(2)	17.09	12.65	10.15	7.64	5.94	3.82	2.01	0.71	725	186	35	18	17
flex-N-M55-CS77022-8-20-2001-(2)	13.30	10.00	7.90	5.80	4.60	3.19	1.94	1.01	726	280	10	78	18
flex-N-M55-CS77022-8-20-2001-(2)	14.13	10.38	8.03	5.82	4.54	3.14	1.89	1.07	727	237	11	68	19
flex-N-M55-CS77022-8-20-2001-(2)	14.18	10.46	8.16	5.93	4.64	3.16	1.90	0.93	728	245	10	64	19
flex-N-M55-CS77022-8-20-2001-(2)	14.37	10.43	8.00	5.76	4.54	3.14	1.87	1.28	729	217	13	57	19
flex-N-M55-CS77022-8-20-2001-(2)	13.30	9.81	7.82	5.76	4.58	3.21	1.86	1.14	730	250	20	44	19
flex-N-M55-CS77022-8-20-2001-(2)	16.85	12.57	10.11	7.49	5.88	3.82	2.04	0.97	731	200	29	20	17
flex-N-M55-CS77022-8-20-2001-(2)	12.43	9.38	7.40	5.47	4.32	2.98	1.81	0.97	732	309	11	82	20
flex-N-M55-CS77022-8-20-2001-(2)	15.14	11.71	9.38	7.02	5.52	3.61	1.92	1.29	733	253	26	22	18
flex-N-M55-CS77022-8-20-2001-(2)	15.10	11.73	9.44	7.09	5.60	3.69	1.98	1.27	734	260	25	23	18
flex-N-M55-CS77022-8-20-2001-(2)	12.95	9.97	8.03	5.95	4.79	3.35	2.01	1.19	735	313	12	66	18
flex-N-I75-CS69014-11-12-1997	16.77	12.56	10.31	8.15	6.26	3.90	2.05	1.11	700	261	50	16	18

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-I75-CS69014-11-12-1997	10.12	7.80	6.57	5.31	4.17	2.80	1.61	1.11	700	557	61	36	24
flex-N-I75-CS69014-11-12-1997	7.40	6.22	5.31	4.37	3.46	2.32	1.38	0.70	700	370	25	65	26
flex-N-I75-CS69014-11-12-1997	11.26	8.03	6.30	4.69	3.58	2.44	1.50	0.79	700	805	23	28	21
flex-N-I75-CS69014-11-12-1997	9.17	5.79	4.65	3.58	2.76	1.77	1.14	0.22	700	1,397	70	16	36
flex-N-I75-CS69014-11-12-1997	8.03	6.85	5.98	4.88	3.90	2.44	1.06	0.48	700	1,016	50	30	36
flex-N-I75-CS69014-11-12-1997	10.67	8.35	6.46	4.72	3.31	1.89	0.98	0.50	700	1,652	79	20	29
flex-N-I75-CS69014-11-12-1997	7.91	6.50	5.47	4.29	3.31	2.09	1.02	0.78	700	966	68	16	29
flex-N-I75-CS69014-11-12-1997	11.69	8.58	7.09	5.51	4.25	2.68	1.57	0.35	700	1,881	34	38	30
flex-N-I75-CS69014-11-12-1997	9.21	8.15	7.24	6.02	4.88	3.11	1.50	0.89	700	853	50	30	32
flex-N-I75-CS69014-11-12-1997	12.64	7.99	6.22	4.29	3.03	1.73	0.91	0.45	700	957	154	12	44
flex-N-I75-CS69014-11-12-1997	7.44	6.26	5.31	4.29	3.27	2.05	1.06	0.23	700	1,725	56	25	38
flex-N-I75-CS69014-11-12-1997	11.50	9.49	7.99	6.18	4.72	2.72	1.22	1.03	700	605	21	35	38
flex-N-I75-CS69014-11-12-1997	9.84	8.39	7.13	5.59	4.41	2.76	1.50	0.59	700	934	36	39	21
flex-N-I75-CS69014-11-12-1997	7.76	6.77	5.98	5.04	4.09	2.80	1.38	1.30	700	323	68	23	33
flex-N-I75-CS69014-11-12-1997	9.80	8.39	7.32	5.98	4.76	3.15	1.61	0.55	700	1,526	70	35	27
flex-N-I75-CS69014-11-12-1997	10.67	8.07	6.57	5.12	3.94	2.56	1.38	0.82	700	322	146	16	44
flex-N-I75-CS69014-11-12-1997	8.66	7.72	6.69	5.63	4.57	3.15	1.77	1.81	700	450	12	145	21
flex-N-I75-CS69014-11-12-1997	7.05	6.06	5.35	4.53	3.62	2.44	1.34	0.68	700	366	57	33	28
flex-N-I75-CS69014-11-12-1997	6.89	5.94	5.28	4.37	3.54	2.44	1.30	1.17	700	724	77	36	27
flex-N-I75-CS69014-11-12-1997	7.01	5.98	5.24	4.41	3.54	2.40	1.38	0.19	700	771	88	34	28
flex-N-I75-CS69014-11-12-1997	6.85	5.87	5.16	4.33	3.46	2.40	1.38	1.25	700	209	94	33	29
flex-N-I75-CS69014-11-12-1997	8.58	7.01	5.94	4.53	3.54	2.28	1.14	0.89	700	1,440	11	398	21
flex-N-I75-CS69014-11-12-1997	8.07	6.73	5.83	4.76	3.74	2.32	0.91	0.44	700	1,573	11	324	22

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-I75-CS69014-11-12-1997	7.83	6.34	5.31	4.13	3.11	1.89	0.91	0.72	700	874	45	68	30
flex-N-I75-CS69014-11-12-1997	8.50	6.85	5.67	4.33	3.31	1.97	1.10	1.02	700	932	20	49	32
flex-N-I75-CS69014-11-12-1997	6.85	5.87	5.16	4.17	3.35	2.17	1.02	1.19	700	510	14	101	22
flex-N-I75-CS69014-11-12-1997	10.16	7.80	6.14	4.53	3.31	1.85	0.94	0.55	700	1,562	35	43	36
flex-N-I75-CS69014-11-12-1997	7.52	6.34	5.39	4.37	3.35	1.89	0.79	0.16	700	1,382	90	35	36
flex-N-I75-CS69014-11-12-1997	9.65	7.95	6.89	5.67	4.53	3.15	1.81	0.82	700	268	107	36	33
flex-N-I75-CS69014-11-12-1997	7.32	6.22	5.51	4.65	3.78	2.64	1.46	0.75	700	1,596	32	58	26
flex-N-I75-CS69014-11-12-1997	11.18	8.11	6.61	5.04	3.86	2.48	1.38	0.61	700	1,580	18	66	32
flex-N-I75-CS69014-11-12-1997	8.74	6.93	5.83	4.80	3.78	2.52	1.42	0.93	700	1,171	12	100	32
flex-N-I75-CS69014-11-12-1997	8.43	6.77	5.79	4.65	3.74	2.52	1.38	0.54	700	1,035	13	127	36
flex-N-I75-CS69014-08-03-1999	8.35	6.38	5.00	3.78	2.83	1.81	0.98	1.01	700	520	42	42	35
flex-N-I75-CS69014-08-03-1999	7.64	5.71	4.41	3.43	2.52	1.73	1.02	1.65	700	531	39	78	34
flex-N-I75-CS69014-08-03-1999	7.32	5.59	4.53	3.58	2.72	1.89	1.10	1.16	700	625	50	62	32
flex-N-I75-CS69014-08-03-1999	7.64	5.94	4.80	3.82	2.91	2.01	1.18	1.14	700	657	41	64	29
flex-N-I75-CS69014-08-03-1999	7.68	5.75	4.72	3.66	2.87	1.97	1.26	1.09	700	642	31	126	28
flex-N-I75-CS69014-08-03-1999	8.35	6.02	4.65	3.66	2.83	2.05	1.26	1.37	700	380	52	77	28
flex-N-I75-CS69014-08-03-1999	7.91	5.87	4.65	3.70	2.80	1.97	1.14	1.49	700	458	60	54	30
flex-N-I75-CS69014-08-03-1999	9.25	6.97	5.55	4.33	3.27	2.20	1.30	1.12	700	475	35	54	27
flex-N-I75-CS69014-08-03-1999	10.63	8.07	6.46	5.08	3.90	2.60	1.46	0.99	700	386	43	31	24
flex-N-I75-CS69014-08-03-1999	9.41	7.32	6.02	4.88	3.82	2.72	1.65	1.03	700	526	39	54	21
flex-N-I75-CS69014-08-03-1999	8.86	6.61	5.28	4.21	3.31	2.20	1.26	1.21	700	404	65	37	28
flex-N-I75-CS69014-08-03-1999	9.33	6.93	5.43	4.17	3.15	2.05	1.14	1.03	700	406	45	38	30
flex-N-I75-CS69014-08-03-1999	9.65	6.97	5.28	4.02	2.95	1.97	1.06	1.65	700	316	50	37	32

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-I75-CS69014-08-03-1999	9.72	6.73	4.96	3.62	2.60	1.69	0.91	1.64	700	273	46	40	37
flex-N-I75-CS69014-08-03-1999	8.43	6.30	5.04	3.94	3.03	2.01	1.14	0.92	700	464	54	42	30
flex-N-I75-CS69014-08-03-1999	8.46	6.02	4.69	3.50	2.60	1.69	0.91	0.89	700	359	59	38	37
flex-N-I75-CS69014-08-03-1999	7.28	5.31	4.17	3.35	2.52	1.69	0.98	1.74	700	478	67	53	35
flex-N-I75-CS69014-08-03-1999	7.17	5.28	4.25	3.31	2.44	1.61	0.91	1.28	700	565	56	51	38
flex-N-I75-CS69014-08-03-1999	7.28	5.55	4.57	3.62	2.83	1.93	1.14	0.83	700	631	56	57	30
flex-N-I75-CS69014-08-03-1999	7.20	5.59	4.57	3.78	2.95	2.09	1.18	1.34	700	568	91	40	30
flex-N-I75-CS69014-08-03-1999	7.32	5.51	4.53	3.66	2.95	2.05	1.18	0.71	700	475	98	42	30
flex-N-I75-CS69014-08-03-1999	8.74	6.26	4.96	3.86	2.95	2.01	1.10	0.91	700	334	72	37	31
flex-N-I75-CS69014-08-03-1999	8.43	6.50	5.31	4.17	3.35	2.17	1.18	0.88	700	508	68	30	29
flex-N-I75-CS69014-08-03-1999	10.39	7.99	6.46	5.04	3.78	2.36	1.14	0.91	700	411	52	18	29
flex-N-I75-CS69014-08-03-1999	10.08	7.52	5.71	4.29	3.07	1.89	0.98	1.57	700	377	36	31	33
flex-N-I75-CS69014-08-03-1999	11.57	8.43	6.54	4.92	3.66	2.32	1.22	0.95	700	286	43	25	28
flex-N-I75-CS69014-08-03-1999	10.51	7.76	6.18	4.88	3.78	2.72	1.61	1.08	700	331	45	46	22
flex-N-I75-CS69014-08-03-1999	8.70	6.42	5.20	4.17	3.31	2.32	1.42	1.05	700	405	61	52	25
flex-N-I75-CS69014-08-03-1999	9.84	6.93	5.28	4.02	3.07	2.13	1.22	1.17	700	278	51	47	28
flex-N-I75-CS69014-08-03-1999	9.37	7.09	5.79	4.72	3.74	2.64	1.50	0.98	700	370	78	31	23
flex-N-I75-CS69014-08-03-1999	10.04	7.40	5.94	4.72	3.70	2.56	1.42	0.88	700	308	69	30	24
flex-N-I75-CS69014-08-03-1999	10.31	7.17	5.55	4.21	3.19	2.13	1.26	1.12	700	286	43	46	27
flex-N-I75-CS69014-08-03-1999	7.68	5.31	3.98	3.03	2.24	1.54	0.87	1.60	700	338	65	57	39
flex-N-I75-CS69014-08-03-1999	9.06	6.38	5.04	3.94	3.07	2.13	1.26	0.89	700	311	62	49	28
flex-N-I75-CS69014-08-03-1999	9.88	6.77	5.16	3.90	2.99	2.13	1.26	0.97	700	260	48	58	27
flex-N-I75-CS69014-08-03-1999	9.21	6.54	5.04	3.86	2.99	1.93	1.06	1.11	700	297	65	34	32

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-I75-CS69014-08-03-1999	7.68	5.31	4.13	3.19	2.44	1.57	0.94	1.82	700	381	63	57	37
flex-N-I75-CS69014-08-03-1999	9.21	6.54	5.00	3.82	2.87	1.89	1.02	1.19	700	302	61	36	33
flex-N-I75-CS69014-08-03-1999	9.49	7.09	5.75	4.53	3.50	2.40	1.34	0.78	700	380	60	33	26
flex-N-I75-CS69014-08-03-1999	10.31	7.17	5.51	4.06	2.95	1.85	0.98	0.81	700	282	46	32	34
flex-N-I75-CS69014-08-03-1999	10.39	7.44	5.71	4.33	3.39	2.24	1.26	1.10	700	271	53	35	27
flex-N-I75-CS69014-08-03-1999	9.21	6.34	4.80	3.50	2.68	1.81	1.02	0.86	700	283	52	50	33
flex-N-I75-CS69014-08-03-1999	8.74	5.91	4.49	3.39	2.56	1.73	1.06	1.38	700	309	48	69	33
flex-N-I75-CS69014-08-03-1999	9.09	6.73	5.35	4.02	3.03	1.89	1.06	0.84	700	456	36	42	31
flex-N-I75-CS69014-08-03-1999	8.58	5.87	4.45	3.23	2.40	1.50	0.79	0.68	700	295	62	37	42
flex-N-I75-CS69014-08-03-1999	7.99	5.59	4.17	2.91	2.05	1.22	0.63	0.97	700	381	48	43	52
flex-N-I75-CS69014-08-03-1999	7.83	5.59	4.33	3.15	2.28	1.50	0.79	1.31	700	407	56	45	43
flex-N-I75-CS69014-08-03-1999	7.28	5.20	4.13	2.99	2.20	1.38	0.79	0.60	700	533	41	64	43
flex-N-I75-CS69014-08-03-1999	7.52	5.51	4.41	3.35	2.56	1.69	0.98	0.62	700	515	51	59	35
flex-N-I75-CS69014-08-03-1999	7.99	5.71	4.41	3.35	2.52	1.69	0.98	1.02	700	406	52	59	35
flex-N-I75-CS69014-08-03-1999	7.28	5.31	4.17	3.15	2.32	1.54	0.87	0.98	700	509	50	58	39
flex-N-I75-CS69014-08-03-1999	7.28	5.59	4.57	3.43	2.60	1.77	0.98	1.01	700	630	47	56	35
flex-N-I75-CS69014-08-03-1999	7.95	6.02	4.92	3.86	2.95	1.97	1.14	0.90	700	585	45	51	30
flex-N-I75-CS69014-08-03-1999	9.02	6.61	5.24	4.02	3.03	2.09	1.14	1.20	700	367	57	38	30
flex-N-I75-CS69014-08-03-1999	10.20	7.48	5.98	4.57	3.50	2.36	1.38	0.58	700	366	39	44	25
flex-N-I75-CS69014-08-03-1999	10.08	7.28	5.75	4.41	3.35	2.28	1.34	0.89	700	344	41	47	26
flex-N-I75-CS69014-08-03-1999	7.83	5.75	4.57	3.46	2.64	1.77	1.02	0.60	700	475	50	56	33
flex-N-I75-CS69014-08-03-1999	8.90	6.73	5.39	4.25	3.31	2.32	1.46	1.04	700	502	33	84	24
flex-N-I75-CS69014-08-03-1999	8.15	6.18	5.04	4.02	3.23	2.40	1.50	0.68	700	484	54	76	23

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-I75-CS69014-08-03-1999	8.46	6.54	5.24	4.09	3.11	2.09	1.26	1.09	700	613	26	85	27
flex-N-I75-CS69014-08-03-1999	7.52	5.51	4.41	3.43	2.64	1.81	1.10	0.97	700	512	48	73	31
flex-N-I75-CS69014-08-03-1999	7.05	5.39	4.53	3.58	2.91	1.89	1.10	1.43	700	678	70	45	32
flex-N-I75-CS69014-08-03-1999-(2)	6.57	5.00	3.86	2.91	2.20	1.46	0.91	1.30	700	728	29	179	39
flex-N-I75-CS69014-08-03-1999-(2)	6.77	4.96	3.86	2.87	2.13	1.50	0.91	1.11	700	582	38	132	39
flex-N-I75-CS69014-08-03-1999-(2)	5.98	4.37	3.50	2.76	2.13	1.50	0.98	1.56	700	733	43	200	36
flex-N-I75-CS69014-08-03-1999-(2)	7.36	5.59	4.45	3.54	2.72	1.93	1.22	1.37	700	637	36	126	29
flex-N-I75-CS69014-08-03-1999-(2)	7.05	5.31	4.25	3.43	2.64	1.89	1.22	1.54	700	664	38	144	29
flex-N-I75-CS69014-08-03-1999-(2)	8.03	5.94	4.61	3.58	2.72	1.89	1.14	1.34	700	473	43	77	31
flex-N-I75-CS69014-08-03-1999-(2)	7.48	5.59	4.45	3.43	2.56	1.73	1.10	1.26	700	671	23	211	32
flex-N-I75-CS69014-08-03-1999-(2)	7.64	5.83	4.69	3.70	2.87	2.01	1.30	1.22	700	677	27	176	27
flex-N-I75-CS69014-08-03-1999-(2)	9.06	6.61	5.31	4.13	3.27	2.28	1.46	1.06	700	433	39	82	24
flex-N-I75-CS69014-08-03-1999-(2)	7.17	5.43	4.33	3.35	2.64	1.73	1.02	1.10	700	600	52	61	34
flex-N-I75-CS69014-08-03-1999-(2)	8.50	6.46	5.20	4.02	3.03	1.97	1.14	0.96	700	576	33	56	30
flex-N-I75-CS69014-08-03-1999-(2)	7.20	5.31	4.13	3.15	2.36	1.46	0.87	1.79	700	616	36	76	40
flex-N-I75-CS69014-08-03-1999-(2)	6.81	5.00	3.90	2.95	2.17	1.30	0.75	1.74	700	663	37	70	46
flex-N-I75-CS69014-08-03-1999-(2)	7.60	5.63	4.29	3.15	2.24	1.42	0.79	1.28	700	526	35	62	43
flex-N-I75-CS69014-08-03-1999-(2)	7.13	5.24	4.13	3.15	2.40	1.61	0.98	0.95	700	568	42	90	35
flex-N-I75-CS69014-08-03-1999-(2)	6.10	4.61	3.66	2.91	2.20	1.57	0.91	1.57	700	631	75	69	38
flex-N-I75-CS69014-08-03-1999-(2)	6.73	4.84	3.82	2.83	2.13	1.34	0.79	1.09	700	585	46	74	44
flex-N-I75-CS69014-08-03-1999-(2)	7.60	5.55	4.37	3.39	2.56	1.65	0.94	1.27	700	488	57	50	37
flex-N-I75-CS69014-08-03-1999-(2)	6.26	4.45	3.54	2.72	2.09	1.38	0.83	1.24	700	555	66	76	42
flex-N-I75-CS69014-08-03-1999-(2)	7.28	5.43	4.33	3.43	2.56	1.69	0.94	1.37	700	551	62	46	37

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-I75-CS69014-08-03-1999-(2)	7.44	5.51	4.53	3.58	2.72	1.85	1.06	1.18	700	544	63	49	33
flex-N-I75-CS69014-08-03-1999-(2)	7.91	5.94	4.80	3.78	2.95	2.01	1.26	1.27	700	585	37	87	28
flex-N-I75-CS69014-08-03-1999-(2)	6.89	4.84	3.74	2.76	2.05	1.30	0.75	0.93	700	481	54	65	46
flex-N-I75-CS69014-08-03-1999-(2)	7.17	5.16	4.06	3.11	2.40	1.57	0.94	1.30	700	490	57	66	37
flex-N-I75-CS69014-08-03-1999-(2)	9.21	6.69	5.16	3.74	2.68	1.65	0.91	0.83	700	414	33	45	37
flex-N-I75-CS69014-08-03-1999-(2)	8.86	6.54	5.12	4.02	3.23	2.36	1.46	1.03	700	370	52	72	24
flex-N-I75-CS69014-08-03-1999-(2)	7.64	5.83	4.72	3.78	2.91	1.97	1.14	1.13	700	585	56	49	30
flex-N-I75-CS69014-08-03-1999-(2)	8.19	6.02	4.84	3.78	2.91	1.97	1.18	1.06	700	479	48	58	29
flex-N-I75-CS69014-08-03-1999-(2)	7.87	5.87	4.69	3.70	2.87	1.97	1.22	1.30	700	529	44	75	29
flex-N-I75-CS69014-08-03-1999-(2)	8.86	6.54	5.20	4.09	3.23	2.20	1.30	0.97	700	385	59	45	27
flex-N-I75-CS69014-08-03-1999-(2)	7.09	5.16	4.09	3.19	2.40	1.57	0.94	1.55	700	561	49	70	37
flex-N-I75-CS69014-08-03-1999-(2)	9.33	6.81	5.43	4.17	3.11	2.01	1.14	1.13	700	419	41	41	30
flex-N-I75-CS69014-08-03-1999-(2)	7.83	5.31	4.09	2.99	2.09	1.26	0.71	1.69	700	417	44	53	47
flex-N-I75-CS69014-08-03-1999-(2)	7.48	5.00	3.66	2.44	1.69	0.98	0.51	0.74	700	352	51	49	63
flex-N-I75-CS69014-08-03-1999-(2)	7.01	5.00	3.90	3.03	2.28	1.61	1.02	1.52	700	511	44	122	34
flex-N-I75-CS69014-08-03-1999-(2)	7.60	5.59	4.37	3.43	2.68	1.89	1.14	1.10	700	446	58	70	30
flex-N-I75-CS69014-08-03-1999-(2)	9.88	7.17	5.55	4.17	3.19	2.09	1.22	0.97	700	350	38	47	28
flex-N-I75-CS69014-08-03-1999-(2)	8.50	6.18	4.76	3.54	2.60	1.57	0.87	1.18	700	442	40	42	39
flex-N-I75-CS69014-08-03-1999-(2)	9.76	7.01	5.47	4.13	3.19	2.09	1.18	0.76	700	320	50	38	29
flex-N-I75-CS69014-08-03-1999-(2)	9.09	6.73	5.39	4.25	3.31	2.24	1.30	0.92	700	393	56	41	27
flex-N-I75-CS69014-08-03-1999-(2)	8.62	6.18	4.76	3.62	2.72	1.77	1.02	1.20	700	385	47	50	33
flex-N-I75-CS69014-08-03-1999-(2)	8.62	5.98	4.57	3.43	2.64	1.77	1.14	1.71	700	374	36	100	31
flex-N-I75-CS69014-08-03-1999-(2)	8.58	6.10	4.69	3.66	2.83	1.97	1.26	1.71	700	378	42	87	28

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-I75-CS69014-08-03-1999-(2)	7.95	5.16	3.74	2.60	1.81	1.10	0.63	1.22	700	321	45	63	53
flex-N-I75-CS69014-08-03-1999-(2)	7.01	4.88	3.74	2.64	1.89	1.14	0.67	0.96	700	536	37	88	52
flex-N-I75-CS69014-08-03-1999-(2)	7.48	5.04	3.74	2.72	1.93	1.26	0.75	1.44	700	398	45	85	47
flex-N-I75-CS69014-08-03-1999-(2)	5.79	4.17	3.35	2.52	1.89	1.30	0.79	0.83	700	696	53	120	45
flex-N-I75-CS69014-08-03-1999-(2)	7.20	5.00	3.78	2.76	2.01	1.30	0.79	1.25	700	474	41	98	45
flex-N-I75-CS69014-08-03-1999-(2)	6.81	4.76	3.66	2.72	2.01	1.30	0.79	1.34	700	520	46	93	45
flex-N-I75-CS69014-08-03-1999-(2)	6.61	4.61	3.46	2.52	1.81	1.22	0.75	1.21	700	525	39	142	47
flex-N-I75-CS69014-08-03-1999-(2)	7.76	5.55	4.45	3.35	2.52	1.65	0.98	0.99	700	501	44	68	36
flex-N-I75-CS69014-08-03-1999-(2)	7.36	5.24	4.13	3.11	2.36	1.57	0.91	0.58	700	448	61	59	39
flex-N-I75-CS69014-08-03-1999-(2)	8.66	6.10	4.80	3.62	2.72	1.89	1.22	1.32	700	447	28	144	29
flex-N-I75-CS69014-08-03-1999-(2)	8.15	6.02	4.80	3.70	2.76	1.85	1.14	1.29	700	573	28	106	31
flex-N-I75-CS69014-08-03-1999-(2)	8.62	6.46	5.12	4.02	2.99	2.01	1.22	1.51	700	544	30	80	29
flex-N-I75-CS69014-08-03-1999-(2)	9.06	6.61	5.20	3.90	3.03	2.09	1.26	0.55	700	402	39	68	28
flex-N-I75-CS69014-08-03-1999-(2)	7.01	5.16	4.09	3.11	2.32	1.50	0.91	1.27	700	648	33	99	38
flex-N-I75-CS69014-08-03-1999-(2)	7.60	5.67	4.65	3.66	2.83	2.01	1.22	0.88	700	553	51	71	29
flex-N-I75-CS69014-08-03-1999-(2)	7.17	5.31	4.29	3.39	2.60	1.89	1.22	1.22	700	618	37	156	29
flex-N-I75-CS69014-08-03-1999-(2)	6.61	4.76	3.86	3.03	2.36	1.61	1.06	1.98	700	649	43	144	33
flex-N-I75-CS69014-08-03-1999-(2)	7.20	5.39	4.37	3.39	2.60	1.77	1.14	1.20	700	723	26	213	31
flex-N-I75-CS69014-11-23-1997	14.88	12.56	10.67	8.54	6.69	4.21	2.13	0.51	700	697	11	23	18
flex-N-I75-CS69014-11-23-1997	7.87	6.61	5.71	4.69	3.82	2.60	1.50	0.51	700	1,285	31	58	26
flex-N-I75-CS69014-11-23-1997	7.68	6.30	5.35	4.37	3.50	2.40	1.42	0.64	700	1,107	37	68	28
flex-N-I75-CS69014-11-23-1997	12.36	9.29	7.64	5.79	4.45	2.91	1.73	0.66	700	444	23	51	22
flex-N-I75-CS69014-11-23-1997	11.46	9.29	7.87	6.18	4.88	3.19	1.77	0.24	700	686	23	36	21

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-I75-CS69014-11-23-1997	8.39	7.05	5.98	4.57	3.58	2.36	1.34	0.93	700	1,076	14	176	28
flex-N-I75-CS69014-11-23-1997	8.11	6.85	5.83	4.45	3.54	2.36	1.38	1.03	700	1,138	13	264	28
flex-N-I75-CS69014-11-23-1997	9.53	7.52	6.18	4.84	3.82	2.36	1.22	0.96	700	625	52	25	31
flex-N-I75-CS69014-11-23-1997	8.50	7.40	6.69	5.79	4.80	3.50	2.13	0.68	700	1,903	11	245	18
flex-N-I75-CS69014-11-23-1997	10.31	8.39	7.13	5.67	4.53	2.99	1.65	0.34	700	734	35	32	23
flex-N-I75-CS69014-11-23-1997	8.11	6.65	5.59	4.33	3.31	2.09	1.14	0.32	700	1,086	14	140	33
flex-N-I75-CS69014-11-23-1997	7.91	6.38	5.43	4.25	3.27	2.09	1.10	0.35	700	1,017	32	44	34
flex-N-I75-CS69014-11-23-1997	10.98	8.46	6.85	5.12	3.86	2.40	1.34	0.41	700	534	23	46	28
flex-N-I75-CS69014-11-23-1997	6.77	5.43	4.57	3.70	2.87	1.85	0.94	0.83	700	1,004	78	32	41
flex-N-I75-CS69014-11-23-1997	6.85	5.75	4.92	4.06	3.19	2.13	1.14	0.74	700	1,438	38	46	34
flex-N-I75-CS69014-11-23-1997	6.77	5.59	4.76	3.90	3.03	2.05	1.14	0.84	700	1,320	36	63	33
flex-N-I75-CS69014-11-23-1997	7.91	6.30	5.39	4.29	3.43	2.32	1.30	0.24	700	820	61	39	29
flex-N-I75-CS69014-11-23-1997	9.41	7.87	6.77	5.67	4.53	3.19	1.77	0.84	700	890	54	28	22
flex-N-I75-CS69014-11-23-1997	9.13	7.68	6.65	5.55	4.45	3.15	1.77	0.73	700	983	47	32	22
flex-N-I75-CS69014-11-23-1997	10.31	8.58	7.24	5.83	4.53	2.99	1.65	0.66	700	881	17	54	23
flex-N-I75-CS69014-11-23-1997	10.16	7.91	6.54	5.20	4.06	2.80	1.61	0.68	700	536	44	41	24
flex-N-I75-CS69014-11-23-1997	10.87	8.39	6.73	4.96	3.58	2.05	0.91	0.70	700	486	37	19	39
flex-N-I75-CS69014-11-23-1997	8.58	6.57	5.39	4.13	3.15	2.01	1.10	0.49	700	648	44	43	34
flex-N-I75-CS69014-11-23-1997	8.11	6.73	5.79	4.76	3.66	2.36	1.30	1.05	700	1,398	9	370	30
flex-N-I75-CS69014-11-23-1997	10.98	7.48	5.83	4.37	3.31	2.13	1.26	1.42	700	293	45	46	30
flex-N-I75-CS69014-11-23-1997	8.39	7.01	5.98	4.80	3.78	2.60	1.50	0.57	700	1,095	20	91	25
flex-N-I75-CS69014-11-23-1997	6.73	5.67	4.88	3.98	3.15	2.05	1.02	0.41	700	1,447	51	30	37
flex-N-I75-CS69014-11-23-1997	9.92	7.52	5.83	4.29	3.07	1.73	0.79	1.06	700	458	43	23	44

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-I75-CS69014-11-23-1997	7.09	6.06	5.24	4.41	3.46	2.24	0.98	0.94	700	1,465	77	14	41
flex-N-I75-CS69014-11-23-1997	10.16	7.87	6.10	4.49	3.31	1.93	0.94	1.22	700	482	36	27	37
flex-N-I75-CS69014-11-23-1997	11.30	8.70	7.13	5.59	4.21	2.60	1.46	1.38	700	572	22	41	25
flex-N-I75-CS69014-11-23-1997	9.88	6.81	5.12	3.70	2.72	1.65	0.91	1.01	700	317	48	41	40
flex-N-I75-CS69014-11-23-1997	10.94	7.76	5.94	4.13	3.19	1.97	1.02	1.44	700	285	49	32	36
flex-N-I75-CS69014-11-23-1997	7.76	6.02	5.08	4.02	3.07	1.93	0.94	0.71	700	736	77	25	40
flex-N-I75-CS69014-11-23-1997	9.92	7.52	6.14	4.88	3.70	2.32	1.30	1.58	700	558	39	36	29
flex-N-I75-CS69014-11-23-1997	12.01	9.09	7.13	5.28	3.90	2.36	1.34	0.96	700	445	19	49	28
flex-N-I75-CS69014-11-23-1997	8.74	7.13	5.98	4.76	3.78	2.56	1.50	0.45	700	874	28	66	25
flex-N-I75-CS69014-11-23-1997	7.24	6.18	5.31	4.29	3.35	2.20	1.22	0.57	700	1,560	10	397	31
flex-N-I75-CS69014-11-23-1997	9.21	7.36	6.06	4.65	3.58	2.20	1.14	0.54	700	726	34	33	32
flex-N-I75-CS69014-11-23-1997	7.60	6.22	5.24	4.17	3.15	2.05	1.10	0.89	700	1,118	23	66	34
flex-N-I75-CS69014-11-23-1997	10.71	8.74	7.24	5.63	4.25	2.56	1.30	0.60	700	776	14	40	28
flex-N-I75-CS69014-11-23-1997	9.53	7.68	6.38	5.12	3.98	2.64	1.38	0.79	700	650	55	25	27
flex-N-I75-CS69014-11-23-1997	8.27	6.85	5.83	4.72	3.66	2.44	1.34	0.74	700	1,090	25	52	28
flex-N-I75-CS69014-11-23-1997	8.43	6.93	5.94	4.84	3.90	2.72	1.61	0.40	700	985	33	62	23
flex-N-I75-CS69014-11-23-1997	8.54	6.93	5.83	4.65	3.46	2.09	0.91	0.90	700	893	48	18	40
flex-N-I75-CS69014-11-23-1997	8.15	6.77	5.79	4.57	3.58	2.28	1.18	0.19	700	1,120	26	40	31
flex-N-I75-CS69014-11-23-1997	9.53	7.72	6.30	4.92	3.70	2.24	1.18	0.93	700	816	17	51	31
flex-N-I75-CS69014-11-23-1997	7.68	6.38	5.39	4.33	3.31	2.09	1.06	0.72	700	1,223	22	47	34
flex-N-I75-CS69014-11-23-1997	7.60	6.54	5.71	4.69	3.74	2.60	1.42	0.70	700	1,459	27	49	27
flex-N-I75-CS69014-11-23-1997	7.24	6.06	5.24	4.25	3.31	2.20	1.26	0.62	700	1,482	12	361	30
flex-N-I75-CS69014-11-23-1997	7.60	6.46	5.71	4.69	3.86	2.68	1.61	0.30	700	1,598	13	323	23

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-I75-CS69014-11-23-1997	8.07	6.42	5.31	4.17	3.19	1.93	0.91	0.64	700	782	60	23	40
flex-N-I75-CS69014-11-23-1997	8.11	6.81	5.94	4.80	3.82	2.48	1.34	0.32	700	1,399	12	123	28
flex-N-I75-CS69014-11-23-1997	8.27	6.61	5.55	4.37	3.39	2.13	1.22	0.94	700	1,019	15	154	31
flex-N-I75-CS69014-11-23-1997	6.77	5.55	4.65	3.62	2.68	1.65	0.83	0.88	700	1,245	23	60	44
flex-N-I75-CS69014-11-23-1997	7.44	5.87	4.80	3.70	2.72	1.61	0.83	0.84	700	948	27	51	43
flex-N-I75-CS69014-11-23-1997	7.36	6.06	5.08	4.06	3.11	2.01	1.10	0.72	700	1,188	20	88	34
flex-N-I75-CS69014-11-23-1997	7.17	5.91	4.96	3.90	3.07	1.97	1.06	0.49	700	1,147	32	54	35
flex-N-I75-CS69014-11-23-1997	9.45	7.17	5.98	4.57	3.46	2.09	1.14	1.23	700	669	28	42	32
flex-N-I75-CS69014-11-23-1997	6.93	5.67	4.88	3.98	3.07	1.97	1.06	0.98	700	1,451	19	89	35
flex-N-I75-CS69014-11-23-1997	7.60	6.34	5.47	4.53	3.54	2.32	1.26	0.91	700	1,425	18	73	30
flex-N-I75-CS69014-11-23-1997	7.64	6.34	5.39	4.37	3.43	2.28	1.22	0.60	700	1,110	42	38	31
flex-N-I75-CS69014-11-23-1997	7.99	6.42	5.47	4.33	3.39	2.28	1.34	0.44	700	976	25	88	28
flex-N-I75-CS69014-11-23-1997	7.40	6.10	5.16	4.13	3.19	2.09	1.22	0.67	700	1,291	12	400	31
flex-N-I75-CS69014-11-23-1997	11.22	8.90	7.28	5.47	4.09	2.60	1.50	0.39	700	615	12	113	25
flex-N-I75-CS69014-08-04-1999	8.54	6.38	4.92	3.78	2.99	2.01	1.22	1.45	700	433	43	64	28
flex-N-I75-CS69014-08-04-1999	8.46	6.02	4.92	3.86	2.99	2.05	1.26	1.43	700	416	52	59	28
flex-N-I75-CS69014-08-04-1999	8.23	5.98	4.69	3.66	2.87	2.09	1.34	1.07	700	427	42	107	26
flex-N-I75-CS69014-08-04-1999	9.09	6.65	5.28	4.17	3.35	2.40	1.46	0.84	700	345	60	55	24
flex-N-I75-CS69014-08-04-1999	9.06	6.14	4.61	3.39	2.56	1.73	1.06	1.09	700	308	41	77	33
flex-N-I75-CS69014-08-04-1999	8.07	5.31	4.06	3.07	2.36	1.65	0.98	0.84	700	280	68	69	36
flex-N-I75-CS69014-08-04-1999	9.37	6.97	5.63	4.45	3.50	2.52	1.54	0.74	700	397	48	57	23
flex-N-I75-CS69014-08-04-1999	9.02	6.77	5.51	4.37	3.35	2.32	1.38	1.07	700	472	44	51	25
flex-N-I75-CS69014-08-04-1999	10.51	7.56	6.02	4.69	3.58	2.44	1.42	0.94	700	312	47	39	24

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-I75-CS69014-08-04-1999	9.65	6.73	5.20	3.78	2.83	1.81	1.02	0.53	700	316	43	43	33
flex-N-I75-CS69014-08-04-1999	9.37	6.65	5.28	4.09	3.11	2.13	1.18	0.98	700	309	64	37	29
flex-N-I75-CS69014-08-04-1999	8.46	5.79	4.41	3.35	2.48	1.61	0.91	1.26	700	310	62	45	38
flex-N-I75-CS69014-08-04-1999	9.92	7.24	5.79	4.76	3.74	2.68	1.65	1.57	700	321	59	48	21
flex-N-I75-CS69014-08-04-1999	9.21	6.34	5.04	4.02	3.07	2.17	1.30	1.48	700	282	65	49	27
flex-N-I75-CS69014-08-04-1999	9.45	6.57	5.16	3.98	2.95	1.93	1.10	1.43	700	317	52	40	31
flex-N-I75-CS69014-08-04-1999	10.35	6.93	5.04	3.66	2.76	1.81	1.06	1.33	700	231	41	52	32
flex-N-I75-CS69014-08-04-1999	9.09	6.26	4.92	3.78	2.95	1.89	1.10	1.55	700	295	65	40	31
flex-N-I75-CS69014-08-04-1999	8.58	6.10	4.84	3.78	2.87	1.97	1.22	1.51	700	405	45	68	28
flex-N-I75-CS69014-08-04-1999	8.62	6.02	4.72	3.50	2.52	1.61	0.94	1.36	700	415	35	60	36
flex-N-I75-CS69014-08-04-1999	7.83	5.43	4.09	3.07	2.40	1.65	1.02	1.20	700	354	51	86	34
flex-N-I75-CS69014-08-04-1999	10.04	6.81	5.08	3.74	2.87	1.93	1.10	1.03	700	239	50	47	31
flex-N-I75-CS69014-08-04-1999	9.88	6.54	4.92	3.78	2.95	2.13	1.26	1.10	700	213	59	58	27
flex-N-I75-CS69014-08-04-1999	9.09	5.87	4.37	3.35	2.48	1.69	0.98	1.59	700	228	63	53	35
flex-N-I75-CS69014-08-04-1999	10.43	6.97	5.28	4.06	3.15	2.24	1.30	1.14	700	203	58	47	26
flex-N-I75-CS69014-08-04-1999	10.28	7.13	5.47	4.13	3.15	2.09	1.22	1.03	700	270	45	43	28
flex-N-I75-CS69014-08-04-1999	9.76	6.77	5.16	3.82	2.95	2.01	1.22	0.87	700	293	40	63	28
flex-N-I75-CS69014-08-04-1999	9.37	6.61	5.08	3.82	2.83	1.81	0.94	1.02	700	294	59	31	35
flex-N-I75-CS69014-08-04-1999	9.09	6.34	4.84	3.62	2.72	1.73	0.94	0.94	700	300	57	37	35
flex-N-I75-CS69014-08-04-1999	8.31	5.94	4.57	3.46	2.56	1.65	0.87	1.24	700	351	64	35	38
flex-N-I75-CS69014-08-04-1999	9.09	6.61	5.28	4.09	3.07	1.97	1.06	1.07	700	378	58	31	32
flex-N-I75-CS69014-08-04-1999	9.45	6.65	5.16	3.94	2.95	2.05	1.18	1.14	700	308	48	49	29
flex-N-I75-CS69014-08-04-1999	9.49	6.50	5.04	3.94	2.91	2.01	1.18	1.68	700	285	52	49	29

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-I75-CS69014-08-04-1999	8.50	6.38	5.12	4.02	3.07	2.09	1.14	0.99	700	440	66	36	31
flex-N-I75-CS69014-08-04-1999	9.69	7.32	5.87	4.72	3.70	2.56	1.46	1.12	700	379	63	34	24
flex-N-I75-CS69014-08-04-1999	9.57	7.13	5.79	4.45	3.46	2.28	1.30	0.53	700	421	48	37	27
flex-N-I75-CS69014-08-04-1999	8.31	6.02	4.80	3.70	2.76	1.81	1.06	1.29	700	481	43	57	33
flex-N-I75-CS69014-08-04-1999	8.43	5.91	4.57	3.43	2.52	1.69	0.94	1.12	700	359	55	49	37
flex-N-I75-CS69014-08-04-1999	9.37	6.81	5.47	4.29	3.27	2.20	1.26	1.04	700	374	55	39	28
flex-N-I75-CS69014-08-04-1999	10.63	8.03	6.54	5.08	4.02	2.68	1.46	0.46	700	354	57	26	24
flex-N-I75-CS69014-08-04-1999	10.08	7.56	6.06	4.72	3.70	2.64	1.57	0.75	700	383	42	51	22
flex-N-I75-CS69014-08-04-1999	9.96	7.24	5.87	4.57	3.54	2.36	1.34	0.72	700	345	57	34	26
flex-N-I75-CS69014-08-04-1999	10.71	7.76	5.98	4.49	3.39	2.20	1.18	1.00	700	294	48	30	29
flex-N-I75-CS69014-08-04-1999	11.34	7.99	6.10	4.53	3.39	2.13	1.26	1.47	700	299	30	44	27
flex-N-I75-CS69014-08-04-1999	9.76	7.17	5.63	4.33	3.27	2.17	1.22	0.99	700	372	46	39	28
flex-N-I75-CS69014-08-04-1999	10.39	7.68	6.14	4.61	3.50	2.17	1.14	0.54	700	370	45	27	30
flex-N-I75-CS69014-08-04-1999	10.20	7.36	5.71	4.29	3.31	2.24	1.34	0.79	700	334	37	54	26
flex-N-I75-CS69014-08-04-1999	10.35	7.24	5.51	3.94	2.91	1.89	1.10	0.56	700	312	31	55	31
flex-N-I75-CS69014-08-04-1999	9.45	6.73	5.16	3.82	2.83	1.77	0.94	0.89	700	328	50	34	36
flex-N-I75-CS69014-08-04-1999	9.92	6.73	5.04	3.54	2.56	1.61	0.94	0.77	700	303	32	58	36
flex-N-I75-CS69014-08-04-1999	10.04	7.24	5.63	4.29	3.27	2.20	1.34	1.11	700	357	35	60	26
flex-N-I75-CS69014-08-04-1999	10.35	7.24	5.51	4.02	2.95	1.85	0.98	0.79	700	282	46	33	34
flex-N-I75-CS69014-08-04-1999	9.29	6.30	4.76	3.43	2.64	1.69	0.98	0.96	700	285	48	51	35
flex-N-I75-CS69014-08-04-1999	9.76	6.61	4.80	3.43	2.48	1.54	0.87	1.32	700	274	40	47	39
flex-N-I75-CS69014-08-04-1999	9.29	6.26	4.65	3.31	2.44	1.54	0.83	0.86	700	265	52	41	40
flex-N-I75-CS69014-08-04-1999	9.09	6.57	5.16	3.94	2.95	1.97	1.14	1.00	700	388	43	49	30

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-I75-CS69014-08-04-1999	8.50	5.91	4.65	3.46	2.64	1.73	1.06	1.30	700	392	42	70	33
flex-N-I75-CS69014-08-04-1999	8.11	5.71	4.53	3.54	2.76	1.97	1.22	1.04	700	376	58	74	29
flex-N-I75-CS69014-08-04-1999	9.33	6.81	5.47	4.29	3.39	2.28	1.30	0.70	700	342	66	36	27
flex-N-I75-CS69014-08-04-1999	8.74	6.18	4.88	3.78	2.91	1.97	1.22	1.46	700	383	47	65	29
flex-N-I75-CS69014-08-04-1999	9.49	6.65	5.20	4.02	3.07	2.13	1.34	1.44	700	345	40	74	26
flex-N-I75-CS69014-08-04-1999	7.83	5.94	4.69	3.66	2.83	1.97	1.22	1.14	700	562	37	94	29
flex-N-I75-CS69014-08-04-1999	8.15	6.30	4.92	3.82	2.80	1.81	0.98	1.55	700	565	39	44	34
flex-N-I75-CS69014-08-04-1999	8.74	6.50	5.20	4.06	3.11	2.05	1.14	0.89	700	429	57	37	30
flex-N-I75-CS69014-08-04-1999-(2)	7.83	5.79	4.53	3.50	2.60	1.81	1.14	1.46	700	555	28	145	30
flex-N-I75-CS69014-08-04-1999-(2)	9.17	6.22	4.92	3.94	3.07	2.20	1.34	1.26	700	254	72	54	26
flex-N-I75-CS69014-08-04-1999-(2)	9.33	5.98	4.45	3.15	2.36	1.54	0.94	1.33	700	260	41	72	37
flex-N-I75-CS69014-08-04-1999-(2)	9.09	5.87	4.29	3.03	2.28	1.50	0.94	1.60	700	273	38	90	37
flex-N-I75-CS69014-08-04-1999-(2)	8.66	5.47	4.09	3.03	2.32	1.54	0.94	1.62	700	244	59	68	37
flex-N-I75-CS69014-08-04-1999-(2)	8.82	5.55	4.02	2.95	2.24	1.54	0.98	1.87	700	250	48	100	37
flex-N-I75-CS69014-08-04-1999-(2)	9.09	5.67	4.17	3.11	2.32	1.57	0.94	1.43	700	223	59	66	38
flex-N-I75-CS69014-08-04-1999-(2)	8.82	5.51	4.02	2.91	2.20	1.50	0.94	1.60	700	244	48	91	37
flex-N-I75-CS69014-08-04-1999-(2)	8.78	5.31	3.86	2.76	2.09	1.46	0.91	1.00	700	221	50	97	39
flex-N-I75-CS69014-08-04-1999-(2)	8.86	5.51	3.82	2.80	2.09	1.42	0.87	1.96	700	217	51	83	40
flex-N-I75-CS69014-08-04-1999-(2)	9.61	6.02	4.29	3.19	2.44	1.65	1.02	1.84	700	208	52	74	35
flex-N-I75-CS69014-08-04-1999-(2)	8.90	5.59	4.02	2.95	2.24	1.57	0.94	1.23	700	224	56	80	37
flex-N-I75-CS69014-08-04-1999-(2)	9.09	6.02	4.33	3.23	2.44	1.65	1.02	1.86	700	267	46	80	35
flex-N-I75-CS69014-08-04-1999-(2)	9.88	6.77	5.31	4.17	3.23	2.28	1.50	1.89	700	303	42	82	24
flex-N-I75-CS69014-08-04-1999-(2)	8.39	6.30	5.00	3.86	2.95	2.05	1.26	0.90	700	523	33	90	28

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-I75-CS69014-08-04-1999-(2)	9.49	6.81	5.31	4.06	3.11	2.09	1.26	1.08	700	361	40	57	27
flex-N-I75-CS69014-08-04-1999-(2)	7.44	5.04	3.86	2.91	2.13	1.46	0.91	1.74	700	412	45	100	39
flex-N-I75-CS69014-08-04-1999-(2)	8.58	5.31	3.94	2.87	2.13	1.38	0.83	1.64	700	238	58	63	42
flex-N-I75-CS69014-08-04-1999-(2)	8.23	5.59	4.17	3.03	2.28	1.46	0.87	1.32	700	332	48	63	40
flex-N-I75-CS69014-08-04-1999-(2)	8.74	6.02	4.69	3.62	2.72	1.85	1.14	1.69	700	347	47	67	31
flex-N-I75-CS69014-08-04-1999-(2)	9.49	5.87	4.49	3.35	2.52	1.73	1.02	1.12	700	202	62	56	34
flex-N-I75-CS69014-08-04-1999-(2)	8.82	5.98	4.80	3.66	2.80	1.81	1.10	1.96	700	337	54	52	32
flex-N-I75-CS69014-08-04-1999-(2)	8.90	5.75	4.29	3.11	2.24	1.42	0.79	1.07	700	256	56	46	43
flex-N-I75-CS69014-08-04-1999-(2)	9.02	5.63	4.25	3.27	2.48	1.69	1.02	1.61	700	210	69	60	34
flex-N-I75-CS69014-08-04-1999-(2)	8.03	6.06	4.88	3.86	3.03	1.97	1.18	1.59	700	578	49	55	31
flex-N-I75-CS69014-08-04-1999-(2)	8.23	6.54	5.35	4.33	3.31	2.24	1.26	1.22	700	700	46	43	28
flex-N-I75-CS69014-08-04-1999-(2)	7.60	5.75	4.69	3.70	2.76	1.77	0.94	1.22	700	616	61	37	37
flex-N-I75-CS69014-08-04-1999-(2)	7.36	5.59	4.53	3.46	2.60	1.73	0.94	0.88	700	611	56	47	37
flex-N-I75-CS69014-08-04-1999-(2)	6.61	5.04	4.13	3.23	2.44	1.65	0.94	0.90	700	746	55	64	38
flex-N-I75-CS69014-08-04-1999-(2)	6.34	4.53	3.62	2.80	2.09	1.38	0.83	1.52	700	626	58	83	44
flex-N-I75-CS69014-08-04-1999-(2)	6.89	5.04	4.06	3.07	2.32	1.57	0.98	0.95	700	662	35	138	36
flex-N-I75-CS69014-08-04-1999-(2)	9.33	7.28	6.02	4.72	3.66	2.32	1.18	0.50	700	541	57	23	30
flex-N-I75-CS69014-08-04-1999-(2)	8.82	6.65	5.35	4.33	3.46	2.44	1.50	1.13	700	443	60	54	24
flex-N-I75-CS69014-08-04-1999-(2)	8.19	6.22	5.04	3.94	2.95	1.81	0.94	1.15	700	591	52	31	37
flex-N-I75-CS69014-08-04-1999-(2)	8.58	6.61	5.28	4.09	2.99	1.77	0.87	1.23	700	595	43	27	39
flex-N-I75-CS69014-08-04-1999-(2)	9.37	6.81	5.31	3.94	2.91	1.85	1.02	0.69	700	398	40	42	34
flex-N-I75-CS69014-08-04-1999-(2)	8.98	6.81	5.59	4.37	3.35	2.13	1.10	0.67	700	487	61	26	32
flex-N-I75-CS69014-08-04-1999-(2)	8.31	6.38	5.20	4.09	3.23	2.09	1.18	1.07	700	565	54	38	30

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-I75-CS69014-08-04-1999-(2)	8.43	6.46	5.35	4.21	3.23	2.13	1.14	0.68	700	558	59	32	31
flex-N-I75-CS69014-08-04-1999-(2)	9.21	6.97	5.47	4.17	3.11	1.97	1.14	1.19	700	525	27	58	31
flex-N-I75-CS69014-08-04-1999-(2)	8.90	6.34	4.80	3.46	2.56	1.65	0.94	0.82	700	378	38	57	37
flex-N-I75-CS69014-08-04-1999-(2)	7.60	5.51	4.29	3.19	2.48	1.65	1.06	1.33	700	541	32	146	34
flex-N-I75-CS69014-08-04-1999-(2)	7.28	5.00	3.74	2.80	2.01	1.30	0.79	1.88	700	453	45	89	46
flex-N-I75-CS69014-08-04-1999-(2)	7.44	5.31	4.13	3.07	2.20	1.42	0.79	1.12	700	489	49	57	44
flex-N-I75-CS69014-08-04-1999-(2)	7.68	5.75	4.57	3.54	2.68	1.73	1.06	1.55	700	665	29	106	33
flex-N-I75-CS69014-08-04-1999-(2)	9.09	6.61	5.20	3.90	2.87	1.81	1.02	0.97	700	446	37	47	34
flex-N-I75-CS69014-08-04-1999-(2)	7.91	5.87	4.61	3.58	2.68	1.77	1.10	1.65	700	591	29	111	32
flex-N-I75-CS69014-08-04-1999-(2)	6.89	4.96	3.82	2.83	2.09	1.22	0.67	1.55	700	559	52	51	51
flex-N-I75-CS69014-08-04-1999-(2)	7.36	5.51	4.33	3.31	2.40	1.46	0.75	1.20	700	584	53	37	45
flex-N-I75-CS69014-08-04-1999-(2)	7.36	5.16	4.02	2.91	2.09	1.26	0.75	1.51	700	554	32	87	47
flex-N-I75-CS69014-08-04-1999-(2)	7.36	5.63	4.45	3.39	2.44	1.46	0.79	1.25	700	733	29	58	43
flex-N-I75-CS69014-08-04-1999-(2)	6.73	4.84	3.78	2.87	2.13	1.42	0.83	1.15	700	541	54	74	42
flex-N-I75-CS69014-08-04-1999-(2)	6.77	4.96	3.90	2.99	2.28	1.54	0.98	1.49	700	651	35	159	36
flex-N-I75-CS69014-08-04-1999-(2)	7.32	5.51	4.45	3.50	2.68	1.81	1.06	1.05	700	608	53	61	33
flex-N-I75-CS69014-08-04-1999-(2)	8.31	5.83	4.45	3.35	2.48	1.61	0.98	1.59	700	418	39	76	36
flex-G-M120-CS61012-07-23-1998	15.39	11.18	8.86	6.69	5.04	3.07	1.69	1.10	700	229	23	24	21
flex-G-M120-CS61012-07-23-1998	17.99	13.11	10.24	7.68	5.83	3.58	1.85	0.89	700	169	30	17	19
flex-G-M120-CS61012-07-23-1998	14.13	10.24	8.39	6.61	5.20	3.50	2.05	0.85	700	224	40	29	18
flex-G-M120-CS61012-07-23-1998	17.40	13.46	10.98	8.70	6.81	4.41	2.40	0.84	700	242	27	18	15
flex-G-M120-CS61012-07-23-1998	12.76	9.65	7.99	6.57	5.28	3.62	2.13	1.09	700	273	57	28	17
flex-G-M120-CS61012-07-23-1998	13.66	9.21	7.17	5.51	4.41	3.07	1.97	1.41	700	182	30	56	19

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-M120-CS61012-07-23-1998	12.76	9.21	7.36	5.79	4.57	3.27	2.05	0.86	700	255	25	58	18
flex-G-M120-CS61012-07-23-1998	13.11	8.90	6.89	5.20	4.06	2.80	1.73	0.96	700	199	27	54	21
flex-G-M120-CS61012-07-23-1998	16.02	11.34	9.02	7.01	5.47	3.74	2.28	1.06	700	186	24	35	16
flex-G-M120-CS61012-07-23-1998	16.85	12.17	9.72	7.20	5.31	3.31	1.93	0.96	700	234	9	41	18
flex-G-M120-CS61012-07-23-1998	12.99	9.09	7.09	5.47	4.29	2.99	1.89	1.21	700	224	24	60	19
flex-G-M120-CS61012-07-23-1998	18.90	13.90	10.91	8.03	5.91	3.58	1.93	0.65	700	194	13	21	18
flex-G-M120-CS61012-07-23-1998	17.20	11.50	8.82	6.61	4.80	3.03	1.69	1.32	700	144	27	24	21
flex-G-M120-CS61012-07-23-1998	22.95	15.24	11.38	8.23	6.02	3.58	1.97	1.27	700	104	20	17	18
flex-G-M120-CS61012-07-23-1998	17.05	11.10	8.35	6.34	4.72	3.19	1.89	1.43	700	129	27	33	19
flex-G-M120-CS61012-07-23-1998	24.53	17.44	13.19	9.53	6.81	4.41	2.24	1.95	700	111	17	15	15
flex-G-M120-CS61012-07-23-1998	16.77	11.77	9.29	7.44	5.91	4.06	2.32	1.04	700	139	51	24	15
flex-G-M120-CS61012-07-23-1998	18.86	14.02	11.06	8.70	6.73	4.49	2.40	1.19	700	159	36	17	15
flex-G-M120-CS61012-07-23-1998	19.72	13.70	10.39	7.68	5.75	3.70	1.97	1.12	700	125	27	19	18
flex-G-M120-CS61012-07-23-1998	16.93	12.01	9.69	7.64	6.14	4.41	2.56	0.63	700	147	44	27	14
flex-G-M120-CS61012-07-23-1998	16.65	11.14	8.66	6.61	5.12	3.54	2.20	1.21	700	149	24	41	17
flex-G-M120-CS61012-07-23-1998	14.49	9.21	6.81	5.24	4.06	2.87	1.77	1.43	700	134	33	51	21
flex-G-M120-CS61012-07-23-1998	19.02	11.69	8.35	6.18	4.88	3.35	2.05	1.58	700	92	25	40	18
flex-G-M120-CS61012-07-23-1998	11.65	8.19	6.77	5.51	4.45	3.23	2.01	0.94	700	219	66	46	19
flex-G-M120-CS61012-07-23-1998	13.70	9.57	7.20	5.51	4.33	2.87	1.65	1.49	700	178	39	34	22
flex-G-M120-CS61012-07-23-1998	19.25	13.50	10.39	7.44	5.16	2.87	1.54	1.15	700	181	10	22	22
flex-G-M120-CS61012-07-23-1998	16.18	12.28	10.28	7.83	5.79	3.54	1.65	0.80	700	259	32	13	21
flex-G-M120-CS61012-07-23-1998	17.48	11.97	9.13	6.42	4.57	2.52	1.18	0.51	700	149	31	15	28
flex-G-M120-CS61012-07-23-1998	15.39	11.18	8.86	6.69	5.04	3.07	1.69	1.10	700	229	23	24	21

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-M120-CS61012-07-23-1998	17.99	13.11	10.24	7.68	5.83	3.58	1.85	0.89	700	169	30	17	19
flex-G-M120-CS61012-07-23-1998	14.13	10.24	8.39	6.61	5.20	3.50	2.05	0.85	700	224	40	29	18
flex-G-M120-CS61012-07-23-1998	17.40	13.46	10.98	8.70	6.81	4.41	2.40	0.84	700	242	27	18	15
flex-G-M120-CS61012-07-23-1998	12.76	9.65	7.99	6.57	5.28	3.62	2.13	1.09	700	273	57	28	17
flex-G-M120-CS61012-07-23-1998	13.66	9.21	7.17	5.51	4.41	3.07	1.97	1.41	700	182	30	56	19
flex-G-M120-CS61012-07-23-1998	12.76	9.21	7.36	5.79	4.57	3.27	2.05	0.86	700	255	25	58	18
flex-G-M120-CS61012-07-23-1998	13.11	8.90	6.89	5.20	4.06	2.80	1.73	0.96	700	199	27	54	21
flex-G-M120-CS61012-07-23-1998	16.02	11.34	9.02	7.01	5.47	3.74	2.28	1.06	700	186	24	35	16
flex-G-M120-CS61012-07-23-1998	16.85	12.17	9.72	7.20	5.31	3.31	1.93	0.96	700	234	9	41	18
flex-G-M120-CS61012-07-23-1998	12.99	9.09	7.09	5.47	4.29	2.99	1.89	1.21	700	224	24	60	19
flex-G-M120-CS61012-07-23-1998	18.90	13.90	10.91	8.03	5.91	3.58	1.93	0.65	700	194	13	21	18
flex-G-M120-CS61012-07-23-1998	17.20	11.50	8.82	6.61	4.80	3.03	1.69	1.32	700	144	27	24	21
flex-G-M120-CS61012-07-23-1998	22.95	15.24	11.38	8.23	6.02	3.58	1.97	1.27	700	104	20	17	18
flex-G-M120-CS61012-07-23-1998	17.05	11.10	8.35	6.34	4.72	3.19	1.89	1.43	700	129	27	33	19
flex-G-M120-CS61012-07-23-1998	24.53	17.44	13.19	9.53	6.81	4.41	2.24	1.95	700	111	17	15	15
flex-G-M120-CS61012-07-23-1998	16.77	11.77	9.29	7.44	5.91	4.06	2.32	1.04	700	139	51	24	15
flex-G-M120-CS61012-07-23-1998	18.86	14.02	11.06	8.70	6.73	4.49	2.40	1.19	700	159	36	17	15
flex-G-M120-CS61012-07-23-1998	19.72	13.70	10.39	7.68	5.75	3.70	1.97	1.12	700	125	27	19	18
flex-G-M120-CS61012-07-23-1998	16.93	12.01	9.69	7.64	6.14	4.41	2.56	0.63	700	147	44	27	14
flex-G-M120-CS61012-07-23-1998	16.65	11.14	8.66	6.61	5.12	3.54	2.20	1.21	700	149	24	41	17
flex-G-M120-CS61012-07-23-1998	14.49	9.21	6.81	5.24	4.06	2.87	1.77	1.43	700	134	33	51	21
flex-G-M120-CS61012-07-23-1998	19.02	11.69	8.35	6.18	4.88	3.35	2.05	1.58	700	92	25	40	18
flex-G-M120-CS61012-07-23-1998	11.65	8.19	6.77	5.51	4.45	3.23	2.01	0.94	700	219	66	46	19

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-M120-CS61012-07-23-1998	13.70	9.57	7.20	5.51	4.33	2.87	1.65	1.49	700	178	39	34	22
flex-G-M120-CS61012-07-23-1998	19.25	13.50	10.39	7.44	5.16	2.87	1.54	1.15	700	181	10	22	22
flex-G-M120-CS61012-07-23-1998	16.18	12.28	10.28	7.83	5.79	3.54	1.65	0.80	700	259	32	13	21
flex-G-M120-CS61012-07-23-1998	17.48	11.97	9.13	6.42	4.57	2.52	1.18	0.51	700	149	31	15	28
flex-G-US131-CS54014-05-13-1998	5.94	5.04	4.45	3.74	2.99	2.20	1.38	1.20	700	1,347	6	500	26
flex-G-US131-CS54014-05-13-1998	5.83	4.88	4.25	3.58	2.80	1.93	1.06	1.14	700	1,357	7	199	34
flex-G-US131-CS54014-05-13-1998	5.63	4.88	4.29	3.58	2.87	1.97	0.98	0.76	700	1,569	22	37	37
flex-G-US131-CS54014-05-13-1998	10.24	8.94	7.99	6.73	5.39	3.50	1.54	1.17	700	1,027	5	14	24
flex-G-US131-CS54014-05-13-1998	9.72	8.54	7.68	6.42	5.16	3.43	1.50	1.05	700	1,130	6	13	25
flex-G-US131-CS54014-05-13-1998	10.51	9.13	8.19	6.81	5.35	3.50	1.54	1.93	700	933	5	14	24
flex-G-US131-CS54014-05-13-1998	5.83	5.04	4.53	3.94	3.15	2.36	1.42	1.41	700	1,672	6	370	26
flex-G-US131-CS54014-05-13-1998	6.54	5.75	5.24	4.69	3.94	2.87	1.65	1.00	700	1,897	15	42	22
flex-G-US131-CS54014-05-13-1998	10.20	8.78	7.83	6.61	5.28	3.58	1.77	0.75	700	944	5	26	20
flex-G-US131-CS54014-05-13-1998	11.18	9.45	8.27	6.93	5.35	3.46	1.54	1.06	700	693	37	12	23
flex-G-US131-CS54014-05-13-1998	10.28	8.70	7.68	6.34	4.96	3.15	1.42	0.86	700	851	5	21	25
flex-G-US131-CS54014-05-13-1998	5.98	5.04	4.29	3.43	2.68	1.77	1.02	1.32	700	1,159	5	500	35
flex-G-US131-CS54014-05-13-1998	9.06	7.24	6.18	5.20	4.06	2.83	1.69	1.41	700	652	8	108	21
flex-G-US131-CS54014-05-13-1998	6.14	5.16	4.53	3.82	2.99	2.09	1.18	1.12	700	1,291	5	294	30
flex-G-US131-CS54014-05-13-1998	6.50	5.43	4.76	3.94	3.11	2.17	1.34	1.67	700	1,207	5	500	26
flex-G-US131-CS54014-05-13-1998	12.99	10.67	8.94	6.93	5.08	2.80	1.06	1.88	700	475	9	11	29
flex-G-US131-CS54014-05-13-1998	10.47	8.58	7.32	5.47	4.06	2.32	0.94	1.59	700	592	5	24	34
flex-G-US131-CS54014-05-13-1998	10.51	8.27	6.73	5.08	3.82	2.40	1.30	0.63	700	434	5	74	26
flex-G-US131-CS54014-05-13-1998	11.77	8.94	7.32	5.51	4.09	2.60	1.38	0.59	700	341	12	32	24

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-US131-CS54014-05-13-1998	8.35	6.57	5.55	4.49	3.43	2.24	1.26	1.10	700	652	7	106	27
flex-G-US131-CS54014-05-13-1998	8.19	6.61	5.63	4.41	3.39	2.28	1.34	1.30	700	687	5	252	26
flex-G-US131-CS54014-05-13-1998	7.40	6.18	5.39	4.45	3.54	2.40	1.34	0.50	700	1,073	5	195	28
flex-G-US131-CS54014-05-13-1998	8.07	6.57	5.67	4.72	3.74	2.48	1.30	0.84	700	722	79	28	28
flex-G-US131-CS54014-05-13-1998	7.32	6.22	5.51	4.72	3.78	2.76	1.65	1.10	700	1,216	5	291	23
flex-G-US131-CS54014-05-13-1998	9.65	8.03	7.01	5.67	4.29	2.52	0.98	0.82	700	870	5	19	36
flex-G-US131-CS54014-05-13-1998	8.46	7.24	6.46	5.47	4.29	2.80	1.18	0.97	700	1,088	65	12	33
flex-G-US131-CS54014-05-13-1998	9.37	7.76	6.69	5.43	4.09	2.48	0.98	0.93	700	733	49	13	36
flex-G-US131-CS54014-05-13-1998	8.70	7.48	6.65	5.71	4.45	3.15	1.65	1.64	700	1,102	5	67	23
flex-G-US131-CS54014-05-13-1998	10.20	8.54	7.40	6.02	4.57	2.64	0.94	0.72	700	836	7	13	37
flex-G-US131-CS54014-05-13-1998	11.10	8.78	7.32	5.87	4.49	2.87	1.46	0.78	700	429	43	22	24
flex-G-US131-CS54014-05-13-1998	8.03	6.18	5.12	3.94	2.83	1.81	0.94	1.37	700	595	11	61	37
flex-G-US131-CS54014-05-13-1998	9.17	7.32	6.14	4.84	3.66	2.36	1.30	1.19	700	632	5	148	28
flex-G-US131-CS54014-05-13-1998	6.81	5.75	5.04	4.21	3.31	2.24	1.18	0.89	700	1,235	6	113	31
flex-G-US131-CS54014-05-13-1998	7.40	6.18	5.39	4.37	3.46	2.24	1.14	0.21	700	1,057	6	82	32
flex-G-US131-CS54014-05-13-1998	7.01	5.87	5.12	4.21	3.31	2.24	1.22	0.71	700	1,104	5	182	30
flex-G-US131-CS54014-05-13-1998	8.62	7.09	6.06	4.88	3.82	2.48	1.30	0.42	700	773	8	52	28
flex-G-US131-CS54014-05-13-1998	11.65	9.13	7.68	6.10	4.65	2.80	1.18	0.56	700	344	109	13	29
flex-G-US131-CS54014-05-13-1998	9.80	7.52	6.14	4.69	3.50	2.17	1.14	0.49	700	455	14	39	31
flex-G-US131-CS54014-05-13-1998	8.46	6.77	5.75	4.65	3.58	2.36	1.38	1.41	700	731	5	228	26
flex-G-US131-CS54014-05-13-1998	7.60	6.30	5.55	4.53	3.58	2.48	1.42	0.66	700	965	5	215	26
flex-G-US131-CS54014-05-13-1998	6.73	5.59	4.76	3.86	2.95	1.89	0.91	0.87	700	989	22	33	38
flex-G-US131-CS54014-05-13-1998	7.36	5.67	4.72	3.74	2.83	1.85	0.98	0.83	700	578	49	41	36

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-US131-CS54014-05-13-1998	6.30	4.96	4.09	3.27	2.44	1.61	0.94	1.18	700	850	7	342	38
flex-G-US131-CS54014-05-13-1998	6.34	5.00	4.13	3.23	2.44	1.57	0.94	1.20	700	850	7	342	38
flex-G-US131-CS54014-05-13-1998	7.44	6.30	5.47	4.53	3.62	2.64	1.61	0.86	700	981	6	314	23
flex-G-US131-CS54014-05-13-1998	7.05	5.71	4.76	3.82	2.95	1.93	1.14	1.07	700	878	5	404	32
flex-G-US131-CS54014-05-13-1998	7.76	6.38	5.55	4.45	3.50	2.44	1.42	0.66	700	848	6	209	26
flex-G-US131-CS54014-05-13-1998	10.31	8.07	6.65	5.04	3.82	2.32	1.14	0.43	700	437	24	25	29
flex-G-US131-CS54014-05-13-1998	8.90	7.20	6.14	4.84	3.78	2.44	1.22	0.43	700	610	36	26	28
flex-G-US131-CS54014-05-13-1998	12.56	9.57	7.68	5.67	4.06	2.36	1.10	0.94	700	320	19	20	30
flex-G-US131-CS54014-05-13-1998	6.42	5.08	4.33	3.39	2.48	1.50	0.71	1.00	700	924	10	57	48
flex-G-US131-CS54014-05-13-1998	6.97	5.75	4.88	3.78	2.83	1.77	0.87	0.96	700	902	5	129	40
flex-G-US131-CS54014-05-13-1998	8.70	6.85	5.79	4.53	3.43	2.13	0.94	0.80	700	488	100	20	36
flex-G-US131-CS54014-05-13-1998	7.13	6.14	5.59	4.80	3.90	2.80	1.61	1.74	700	1,307	46	30	23
flex-G-US131-CS54014-05-13-1998	8.62	6.81	5.87	4.76	3.70	2.48	1.42	1.02	700	671	8	89	25
flex-G-US131-CS54014-05-13-1998	7.05	5.47	4.49	3.62	2.80	1.85	1.06	1.17	700	647	24	66	34
flex-G-US131-CS54014-05-13-1998	7.13	5.43	4.45	3.39	2.56	1.69	0.98	0.45	700	609	9	160	36
flex-G-US131-CS54014-05-13-1998	6.61	5.20	4.33	3.46	2.72	1.85	1.06	0.61	700	706	27	70	33
flex-G-US131-CS54014-05-13-1998	7.48	5.87	5.04	4.06	3.15	2.17	1.22	0.85	700	658	31	51	29
flex-G-US131-CS54014-05-13-1998	8.66	6.77	5.63	4.53	3.50	2.36	1.26	0.88	700	466	67	33	28
flex-G-M20-CS54041-04-09-2002	19.67	15.30	12.31	9.03	6.85	4.18	2.04	1.00	700	256	29	13	17
flex-G-M20-CS54041-04-09-2002	17.94	14.23	11.75	8.83	6.76	4.20	2.12	0.47	700	352	25	15	17
flex-G-M20-CS54041-04-09-2002	15.84	11.97	9.37	6.53	4.87	2.99	1.55	1.34	700	290	23	22	23
flex-G-M20-CS54041-04-09-2002	16.77	12.48	9.45	6.23	4.47	2.55	1.27	1.80	700	253	19	20	27
flex-G-M20-CS54041-04-09-2002	20.60	15.21	11.40	7.57	5.31	3.06	1.48	1.93	700	190	18	16	23

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-M20-CS54041-04-09-2002	16.75	12.56	9.71	6.86	5.13	3.33	1.91	0.91	700	290	12	37	19
flex-G-M20-CS54041-04-09-2002	13.26	9.74	7.29	5.02	3.62	2.02	0.97	1.42	700	288	37	22	35
flex-G-M20-CS54041-04-09-2002	14.61	10.51	7.93	5.55	4.15	2.58	1.35	1.37	700	235	34	25	26
flex-G-M20-CS54041-04-09-2002	12.97	10.36	8.69	6.65	5.24	3.32	1.89	0.71	700	625	11	42	19
flex-G-M20-CS54041-04-09-2002	12.93	10.69	9.08	6.90	5.32	3.12	1.38	0.49	700	694	26	14	25
flex-G-M20-CS54041-04-09-2002	11.89	9.84	8.37	6.48	5.01	2.99	1.25	0.44	700	683	55	12	28
flex-G-M20-CS54041-04-09-2002	10.73	8.86	7.50	5.81	4.53	2.78	1.34	0.33	700	806	35	20	27
flex-G-M20-CS54041-04-09-2002	9.24	7.73	6.69	5.33	4.22	2.68	1.34	0.16	700	1,141	33	24	27
flex-G-M20-CS54041-04-09-2002	11.91	10.37	9.08	7.35	5.72	3.60	1.52	0.67	700	1,166	18	12	24
flex-G-M20-CS54041-04-09-2002	14.01	11.25	9.50	7.39	5.73	3.53	1.58	0.33	700	431	67	12	23
flex-G-M20-CS54041-04-09-2002	16.86	12.35	9.95	7.32	5.58	3.34	1.73	0.64	700	246	38	17	21
flex-G-M20-CS54041-04-09-2002	13.40	10.20	8.28	6.13	4.71	2.92	1.64	0.73	700	435	21	31	22
flex-G-M20-CS54041-04-09-2002	12.70	10.11	8.31	6.36	5.04	3.35	1.92	0.55	700	512	24	34	19
flex-G-M20-CS54041-04-09-2002	11.98	9.38	7.63	5.71	4.48	2.94	1.64	0.69	700	478	29	33	22
flex-G-M20-CS54041-04-09-2002	11.53	8.54	6.66	4.82	3.71	2.41	1.37	0.81	700	373	32	40	27
flex-G-M20-CS54041-04-09-2002	11.66	8.90	7.13	5.20	3.96	2.52	1.41	0.49	700	463	24	37	26
flex-G-M20-CS54041-04-09-2002	11.85	8.55	6.61	4.62	3.49	2.10	1.10	1.00	700	315	42	29	32
flex-G-M20-CS54041-04-09-2002	11.28	8.27	6.44	4.54	3.42	2.10	1.10	0.95	700	356	41	31	32
flex-G-M20-CS54041-04-09-2002	10.16	7.56	6.03	4.37	3.32	2.10	1.19	0.43	700	488	29	45	30
flex-G-M20-CS54041-04-09-2002	9.24	6.97	5.58	3.99	3.03	1.92	1.10	0.53	700	592	22	60	33
flex-G-M20-CS54041-04-09-2002	9.92	7.35	5.68	3.97	3.02	1.88	1.07	1.07	700	469	25	53	34
flex-G-M20-CS54041-04-09-2002	11.94	9.38	7.70	5.77	4.50	2.94	1.73	0.45	700	573	13	58	21
flex-G-M20-CS54041-04-09-2002	12.47	10.11	8.51	6.68	5.33	3.58	2.10	0.35	700	643	16	43	17

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-M20-CS54041-04-09-2002	13.71	10.80	8.91	6.78	5.36	3.59	2.14	0.44	700	486	14	45	17
flex-G-M20-CS54041-04-09-2002	11.61	9.33	7.81	5.98	4.66	2.94	1.58	0.29	700	654	23	29	23
flex-G-M20-CS54041-04-09-2002	12.56	9.74	7.89	5.85	4.54	2.93	1.69	0.59	700	483	17	42	21
flex-G-M20-CS54041-04-09-2002	15.63	12.33	10.08	7.59	6.01	3.99	2.31	0.67	700	396	17	31	16
flex-G-M20-CS54041-04-09-2002	16.00	12.58	10.56	8.23	6.55	4.28	2.30	0.27	700	350	43	18	16
flex-G-M20-CS54041-04-09-2002	13.52	10.84	9.11	7.10	5.58	3.53	1.76	0.30	700	463	53	16	20
flex-G-M20-CS54041-04-09-2002	13.56	10.54	8.58	6.26	4.62	2.82	1.41	0.78	700	427	27	21	25
flex-G-M20-CS54041-04-09-2002	12.85	9.99	8.12	5.84	4.25	2.40	1.10	0.54	700	467	28	18	30
flex-G-M20-CS54041-04-09-2002	11.51	9.36	7.78	5.88	4.45	2.55	1.01	0.69	700	581	59	13	33
flex-G-M20-CS54041-04-09-2002	12.19	10.01	8.36	6.21	4.52	2.59	1.03	1.24	700	639	31	14	32
flex-G-M20-CS54041-04-09-2002	10.34	8.27	6.85	5.04	3.65	2.02	0.81	0.69	700	676	39	17	40
flex-G-M20-CS54041-04-09-2002	10.16	7.99	6.48	4.67	3.38	1.82	0.76	0.58	700	622	39	20	43
flex-G-M20-CS54041-04-09-2002	11.68	9.04	7.26	5.22	3.81	2.05	0.86	0.64	700	465	45	17	38
flex-G-M20-CS54041-04-09-2002	11.10	8.95	7.43	5.51	4.19	2.39	1.00	0.79	700	597	53	15	34
flex-G-M20-CS54041-04-09-2002	13.86	10.14	7.90	5.54	4.20	2.64	1.35	1.43	700	266	40	24	26
flex-G-M20-CS54041-04-09-2002	10.09	8.15	6.79	5.08	3.93	2.41	1.22	0.63	700	725	31	27	29
flex-G-M20-CS54041-04-09-2002	14.11	12.11	10.49	8.32	6.60	3.99	1.68	0.45	700	844	24	10	21
flex-G-M20-CS54041-04-09-2002	11.54	9.79	8.48	6.77	5.36	3.27	1.31	0.31	700	842	68	10	28
flex-G-M20-CS54041-04-09-2002	11.22	9.08	7.70	6.04	4.75	2.95	1.34	0.31	700	548	87	14	27
flex-G-M20-CS54041-04-09-2002	11.46	9.34	7.98	6.24	4.92	3.19	1.57	0.47	700	604	63	18	23
flex-G-M37-CS62032-05-18-2000	10.04	8.03	6.57	5.31	4.09	2.76	1.50	1.26	700	428	24	37	24
flex-G-M37-CS62032-05-18-2000	8.23	6.89	6.02	5.24	4.25	3.03	1.69	1.05	700	750	47	26	22
flex-G-M37-CS62032-05-18-2000	12.52	10.51	9.17	7.68	6.14	4.25	2.28	0.70	700	513	14	25	16

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-M37-CS62032-05-18-2000	14.88	12.24	10.55	8.66	6.93	4.61	2.48	0.44	700	388	10	27	14
flex-G-M37-CS62032-05-18-2000	14.17	11.42	9.69	7.76	6.02	3.94	2.05	0.56	700	350	13	24	18
flex-G-M37-CS62032-05-18-2000	12.95	9.76	7.80	6.06	4.53	2.83	1.57	1.07	700	281	14	44	23
flex-G-M37-CS62032-05-18-2000	17.20	13.70	11.30	8.98	6.81	4.41	2.28	1.03	700	255	11	20	16
flex-G-M37-CS62032-05-18-2000	15.39	13.27	11.50	10.00	8.31	5.98	3.27	0.99	700	416	32	10	12
flex-G-M37-CS62032-05-18-2000	11.30	9.57	8.35	7.20	5.94	4.33	2.48	0.80	700	534	35	21	15
flex-G-M37-CS62032-05-18-2000	16.81	13.66	11.46	9.65	7.68	5.12	2.52	1.13	700	264	32	9	15
flex-G-M37-CS62032-05-18-2000	12.32	9.49	7.95	6.30	4.88	3.19	1.57	0.59	700	294	36	16	23
flex-G-M37-CS62032-05-18-2000	8.15	6.81	5.94	5.12	4.25	3.19	1.81	0.91	700	607	89	23	21
flex-G-M37-CS62032-05-18-2000	13.31	10.59	8.70	6.69	5.04	3.31	1.61	1.70	700	294	20	19	22
flex-G-M37-CS62032-05-18-2000	13.35	9.84	8.03	6.26	4.80	3.35	1.93	0.88	700	230	25	36	19
flex-G-M37-CS62032-05-18-2000	12.60	9.69	7.76	6.22	4.92	3.66	2.28	1.44	700	261	21	71	16
flex-G-M37-CS62032-05-18-2000	11.18	8.11	6.30	4.96	3.86	2.87	1.77	1.62	700	234	30	74	20
flex-G-M37-CS62032-05-18-2000	12.01	10.04	8.78	7.32	5.87	3.86	1.89	0.50	700	545	16	15	19
flex-G-M37-CS62032-05-18-2000	14.49	11.57	9.96	8.31	6.50	4.17	2.01	1.05	700	339	26	11	18
flex-G-M37-CS62032-05-18-2000	13.46	10.67	9.13	7.48	5.79	3.74	1.93	0.92	700	363	17	20	18
flex-G-M37-CS62032-05-18-2000	9.69	8.03	7.01	6.06	4.92	3.58	2.01	1.03	700	543	55	20	19
flex-G-M37-CS62032-05-18-2000	16.02	12.24	10.47	7.95	5.98	3.66	1.77	0.66	700	258	13	17	19
flex-G-M37-CS62032-05-18-2000	17.28	14.33	12.13	9.69	7.36	4.69	2.36	0.95	700	328	4	89	15
flex-G-M37-CS62032-05-18-2000	14.06	11.65	9.84	7.72	5.87	3.78	2.05	1.07	700	387	5	279	18
flex-G-M37-CS62032-05-18-2000	13.54	11.26	9.69	7.76	6.02	4.02	2.28	0.76	700	439	5	382	16
flex-G-US131-CS54013-08-18-1994	9.36	6.83	5.60	4.36	3.50	2.24	1.18	0.64	700	289	116	30	30
flex-G-US131-CS54013-08-18-1994	8.99	6.62	5.28	3.96	3.10	1.91	1.05	1.05	700	366	40	39	33

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-US131-CS54013-08-18-1994	9.31	6.84	5.59	4.12	3.22	2.05	1.08	0.65	700	346	51	35	32
flex-G-US131-CS54013-08-18-1994	9.38	6.81	5.44	4.07	3.01	1.94	1.04	0.70	700	348	33	41	34
flex-G-US131-CS54013-08-18-1994	8.62	6.35	5.09	3.94	3.13	2.12	1.23	0.65	700	365	47	52	29
flex-G-US131-CS54013-08-18-1994	9.92	7.30	5.81	4.41	3.47	2.26	1.20	0.94	700	292	63	33	29
flex-G-US131-CS54013-08-18-1994	10.57	7.71	6.18	4.64	3.59	2.23	1.18	0.56	700	290	50	29	30
flex-G-US131-CS54013-08-18-1994	8.62	6.31	5.00	3.78	2.97	1.88	1.00	0.92	700	333	71	37	35
flex-G-US131-CS54013-08-18-1994	10.37	7.47	5.98	4.54	3.51	2.23	1.17	0.47	700	265	68	29	30
flex-G-US131-CS54013-08-18-1994	8.63	6.12	4.86	3.69	2.90	1.88	1.05	0.66	700	308	66	45	34
flex-G-US131-CS54013-08-18-1994	10.36	7.81	6.42	5.01	4.01	2.62	1.42	0.56	700	318	67	29	25
flex-G-US131-CS54013-08-18-1994	11.75	9.16	7.62	6.18	5.06	3.54	2.01	0.70	700	302	69	28	18
flex-G-US131-CS54013-08-18-1994	9.31	6.86	5.56	4.28	3.33	2.11	1.09	0.51	700	319	83	30	32
flex-G-US131-CS54013-08-18-1994	9.67	7.35	5.96	4.57	3.70	2.35	1.20	1.22	700	325	90	26	29
flex-G-US131-CS54013-08-18-1994	9.39	7.10	5.86	4.70	3.78	2.62	1.52	0.52	700	358	64	41	24
flex-G-US131-CS54013-08-18-1994	10.60	7.98	6.46	4.96	3.89	2.44	1.25	0.74	700	308	65	25	28
flex-G-US131-CS54013-08-18-1994	11.07	8.27	6.71	5.09	4.02	2.57	1.35	0.72	700	288	55	27	26
flex-G-US131-CS54013-08-18-1994	10.60	7.99	6.64	5.22	4.19	2.78	1.51	0.34	700	302	79	28	24
flex-G-US131-CS54013-08-18-1994	9.83	7.31	5.87	4.51	3.60	2.40	1.35	0.81	700	319	49	39	26
flex-G-US131-CS54013-08-18-1994	9.59	7.03	5.68	4.52	3.58	2.48	1.45	0.75	700	308	58	45	25
flex-G-US131-CS54013-08-18-1994	10.31	7.36	5.75	4.39	3.39	2.14	1.16	0.97	700	257	57	33	30
flex-G-US131-CS54013-08-18-1994	10.02	7.32	5.85	4.47	3.45	2.18	1.14	0.65	700	289	64	30	30
flex-G-US131-CS54013-08-18-1994	8.79	6.41	5.12	4.01	3.14	2.03	1.12	0.96	700	329	72	39	32
flex-G-US131-CS54013-08-18-1994	9.13	6.71	5.35	4.16	3.26	2.12	1.15	0.83	700	317	71	36	30
flex-G-US131-CS54013-08-18-1994	10.06	7.14	5.82	4.46	3.55	2.31	1.23	0.42	700	243	99	31	29

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-US131-CS54013-08-18-1994	9.39	6.76	5.47	4.18	3.30	2.16	1.24	0.65	700	314	51	43	29
flex-G-US131-CS54013-08-18-1994	10.85	8.20	6.71	5.32	4.31	2.99	1.72	0.62	700	299	54	36	21
flex-G-US131-CS54013-08-18-1994	12.85	9.74	8.06	6.52	5.37	3.76	2.06	0.90	700	219	101	24	17
flex-G-US131-CS54013-08-18-1994	8.91	6.69	5.48	4.37	3.44	2.33	1.34	0.71	700	385	54	43	27
flex-G-US131-CS54013-08-18-1994	10.26	7.80	6.39	5.01	3.98	2.59	1.31	0.79	700	303	97	24	27
flex-G-US131-CS54013-08-18-1994	11.12	8.47	6.73	5.16	4.07	2.74	1.46	1.49	700	286	50	30	24
flex-G-US131-CS54013-08-18-1994	10.72	8.06	6.53	5.19	4.18	2.88	1.60	0.88	700	276	73	32	22
flex-G-US131-CS54013-08-18-1994	10.01	7.29	5.91	4.54	3.60	2.36	1.23	0.80	700	261	97	29	28
flex-G-US131-CS54013-08-18-1994	11.43	8.70	7.12	5.51	4.40	2.99	1.66	0.69	700	301	43	31	21
flex-G-US131-CS54013-08-18-1994	10.18	7.93	6.54	5.15	4.06	2.68	1.47	0.54	700	405	37	32	24
flex-G-US131-CS54013-08-18-1994	9.82	7.61	6.24	4.84	3.95	2.73	1.64	0.78	700	415	19	64	22
flex-G-US131-CS54013-08-18-1994	10.20	7.62	5.97	4.48	3.45	2.18	1.18	1.06	700	323	32	36	29
flex-G-US131-CS54013-08-18-1994	9.95	7.20	5.84	4.47	3.51	2.28	1.25	0.35	700	285	66	34	28
flex-G-US131-CS54013-08-18-1994	8.65	6.24	4.92	3.70	2.86	1.87	1.01	0.72	700	324	58	42	34
flex-G-US131-CS54013-08-18-1994	8.22	6.07	4.90	3.69	2.88	1.90	1.04	0.56	700	388	50	45	34
flex-G-US131-CS54013-08-18-1994	9.60	7.16	5.72	4.36	3.42	2.27	1.30	0.68	700	351	30	46	27
flex-G-US131-CS54013-08-18-1994	10.73	7.64	6.03	4.48	3.53	2.22	1.15	1.04	700	234	70	29	30
flex-G-US131-CS54013-08-18-1994	10.50	7.80	6.42	5.04	4.02	2.68	1.48	0.37	700	292	68	31	24
flex-G-US131-CS54013-08-18-1994-(2)	10.72	7.94	6.69	5.29	4.09	2.43	1.26	1.71	700	334	65	23	28
flex-G-US131-CS54013-08-18-1994-(2)	9.80	7.30	6.07	4.74	3.79	2.50	1.46	0.86	700	362	37	42	25
flex-G-US131-CS54013-08-18-1994-(2)	9.15	6.52	5.24	4.05	3.10	2.07	1.07	0.99	700	263	108	34	32
flex-G-US131-CS54013-08-18-1994-(2)	9.05	6.72	5.43	3.98	3.04	1.89	1.00	0.48	700	386	25	40	35
flex-G-US131-CS54013-08-18-1994-(2)	9.13	6.89	5.55	4.14	3.23	2.17	1.29	0.58	700	410	9	122	28

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-US131-CS54013-08-18-1994-(2)	8.58	6.01	4.59	3.32	2.48	1.51	0.85	0.97	700	326	25	55	41
flex-G-US131-CS54013-08-18-1994-(2)	10.69	7.51	5.88	4.35	3.33	2.17	1.14	1.07	700	227	56	33	30
flex-G-US131-CS54013-08-18-1994-(2)	9.52	6.79	5.39	4.07	3.15	2.07	1.07	1.06	700	255	88	34	32
flex-G-US131-CS54013-08-18-1994-(2)	9.69	6.83	5.34	3.93	3.11	1.99	1.04	1.41	700	241	76	35	33
flex-G-US131-CS54013-08-18-1994-(2)	9.81	7.32	5.96	4.43	3.51	2.25	1.13	1.30	700	301	78	28	30
flex-G-US131-CS54013-08-18-1994-(2)	9.25	6.88	5.56	4.23	3.34	2.23	1.20	0.94	700	322	62	37	29
flex-G-US131-CS54013-08-18-1994-(2)	9.20	7.05	5.78	4.48	3.62	2.51	1.51	0.54	700	415	16	76	24
flex-G-US131-CS54013-08-18-1994-(2)	9.65	7.19	5.70	4.20	3.23	2.04	1.02	1.45	700	310	56	30	33
flex-G-US131-CS54013-08-18-1994-(2)	9.73	7.36	5.86	4.36	3.34	2.06	0.99	1.33	700	323	64	25	34
flex-G-US131-CS54013-08-18-1994-(2)	9.08	6.71	5.33	3.91	3.04	1.93	1.01	1.11	700	334	44	37	34
flex-G-US131-CS54013-08-18-1994-(2)	9.55	7.33	5.85	4.42	3.44	2.21	1.10	1.56	700	341	63	28	31
flex-G-US131-CS54013-08-18-1994-(3)	9.42	6.69	5.29	3.97	3.08	1.92	0.97	0.88	700	254	90	30	35
flex-G-US131-CS54013-08-18-1994-(3)	10.23	7.37	5.91	4.49	3.47	2.20	1.15	0.47	700	263	63	30	30
flex-G-US131-CS54013-08-18-1994-(3)	8.50	6.02	4.78	3.63	2.85	1.85	1.03	0.65	700	303	63	45	34
flex-G-US131-CS54013-08-18-1994-(3)	10.26	7.74	6.36	4.96	3.97	2.59	1.41	0.58	700	315	61	30	25
flex-G-US131-CS54013-08-18-1994-(3)	11.64	9.07	7.54	6.12	5.02	3.51	1.99	0.74	700	296	67	28	18
flex-G-US131-CS54013-08-18-1994-(3)	9.19	6.77	5.48	4.22	3.29	2.08	1.08	0.52	700	316	77	30	32
flex-G-US131-CS54013-08-18-1994-(3)	9.55	7.26	5.89	4.52	3.66	2.32	1.18	1.25	700	320	85	26	29
flex-G-US131-CS54013-08-18-1994-(3)	9.29	7.02	5.80	4.65	3.74	2.59	1.51	0.51	700	353	58	42	24
flex-G-US131-CS54013-08-18-1994-(3)	10.47	7.88	6.37	4.90	3.84	2.41	1.23	0.76	700	301	62	25	28
flex-G-US131-CS54013-08-18-1994-(3)	10.99	8.21	6.66	5.06	3.99	2.55	1.34	0.74	700	281	52	27	26
flex-G-US131-CS54013-08-18-1994-(3)	10.53	7.93	6.59	5.19	4.16	2.76	1.50	0.36	700	298	75	28	24
flex-G-US131-CS54013-08-18-1994-(3)	9.75	7.25	5.82	4.47	3.57	2.38	1.34	0.85	700	313	44	40	26

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-US131-CS54013-08-18-1994-(3)	9.49	6.96	5.62	4.47	3.55	2.45	1.43	0.77	700	305	53	46	25
flex-G-US131-CS54013-08-18-1994-(3)	10.25	7.31	5.72	4.36	3.37	2.13	1.15	0.95	700	252	55	33	30
flex-G-US131-CS54013-08-18-1994-(3)	9.98	7.30	5.83	4.45	3.44	2.17	1.13	0.66	700	284	61	30	30
flex-G-US131-CS54013-08-18-1994-(3)	8.70	6.34	5.08	3.97	3.11	2.00	1.11	0.96	700	329	64	39	32
flex-G-US131-CS54013-08-18-1994-(3)	9.08	6.68	5.32	4.14	3.24	2.11	1.14	0.84	700	310	69	36	30
flex-G-US131-CS54013-08-18-1994-(3)	9.96	7.07	5.76	4.41	3.51	2.28	1.22	0.43	700	241	95	31	29
flex-G-US131-CS54013-08-18-1994-(3)	9.30	6.70	5.42	4.14	3.27	2.14	1.23	0.63	700	310	45	44	29
flex-G-US131-CS54013-08-18-1994-(3)	10.77	8.14	6.66	5.27	4.27	2.96	1.71	0.64	700	295	49	37	21
flex-G-US131-CS54013-08-18-1994-(3)	12.77	9.68	8.00	6.48	5.33	3.73	2.05	0.90	700	217	98	24	17
flex-G-US131-CS54013-08-18-1994-(3)	8.84	6.64	5.45	4.33	3.42	2.32	1.33	0.66	700	380	48	44	27
flex-G-US131-CS54013-08-18-1994-(3)	10.20	7.75	6.36	4.98	3.96	2.57	1.30	0.79	700	300	93	24	27
flex-G-US131-CS54013-08-18-1994-(3)	11.01	8.39	6.67	5.11	4.03	2.71	1.44	1.49	700	282	45	30	24
flex-G-US131-CS54013-08-18-1994-(3)	10.66	8.01	6.50	5.16	4.16	2.86	1.59	0.89	700	273	69	32	22
flex-G-US131-CS54013-08-18-1994-(3)	9.95	7.25	5.87	4.51	3.58	2.35	1.22	0.85	700	258	94	29	28
flex-G-US131-CS54013-08-18-1994-(3)	11.40	8.68	7.11	5.50	4.39	2.98	1.65	0.71	700	296	39	32	21
flex-G-US131-CS54013-08-18-1994-(3)	10.12	7.88	6.50	5.12	4.03	2.66	1.46	0.55	700	396	33	33	24
flex-G-US131-CS54013-08-18-1994-(3)	9.74	7.55	6.19	4.80	3.92	2.71	1.63	0.81	700	404	16	71	22
flex-G-US131-CS54013-08-18-1994-(3)	10.14	7.58	5.94	4.45	3.43	2.17	1.17	1.09	700	316	29	36	29
flex-G-US131-CS54013-08-18-1994-(3)	9.85	7.12	5.78	4.43	3.47	2.26	1.24	0.35	700	282	61	34	28
flex-G-US131-CS54013-08-18-1994-(3)	8.58	6.18	4.88	3.68	2.84	1.85	1.00	0.73	700	319	53	43	35
flex-G-US131-CS54013-08-18-1994-(3)	8.20	6.06	4.88	3.68	2.88	1.89	1.04	0.59	700	380	44	46	33
flex-G-US131-CS54013-08-18-1994-(3)	9.57	7.14	5.70	4.35	3.41	2.26	1.30	0.70	700	344	26	49	27
flex-G-US131-CS54013-08-18-1994-(3)	10.65	7.59	5.99	4.45	3.50	2.20	1.14	1.07	700	230	66	29	30

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-US131-CS54013-08-18-1994-(3)	10.47	7.78	6.40	5.02	4.00	2.67	1.48	0.37	700	288	64	31	24
flex-G-US131-CS54013-08-18-1994-(4)	9.59	7.33	5.64	4.42	3.52	2.43	1.39	1.86	700	324	31	50	25
flex-G-US131-CS54013-08-18-1994-(4)	10.53	7.80	6.57	5.20	4.02	2.39	1.24	1.72	700	336	63	23	28
flex-G-US131-CS54013-08-18-1994-(4)	9.60	7.15	5.94	4.65	3.72	2.45	1.42	0.80	700	357	40	41	25
flex-G-US131-CS54013-08-18-1994-(4)	10.48	7.45	6.03	4.69	3.75	2.32	1.27	1.42	700	238	91	30	28
flex-G-US131-CS54013-08-18-1994-(4)	9.11	6.49	5.21	4.03	3.09	2.06	1.06	1.02	700	262	109	34	32
flex-G-US131-CS54013-08-18-1994-(4)	8.91	6.62	5.36	3.93	2.99	1.86	0.99	0.47	700	387	24	40	35
flex-G-US131-CS54013-08-18-1994-(4)	8.99	6.79	5.47	4.08	3.18	2.14	1.27	0.58	700	409	9	122	28
flex-G-US131-CS54013-08-18-1994-(4)	8.42	5.90	4.50	3.26	2.43	1.49	0.83	0.96	700	325	26	54	42
flex-G-US131-CS54013-08-18-1994-(4)	10.57	7.43	5.82	4.30	3.29	2.15	1.13	1.04	700	228	55	33	30
flex-G-US131-CS54013-08-18-1994-(4)	9.44	6.73	5.34	4.04	3.13	2.05	1.06	1.04	700	255	88	34	32
flex-G-US131-CS54013-08-18-1994-(4)	9.61	6.79	5.30	3.90	3.09	1.98	1.03	1.42	700	242	76	35	33
flex-G-US131-CS54013-08-18-1994-(4)	9.72	7.25	5.90	4.39	3.48	2.23	1.12	1.30	700	301	77	28	30
flex-G-US131-CS54013-08-18-1994-(4)	9.18	6.83	5.51	4.20	3.32	2.22	1.19	0.96	700	321	63	37	29
flex-G-US131-CS54013-08-18-1994-(4)	9.12	6.98	5.72	4.45	3.58	2.49	1.50	0.52	700	416	16	78	24
flex-G-US131-CS54013-08-18-1994-(4)	9.55	7.11	5.64	4.16	3.20	2.02	1.01	1.43	700	310	57	30	33
flex-G-US131-CS54013-08-18-1994-(4)	9.65	7.30	5.82	4.33	3.32	2.05	0.98	1.31	700	325	63	25	34
flex-G-US131-CS54013-08-18-1994-(4)	8.99	6.64	5.28	3.87	3.00	1.91	1.00	1.11	700	334	44	37	34
flex-G-US131-CS54013-08-18-1994-(4)	9.47	7.27	5.80	4.38	3.42	2.20	1.09	1.58	700	340	64	28	31
flex-G-US131-CS54013-08-18-1994-(5)	9.79	7.48	5.76	4.51	3.59	2.48	1.42	1.86	700	322	34	48	25
flex-G-US131-CS54013-08-18-1994-(5)	10.72	7.94	6.69	5.29	4.09	2.43	1.26	1.73	700	340	57	23	28
flex-G-US131-CS54013-08-18-1994-(5)	9.80	7.30	6.07	4.74	3.79	2.50	1.46	0.85	700	362	38	42	25
flex-G-US131-CS54013-08-18-1994-(5)	10.60	7.54	6.10	4.75	3.79	2.35	1.29	1.43	700	240	82	29	28

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-US131-CS54013-08-18-1994-(5)	9.15	6.52	5.24	4.05	3.10	2.07	1.07	0.97	700	264	99	33	32
flex-G-US131-CS54013-08-18-1994-(5)	9.05	6.72	5.43	3.98	3.04	1.89	1.00	0.49	700	384	27	40	35
flex-G-US131-CS54013-08-18-1994-(5)	9.13	6.89	5.55	4.14	3.23	2.17	1.29	1.46	700	409	11	100	28
flex-G-US131-CS54013-08-18-1994-(5)	8.58	6.01	4.59	3.32	2.48	1.51	0.85	0.96	700	326	27	54	41
flex-G-US131-CS54013-08-18-1994-(5)	10.69	7.51	5.88	4.35	3.33	2.17	1.14	1.06	700	227	55	33	30
flex-G-US131-CS54013-08-18-1994-(5)	9.52	6.79	5.39	4.07	3.15	2.07	1.07	1.03	700	256	82	33	32
flex-G-US131-CS54013-08-18-1994-(5)	9.69	6.83	5.34	3.93	3.11	1.99	1.04	1.39	700	242	72	35	33
flex-G-US131-CS54013-08-18-1994-(5)	9.81	7.32	5.96	4.43	3.51	2.25	1.13	1.27	700	302	72	28	31
flex-G-US131-CS54013-08-18-1994-(5)	9.25	6.88	5.56	4.23	3.34	2.23	1.20	0.94	700	321	61	36	29
flex-G-US131-CS54013-08-18-1994-(5)	9.20	7.05	5.78	4.48	3.62	2.51	1.51	0.54	700	412	19	71	24
flex-G-US131-CS54013-08-18-1994-(5)	9.65	7.19	5.70	4.20	3.23	2.04	1.02	1.43	700	310	54	29	34
flex-G-US131-CS54013-08-18-1994-(5)	9.73	7.36	5.86	4.36	3.34	2.06	0.99	1.30	700	324	59	25	34
flex-G-US131-CS54013-08-18-1994-(5)	9.08	6.71	5.33	3.91	3.04	1.93	1.01	1.10	700	333	44	37	34
flex-G-US131-CS54013-08-18-1994-(5)	9.55	7.33	5.85	4.42	3.44	2.21	1.10	1.54	700	341	59	28	31
flex-G-US131-CS59012-06-25-1998	7.64	6.14	5.31	4.37	3.46	2.36	1.38	0.71	700	735	6	170	27
flex-G-US131-CS59012-06-25-1998	8.39	6.42	5.55	4.57	3.66	2.40	1.42	1.72	700	530	24	47	26
flex-G-US131-CS59012-06-25-1998	8.62	6.65	5.79	4.72	3.78	2.56	1.50	1.08	700	509	27	44	24
flex-G-US131-CS59012-06-25-1998	8.82	6.77	5.75	4.69	3.74	2.48	1.50	1.39	700	524	8	108	24
flex-G-US131-CS59012-06-25-1998	7.44	5.71	5.04	4.29	3.43	2.32	1.30	1.64	700	482	181	33	29
flex-G-US131-CS59012-06-25-1998	8.78	6.69	5.71	4.61	3.62	2.36	1.26	0.73	700	413	72	30	29
flex-G-US131-CS59012-06-25-1998	8.46	6.61	5.63	4.69	3.62	2.40	1.30	1.29	700	506	46	32	28
flex-G-US131-CS59012-06-25-1998	8.39	6.38	5.55	4.61	3.62	2.36	1.30	1.63	700	459	81	31	28
flex-G-US131-CS59012-06-25-1998	6.46	5.31	4.61	3.94	3.15	2.17	1.22	1.14	700	935	20	54	30

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-US131-CS59012-06-25-1998	7.56	5.75	5.04	4.17	3.23	2.17	1.18	1.57	700	510	89	34	31
flex-G-US131-CS59012-06-25-1998	8.94	6.69	5.35	4.25	3.19	2.05	1.14	1.33	700	385	18	47	31
flex-G-US131-CS59012-06-25-1998	8.98	6.69	5.55	4.41	3.43	2.17	1.14	0.81	700	361	64	31	31
flex-G-US131-CS59012-06-25-1998	8.31	6.50	5.35	4.17	3.11	2.05	1.10	1.14	700	498	9	71	32
flex-G-US131-CS59012-06-25-1998	7.91	6.02	5.20	4.17	3.19	1.97	1.06	1.60	700	628	5	113	34
flex-G-US131-CS59012-06-25-1998	7.95	5.94	5.04	4.06	3.15	2.01	1.14	1.57	700	497	23	48	31
flex-G-US131-CS59012-06-25-1998	8.78	6.42	5.28	4.17	3.19	2.05	1.14	1.10	700	361	38	40	31
flex-G-US131-CS59012-06-25-1998	7.80	5.94	5.00	4.06	3.11	2.01	1.14	1.40	700	554	12	68	31
flex-G-US131-CS59012-06-25-1998	8.98	6.69	5.51	4.21	3.23	2.05	1.14	0.43	700	403	13	53	31
flex-G-M57-CS41122-8-23-1994	17.24	12.70	9.70	6.65	4.93	3.09	1.69	0.44	700	1,019	33	22	21
flex-G-M57-CS41122-8-23-1994	13.09	9.84	7.47	5.04	3.84	2.53	1.46	1.08	700	1,539	32	40	24
flex-G-M57-CS41122-8-23-1994	12.98	9.82	7.48	5.25	4.05	2.61	1.43	1.13	700	1,275	51	29	25
flex-G-M57-CS41122-8-23-1994	11.49	9.00	7.13	5.03	3.83	2.41	1.26	1.06	700	1,917	59	26	28
flex-G-M57-CS41122-8-23-1994	10.56	8.51	6.88	4.98	3.89	2.54	1.43	0.92	700	2,876	46	36	25
flex-G-M57-CS41122-8-23-1994	10.37	8.36	6.74	4.82	3.74	2.42	1.31	1.18	700	2,702	54	32	27
flex-G-M57-CS41122-8-23-1994	11.04	8.72	6.83	4.83	3.70	2.43	1.42	0.89	700	2,527	32	46	25
flex-G-M57-CS41122-8-23-1994	11.48	8.90	6.90	4.72	3.37	1.88	0.95	0.64	700	2,330	39	25	36
flex-G-M57-CS41122-8-23-1994	9.87	7.51	5.73	3.90	2.84	1.73	0.95	0.71	700	2,257	45	39	37
flex-G-M57-CS41122-8-23-1994	11.10	8.71	6.75	4.70	3.57	2.37	1.41	1.96	700	2,566	28	48	26
flex-G-M57-CS41122-8-23-1994	10.38	7.86	5.86	4.08	3.07	1.98	1.15	1.07	700	1,914	43	46	31
flex-G-M57-CS41122-8-23-1994	9.27	7.33	5.85	4.25	3.23	2.08	1.21	0.57	700	3,444	36	50	29
flex-G-M57-CS41122-8-23-1994	9.59	7.56	6.10	4.37	3.32	2.17	1.27	0.80	700	3,282	33	50	28
flex-G-M57-CS41122-8-23-1994	11.81	9.33	7.55	5.45	4.16	2.54	1.35	0.59	700	2,417	47	25	26

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-M57-CS41122-8-23-1994	9.63	6.88	5.19	3.59	2.63	1.63	0.89	0.29	700	1,483	66	39	39
flex-G-M57-CS41122-8-23-1994	9.13	7.38	5.81	4.02	2.96	1.83	1.01	1.15	700	3,587	31	47	34
flex-G-M57-CS41122-8-23-1994	9.29	7.26	5.62	3.98	3.04	2.05	1.18	1.17	700	2,521	46	50	30
flex-G-M57-CS41122-8-23-1994	11.09	8.91	6.94	4.97	3.73	2.40	1.35	1.00	700	2,635	33	38	26
flex-G-M57-CS41122-8-23-1994	9.64	7.54	5.81	4.12	3.08	1.98	1.10	0.91	700	2,467	48	41	32
flex-G-M57-CS41122-8-23-1994	10.59	8.28	6.43	4.55	3.42	2.20	1.25	0.77	700	2,424	38	40	28
flex-G-M57-CS41122-8-23-1994	9.86	8.10	6.42	4.66	3.55	2.40	1.48	1.81	700	3,130	36	50	24
flex-G-M57-CS41122-8-23-1994	11.88	9.86	7.95	5.80	4.47	2.98	1.80	1.53	700	3,228	19	50	20
flex-G-M57-CS41122-8-23-1994	8.65	6.61	5.37	3.81	2.84	1.70	0.94	0.84	700	3,444	47	41	37
flex-G-M57-CS41122-8-23-1994	13.77	11.03	9.26	7.13	5.59	3.61	1.88	0.19	700	1,916	72	17	19
flex-G-M57-CS41122-8-23-1994	9.38	7.38	5.83	4.09	3.12	2.00	1.16	0.96	700	3,091	35	50	30
flex-G-M57-CS41122-8-23-1994	10.55	8.15	6.24	4.40	3.34	2.20	1.29	0.87	700	2,210	37	48	27
flex-G-M57-CS41122-8-23-1994	9.87	6.75	5.11	3.53	2.66	1.66	0.94	0.93	700	1,056	72	41	37
flex-G-M57-CS41122-8-23-1994	9.69	6.83	5.13	3.53	2.60	1.61	0.89	0.44	700	1,354	65	40	39
flex-G-M57-CS41122-8-23-1994	9.25	6.86	5.27	3.69	2.76	1.74	1.02	0.92	700	2,273	47	50	35
flex-G-M57-CS41122-8-23-1994	9.33	7.27	5.81	4.19	3.23	2.13	1.27	0.84	700	3,015	44	50	28
flex-G-M57-CS41122-8-23-1994	8.34	6.30	5.03	3.66	2.83	1.88	1.09	0.36	700	2,414	73	49	33
flex-G-M57-CS41122-8-23-1994	10.29	7.13	5.18	3.46	2.56	1.61	0.91	0.69	700	1,187	55	44	39
flex-G-M57-CS41122-8-23-1994	12.36	8.86	6.40	4.21	3.11	1.97	1.16	1.07	700	1,323	33	44	31
flex-G-M57-CS41122-8-23-1994	9.91	7.60	5.95	4.26	3.28	2.11	1.16	0.73	700	1,978	69	36	31
flex-G-M57-CS41122-8-23-1994	9.81	7.79	6.26	4.68	3.69	2.56	1.57	1.20	700	3,107	48	49	23
flex-G-M57-CS41122-8-23-1994	10.23	7.78	6.09	4.42	3.41	2.16	1.17	0.63	700	1,683	77	32	30
flex-G-M57-CS41122-8-23-1994	9.26	6.83	5.22	3.57	2.65	1.66	0.93	0.49	700	1,967	56	44	38

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-M57-CS41122-8-23-1994	8.86	6.75	5.44	3.96	2.96	1.84	1.04	0.81	700	3,144	54	42	34
flex-G-M57-CS41122-8-23-1994	9.85	7.92	6.53	4.89	3.82	2.50	1.42	0.37	700	3,407	53	37	25
flex-G-M57-CS41122-8-23-1994	10.30	8.09	6.50	4.65	3.52	2.16	1.08	0.70	700	2,240	72	25	32
flex-G-M57-CS41122-8-23-1994	9.69	7.46	5.82	4.02	2.93	1.78	0.94	0.67	700	2,382	53	33	37
flex-G-M57-CS41122-8-23-1994	9.79	7.41	5.79	4.07	3.06	1.91	1.06	0.47	700	2,195	55	38	33
flex-G-M57-CS41122-8-23-1994	10.88	8.01	5.95	4.25	3.32	2.29	1.33	1.12	700	1,259	56	46	27
flex-G-M57-CS41122-8-23-1994	10.88	8.29	6.35	4.56	3.57	2.47	1.49	1.12	700	1,835	42	50	24
flex-G-M57-CS41122-8-23-1994	10.10	7.75	6.06	4.30	3.26	2.09	1.20	0.54	700	2,421	43	43	29
flex-G-M57-CS41122-8-23-1994	10.54	8.01	6.09	4.47	3.54	2.34	1.44	1.59	700	1,890	48	50	25
flex-G-M57-CS41122-8-23-1994	11.10	8.05	6.25	4.40	3.39	2.15	1.25	1.02	700	1,483	56	38	29
flex-G-M57-CS41122-8-23-1994	10.28	8.23	6.64	4.85	3.83	2.39	1.28	1.11	700	2,561	70	28	28
flex-G-M57-CS41122-8-23-1994	9.99	7.58	5.84	4.22	3.17	2.18	1.28	1.25	700	2,157	46	50	28
flex-G-M57-CS41122-8-23-1994	11.54	8.96	6.94	5.02	3.78	2.34	1.28	0.84	700	1,973	50	29	27
flex-G-M57-CS41122-8-23-1994	11.25	8.05	6.03	4.24	3.21	2.09	1.19	0.51	700	1,184	57	39	30
flex-G-M57-CS41122-8-23-1994	10.36	7.84	6.07	4.21	3.13	1.91	1.02	0.58	700	1,911	58	32	34
flex-G-M57-CS41122-8-23-1994	10.36	7.57	5.83	4.09	3.04	1.96	1.11	0.19	700	1,688	54	40	32
flex-G-M57-CS41122-8-23-1994	10.79	7.74	5.83	3.89	2.80	1.64	0.92	0.98	700	1,741	42	38	38
flex-G-M57-CS41122-8-23-1994	11.02	8.10	6.20	4.31	3.19	2.02	1.20	0.87	700	1,954	36	46	30
flex-G-M57-CS41122-8-23-1994	10.71	8.01	6.18	4.48	3.41	2.20	1.21	0.51	700	1,439	69	33	29
flex-G-M57-CS41122-8-23-1994	11.48	8.92	7.01	5.15	3.98	2.64	1.46	0.74	700	1,697	61	30	24
flex-G-M57-CS41122-8-23-1994	11.15	8.34	6.45	4.71	3.64	2.38	1.34	0.58	700	1,374	66	33	26
flex-G-M57-CS41122-8-23-1994	9.58	7.07	5.55	3.96	3.02	1.96	1.12	0.38	700	1,855	65	42	32
flex-G-M57-CS41122-8-23-1994	9.87	7.31	5.64	4.02	3.09	2.05	1.18	0.44	700	1,726	61	45	30

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-M57-CS41122-8-23-1994	10.12	7.49	5.74	4.15	3.18	2.15	1.28	0.59	700	1,792	52	50	28
flex-G-M57-CS29021-5-23-1995	10.37	7.45	5.43	3.47	2.44	1.39	0.73	0.87	700	1,588	52	36	49
flex-G-M57-CS29021-5-23-1995	12.38	9.66	7.70	5.49	4.07	2.48	1.30	0.31	700	2,212	48	25	28
flex-G-M57-CS29021-5-23-1995	11.82	9.10	6.99	4.96	3.75	2.49	1.40	0.90	700	1,850	45	38	26
flex-G-M57-CS29021-5-23-1995	10.85	8.21	6.31	4.36	3.27	2.13	1.22	0.62	700	2,088	41	45	30
flex-G-M57-CS29021-5-23-1995	10.46	7.79	5.94	4.15	3.12	2.04	1.16	0.49	700	1,877	52	45	32
flex-G-M57-CS29021-5-23-1995	11.40	9.31	7.58	5.64	4.37	2.72	1.43	0.68	700	3,000	56	25	26
flex-G-M57-CS29021-5-23-1995	10.47	8.30	6.76	4.97	3.77	2.26	1.11	0.32	700	2,606	80	22	33
flex-G-M57-CS29021-5-23-1995	11.46	9.11	7.43	5.49	4.18	2.56	1.27	0.31	700	2,350	74	21	29
flex-G-M57-CS29021-5-23-1995	11.50	8.99	7.23	5.23	3.96	2.34	1.20	0.65	700	2,378	60	24	30
flex-G-M57-CS29021-5-23-1995	11.51	9.10	7.29	5.32	3.93	2.28	1.12	0.44	700	2,621	58	22	32
flex-G-M57-CS29021-5-23-1995	11.29	8.69	6.99	5.09	3.83	2.35	1.31	0.79	700	2,607	47	32	28
flex-G-M57-CS29021-5-23-1995	11.04	8.50	6.78	4.89	3.67	2.18	1.16	0.74	700	2,408	57	28	32
flex-G-M57-CS29021-5-23-1995	10.02	7.86	6.43	4.71	3.59	2.16	1.09	0.51	700	2,735	79	25	33
flex-G-M57-CS29021-5-23-1995	10.47	7.71	5.80	3.92	2.88	1.75	0.92	0.83	700	1,562	63	34	39
flex-G-M57-CS29021-5-23-1995	11.02	8.59	6.81	4.77	3.46	1.88	0.91	0.69	700	2,761	49	23	38
flex-G-M57-CS29021-5-23-1995	10.14	7.88	6.18	4.33	3.15	1.85	0.93	0.51	700	2,531	58	29	38
flex-G-M57-CS29021-5-23-1995	12.83	10.32	8.40	6.11	4.51	2.63	1.21	0.43	700	2,428	58	16	29
flex-G-M57-CS59021-08-23-1994	13.09	9.84	7.47	5.04	3.84	2.53	1.46	1.08	700	1,539	32	40	24
flex-G-M57-CS59021-08-23-1994	12.98	9.82	7.48	5.25	4.05	2.61	1.43	1.14	700	1,272	51	29	25
flex-G-M57-CS59021-08-23-1994	11.49	9.00	7.13	5.03	3.83	2.41	1.26	1.06	700	1,912	59	26	28
flex-G-M57-CS59021-08-23-1994	10.56	8.51	6.88	4.98	3.89	2.54	1.43	0.92	700	2,871	46	36	25
flex-G-M57-CS59021-08-23-1994	10.37	8.36	6.74	4.82	3.74	2.42	1.31	1.18	700	2,696	54	32	27

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-M57-CS59021-08-23-1994	11.04	8.72	6.83	4.83	3.70	2.43	1.42	0.89	700	2,522	32	46	25
flex-G-M57-CS59021-08-23-1994	11.48	8.90	6.90	4.72	3.37	1.88	0.95	0.64	700	2,324	39	25	36
flex-G-M57-CS59021-08-23-1994	9.87	7.51	5.73	3.90	2.84	1.73	0.95	0.71	700	2,251	45	39	37
flex-G-M57-CS59021-08-23-1994	11.10	8.71	6.75	4.70	3.57	2.37	1.41	0.95	700	2,477	26	55	25
flex-G-M57-CS59021-08-23-1994	10.75	8.44	6.58	4.72	3.56	2.33	1.42	0.76	700	2,914	23	64	25
flex-G-M57-CS59021-08-23-1994	10.38	7.86	5.86	4.08	3.07	1.98	1.15	1.07	700	1,904	43	46	31
flex-G-M57-CS59021-08-23-1994	9.83	7.96	6.50	4.81	3.66	2.31	1.28	0.30	700	3,816	39	37	28
flex-G-M57-CS59021-08-23-1994	9.65	7.70	6.27	4.48	3.42	2.11	1.10	0.79	700	3,067	58	30	32
flex-G-M57-CS59021-08-23-1994	9.27	7.33	5.85	4.25	3.23	2.08	1.21	0.52	700	3,432	37	50	29
flex-G-M57-CS59021-08-23-1994	9.59	7.56	6.10	4.37	3.32	2.17	1.27	0.37	700	3,276	34	51	28
flex-G-M57-CS59021-08-23-1994	11.81	9.33	7.55	5.45	4.16	2.54	1.35	0.59	700	2,413	48	25	26
flex-G-M57-CS59021-08-23-1994	9.09	7.06	5.74	4.17	3.08	1.87	0.93	0.28	700	2,741	80	27	37
flex-G-M57-CS59021-08-23-1994	9.63	7.51	6.02	4.37	3.37	2.26	1.43	0.67	700	3,496	24	90	25
flex-G-M57-CS59021-08-23-1994	9.63	6.88	5.19	3.59	2.63	1.63	0.89	0.28	700	1,480	67	39	39
flex-G-M57-CS59021-08-23-1994	9.13	7.38	5.81	4.02	2.96	1.83	1.01	1.15	700	3,582	31	46	35
flex-G-M57-CS59021-08-23-1994	9.29	7.26	5.62	3.98	3.04	2.05	1.18	1.04	700	2,535	46	51	30
flex-G-M57-CS59021-08-23-1994	11.09	8.91	6.94	4.97	3.73	2.40	1.35	1.00	700	2,630	33	38	26
flex-G-M57-CS59021-08-23-1994	9.64	7.54	5.81	4.12	3.08	1.98	1.10	0.92	700	2,461	49	41	32
flex-G-M57-CS59021-08-23-1994	10.59	8.28	6.43	4.55	3.42	2.20	1.25	0.77	700	2,409	38	40	28
flex-G-M57-CS59021-08-23-1994	9.86	8.10	6.42	4.66	3.55	2.40	1.48	0.94	700	3,808	18	96	24
flex-G-M57-CS59021-08-23-1994	11.88	9.86	7.95	5.80	4.47	2.98	1.80	0.93	700	3,442	15	68	20
flex-G-M57-CS59021-08-23-1994	8.65	6.61	5.37	3.81	2.84	1.70	0.94	0.83	700	3,450	47	41	37
flex-G-M57-CS59021-08-23-1994	13.77	11.03	9.26	7.13	5.59	3.61	1.88	0.19	700	1,912	72	16	19

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-M57-CS59021-08-23-1994	9.38	7.38	5.83	4.09	3.12	2.00	1.16	0.82	700	3,079	36	51	30
flex-G-M57-CS59021-08-23-1994	10.55	8.15	6.24	4.40	3.34	2.20	1.29	0.87	700	2,206	37	47	27
flex-G-M57-CS59021-08-23-1994	9.87	6.76	5.12	3.51	2.64	1.64	0.95	1.11	700	1,182	66	43	37
flex-G-M57-CS59021-08-23-1994	9.59	6.85	5.13	3.50	2.56	1.58	0.88	0.53	700	1,571	58	41	39
flex-G-M57-CS59021-08-23-1994	8.60	6.86	5.53	4.06	3.16	2.11	1.31	0.68	700	4,124	28	83	27
flex-G-M57-CS59021-08-23-1994	8.89	7.04	5.64	4.04	3.13	2.04	1.19	0.76	700	3,248	41	50	29
flex-G-M57-CS59021-08-23-1994	10.18	7.78	6.15	4.51	3.45	2.35	1.45	0.63	700	2,612	34	61	25
flex-G-M57-CS59021-08-23-1994	8.45	6.62	5.43	4.06	3.18	2.17	1.26	0.12	700	3,029	72	47	28
flex-G-M57-CS59021-08-23-1994	8.15	5.67	4.25	2.86	2.12	1.28	0.75	1.70	700	1,857	62	55	47
flex-G-M57-CS59021-08-23-1994	10.72	7.73	5.74	4.08	3.19	2.21	1.35	0.79	700	1,319	46	56	26
flex-G-M57-CS59021-08-23-1994	8.23	5.62	4.15	2.85	2.10	1.30	0.75	1.24	700	1,413	74	52	47
flex-G-M57-CS59021-08-23-1994-(2)	12.61	9.48	7.20	4.86	3.71	2.44	1.41	1.10	700	1,532	32	39	24
flex-G-M57-CS59021-08-23-1994-(2)	12.53	9.48	7.22	5.06	3.91	2.52	1.38	1.18	700	1,264	52	29	25
flex-G-M57-CS59021-08-23-1994-(2)	11.06	8.67	6.86	4.84	3.69	2.32	1.21	1.05	700	1,906	59	26	28
flex-G-M57-CS59021-08-23-1994-(2)	10.21	8.23	6.65	4.81	3.77	2.46	1.39	0.93	700	2,871	46	36	25
flex-G-M57-CS59021-08-23-1994-(2)	10.04	8.09	6.52	4.67	3.62	2.34	1.27	1.16	700	2,717	53	32	27
flex-G-M57-CS59021-08-23-1994-(2)	10.69	8.44	6.61	4.67	3.58	2.36	1.38	0.91	700	2,517	32	46	25
flex-G-M57-CS59021-08-23-1994-(2)	11.11	8.61	6.68	4.56	3.26	1.82	0.92	0.64	700	2,336	39	26	36
flex-G-M57-CS59021-08-23-1994-(2)	9.56	7.27	5.55	3.78	2.76	1.68	0.92	0.70	700	2,266	45	39	37
flex-G-M57-CS59021-08-23-1994-(2)	10.76	8.45	6.54	4.56	3.46	2.30	1.37	0.96	700	2,477	26	55	25
flex-G-M57-CS59021-08-23-1994-(2)	10.44	8.20	6.39	4.58	3.46	2.26	1.38	0.76	700	2,918	23	65	25
flex-G-M57-CS59021-08-23-1994-(2)	10.09	7.64	5.70	3.97	2.99	1.93	1.12	1.07	700	1,923	42	46	31
flex-G-M57-CS59021-08-23-1994-(2)	9.56	7.75	6.33	4.68	3.56	2.25	1.25	0.30	700	3,859	38	37	28

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-M57-CS59021-08-23-1994-(2)	9.41	7.51	6.12	4.36	3.33	2.06	1.07	0.83	700	3,031	59	30	32
flex-G-M57-CS59021-08-23-1994-(2)	9.05	7.16	5.71	4.15	3.15	2.03	1.18	0.50	700	3,426	37	50	29
flex-G-M57-CS59021-08-23-1994-(2)	9.42	7.43	5.99	4.29	3.26	2.13	1.25	0.35	700	3,304	33	52	28
flex-G-M57-CS59021-08-23-1994-(2)	11.59	9.16	7.41	5.34	4.08	2.49	1.32	0.58	700	2,404	48	25	26
flex-G-M57-CS59021-08-23-1994-(2)	8.82	6.85	5.57	4.05	2.99	1.82	0.90	0.32	700	2,706	81	27	37
flex-G-M57-CS59021-08-23-1994-(2)	9.30	7.25	5.81	4.22	3.25	2.19	1.38	0.65	700	3,481	24	88	25
flex-G-M57-CS59021-08-23-1994-(2)	9.34	6.68	5.04	3.48	2.55	1.58	0.87	0.30	700	1,491	66	39	39
flex-G-M57-CS59021-08-23-1994-(2)	8.89	7.18	5.66	3.92	2.88	1.78	0.98	1.15	700	3,576	31	46	35
flex-G-M57-CS59021-08-23-1994-(2)	9.07	7.09	5.49	3.88	2.97	2.00	1.15	1.04	700	2,535	46	51	30
flex-G-M57-CS59021-08-23-1994-(2)	10.88	8.73	6.80	4.88	3.66	2.35	1.33	0.99	700	2,624	34	37	26
flex-G-M57-CS59021-08-23-1994-(2)	9.42	7.37	5.67	4.02	3.01	1.94	1.08	0.92	700	2,458	48	41	32
flex-G-M57-CS59021-08-23-1994-(2)	10.41	8.14	6.32	4.47	3.36	2.16	1.23	0.78	700	2,431	38	41	28
flex-G-M57-CS59021-08-23-1994-(2)	11.70	9.71	7.83	5.72	4.40	2.93	1.77	0.94	700	3,444	15	67	20
flex-G-M57-CS59021-08-23-1994-(2)	9.41	7.50	5.77	3.95	2.93	1.83	1.09	1.20	700	3,261	22	68	32
flex-G-M57-CS59021-08-23-1994-(2)	8.51	6.50	5.28	3.74	2.79	1.68	0.93	0.83	700	3,402	48	41	37
flex-G-M57-CS59021-08-23-1994-(2)	13.54	10.85	9.10	7.01	5.50	3.55	1.85	0.18	700	1,877	72	17	19
flex-G-M57-CS59021-08-23-1994-(2)	9.21	7.25	5.72	4.02	3.06	1.96	1.14	0.83	700	3,066	36	50	30
flex-G-M57-CS59021-08-23-1994-(2)	10.38	8.02	6.14	4.33	3.29	2.17	1.27	0.87	700	2,207	37	47	27
flex-G-M57-CS59021-08-23-1994-(2)	9.72	6.67	5.04	3.46	2.60	1.62	0.93	1.09	700	1,189	65	43	37
flex-G-M57-CS59021-08-23-1994-(2)	9.47	6.76	5.07	3.45	2.53	1.56	0.87	0.53	700	1,554	58	41	39
flex-G-M57-CS59021-08-23-1994-(2)	8.45	6.74	5.44	3.99	3.11	2.08	1.28	0.66	700	4,081	29	81	27
flex-G-M57-CS59021-08-23-1994-(2)	10.79	7.91	5.92	4.22	3.26	2.31	1.47	0.95	700	1,753	31	77	24
flex-G-M57-CS59021-08-23-1994-(2)	9.00	7.13	5.72	4.09	3.17	2.07	1.21	0.77	700	3,254	40	50	29

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-M57-CS59021-08-23-1994-(2)	9.97	7.62	6.03	4.42	3.38	2.30	1.42	0.65	700	2,620	34	61	25
flex-G-M57-CS59021-08-23-1994-(2)	8.31	6.51	5.34	4.00	3.13	2.13	1.24	0.12	700	3,046	71	47	28
flex-G-M57-CS59021-08-23-1994-(2)	8.02	5.57	4.18	2.81	2.09	1.26	0.74	1.71	700	1,872	62	55	47
flex-G-M57-CS59021-08-23-1994-(2)	10.70	7.71	5.73	4.07	3.18	2.21	1.35	0.79	700	1,328	46	56	26
flex-G-M57-CS59021-08-23-1994-(2)	9.86	6.78	5.01	3.50	2.64	1.74	1.10	1.81	700	1,422	46	62	33
flex-G-M57-CS59021-08-23-1994-(2)	8.11	5.54	4.09	2.81	2.07	1.28	0.74	1.30	700	1,421	74	53	47
flex-G-M57-CS59021-08-23-1994-(3)	10.58	8.53	6.95	5.24	4.17	2.87	1.71	0.48	700	2,956	46	44	21
flex-G-M57-CS59021-08-23-1994-(3)	10.26	8.17	6.62	4.85	3.75	2.38	1.29	0.53	700	2,717	61	30	28
flex-G-M57-CS59021-08-23-1994-(3)	8.14	6.33	4.97	3.55	2.56	1.53	0.87	0.72	700	4,152	33	57	41
flex-G-M57-CS59021-08-23-1994-(3)	9.60	7.76	6.41	4.79	3.75	2.45	1.40	0.35	700	3,671	50	39	26
flex-G-M57-CS59021-08-23-1994-(3)	9.89	7.65	6.03	4.24	3.22	2.12	1.18	0.86	700	2,332	52	41	30
flex-G-M57-CS59021-08-23-1994-(3)	9.59	7.71	6.13	4.24	3.10	1.85	0.97	1.02	700	3,339	38	34	35
flex-G-M57-CS59021-08-23-1994-(3)	10.23	7.73	6.02	4.23	3.24	2.16	1.36	0.91	700	2,571	27	75	27
flex-G-M57-CS59021-08-23-1994-(3)	11.72	8.82	6.68	4.78	3.71	2.57	1.50	0.98	700	1,432	47	43	24
flex-G-M57-CS59021-08-23-1994-(3)	9.24	7.28	5.72	4.17	3.27	2.28	1.44	0.75	700	3,088	31	84	25
flex-G-M57-CS59021-08-23-1994-(3)	10.34	7.98	6.22	4.39	3.35	2.17	1.25	0.69	700	2,298	42	43	28
flex-G-M57-CS59021-08-23-1994-(3)	9.53	7.24	5.83	4.18	3.02	1.88	1.15	1.14	700	3,843	18	88	31
flex-G-M57-CS59021-08-23-1994-(3)	9.69	7.42	5.75	4.16	3.19	2.09	1.22	0.73	700	2,230	53	45	29
flex-G-M57-CS59021-08-23-1994-(3)	10.71	8.47	6.81	4.86	3.81	2.65	1.71	1.40	700	3,137	18	100	21
flex-G-M57-CS59021-08-23-1994-(3)	9.69	7.29	5.72	4.14	3.15	2.22	1.42	0.62	700	2,721	27	96	25
flex-G-M57-CS59021-08-23-1994-(3)	25.11	14.76	9.35	5.66	3.98	2.49	1.48	1.60	700	265	19	26	24
flex-G-M57-CS59021-08-23-1994-(3)	7.92	5.76	4.55	3.08	2.17	1.45	0.88	1.02	700	3,267	30	100	41
flex-G-M57-CS59021-08-23-1994-(3)	11.22	7.89	5.94	4.03	3.09	2.02	1.30	1.92	700	1,702	30	68	28

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-M57-CS59021-08-23-1994-(3)	9.50	7.87	6.44	4.62	3.84	2.58	1.60	1.96	700	4,069	27	74	23
flex-G-M57-CS59021-08-23-1994-(3)	10.49	8.41	6.81	5.03	3.88	2.47	1.46	0.75	700	3,613	28	47	25
flex-G-M57-CS59021-08-23-1994-(3)	8.75	7.02	5.89	4.33	3.30	2.14	1.28	0.47	700	5,205	20	88	28
flex-G-M57-CS59021-08-23-1994-(3)	10.24	7.87	6.02	4.32	3.32	2.25	1.44	1.14	700	2,684	24	89	25
flex-G-M57-CS59021-08-23-1994-(3)	10.17	7.47	5.64	4.03	3.03	2.17	1.36	0.67	700	2,037	33	83	27
flex-G-M57-CS59021-08-23-1994-(3)	11.48	9.39	7.47	5.40	4.05	2.42	1.25	0.93	700	2,965	39	25	28
flex-G-M57-CS59021-08-23-1994-(3)	11.67	8.09	5.94	4.26	3.26	2.21	1.33	1.01	700	957	53	47	27
flex-G-M57-CS59021-08-23-1994-(3)	10.22	7.54	5.85	4.19	3.17	2.13	1.24	0.20	700	1,786	53	46	29
flex-G-M57-CS59021-08-23-1994-(3)	11.18	8.03	5.92	3.95	2.82	1.74	1.05	1.20	700	1,878	27	54	34
flex-G-M57-CS59021-08-23-1994-(3)	10.73	8.28	6.80	5.06	3.98	2.61	1.48	0.58	700	2,152	68	32	24
flex-G-M57-CS59021-08-23-1994-(3)	9.65	7.03	5.51	3.98	3.03	1.95	1.14	0.97	700	1,773	65	43	31
flex-G-M57-CS59021-08-23-1994-(3)	9.62	7.26	5.65	4.02	3.07	2.00	1.13	0.44	700	1,980	62	41	32
flex-G-M57-CS59021-08-23-1994-(3)	10.21	7.40	5.57	3.98	3.11	2.12	1.31	0.97	700	1,561	50	58	28
flex-G-M57-CS59021-08-23-1994-(3)	10.08	7.68	6.15	4.48	3.37	2.20	1.23	0.20	700	2,216	61	36	29
flex-G-M57-CS59021-08-23-1994-(4)	10.17	8.21	6.68	5.04	4.01	2.76	1.65	0.49	700	2,951	47	44	21
flex-G-M57-CS59021-08-23-1994-(4)	9.91	7.90	6.39	4.68	3.62	2.30	1.25	0.54	700	2,725	60	31	28
flex-G-M57-CS59021-08-23-1994-(4)	7.84	6.10	4.79	3.42	2.46	1.47	0.84	0.74	700	4,199	32	58	41
flex-G-M57-CS59021-08-23-1994-(4)	9.29	7.50	6.20	4.64	3.62	2.37	1.36	0.33	700	3,700	49	39	26
flex-G-M57-CS59021-08-23-1994-(4)	9.99	8.06	6.58	4.95	3.91	2.59	1.40	0.67	700	2,386	83	28	25
flex-G-M57-CS59021-08-23-1994-(4)	9.58	7.41	5.84	4.11	3.11	2.06	1.15	0.86	700	2,329	51	41	30
flex-G-M57-CS59021-08-23-1994-(4)	9.37	7.53	5.99	4.14	3.03	1.81	0.95	1.01	700	3,332	38	34	35
flex-G-M57-CS59021-08-23-1994-(4)	9.35	7.07	5.56	3.90	2.90	1.73	0.89	0.37	700	2,021	73	29	38
flex-G-M57-CS59021-08-23-1994-(4)	9.95	7.52	5.85	4.11	3.15	2.10	1.32	0.89	700	2,552	27	75	27

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-M57-CS59021-08-23-1994-(4)	11.63	8.06	5.67	3.99	3.11	2.20	1.28	1.39	700	815	49	51	27
flex-G-M57-CS59021-08-23-1994-(4)	11.46	8.63	6.53	4.67	3.63	2.51	1.47	0.97	700	1,439	47	43	24
flex-G-M57-CS59021-08-23-1994-(4)	9.04	7.12	5.60	4.08	3.21	2.24	1.41	0.77	700	3,077	32	83	25
flex-G-M57-CS59021-08-23-1994-(4)	10.12	7.81	6.09	4.30	3.27	2.13	1.22	0.68	700	2,288	43	43	28
flex-G-M57-CS59021-08-23-1994-(4)	9.49	7.27	5.63	4.08	3.13	2.04	1.19	0.70	700	2,235	53	45	29
flex-G-M57-CS59021-08-23-1994-(4)	9.50	7.14	5.61	4.06	3.09	2.18	1.39	0.64	700	2,732	27	97	25
flex-G-M57-CS59021-08-23-1994-(4)	10.16	8.15	6.60	4.88	3.75	2.39	1.41	0.73	700	3,597	28	47	25
flex-G-M57-CS59021-08-23-1994-(4)	8.49	6.81	5.71	4.20	3.20	2.07	1.24	0.50	700	5,221	20	88	28
flex-G-M57-CS59021-08-23-1994-(4)	9.77	7.17	5.42	3.87	2.91	2.09	1.31	0.67	700	2,037	33	84	27
flex-G-M57-CS59021-08-23-1994-(4)	9.49	7.58	6.06	4.42	3.33	2.07	1.04	0.75	700	2,543	75	26	32
flex-G-M57-CS59021-08-23-1994-(4)	11.17	9.14	7.27	5.26	3.94	2.36	1.22	0.91	700	2,977	39	25	28
flex-G-M57-CS59021-08-23-1994-(4)	11.33	7.85	5.76	4.13	3.16	2.14	1.29	1.00	700	964	53	47	27
flex-G-M57-CS59021-08-23-1994-(4)	10.16	7.79	6.02	4.11	3.02	1.77	0.89	0.92	700	1,931	60	27	37
flex-G-M57-CS59021-08-23-1994-(4)	9.97	7.36	5.71	4.09	3.10	2.08	1.21	0.20	700	1,786	53	46	29
flex-G-M57-CS59021-08-23-1994-(4)	10.32	7.39	5.63	3.76	2.70	1.56	0.82	0.57	700	1,543	56	31	41
flex-G-M57-CS59021-08-23-1994-(4)	10.84	7.79	5.74	3.83	2.74	1.69	1.02	1.20	700	1,872	28	54	34
flex-G-M57-CS59021-08-23-1994-(4)	10.40	8.03	6.59	4.91	3.86	2.53	1.44	0.56	700	2,149	68	32	24
flex-G-M57-CS59021-08-23-1994-(4)	11.05	8.74	6.92	5.11	3.94	2.63	1.46	0.77	700	2,030	57	31	24
flex-G-M57-CS59021-08-23-1994-(4)	11.76	8.85	6.84	4.98	3.86	2.54	1.40	0.71	700	1,227	66	30	25
flex-G-M57-CS59021-08-23-1994-(4)	9.47	6.90	5.41	3.90	2.98	1.91	1.12	0.99	700	1,783	64	43	31
flex-G-M57-CS59021-08-23-1994-(4)	9.35	7.06	5.49	3.91	2.98	1.95	1.10	0.42	700	1,986	62	41	32
flex-G-M57-CS59021-08-23-1994-(4)	9.85	7.14	5.37	3.84	3.00	2.04	1.26	0.97	700	1,565	50	59	28
flex-G-M57-CS59021-08-23-1994-(4)	9.78	7.45	5.97	4.35	3.27	2.13	1.19	0.20	700	2,221	61	36	29

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-Su-M28-CS75061-05-21-2008	9.71	8.07	7.09	5.71	4.61	3.06	1.67	0.47	700	1,278	39	28	22
flex-Su-M28-CS75061-05-21-2008	9.41	7.84	6.94	5.63	4.63	3.13	1.77	0.63	700	1,342	44	31	21
flex-Su-M28-CS75061-05-21-2008	9.27	7.64	6.68	5.39	4.37	2.89	1.50	0.37	700	1,058	79	21	25
flex-Su-M28-CS75061-05-21-2008	11.12	9.41	8.30	6.74	5.50	3.66	1.93	0.30	700	1,198	43	19	20
flex-Su-M28-CS75061-05-21-2008	10.20	8.76	7.75	6.42	5.33	3.64	1.99	0.31	700	1,408	51	21	19
flex-Su-M28-CS75061-05-21-2008	9.44	7.94	7.11	5.90	4.83	3.25	1.67	0.60	700	1,315	83	17	23
flex-Su-M28-CS75061-05-21-2008	9.89	8.44	7.47	6.11	4.97	3.26	1.60	0.25	700	1,433	55	16	24
flex-Su-M28-CS75061-05-21-2008	9.85	8.24	7.35	6.00	4.95	3.38	1.90	0.62	700	1,282	52	26	20
flex-Su-M28-CS75061-05-21-2008	10.01	8.81	7.99	6.79	5.80	4.13	2.32	0.33	700	1,841	60	19	17
flex-Su-M28-CS75061-05-21-2008	8.91	7.45	6.53	5.28	4.21	2.63	1.19	0.43	700	1,369	70	15	32
flex-Su-M28-CS75061-05-21-2008	11.07	9.63	8.59	7.21	6.02	4.24	2.41	0.20	700	1,502	36	23	16
flex-Su-US2-CS75021-05-22-2008	5.55	4.69	4.28	3.72	3.19	2.35	1.31	0.78	300	1,761	224	15	28
flex-Su-US2-CS75021-05-22-2008	5.20	4.34	3.90	3.34	2.85	2.04	1.12	0.78	300	1,774	209	21	31
flex-Su-US2-CS75021-05-22-2008	6.30	5.40	5.00	4.38	3.82	2.87	1.77	1.04	300	2,085	163	26	18
flex-Su-US2-CS75021-05-22-2008	6.15	5.29	4.88	4.27	3.71	2.78	1.68	0.92	300	2,224	159	26	19
flex-Su-US2-CS75021-05-22-2008	5.87	5.01	4.60	4.00	3.43	2.46	1.31	1.02	300	2,237	182	12	29
flex-Su-US2-CS75021-05-22-2008	5.62	4.83	4.46	3.84	3.25	2.29	1.16	0.91	300	2,975	142	13	33
flex-Su-US2-CS75021-05-22-2008	6.07	5.29	4.88	4.28	3.72	2.81	1.65	0.55	300	2,368	180	18	21
flex-Su-US2-CS75021-05-22-2008	6.24	5.42	5.03	4.36	3.75	2.75	1.55	0.79	300	2,722	131	19	22
flex-Su-US2-CS75021-05-22-2008	6.08	5.33	4.95	4.37	3.84	2.88	1.73	0.86	300	2,890	158	21	19
flex-Su-US2-CS75021-05-22-2008	6.11	5.36	4.97	4.42	3.87	2.96	1.82	0.71	300	2,714	170	23	18
flex-Su-M28-CS17061-05-22-2008	10.82	9.32	8.19	6.58	5.19	3.15	1.38	0.22	700	2,012	22	13	26
flex-Su-M28-CS17061-05-22-2008	10.50	8.91	7.81	6.29	5.01	3.16	1.43	0.09	700	1,377	97	12	26

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-Su-M28-CS17061-05-22-2008	10.30	8.76	7.74	6.35	5.11	3.30	1.64	0.51	700	1,733	61	17	22
flex-Su-M28-CS17061-05-22-2008	10.05	8.48	7.52	6.17	5.05	3.42	1.85	0.44	700	1,445	85	23	20
flex-Su-M28-CS17061-05-22-2008	9.73	8.13	7.19	5.77	4.67	3.05	1.56	0.48	700	1,413	87	20	23
flex-Su-M28-CS17061-05-22-2008	10.65	9.21	8.26	6.87	5.66	3.88	2.13	0.36	700	1,990	35	25	17
flex-Su-M28-CS17061-05-22-2008	10.51	9.10	8.15	6.85	5.68	3.92	2.14	0.41	700	1,870	66	21	18
flex-Su-M28-CS17061-05-22-2008	9.43	7.99	7.08	5.80	4.70	3.10	1.57	0.41	700	1,618	96	19	24
flex-Su-M28-CS17061-05-22-2008	9.23	7.88	7.03	5.84	4.83	3.26	1.71	0.47	700	1,641	126	19	22
flex-Su-M28-CS17061-05-22-2008	10.43	8.97	7.96	6.56	5.38	3.61	1.82	0.14	700	1,478	107	15	21
flex-N-US23-CS1052-06-03-2008	10.18	7.35	6.13	4.87	3.96	2.80	1.62	1.37	200	732	96	54	15
flex-N-US23-CS1052-06-03-2008	13.12	9.84	7.98	6.10	4.83	3.23	1.82	1.46	200	1,097	41	43	13
flex-N-US23-CS1052-06-03-2008	9.13	6.78	5.64	4.52	3.75	2.73	1.70	1.49	200	1,180	81	79	14
flex-N-US23-CS1052-06-03-2008	9.36	6.93	5.76	4.53	3.65	2.51	1.48	1.90	200	1,323	73	62	16
flex-N-US23-CS1052-06-03-2008	8.84	6.32	5.19	4.10	3.30	2.35	1.42	1.91	200	1,036	83	77	17
flex-N-US23-CS1052-06-03-2008	10.60	7.54	5.92	4.26	3.19	1.88	0.93	1.78	200	1,041	57	37	25
flex-N-US23-CS71073-06-04-2008	11.74	9.26	7.71	5.94	4.69	3.11	1.71	0.41	700	443	34	28	21
flex-N-US23-CS71073-06-04-2008	10.85	8.31	6.86	5.06	3.85	2.48	1.46	0.27	700	523	9	105	25
flex-N-US23-CS71073-06-04-2008	11.31	8.52	7.06	5.45	4.24	2.76	1.57	0.67	700	403	36	33	23
flex-N-US23-CS71073-06-04-2008	11.33	8.45	7.16	5.66	4.58	3.14	1.82	0.55	700	327	71	32	20
flex-N-US23-CS71073-06-04-2008	11.65	9.83	8.51	7.06	5.78	4.08	2.38	0.41	700	717	25	32	15
flex-N-US23-CS71073-06-04-2008	10.88	8.62	7.26	5.88	4.75	3.27	1.81	0.39	700	420	77	26	20
flex-N-US23-CS71073-06-04-2008	12.13	9.38	7.74	5.96	4.65	2.98	1.59	0.29	700	386	42	24	22
flex-N-US23-CS71073-06-04-2008	13.68	10.57	8.54	6.52	5.08	3.25	1.79	0.70	700	340	26	25	19
flex-N-US23-CS71073-06-04-2008	15.08	11.85	9.65	7.26	5.54	3.41	1.73	0.59	700	339	23	18	20

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-US23-CS71073-06-04-2008	12.18	9.61	8.25	6.59	5.31	3.63	2.05	0.27	700	429	50	25	18
flex-N-US23-CS71073-06-04-2008	7.18	5.78	5.10	4.22	3.50	2.47	1.41	0.39	700	740	150	36	26
flex-N-US23-CS71073-06-04-2008-(2)	7.38	6.03	5.35	4.55	3.85	2.80	1.63	0.70	300	946	158	38	19
flex-N-US23-CS71073-06-04-2008-(2)	5.71	4.70	4.30	3.77	3.26	2.52	1.54	0.70	300	982	341	48	20
flex-N-US23-CS71073-06-04-2008-(2)	6.08	4.91	4.35	3.69	3.12	2.30	1.31	0.40	300	921	229	42	24
flex-N-US23-CS71073-06-04-2008-(2)	5.64	4.62	4.13	3.49	2.98	2.19	1.26	0.47	300	1,153	238	44	25
flex-N-US23-CS71073-06-04-2008-(2)	5.72	4.61	4.13	3.45	2.86	2.04	1.15	0.95	300	1,294	177	46	27
flex-N-US23-CS71073-06-04-2008-(2)	6.60	5.43	4.80	3.99	3.32	2.33	1.18	0.19	300	1,071	193	22	28
flex-N-US23-CS71073-06-04-2008-(2)	7.13	5.72	5.00	4.03	3.23	2.13	1.08	0.77	300	1,165	100	30	28
flex-N-US23-CS71073-06-04-2008-(2)	8.75	7.36	6.47	5.26	4.19	2.61	1.06	0.39	300	1,409	72	12	29
flex-N-US23-CS4032-06-03-2008	9.31	7.87	7.16	6.21	5.34	4.00	2.40	0.97	150	1,346	113	53	7
flex-N-US23-CS4032-06-03-2008	6.71	5.65	5.13	4.56	3.95	2.98	1.80	1.11	150	1,230	283	66	10
flex-N-US23-CS4032-06-03-2008	8.27	7.20	6.64	5.88	5.11	3.81	2.14	0.79	150	1,374	286	31	9
flex-N-US23-CS4032-06-03-2008	7.70	6.10	5.43	4.63	3.96	2.93	1.68	0.86	150	641	212	65	11
flex-N-US23-CS4032-06-03-2008	7.36	6.29	5.78	5.05	4.35	3.23	1.86	0.94	150	1,596	220	48	10
flex-N-US23-CS4032-06-03-2008	7.42	6.39	5.83	5.09	4.39	3.14	1.56	0.57	150	1,187	387	20	14
flex-N-US23-CS4032-06-03-2008	8.91	6.19	4.83	3.36	2.44	1.37	0.62	1.82	150	652	37	58	29
flex-N-US23-CS4032-06-03-2008	12.32	9.36	7.73	6.01	4.78	3.12	1.54	0.92	150	516	49	37	12
flex-Su-I75-CS49025-05-22-2008	6.45	4.78	3.94	2.91	2.09	0.99	0.21	0.67	150	611	62	19	68
flex-Su-I75-CS49025-05-22-2008	5.96	4.42	3.69	2.72	1.95	0.95	0.24	0.82	150	717	51	26	64
flex-Su-I75-CS49025-05-22-2008	5.94	4.52	3.74	2.82	2.03	1.07	0.38	0.80	150	838	17	117	45
flex-Su-I75-CS49025-05-22-2008	6.39	4.81	4.07	3.07	2.28	1.22	0.44	1.27	150	785	21	72	39
flex-B-M57-CS29022-08-30-1994	19.95	14.23	10.17	6.24	4.18	2.21	1.13	1.81	700	208	15	19	29

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-B-M57-CS29022-08-30-1994	16.78	11.52	8.33	5.29	3.75	2.15	1.18	1.24	700	228	20	27	29
flex-B-M57-CS29022-08-30-1994	13.63	9.51	7.10	4.72	3.42	2.07	1.15	0.69	700	305	25	34	31
flex-B-M57-CS29022-08-30-1994	19.29	13.78	9.96	6.49	4.62	2.69	1.36	1.92	700	195	22	19	25
flex-B-M57-CS29022-08-30-1994	20.53	15.36	11.74	8.14	6.04	3.57	1.76	1.47	700	219	26	14	19
flex-B-M57-CS29022-08-30-1994	14.95	10.61	7.81	5.13	3.73	2.22	1.25	1.25	700	296	19	34	28
flex-B-M57-CS29022-08-30-1994	12.44	8.86	6.71	4.56	3.37	2.05	1.16	0.81	700	363	27	38	31
flex-B-M57-CS29022-08-30-1994	17.00	12.00	8.80	5.92	4.38	2.77	1.53	1.30	700	229	22	29	23
flex-B-M57-CS29022-08-30-1994	19.76	14.50	11.03	7.62	5.63	3.37	1.74	1.13	700	222	24	17	20
flex-B-M57-CS29022-08-30-1994	18.16	13.22	9.71	6.47	4.85	3.04	1.67	1.86	700	230	19	26	21
flex-B-M57-CS29022-08-30-1994	21.87	15.14	10.80	6.77	4.58	2.57	1.30	1.62	700	166	17	18	25
flex-B-M57-CS29022-08-30-1994	16.91	12.08	9.06	6.11	4.43	2.52	1.24	1.16	700	229	31	18	27
flex-B-M57-CS29022-08-30-1994	18.57	12.95	9.54	6.28	4.49	2.64	1.43	0.91	700	214	19	23	24
flex-B-M57-CS29022-08-30-1994	17.71	12.58	9.33	6.17	4.46	2.62	1.37	1.28	700	225	23	21	25
flex-B-M57-CS29022-08-30-1994	16.08	11.41	8.43	5.69	4.17	2.50	1.34	1.18	700	244	26	25	26
flex-B-M57-CS29022-08-30-1994	19.79	14.37	10.89	7.65	5.71	3.55	1.92	0.96	700	214	23	20	18
flex-B-M57-CS29022-08-30-1994	17.66	12.90	9.88	7.11	5.46	3.55	1.93	1.11	700	223	32	22	19
flex-B-M57-CS29022-08-30-1994	19.92	14.70	11.30	7.72	5.69	3.28	1.70	1.02	700	245	20	17	20
flex-B-M57-CS29022-08-30-1994	17.87	12.99	9.73	6.47	4.67	2.75	1.48	1.15	700	262	17	23	23
flex-B-M57-CS29022-08-30-1994	16.50	11.40	8.33	5.67	4.16	2.46	1.29	1.22	700	200	32	22	27
flex-B-M57-CS29022-08-30-1994	17.65	12.08	8.88	5.89	4.21	2.49	1.29	0.93	700	195	27	22	26
flex-B-M57-CS29022-08-30-1994	18.88	12.62	9.05	5.80	4.06	2.35	1.30	0.83	700	186	18	25	26
flex-B-M57-CS29022-08-30-1994	16.80	11.54	8.20	5.18	3.64	2.06	1.10	1.48	700	214	21	25	31
flex-B-M57-CS29022-08-30-1994	13.71	9.69	7.26	4.90	3.58	2.17	1.27	0.98	700	344	19	42	28

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-B-M57-CS29022-08-30-1994	19.14	13.91	10.60	7.27	5.41	3.31	1.73	1.19	700	222	25	19	20
flex-B-M57-CS29022-08-30-1994	13.88	10.09	7.72	5.51	4.20	2.64	1.42	0.99	700	288	41	27	25
flex-B-M57-CS29022-08-30-1994	19.78	13.95	10.10	6.46	4.45	2.45	1.32	1.13	700	217	14	21	26
flex-B-M57-CS29022-08-30-1994	16.68	11.93	8.73	5.90	4.37	2.76	1.59	1.27	700	261	17	35	23
flex-B-M57-CS29022-08-30-1994	14.59	10.25	7.48	4.91	3.53	2.08	1.17	1.12	700	287	21	33	30
flex-B-M57-CS29022-08-30-1994	14.95	10.78	8.14	5.64	4.27	2.72	1.42	1.58	700	249	37	25	25
flex-B-M57-CS29022-08-30-1994	16.20	12.62	10.28	8.03	6.52	4.58	2.68	0.68	700	325	41	26	14
flex-B-M57-CS29022-08-30-1994	15.76	12.03	9.62	7.20	5.75	3.94	2.38	0.67	700	360	23	35	15
flex-B-M57-CS29022-08-30-1994	18.95	13.91	10.63	7.44	5.46	3.10	1.60	0.96	700	251	24	17	21
flex-B-M57-CS29022-08-30-1994	11.91	8.40	6.18	4.27	3.18	2.05	1.23	1.05	700	360	23	56	30
flex-B-M57-CS29022-08-30-1994	12.36	9.12	7.11	5.19	3.89	2.53	1.47	0.53	700	429	27	41	25
flex-B-M57-CS29022-08-30-1994	12.20	8.60	6.37	4.17	3.02	1.75	0.90	1.37	700	313	36	30	38
flex-B-M57-CS29022-08-30-1994	12.23	8.90	6.80	4.82	3.59	2.28	1.21	1.04	700	346	41	31	29
flex-B-M57-CS29022-08-30-1994	11.37	8.14	6.02	4.07	2.95	1.83	1.01	1.05	700	382	29	42	35
flex-B-M57-CS29022-08-30-1994	13.61	9.88	7.51	5.41	4.17	2.77	1.51	1.40	700	281	42	31	24
flex-B-M57-CS29022-08-30-1994	10.44	7.59	5.75	3.95	2.91	1.82	1.04	0.77	700	476	25	52	34
flex-B-M57-CS29022-08-30-1994	11.53	8.14	6.03	3.97	2.81	1.63	0.88	0.82	700	372	29	36	40
flex-B-M57-CS29022-08-30-1994	11.42	8.39	6.44	4.49	3.25	1.97	1.04	0.72	700	424	34	32	33
flex-B-M57-CS29022-08-30-1994	12.51	8.55	6.35	4.16	2.93	1.70	0.95	0.64	700	328	25	37	37
flex-B-M57-CS29022-08-30-1994-(2)	11.87	8.58	6.29	4.21	3.03	1.89	1.09	1.12	700	382	18	51	31
flex-B-M57-CS29022-08-30-1994-(2)	10.94	7.85	5.76	3.85	2.84	1.81	1.08	1.20	700	408	19	65	32
flex-B-M57-CS29022-08-30-1994-(2)	10.57	7.57	5.70	3.93	2.96	1.86	1.06	0.94	700	392	33	45	33
flex-B-M57-CS29022-08-30-1994-(2)	11.46	8.45	6.54	4.64	3.48	2.16	1.15	0.76	700	391	40	30	29

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-B-M57-CS29022-08-30-1994-(2)	9.39	6.88	5.14	3.40	2.46	1.45	0.86	1.31	700	572	16	80	40
flex-B-M57-CS29022-08-30-1994-(2)	11.44	8.47	6.38	4.35	3.22	1.99	1.08	1.40	700	398	29	36	31
flex-B-M57-CS29022-08-30-1994-(2)	10.38	7.42	5.60	3.92	2.92	1.97	1.20	0.54	700	447	21	79	29
flex-B-M57-CS29022-08-30-1994-(2)	12.57	9.77	7.73	5.61	4.28	2.84	1.56	1.25	700	451	28	32	22
flex-B-M57-CS29022-08-30-1994-(2)	12.50	9.39	7.12	5.06	3.89	2.58	1.62	1.26	700	449	13	85	22
flex-B-M57-CS29022-08-30-1994-(2)	12.34	8.31	5.96	4.00	2.98	1.98	1.20	0.98	700	283	22	62	29
flex-B-M57-CS29022-08-30-1994-(2)	21.48	15.35	11.30	7.54	5.46	3.21	1.74	1.20	700	191	16	19	19
flex-B-M57-CS29022-08-30-1994-(2)	19.81	14.52	11.02	7.81	5.82	3.67	2.00	0.98	700	216	21	20	17
flex-B-M57-CS29022-08-30-1994-(2)	19.90	13.38	9.54	5.95	4.15	2.46	1.32	1.34	700	164	17	23	25
flex-B-M57-CS29022-08-30-1994-(2)	19.31	13.74	10.13	6.43	4.53	2.64	1.46	1.29	700	223	13	25	23
flex-B-M57-CS29022-08-30-1994-(2)	15.43	11.08	8.11	5.46	4.08	2.65	1.59	1.28	700	284	14	49	22
flex-B-M57-CS29022-08-30-1994-(2)	17.30	12.13	9.00	5.84	4.15	2.42	1.39	0.89	700	258	13	31	24
flex-B-M57-CS29022-08-30-1994-(2)	19.87	12.61	8.63	5.27	3.64	2.21	1.25	0.93	700	144	15	29	27
flex-B-M57-CS29022-08-30-1994-(2)	22.28	14.58	10.31	6.24	4.31	2.49	1.33	1.36	700	137	15	20	25
flex-B-M57-CS29022-08-30-1994-(2)	17.86	12.29	8.86	5.71	4.11	2.44	1.31	1.39	700	192	21	24	25
flex-B-M57-CS29022-08-30-1994-(2)	15.45	10.68	7.67	5.24	3.82	2.37	1.29	1.30	700	213	28	28	26
flex-B-M57-CS29022-08-30-1994-(2)	21.82	13.96	9.80	6.11	4.27	2.65	1.51	0.59	700	138	14	27	22
flex-B-M57-CS29022-08-30-1994-(2)	17.48	11.19	8.02	5.33	3.93	2.65	1.57	0.38	700	168	19	40	22
flex-B-M57-CS29022-08-30-1994-(2)	19.21	13.37	9.55	6.45	4.76	2.92	1.62	1.57	700	177	20	24	21
flex-B-M57-CS29022-08-30-1994-(2)	15.44	10.27	7.30	4.81	3.43	2.09	1.16	0.90	700	203	24	31	29
flex-B-M57-CS29022-08-30-1994-(3)	12.50	9.03	6.62	4.44	3.19	1.99	1.15	1.10	700	385	18	51	31
flex-B-M57-CS29022-08-30-1994-(3)	11.49	8.25	6.05	4.04	2.98	1.90	1.13	1.20	700	406	19	65	32
flex-B-M57-CS29022-08-30-1994-(3)	11.02	7.89	5.94	4.10	3.08	1.94	1.11	0.95	700	392	33	45	32

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-B-M57-CS29022-08-30-1994-(3)	12.00	8.85	6.85	4.86	3.64	2.26	1.21	0.75	700	392	40	30	29
flex-B-M57-CS29022-08-30-1994-(3)	9.81	7.18	5.37	3.55	2.57	1.51	0.90	1.31	700	571	16	81	40
flex-B-M57-CS29022-08-30-1994-(3)	11.99	8.88	6.69	4.56	3.37	2.09	1.13	1.43	700	397	29	36	31
flex-B-M57-CS29022-08-30-1994-(3)	10.84	7.75	5.85	4.09	3.06	2.05	1.25	0.57	700	446	21	77	29
flex-B-M57-CS29022-08-30-1994-(3)	13.17	10.23	8.09	5.88	4.48	2.98	1.63	1.26	700	450	29	31	22
flex-B-M57-CS29022-08-30-1994-(3)	13.04	9.80	7.43	5.28	4.06	2.69	1.69	1.28	700	447	13	84	22
flex-B-M57-CS29022-08-30-1994-(3)	12.95	8.72	6.25	4.20	3.13	2.08	1.26	0.99	700	283	22	62	29
flex-B-M57-CS29022-08-30-1994-(3)	22.28	15.92	11.72	7.82	5.66	3.33	1.81	1.21	700	190	16	19	19
flex-B-M57-CS29022-08-30-1994-(3)	20.51	15.03	11.41	8.08	6.03	3.80	2.07	0.97	700	216	21	20	17
flex-B-M57-CS29022-08-30-1994-(3)	20.66	13.89	9.90	6.18	4.31	2.55	1.37	1.33	700	165	17	23	25
flex-B-M57-CS29022-08-30-1994-(3)	19.94	14.19	10.46	6.64	4.68	2.73	1.51	1.27	700	224	12	25	23
flex-B-M57-CS29022-08-30-1994-(3)	15.94	11.45	8.38	5.64	4.22	2.74	1.64	1.29	700	283	14	49	22
flex-B-M57-CS29022-08-30-1994-(3)	17.83	12.50	9.28	6.02	4.27	2.50	1.43	0.88	700	258	13	31	25
flex-B-M57-CS29022-08-30-1994-(3)	17.22	12.24	9.23	6.51	4.98	3.32	1.84	1.18	700	213	28	27	19
flex-B-M57-CS29022-08-30-1994-(3)	20.41	12.96	8.86	5.42	3.74	2.27	1.28	0.95	700	144	16	29	27
flex-B-M57-CS29022-08-30-1994-(3)	22.72	14.87	10.52	6.36	4.40	2.54	1.36	1.37	700	137	15	20	25
flex-B-M57-CS29022-08-30-1994-(3)	18.17	12.50	9.01	5.81	4.18	2.49	1.34	1.38	700	191	21	24	25
flex-B-M57-CS29022-08-30-1994-(3)	15.81	10.92	7.85	5.36	3.90	2.42	1.32	1.28	700	214	27	28	26
flex-B-M57-CS29022-08-30-1994-(3)	22.22	14.21	9.98	6.22	4.35	2.70	1.54	0.59	700	138	14	27	22
flex-B-M57-CS29022-08-30-1994-(3)	17.98	11.52	8.25	5.48	4.05	2.72	1.61	0.38	700	167	19	40	22
flex-B-M57-CS29022-08-30-1994-(3)	19.76	13.76	9.82	6.63	4.90	3.00	1.66	1.58	700	176	20	23	21
flex-B-M57-CS29022-08-30-1994-(3)	15.84	10.53	7.49	4.93	3.52	2.14	1.19	0.91	700	203	24	31	29
flex-B-M57-CS29022-08-30-1994-(4)	19.19	13.69	9.78	6.01	4.02	2.13	1.09	1.78	700	208	15	19	29

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-B-M57-CS29022-08-30-1994-(4)	16.12	11.07	8.00	5.08	3.60	2.06	1.13	1.24	700	228	20	27	29
flex-B-M57-CS29022-08-30-1994-(4)	13.07	9.12	6.80	4.53	3.27	1.98	1.10	0.68	700	304	25	34	31
flex-B-M57-CS29022-08-30-1994-(4)	18.50	13.21	9.55	6.22	4.43	2.58	1.30	1.93	700	195	22	19	25
flex-B-M57-CS29022-08-30-1994-(4)	14.26	10.13	7.45	4.89	3.56	2.12	1.19	1.25	700	295	19	34	28
flex-B-M57-CS29022-08-30-1994-(4)	11.95	8.51	6.44	4.38	3.24	1.97	1.11	0.82	700	361	27	38	31
flex-B-M57-CS29022-08-30-1994-(4)	16.31	11.52	8.45	5.69	4.21	2.66	1.47	1.32	700	228	22	29	23
flex-B-M57-CS29022-08-30-1994-(4)	19.18	14.07	10.71	7.40	5.47	3.27	1.69	1.12	700	222	24	17	20
flex-B-M57-CS29022-08-30-1994-(4)	17.53	12.76	9.37	6.25	4.68	2.93	1.61	1.87	700	230	19	26	21
flex-B-M57-CS29022-08-30-1994-(4)	21.17	14.66	10.45	6.55	4.43	2.48	1.26	1.60	700	166	16	18	25
flex-B-M57-CS29022-08-30-1994-(4)	16.29	11.63	8.73	5.89	4.27	2.43	1.20	1.18	700	228	32	18	27
flex-B-M57-CS29022-08-30-1994-(4)	17.98	12.55	9.24	6.08	4.35	2.55	1.39	0.90	700	214	19	23	24
flex-B-M57-CS29022-08-30-1994-(4)	17.02	12.08	8.97	5.92	4.28	2.52	1.31	1.28	700	225	23	21	25
flex-B-M57-CS29022-08-30-1994-(4)	15.51	11.01	8.14	5.49	4.03	2.42	1.30	1.18	700	244	26	25	26
flex-B-M57-CS29022-08-30-1994-(4)	19.13	13.89	10.53	7.40	5.52	3.43	1.85	0.95	700	214	23	20	18
flex-B-M57-CS29022-08-30-1994-(4)	16.99	12.41	9.51	6.84	5.26	3.41	1.86	1.11	700	224	32	22	19
flex-B-M57-CS29022-08-30-1994-(4)	19.34	14.28	10.97	7.50	5.52	3.19	1.65	1.04	700	244	20	17	20
flex-B-M57-CS29022-08-30-1994-(4)	17.29	12.57	9.41	6.26	4.52	2.66	1.43	1.16	700	261	17	23	23
flex-B-M57-CS29022-08-30-1994-(4)	16.00	11.05	8.07	5.50	4.04	2.38	1.25	1.20	700	201	32	23	27
flex-B-M57-CS29022-08-30-1994-(4)	17.11	11.71	8.61	5.71	4.08	2.41	1.25	0.93	700	195	27	22	26
flex-B-M57-CS29022-08-30-1994-(4)	18.33	12.25	8.79	5.63	3.94	2.28	1.26	0.83	700	186	18	25	27
flex-B-M57-CS29022-08-30-1994-(4)	16.21	11.13	7.91	5.00	3.51	1.99	1.06	1.48	700	212	21	25	31
flex-B-M57-CS29022-08-30-1994-(4)	13.14	9.28	6.95	4.69	3.43	2.08	1.22	0.99	700	346	19	43	28
flex-B-M57-CS29022-08-30-1994-(4)	18.42	13.38	10.20	7.00	5.21	3.18	1.67	1.18	700	223	24	19	20

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-B-M57-CS29022-08-30-1994-(4)	13.35	9.71	7.42	5.30	4.04	2.54	1.37	1.00	700	288	41	27	25
flex-B-M57-CS29022-08-30-1994-(4)	19.19	13.53	9.80	6.27	4.31	2.37	1.28	1.12	700	218	14	21	26
flex-B-M57-CS29022-08-30-1994-(4)	15.90	11.37	8.33	5.62	4.16	2.64	1.52	1.25	700	261	17	35	23
flex-B-M57-CS29022-08-30-1994-(4)	14.04	9.86	7.20	4.72	3.39	2.00	1.12	1.13	700	288	20	34	30
flex-B-M57-CS29022-08-30-1994-(4)	14.45	10.42	7.87	5.45	4.13	2.63	1.37	1.61	700	249	37	25	25
flex-B-M57-CS29022-08-30-1994-(4)	15.74	12.26	9.98	7.80	6.33	4.45	2.61	0.68	700	324	41	26	14
flex-B-M57-CS29022-08-30-1994-(4)	15.30	11.67	9.34	6.99	5.58	3.82	2.31	0.66	700	361	23	35	15
flex-B-M57-CS29022-08-30-1994-(4)	18.38	13.49	10.31	7.21	5.29	3.01	1.55	0.96	700	251	24	17	21
flex-B-M57-CS29022-08-30-1994-(4)	11.90	8.78	6.85	5.00	3.75	2.44	1.42	0.54	700	428	27	41	25
flex-B-M57-CS29022-08-30-1994-(4)	11.76	8.29	6.14	4.02	2.91	1.69	0.87	1.34	700	316	35	30	38
flex-B-M57-CS29022-08-30-1994-(4)	11.72	8.54	6.52	4.62	3.44	2.19	1.16	1.06	700	346	41	31	29
flex-B-M57-CS29022-08-30-1994-(4)	10.89	7.80	5.77	3.90	2.83	1.75	0.97	1.05	700	381	29	42	35
flex-B-M57-CS29022-08-30-1994-(4)	13.09	9.50	7.22	5.20	4.01	2.67	1.45	1.42	700	279	42	30	24
flex-B-M57-CS29022-08-30-1994-(4)	10.06	7.32	5.54	3.80	2.80	1.75	1.01	0.78	700	478	25	53	34
flex-B-M57-CS29022-08-30-1994-(4)	11.07	7.82	5.79	3.81	2.70	1.57	0.85	0.82	700	372	29	37	39
flex-B-M57-CS29022-08-30-1994-(4)	11.03	8.11	6.23	4.34	3.14	1.90	1.01	0.69	700	426	34	32	33
flex-B-M57-CS29022-08-30-1994-(4)	12.08	8.26	6.13	4.01	2.83	1.64	0.92	0.66	700	331	25	38	37
flex-B-M57-CS29022-01-28-1993	11.02	7.89	5.94	4.10	3.08	1.94	1.11	0.95	700	392	33	45	32
flex-B-M57-CS29022-01-28-1993	12.00	8.85	6.85	4.86	3.64	2.26	1.21	0.75	700	392	40	30	29
flex-B-M57-CS29022-01-28-1993	11.99	8.58	6.30	4.06	2.90	1.68	0.87	1.66	700	344	31	32	40
flex-B-M57-CS29022-01-28-1993	11.99	8.88	6.69	4.56	3.37	2.09	1.13	1.43	700	397	29	36	31
flex-B-M57-CS29022-01-28-1993	13.17	10.23	8.09	5.88	4.48	2.98	1.63	1.26	700	450	29	31	22
flex-B-M57-CS29022-01-28-1993	22.28	15.92	11.72	7.82	5.66	3.33	1.81	1.21	700	190	16	19	19

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-B-M57-CS29022-01-28-1993	20.51	15.03	11.41	8.08	6.03	3.80	2.07	0.97	700	216	21	20	17
flex-B-M57-CS29022-01-28-1993	18.02	12.68	9.42	6.31	4.60	2.70	1.43	1.06	700	215	25	21	24
flex-B-M57-CS29022-01-28-1993	20.66	13.89	9.90	6.18	4.31	2.55	1.37	1.33	700	165	17	23	25
flex-B-M57-CS29022-01-28-1993	16.85	11.58	8.62	5.96	4.42	2.77	1.44	1.23	700	180	36	22	24
flex-B-M57-CS29022-01-28-1993	20.97	15.21	11.38	7.83	5.72	3.46	1.78	1.32	700	190	23	16	19
flex-B-M57-CS29022-01-28-1993	17.22	12.24	9.23	6.51	4.98	3.32	1.84	1.18	700	213	28	27	19
flex-B-M57-CS29022-01-28-1993	22.72	14.87	10.52	6.36	4.40	2.54	1.36	1.37	700	137	15	20	25
flex-B-M57-CS29022-01-28-1993	18.17	12.50	9.01	5.81	4.18	2.49	1.34	1.38	700	191	21	24	25
flex-B-M57-CS29022-01-28-1993	21.62	14.95	10.87	7.24	5.29	3.24	1.67	1.66	700	149	23	18	20
flex-B-M57-CS29022-01-28-1993	22.87	15.70	11.66	7.82	5.76	3.51	1.85	1.12	700	144	22	17	19
flex-B-M57-CS29022-01-28-1993	21.47	14.59	10.38	7.01	5.12	3.13	1.67	1.50	700	139	23	19	20
flex-B-M57-CS29022-01-28-1993	17.24	11.44	8.13	5.39	3.88	2.38	1.28	1.17	700	169	27	26	27
flex-B-M57-CS29022-01-28-1993	15.81	10.92	7.85	5.36	3.90	2.42	1.32	1.28	700	214	27	28	26
flex-B-M57-CS29022-01-28-1993	19.76	13.76	9.82	6.63	4.90	3.00	1.66	1.58	700	176	20	23	21
flex-B-M57-CS29022-01-28-1993	15.84	10.53	7.49	4.93	3.52	2.14	1.19	0.91	700	203	24	31	29
flex-B-M57-CS29022-01-28-1993	18.87	12.77	9.07	5.86	4.13	2.39	1.23	1.49	700	165	24	20	27
flex-B-M57-CS29022-01-28-1993	14.90	11.13	8.48	5.84	4.16	2.37	1.11	1.39	700	310	36	18	30
flex-B-M57-CS29022-01-28-1993	16.78	11.52	8.33	5.29	3.75	2.15	1.18	1.24	700	228	20	27	29
flex-B-M57-CS29022-01-28-1993	13.63	9.51	7.10	4.72	3.42	2.07	1.15	0.69	700	305	25	34	31
flex-B-M57-CS29022-01-28-1993	19.29	13.78	9.96	6.49	4.62	2.69	1.36	1.92	700	195	22	19	25
flex-B-M57-CS29022-01-28-1993	20.53	15.36	11.74	8.14	6.04	3.57	1.76	1.47	700	219	26	14	19
flex-B-M57-CS29022-01-28-1993	14.95	10.61	7.81	5.13	3.73	2.22	1.25	1.25	700	296	19	34	28
flex-B-M57-CS29022-01-28-1993	12.44	8.86	6.71	4.56	3.37	2.05	1.16	0.81	700	363	27	38	31

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-B-M57-CS29022-01-28-1993	17.00	12.00	8.80	5.92	4.38	2.77	1.53	1.30	700	229	22	29	23
flex-B-M57-CS29022-01-28-1993	19.76	14.50	11.03	7.62	5.63	3.37	1.74	1.13	700	222	24	17	20
flex-B-M57-CS29022-01-28-1993	18.16	13.22	9.71	6.47	4.85	3.04	1.67	1.86	700	230	19	26	21
flex-B-M57-CS29022-01-28-1993	21.87	15.14	10.80	6.77	4.58	2.57	1.30	1.62	700	166	17	18	25
flex-B-M57-CS29022-01-28-1993	16.91	12.08	9.06	6.11	4.43	2.52	1.24	1.16	700	229	31	18	27
flex-B-M57-CS29022-01-28-1993	18.57	12.95	9.54	6.28	4.49	2.64	1.43	0.91	700	214	19	23	24
flex-B-M57-CS29022-01-28-1993	17.71	12.58	9.33	6.17	4.46	2.62	1.37	1.28	700	225	23	21	25
flex-B-M57-CS29022-01-28-1993	16.08	11.41	8.43	5.69	4.17	2.50	1.34	1.18	700	244	26	25	26
flex-B-M57-CS29022-01-28-1993	19.79	14.37	10.89	7.65	5.71	3.55	1.92	0.96	700	214	23	20	18
flex-B-M57-CS29022-01-28-1993	17.66	12.90	9.88	7.11	5.46	3.55	1.93	1.11	700	223	32	22	19
flex-B-M57-CS29022-01-28-1993	19.92	14.70	11.30	7.72	5.69	3.28	1.70	1.02	700	245	20	17	20
flex-B-M57-CS29022-01-28-1993	17.87	12.99	9.73	6.47	4.67	2.75	1.48	1.15	700	262	17	23	23
flex-B-M57-CS29022-01-28-1993	16.50	11.40	8.33	5.67	4.16	2.46	1.29	1.22	700	200	32	22	27
flex-B-M57-CS29022-01-28-1993	17.65	12.08	8.88	5.89	4.21	2.49	1.29	0.93	700	195	27	22	26
flex-B-M57-CS29022-01-28-1993	18.88	12.62	9.05	5.80	4.06	2.35	1.30	0.83	700	186	18	25	26
flex-B-M57-CS29022-01-28-1993	16.80	11.54	8.20	5.18	3.64	2.06	1.10	1.48	700	214	21	25	31
flex-B-M57-CS29022-01-28-1993	13.71	9.69	7.26	4.90	3.58	2.17	1.27	0.98	700	344	19	42	28
flex-B-M57-CS29022-01-28-1993	19.14	13.91	10.60	7.27	5.41	3.31	1.73	1.19	700	222	25	19	20
flex-B-M57-CS29022-01-28-1993	13.88	10.09	7.72	5.51	4.20	2.64	1.42	0.99	700	288	41	27	25
flex-B-M57-CS29022-01-28-1993	19.78	13.95	10.10	6.46	4.45	2.45	1.32	1.13	700	217	14	21	26
flex-B-M57-CS29022-01-28-1993	16.68	11.93	8.73	5.90	4.37	2.76	1.59	1.27	700	261	17	35	23
flex-B-M57-CS29022-01-28-1993	14.59	10.25	7.48	4.91	3.53	2.08	1.17	1.12	700	287	21	33	30
flex-B-M57-CS29022-01-28-1993	14.95	10.78	8.14	5.64	4.27	2.72	1.42	1.58	700	249	37	25	25

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-B-M57-CS29022-01-28-1993	16.20	12.62	10.28	8.03	6.52	4.58	2.68	0.68	700	325	41	26	14
flex-B-M57-CS29022-01-28-1993	15.76	12.03	9.62	7.20	5.75	3.94	2.38	0.67	700	360	23	35	15
flex-B-M57-CS29022-01-28-1993	18.95	13.91	10.63	7.44	5.46	3.10	1.60	0.96	700	251	24	17	21
flex-B-M57-CS29022-01-28-1993	11.91	8.40	6.18	4.27	3.18	2.05	1.23	1.05	700	360	23	56	30
flex-B-M57-CS29022-01-28-1993	12.36	9.12	7.11	5.19	3.89	2.53	1.47	0.53	700	429	27	41	25
flex-B-M57-CS29022-01-28-1993	12.20	8.60	6.37	4.17	3.02	1.75	0.90	1.37	700	313	36	30	38
flex-B-M57-CS29022-01-28-1993	12.23	8.90	6.80	4.82	3.59	2.28	1.21	1.04	700	346	41	31	29
flex-B-M57-CS29022-01-28-1993	11.37	8.14	6.02	4.07	2.95	1.83	1.01	1.05	700	382	29	42	35
flex-B-M57-CS29022-01-28-1993	13.61	9.88	7.51	5.41	4.17	2.77	1.51	1.40	700	281	42	31	24
flex-B-M57-CS29022-01-28-1993	10.44	7.59	5.75	3.95	2.91	1.82	1.04	0.77	700	476	25	52	34
flex-B-M57-CS29022-01-28-1993	11.53	8.14	6.03	3.97	2.81	1.63	0.88	0.82	700	372	29	36	40
flex-B-M57-CS29022-01-28-1993	11.42	8.39	6.44	4.49	3.25	1.97	1.04	0.72	700	424	34	32	33
flex-B-M57-CS29022-01-28-1993	12.51	8.55	6.35	4.16	2.93	1.70	0.95	0.64	700	329	25	37	37
flex-B-M84-CS9011-05-17-2005	12.72	10.05	8.43	6.23	4.70	2.79	1.37	1.22	300	1,148	43	20	20
flex-B-M84-CS9011-05-17-2005	12.02	9.52	8.03	5.98	4.60	2.76	1.27	0.54	300	1,149	59	19	21
flex-B-M84-CS9011-05-17-2005	11.74	9.06	7.67	5.75	4.44	2.71	1.31	0.92	300	1,029	64	22	21
flex-B-M84-CS9011-05-17-2005	13.15	9.95	8.11	5.64	4.09	2.31	1.02	0.63	300	836	43	19	26
flex-B-M84-CS9011-05-17-2005	11.89	8.91	7.24	4.99	3.55	2.02	0.98	0.71	300	1,092	27	28	27
flex-B-M84-CS9011-05-17-2005	16.31	12.57	10.34	7.36	5.54	3.42	1.72	0.58	300	781	26	21	16
flex-B-M84-CS9011-05-17-2005	15.93	13.00	11.11	8.34	6.35	3.82	1.78	0.42	300	1,290	23	16	15
flex-B-M84-CS9011-05-17-2005	13.19	9.83	7.87	5.40	3.91	2.31	1.14	0.53	300	840	29	26	23
flex-B-M84-CS9011-05-17-2005	13.66	10.35	8.51	6.06	4.45	2.57	1.27	0.91	300	1,019	25	24	21
flex-B-M84-CS9011-05-17-2005	14.74	11.60	9.73	7.14	5.43	3.39	1.77	0.56	300	1,123	20	27	15

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-B-M84-CS9011-05-17-2005	14.00	10.64	8.65	6.15	4.57	2.72	1.38	0.65	300	920	26	25	20
flex-B-M84-CS9011-05-17-2005	12.78	9.74	8.00	5.66	4.12	2.40	1.18	0.68	300	1,102	26	26	23
flex-B-M84-CS9011-05-17-2005	15.53	11.96	9.80	7.12	5.38	3.32	1.68	0.37	300	794	31	21	16
flex-B-M84-CS9011-05-17-2005	15.44	11.68	9.52	6.78	5.05	3.11	1.54	0.47	300	704	34	21	18
flex-B-M84-CS9011-05-17-2005	15.55	11.94	9.77	6.88	5.07	3.00	1.47	0.54	300	860	24	21	18
flex-B-M84-CS9011-05-17-2005	14.66	10.89	8.85	6.22	4.61	2.73	1.37	0.80	300	742	32	23	20
flex-B-M84-CS9011-05-17-2005	14.04	10.33	8.23	5.71	4.14	2.43	1.22	0.68	300	758	29	25	22
flex-B-M84-CS9011-05-17-2005	11.19	8.04	6.45	4.45	3.20	1.77	0.83	1.10	300	803	51	25	32
flex-B-M84-CS9011-05-17-2005	14.04	10.84	9.03	6.64	5.09	3.14	1.47	0.52	300	715	59	18	18
flex-B-M84-CS9011-05-17-2005	12.21	9.37	7.90	6.03	4.84	3.24	1.73	0.53	300	707	76	27	16
flex-B-M84-CS9011-05-17-2005	14.11	10.42	8.32	5.86	4.29	2.53	1.29	0.77	300	752	30	25	21
flex-B-M84-CS9011-05-17-2005	17.24	13.46	11.17	8.27	6.33	3.97	1.97	0.29	300	710	35	17	14
flex-B-M84-CS9011-05-17-2005	17.28	13.65	11.27	8.26	6.27	3.83	1.88	0.32	300	813	28	17	14
flex-B-M84-CS9011-05-17-2005	18.87	15.12	12.78	9.73	7.60	4.75	2.25	0.32	300	700	44	12	12
flex-B-M84-CS9011-05-17-2005	18.37	14.69	12.57	9.72	7.71	4.89	2.29	0.38	300	603	63	11	12
flex-B-M84-CS9011-05-17-2005	16.93	13.14	10.78	7.67	5.60	3.07	1.38	0.65	300	881	24	15	19
flex-B-M84-CS9011-05-17-2005	17.27	13.19	10.93	8.04	6.14	3.78	1.78	0.45	300	538	49	15	15
flex-B-M84-CS9011-05-17-2005	12.41	8.99	7.32	5.23	3.94	2.44	1.26	0.97	300	680	49	29	22
flex-B-M84-CS9011-05-17-2005	14.16	10.41	8.37	5.98	4.49	2.86	1.62	1.22	300	848	19	43	17
flex-B-M84-CS9011-05-17-2005	12.17	8.75	7.04	4.99	3.73	2.27	1.22	1.42	300	805	35	34	23
flex-B-M84-CS9011-05-17-2005-(2)	10.97	8.87	7.49	5.59	4.22	2.59	1.38	0.41	400	2,068	13	48	23
flex-B-M84-CS9011-05-17-2005-(2)	11.15	8.94	7.71	5.80	4.40	2.60	1.25	0.84	400	1,943	34	22	25
flex-B-M84-CS9011-05-17-2005-(2)	10.44	8.39	7.19	5.47	4.20	2.53	1.19	0.60	400	1,697	64	20	26

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-B-M84-CS9011-05-17-2005-(2)	11.74	9.29	7.96	6.03	4.60	2.76	1.25	0.68	400	1,201	75	16	24
flex-B-M84-CS9011-05-17-2005-(2)	14.13	11.15	9.22	6.60	4.81	2.73	1.26	0.38	400	1,135	30	17	23
flex-B-M84-CS9011-05-17-2005-(2)	13.62	10.92	9.14	6.68	4.85	2.65	1.11	0.29	400	1,381	32	14	26
flex-B-M84-CS9011-05-17-2005-(2)	12.18	9.58	7.88	5.59	4.03	2.27	1.09	0.34	400	1,410	23	24	27
flex-B-M84-CS9011-05-17-2005-(2)	13.24	10.48	8.66	6.19	4.53	2.65	1.35	0.33	400	1,373	16	29	22
flex-B-M84-CS9011-05-17-2005-(2)	19.63	16.12	13.79	10.32	7.76	4.57	2.06	0.43	400	1,113	20	11	14
flex-B-M84-CS9011-05-17-2005-(2)	12.18	9.85	8.55	6.53	4.99	2.99	1.34	0.69	400	1,571	57	15	23
flex-B-M84-CS9011-05-17-2005-(2)	14.07	10.91	9.01	6.35	4.65	2.77	1.49	0.61	400	1,209	13	35	20
flex-B-M84-CS9011-05-17-2005-(2)	14.66	11.77	10.07	7.41	5.51	3.26	1.57	0.67	400	1,424	19	19	19
flex-B-M84-CS9011-05-17-2005-(2)	14.28	11.51	9.97	7.59	5.83	3.59	1.78	0.75	400	1,436	31	18	17
flex-B-M84-CS9011-05-17-2005-(2)	13.20	10.22	8.59	6.18	4.50	2.60	1.30	0.89	400	1,348	20	25	23
flex-B-M84-CS9011-05-17-2005-(2)	15.10	11.86	10.01	7.36	5.56	3.46	1.74	0.62	400	987	34	19	17
flex-B-M84-CS9011-05-17-2005-(2)	14.00	10.58	8.61	5.84	4.08	2.27	1.09	0.78	400	964	23	21	27
flex-B-M84-CS9011-05-17-2005-(2)	17.22	13.22	11.00	8.11	6.17	3.82	1.86	0.46	400	584	47	14	16
flex-B-M84-CS9011-05-17-2005-(2)	15.85	12.01	9.76	6.94	5.19	3.18	1.65	0.46	400	720	29	21	18
flex-B-M84-CS9011-05-17-2005-(2)	15.04	11.09	8.83	5.99	4.33	2.56	1.38	0.74	400	787	18	29	22
flex-B-M84-CS9011-05-17-2005-(2)	14.88	11.60	9.64	6.82	4.95	2.91	1.50	0.61	400	1,173	14	27	20
flex-B-M84-CS9011-05-17-2005-(2)	12.68	9.67	7.87	5.44	3.91	2.28	1.14	0.58	400	1,067	27	26	26
flex-B-M84-CS9011-05-17-2005-(2)	12.51	9.38	7.72	5.51	4.01	2.31	1.14	0.93	400	1,017	38	23	26
flex-B-M84-CS9011-05-17-2005-(2)	14.24	10.55	8.54	5.94	4.40	2.75	1.50	0.71	400	814	24	31	20
flex-B-M84-CS9011-05-17-2005-(2)	11.14	8.11	6.68	4.64	3.34	1.89	0.94	1.33	400	1,039	41	27	32
flex-B-M84-CS9011-05-17-2005-(2)	13.37	10.35	8.75	6.55	5.01	3.15	1.57	0.64	400	864	59	19	19
flex-B-M84-CS9011-05-17-2005-(2)	12.74	9.71	8.11	5.93	4.38	2.57	1.18	0.71	400	962	68	19	28

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-B-M84-CS9011-05-17-2005-(2)	14.24	10.78	8.93	6.39	4.65	2.60	1.17	0.78	400	830	45	15	25
flex-B-M84-CS9011-05-17-2005-(2)	13.28	10.26	8.57	6.26	4.64	2.76	1.30	0.58	400	947	49	18	23
flex-B-M84-CS9011-05-17-2005-(2)	14.82	11.14	9.37	6.93	5.25	3.35	1.82	1.16	400	825	34	24	17
flex-B-M84-CS9011-05-17-2005-(2)	17.03	12.86	10.43	7.24	5.20	3.03	1.56	0.57	400	796	17	21	19
flex-B-M84-CS9011-05-17-2005-(2)	16.63	12.77	10.78	8.03	6.13	3.82	1.85	0.66	400	605	54	14	16
flex-B-M84-CS9011-05-17-2005-(2)	14.87	11.27	9.53	7.20	5.54	3.50	1.81	0.98	400	675	57	19	17
flex-B-M84-CS9011-05-17-2005-(2)	16.04	11.93	9.70	6.82	4.91	2.82	1.47	1.08	400	840	19	22	20
flex-B-M84-CS9011-05-17-2005-(2)	14.76	10.88	8.83	6.23	4.52	2.61	1.26	0.72	400	661	41	18	23
flex-B-M84-CS9011-05-17-2005-(2)	14.12	10.19	8.11	5.54	3.95	2.28	1.19	0.99	400	747	26	26	25
flex-B-M84-CS9011-05-17-2005-(2)	17.55	12.95	10.30	7.27	5.51	3.54	1.92	0.39	400	514	28	23	16
flex-B-M84-CS9011-05-17-2005-(2)	13.63	10.89	9.36	7.14	5.55	3.50	1.78	0.65	400	1,215	45	19	17
flex-B-M84-CS9011-05-17-2005-(2)	17.23	13.54	11.59	8.89	7.00	4.41	2.17	0.64	400	630	61	13	14
flex-B-M84-CS9011-05-17-2005-(2)	15.95	12.67	10.87	8.43	6.66	4.41	2.24	0.47	400	684	68	15	14
flex-B-M84-CS9011-05-17-2005-(2)	15.67	12.39	10.64	8.22	6.53	4.29	2.18	0.52	400	673	71	15	14
flex-B-M84-CS9011-05-17-2005-(2)	13.90	10.75	9.03	6.70	5.09	3.08	1.66	1.23	400	1,197	23	26	18
flex-B-M84-CS9011-05-17-2005-(2)	16.29	12.59	10.56	7.90	6.01	3.65	1.78	0.68	400	720	47	15	17
flex-B-M84-CS9011-05-17-2005-(2)	15.14	11.90	10.03	7.43	5.64	3.43	1.73	0.62	400	1,027	32	18	17
flex-B-M84-CS9011-05-17-2005-(2)	18.78	14.00	11.30	7.95	5.86	3.53	1.77	0.46	400	530	29	16	17
flex-B-M84-CS9011-05-17-2005-(2)	14.58	10.30	8.10	5.58	4.10	2.56	1.42	0.92	400	584	29	31	21
flex-B-M84-CS9011-05-17-2005-(2)	14.61	10.98	8.94	6.38	4.70	2.77	1.39	0.62	400	773	35	20	21
flex-B-M84-CS9011-05-17-2005-(2)	16.15	11.89	9.66	6.86	5.08	3.15	1.73	0.98	400	708	23	26	18
flex-B-M84-CS9011-05-17-2005-(2)	12.37	9.07	7.37	5.32	4.09	2.68	1.45	0.56	400	645	53	30	21
flex-B-M84-CS9011-05-17-2005-(2)	13.54	10.16	8.27	5.94	4.50	2.86	1.65	1.05	400	971	20	40	19

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-B-M84-CS9011-05-17-2005-(2)	15.16	11.57	9.69	7.33	5.72	3.71	1.97	0.59	400	621	56	20	16
flex-B-M84-CS9011-05-17-2005-(2)	15.88	12.43	10.44	7.86	6.07	3.86	2.08	0.68	400	910	31	21	15
flex-B-M84-CS9011-05-17-2005-(2)	15.56	12.78	11.17	8.97	7.33	4.92	2.45	0.27	400	711	102	12	13
flex-B-M84-CS9011-10-03-2005	13.05	8.69	6.31	4.31	3.20	1.99	1.04	1.64	200	451	32	48	22
flex-B-M84-CS9011-10-03-2005	12.83	8.60	6.27	4.15	2.98	1.72	0.77	0.52	200	394	46	32	28
flex-B-M84-CS9011-10-03-2005	14.70	9.89	7.11	4.65	3.39	1.99	0.89	0.91	200	328	39	29	24
flex-B-M84-CS9011-10-03-2005	15.81	10.66	7.62	5.20	3.94	2.42	1.19	1.27	200	309	33	33	19
flex-B-M84-CS9011-10-03-2005	15.53	10.15	7.19	4.77	3.50	2.03	0.95	1.19	200	276	37	29	23
flex-B-M84-CS9011-10-03-2005	13.73	9.39	6.73	4.53	3.40	2.13	1.08	1.19	200	440	29	44	21
flex-B-M84-CS9011-10-03-2005	14.73	10.61	7.81	5.54	4.21	2.70	1.31	1.10	200	422	36	32	17
flex-B-M84-CS9011-10-03-2005	12.67	8.72	6.30	4.42	3.41	2.13	1.02	1.31	200	354	51	37	22
flex-B-M84-CS9011-10-10-2005	11.49	8.67	6.92	4.96	3.72	2.27	1.17	0.58	275	1,017	38	35	24
flex-B-M84-CS9011-10-10-2005	11.57	8.74	6.96	4.85	3.54	2.04	0.99	0.48	275	1,048	35	30	27
flex-B-M84-CS9011-10-10-2005	10.78	8.03	6.39	4.55	3.36	2.04	1.06	0.72	275	1,104	35	40	26
flex-B-M84-CS9011-10-10-2005	11.15	8.44	6.78	4.89	3.74	2.37	1.20	0.28	275	904	52	34	23
flex-B-M84-CS9011-10-10-2005	11.17	8.43	6.83	4.94	3.80	2.42	1.27	0.51	275	971	46	37	22
flex-B-M84-CS9011-10-10-2005	9.24	6.79	5.45	3.94	2.95	1.81	0.88	0.33	275	887	80	35	31
flex-B-M84-CS9011-10-10-2005	11.92	9.26	7.59	5.57	4.19	2.45	1.10	0.28	275	989	62	20	24
flex-B-M84-CS9011-10-10-2005	10.85	8.12	6.54	4.69	3.52	2.12	1.04	0.49	275	912	57	30	26
flex-B-M84-CS9011-10-10-2005	11.33	8.41	6.70	4.69	3.48	2.10	1.15	1.13	275	1,165	22	52	24
flex-B-M84-CS9011-10-10-2005	11.31	8.47	6.66	4.61	3.31	1.88	0.91	0.49	275	1,059	33	32	29
flex-B-M84-CS9011-10-10-2005	11.60	8.74	7.00	4.93	3.61	2.11	1.00	0.29	275	970	43	27	27
flex-B-M84-CS9011-10-10-2005	11.94	9.13	7.39	5.29	4.06	2.57	1.36	0.52	275	1,030	33	37	20

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-B-M84-CS9011-10-10-2005	10.70	7.85	6.27	4.41	3.27	2.02	1.04	0.61	275	964	41	39	26
flex-B-M84-CS9011-10-10-2005	9.97	7.45	5.88	4.09	2.98	1.72	0.79	0.31	275	939	61	29	34
flex-B-M84-CS9011-10-10-2005	12.15	9.09	7.25	5.11	3.75	2.17	0.99	0.27	275	770	55	23	27
flex-B-M84-CS9011-10-10-2005	11.89	8.81	7.00	4.84	3.46	1.96	0.92	0.41	275	909	40	26	29
flex-B-M84-CS9011-09-11-2005	8.10	6.53	5.76	4.58	3.71	2.43	1.21	1.16	160	2,277	87	44	17
flex-B-M84-CS9011-09-11-2005	7.79	6.24	5.44	4.26	3.40	2.10	0.94	1.18	160	2,199	103	35	21
flex-B-M84-CS9011-09-11-2005	7.61	6.06	5.30	4.19	3.39	2.17	1.04	1.26	160	2,010	115	41	20
flex-B-M84-CS9011-09-11-2005	7.75	6.23	5.44	4.31	3.50	2.26	1.10	1.13	160	2,057	110	41	18
flex-B-M84-CS9011-09-11-2005	7.69	6.12	5.32	4.18	3.36	2.19	1.12	1.30	160	2,370	64	58	18
flex-B-M84-CS9011-09-11-2005	6.50	5.09	4.42	3.45	2.77	1.77	0.85	1.32	160	2,012	136	50	24
flex-B-M84-CS9011-09-11-2005	7.64	6.13	5.40	4.32	3.50	2.27	1.05	0.97	160	1,696	166	33	20
flex-B-M84-CS9011-09-11-2005	7.47	5.94	5.17	4.04	3.23	2.04	0.95	1.20	160	2,112	106	41	21
flex-B-M84-CS9011-09-11-2005	7.98	6.45	5.68	4.48	3.63	2.34	1.11	1.08	160	2,197	104	38	18
flex-B-M84-CS9011-09-11-2005	8.06	6.61	5.87	4.77	3.92	2.59	1.27	1.16	160	2,319	122	37	16
flex-B-M84-CS9011-09-11-2005	8.10	6.53	5.70	4.49	3.53	2.15	0.97	1.38	160	2,816	57	38	21
flex-B-M84-CS9011-09-11-2005	7.68	6.18	5.40	4.24	3.38	2.08	0.93	1.28	160	2,546	89	36	22
flex-B-M84-CS9011-09-11-2005	8.53	6.78	5.87	4.55	3.57	2.12	0.93	1.49	160	2,282	64	34	21
flex-B-M84-CS9011-09-11-2005	8.62	6.80	5.78	4.42	3.39	1.96	0.78	1.05	160	1,772	89	27	25
flex-B-M84-CS9011-09-11-2005	7.67	6.15	5.37	4.22	3.34	2.07	0.89	0.98	160	2,002	133	30	23
flex-B-M84-CS9011-09-11-2005	8.51	6.76	5.88	4.58	3.65	2.34	1.17	1.34	160	2,251	52	50	17
flex-B-M84-CS9011-09-11-2005	8.00	6.33	5.47	4.24	3.31	2.04	0.98	1.45	160	2,608	41	54	20
flex-B-M84-CS9011-09-11-2005	8.45	6.59	5.61	4.23	3.26	2.00	0.92	1.02	160	1,917	56	43	22
flex-B-M84-CS9011-09-11-2005	8.97	7.15	6.20	4.87	3.89	2.55	1.31	1.22	160	2,144	44	55	15

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-B-M84-CS9011-09-11-2005	8.29	6.46	5.56	4.28	3.37	2.12	1.06	1.60	160	2,193	43	59	19
flex-B-M84-CS9011-09-11-2005	7.62	5.92	5.06	3.81	2.95	1.76	0.81	1.57	160	2,397	48	51	24
flex-B-M84-CS9011-09-11-2005	8.69	6.89	5.93	4.62	3.63	2.27	1.00	0.84	160	1,578	106	31	20
flex-B-M84-CS9011-09-11-2005	8.18	6.44	5.48	4.23	3.31	2.04	0.93	1.06	160	1,763	88	38	21
flex-B-M84-CS9011-09-11-2005	8.08	6.55	5.70	4.46	3.56	2.21	1.03	1.11	160	2,645	63	40	19
flex-B-M84-CS9011-09-11-2005	9.45	7.82	6.91	5.53	4.55	3.00	1.44	0.83	160	2,065	95	31	14
flex-B-M84-CS9011-09-11-2005	7.87	6.45	5.65	4.45	3.51	2.15	0.94	1.00	160	3,061	65	34	21
flex-B-M84-CS9011-09-11-2005	8.34	6.76	5.87	4.63	3.69	2.27	1.04	1.30	160	2,594	63	36	19
flex-B-M84-CS9011-09-11-2005	8.11	6.54	5.71	4.50	3.58	2.23	1.04	1.23	160	2,590	68	39	19
flex-B-M84-CS9011-09-11-2005	8.04	6.45	5.57	4.37	3.45	2.08	0.96	1.55	160	2,769	49	42	21
flex-B-M84-CS9011-09-11-2005	7.68	6.16	5.32	4.19	3.35	2.03	0.97	1.84	160	3,007	43	52	20
flex-B-M84-CS9011-09-13-2005-(2)	12.08	8.63	6.58	4.40	3.22	1.96	1.00	0.60	250	713	31	40	26
flex-B-M84-CS9011-09-13-2005-(2)	12.69	9.28	7.26	4.96	3.62	2.17	1.11	0.56	250	826	27	36	23
flex-B-M84-CS9011-09-13-2005-(2)	13.48	9.75	7.53	5.09	3.71	2.22	1.09	0.40	250	640	33	30	23
flex-B-M84-CS9011-09-13-2005-(2)	12.37	8.76	6.63	4.38	3.15	1.82	0.89	0.60	250	645	35	33	28
flex-B-M84-CS9011-09-13-2005-(2)	12.10	8.91	6.91	4.70	3.40	1.97	0.93	0.38	250	758	39	29	27
flex-B-M84-CS9011-09-13-2005-(2)	13.60	9.68	7.31	4.81	3.40	1.91	0.88	0.46	250	562	36	26	28
flex-B-M84-CS9011-09-13-2005-(2)	14.18	10.11	7.51	4.78	3.27	1.72	0.74	0.73	250	532	34	22	32
flex-B-M84-CS9011-09-13-2005-(2)	12.63	9.14	7.03	4.60	3.21	1.76	0.83	0.51	250	781	28	29	29
flex-B-M84-CS9011-09-13-2005-(2)	11.86	8.66	6.70	4.58	3.37	2.00	0.99	0.50	250	765	37	33	26
flex-B-M84-CS9011-09-13-2005-(2)	12.61	9.26	7.17	4.94	3.68	2.25	1.12	0.51	250	682	37	32	23
flex-B-M84-CS9011-09-13-2005-(2)	11.54	8.30	6.41	4.30	3.09	1.76	0.86	0.72	250	797	34	33	29
flex-B-M84-CS9011-09-13-2005-(2)	11.93	8.59	6.60	4.51	3.29	1.90	0.88	0.42	250	601	51	27	28

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-B-M84-CS9011-09-13-2005-(2)	11.80	8.35	6.37	4.23	3.04	1.74	0.82	0.51	250	617	44	30	30
flex-B-M84-CS9011-09-13-2005-(2)	11.91	8.44	6.47	4.34	3.15	1.85	0.86	0.49	250	572	48	29	29
flex-B-M84-CS9011-09-13-2005-(2)	11.38	7.98	6.13	4.12	3.03	1.83	0.88	0.52	250	593	48	34	29
flex-B-M84-CS9011-09-13-2005-(2)	11.37	8.07	6.18	4.16	2.98	1.72	0.81	0.30	250	643	47	30	30
flex-U-M52-CS33051-11-13-2002	10.75	9.07	7.76	6.03	4.64	2.68	1.18	0.32	250	1,153	5	375	23
flex-U-M52-CS33051-11-13-2002	10.74	9.05	7.77	6.06	4.66	2.72	1.18	0.21	250	1,153	6	213	23
flex-U-M52-CS33051-11-13-2002	11.14	9.32	8.06	6.27	4.80	2.73	1.15	0.30	250	1,147	4	434	23
flex-U-M52-CS33051-11-13-2002	11.15	9.26	7.92	6.19	4.75	2.72	1.22	0.56	250	1,093	5	440	22
flex-U-M52-CS33051-11-13-2002	10.99	9.13	7.81	6.07	4.64	2.64	1.14	0.45	250	1,084	5	263	23
flex-U-M52-CS33051-11-13-2002	11.51	9.53	8.00	6.09	4.66	2.64	1.14	0.63	250	883	9	49	23
flex-U-M52-CS33051-11-13-2002	11.13	9.20	7.76	5.92	4.49	2.57	1.15	0.34	250	941	7	133	23
flex-U-M52-CS33051-11-13-2002	10.85	8.89	7.60	5.88	4.53	2.64	1.17	0.51	250	954	12	39	23
flex-U-M52-CS33051-11-13-2002	10.85	9.02	7.60	5.83	4.42	2.53	1.13	0.38	250	991	7	157	24
flex-U-M52-CS33051-11-13-2002	10.62	8.83	7.53	5.86	4.50	2.61	1.18	0.45	250	1,090	6	236	23
flex-U-M52-CS33051-11-13-2002	10.87	9.05	7.80	6.07	4.65	2.65	1.14	0.41	250	1,139	5	365	24
flex-U-M52-CS33051-11-13-2002	10.93	8.99	7.61	5.79	4.42	2.55	1.11	0.37	250	900	11	42	23
flex-U-M52-CS33051-11-13-2002	11.01	8.85	7.39	5.51	4.17	2.36	1.10	0.64	250	817	10	88	24
flex-U-M52-CS33051-11-13-2002	10.60	8.74	7.43	5.71	4.33	2.52	1.15	0.23	250	1,009	7	170	23
flex-U-M52-CS33051-11-13-2002	11.43	9.37	7.86	5.97	4.53	2.63	1.14	0.32	250	791	16	28	23
flex-U-M52-CS33051-11-13-2002	10.85	8.86	7.48	5.71	4.33	2.51	1.11	0.27	250	881	12	43	23
flex-U-M52-CS33051-11-13-2002	11.06	8.75	7.20	5.29	3.95	2.24	1.10	0.65	250	736	9	134	24
flex-U-M52-CS33051-11-13-2002	11.73	9.26	7.63	5.78	4.33	2.48	1.17	0.81	250	679	14	43	22
flex-U-M52-CS33051-11-13-2002	11.42	9.29	7.82	5.87	4.42	2.52	1.15	0.34	250	838	8	112	23

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-U-M52-CS33051-11-13-2002	13.08	10.38	8.58	6.39	4.72	2.64	1.14	0.28	250	596	15	25	22
flex-U-M52-CS33051-11-13-2002	10.71	8.66	7.31	5.56	4.21	2.45	1.14	0.37	250	872	11	69	23
flex-U-M52-CS33051-11-13-2002	10.66	8.81	7.47	5.70	4.33	2.47	1.10	0.36	250	1,005	7	190	24
flex-U-M52-CS33051-11-13-2002	10.67	8.58	7.31	5.59	4.21	2.36	1.06	0.79	250	973	7	195	25
flex-U-M52-CS33051-11-13-2002	11.67	9.08	7.45	5.38	3.99	2.23	1.09	0.76	250	649	10	97	24
flex-U-M52-CS33051-11-13-2002	11.25	9.02	7.52	5.58	4.14	2.36	1.10	0.22	250	768	9	90	24
flex-U-M52-CS33051-11-13-2002	11.30	9.09	7.52	5.62	4.20	2.37	1.07	0.43	250	747	12	48	24
flex-U-M52-CS33051-11-13-2002	10.64	8.73	7.44	5.66	4.32	2.49	1.14	0.38	250	974	7	148	23
flex-U-M52-CS33051-11-13-2002	10.51	8.66	7.41	5.71	4.33	2.45	1.10	0.42	250	1,088	5	443	24
flex-U-M52-CS33051-11-13-2002	10.58	8.67	7.31	5.60	4.28	2.44	1.07	0.55	250	942	10	53	24
flex-U-M52-CS33051-11-13-2002	11.27	8.95	7.45	5.51	4.09	2.29	1.06	0.45	250	746	10	75	24
flex-U-M52-CS33051-11-13-2002	10.76	8.78	7.45	5.72	4.37	2.48	1.17	0.74	250	1,012	6	409	23
flex-U-M52-CS33051-11-13-2002	10.72	8.93	7.44	5.67	4.32	2.49	1.09	0.60	250	899	12	40	24
flex-U-M52-CS33051-11-13-2002	10.72	8.71	7.39	5.64	4.36	2.49	1.07	0.66	250	863	19	26	24
flex-U-M52-CS33051-11-13-2002	10.56	8.45	7.13	5.54	4.22	2.51	1.13	0.59	250	773	27	25	23
flex-U-M52-CS33051-11-13-2002	10.39	8.65	7.36	5.67	4.32	2.51	1.10	0.19	250	1,046	8	99	24
flex-U-M52-CS33051-11-13-2002	10.51	8.51	7.23	5.51	4.20	2.40	1.06	0.53	250	910	12	43	24
flex-U-M52-CS33051-11-13-2002	11.01	8.86	7.48	5.66	4.28	2.44	1.09	0.46	250	818	13	41	24
flex-U-M52-CS33051-11-13-2002	11.17	8.94	7.41	5.55	4.16	2.35	1.10	0.60	250	781	9	94	24
flex-Su-M38-CS66042-05-20-2008	13.55	10.03	8.01	5.89	4.53	2.85	1.49	0.61	350	794	60	24	21
flex-Su-M38-CS66042-05-20-2008	12.28	9.08	7.30	5.46	4.27	2.85	1.64	0.75	350	927	60	33	19
flex-Su-M38-CS66042-05-20-2008	12.33	9.05	7.37	5.41	4.19	2.70	1.54	1.21	350	1,019	55	32	20
flex-Su-M38-CS66042-05-20-2008	12.69	9.71	7.95	6.01	4.73	3.11	1.70	0.50	350	1,049	65	26	18

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-Su-M38-CS66042-05-20-2008	13.27	10.11	8.27	6.34	5.03	3.29	1.77	0.60	350	841	76	23	18
flex-Su-M38-CS66042-05-20-2008	16.71	13.13	10.71	8.03	6.20	3.91	1.94	0.23	350	926	50	16	16
flex-Su-M38-CS66042-05-20-2008	15.42	12.18	10.11	8.04	6.52	4.47	2.58	0.72	350	923	64	22	12
flex-Su-M38-CS66042-05-20-2008	14.15	10.04	7.61	5.29	3.96	2.39	1.26	0.88	350	672	46	27	24
flex-Su-M38-CS66042-05-20-2008	14.16	10.68	8.43	6.20	4.77	2.98	1.55	0.61	350	840	54	23	20
flex-Su-M38-CS66042-05-20-2008	14.77	11.37	9.24	6.90	5.36	3.39	1.74	0.41	350	928	56	20	18
flex-M-M53-CS50015-04-04-2008	7.78	6.56	5.97	5.24	4.54	3.40	1.84	0.18	300	621	311	16	19
flex-Su-US141-CS7022-05-19-2008	13.87	11.29	9.16	6.58	4.81	2.58	1.02	0.85	700	907	36	12	32
flex-Su-US141-CS7022-05-19-2008	16.27	13.63	11.46	8.70	6.68	3.94	1.84	0.47	700	1,097	21	13	19
flex-Su-US141-CS7022-05-19-2008	17.27	13.95	11.29	7.98	5.67	2.87	1.12	0.60	700	792	19	11	28
flex-Su-US141-CS7022-05-19-2008	13.99	11.50	9.61	7.24	5.56	3.36	1.62	0.41	700	1,018	35	15	22
flex-Su-US141-CS7022-05-19-2008	12.02	9.35	7.62	5.55	4.25	2.63	1.38	0.48	700	796	45	24	26
flex-Su-US141-CS7022-05-19-2008	15.52	12.82	10.73	8.15	6.32	3.85	1.85	0.48	700	907	35	13	19
flex-Su-US141-CS7022-05-19-2008	16.04	13.05	10.78	7.94	5.96	3.45	1.53	0.59	700	778	34	12	22
flex-Su-US141-CS7022-05-19-2008	17.84	14.50	11.90	8.75	6.52	3.62	1.53	0.98	700	723	29	10	22
flex-Su-US141-CS7022-05-19-2008	19.76	15.96	13.02	9.54	7.17	4.17	1.99	0.57	700	626	23	12	17
flex-Su-US141-CS7022-05-19-2008	17.61	14.18	11.65	8.70	6.69	4.12	2.13	0.46	700	684	27	15	16
flex-Su-US141-CS7022-05-19-2008	17.99	14.62	12.07	8.96	6.92	4.41	2.33	0.71	700	675	25	16	15
flex-Su-US141-CS7022-05-19-2008	17.49	13.99	11.38	8.31	6.25	3.78	1.95	0.48	700	680	22	16	18
flex-Su-US41-CS7013-05-19-2008	17.11	12.61	9.96	7.16	5.50	3.36	1.55	1.13	150	1,815	35	23	12
flex-Su-US41-CS7013-05-19-2008	18.45	13.93	10.91	7.94	6.13	3.77	1.75	1.01	150	1,816	32	22	11
flex-Su-US41-CS7013-05-19-2008	16.35	12.06	9.33	6.70	5.18	3.23	1.57	1.21	150	1,889	33	31	12
flex-Su-US41-CS7013-05-19-2008	15.97	11.64	9.02	6.55	5.11	3.27	1.65	1.37	150	1,809	35	36	11

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-Su-US41-CS7013-05-19-2008	17.59	13.09	10.17	7.36	5.59	3.37	1.46	0.84	150	1,651	37	19	12
flex-Su-US41-CS7013-05-19-2008	17.00	13.12	10.42	7.67	5.96	3.81	1.83	0.65	150	2,260	32	26	10
flex-Su-US41-CS7013-05-19-2008	18.65	13.97	10.94	7.95	6.19	3.92	1.91	1.00	150	1,714	30	26	10
flex-Su-US41-CS7013-05-19-2008	17.73	12.87	9.91	7.12	5.52	3.51	1.77	1.37	150	1,594	30	33	10
flex-Su-US41-CS7013-05-19-2008	17.97	13.35	10.57	7.79	6.18	4.06	2.09	1.04	150	1,671	33	30	9
flex-Su-US41-CS7013-05-19-2008	18.77	13.85	10.71	7.81	6.08	3.92	1.94	0.98	150	1,481	31	27	9
flex-Su-US41-CS7013-05-19-2008	16.97	12.35	9.56	6.89	5.34	3.38	1.71	1.46	150	1,725	32	34	11
flex-Su-US2-CS27022-05-20-2008	7.39	5.46	4.58	3.88	3.44	2.78	1.67	1.46	250	427	238	105	16
flex-Su-US2-CS27022-05-20-2008	9.28	6.19	4.65	3.53	3.08	2.61	1.77	0.17	250	808	44	291	14
flex-Su-US2-CS27022-05-20-2008	13.40	9.48	7.15	4.78	3.40	1.92	0.84	0.41	250	686	51	23	30
flex-N-US131-CS67017-05-01-2002	10.66	7.53	6.29	4.89	3.85	2.41	1.18	0.17	700	220	169	22	30
flex-N-US131-CS67017-05-01-2002	10.74	7.85	6.64	5.33	4.36	2.90	1.49	0.35	700	223	220	22	25
flex-N-M55-CS77022-8-20-2001	12.52	9.69	7.64	5.40	4.09	2.60	1.49	1.39	700	348	7	86	24
flex-N-M55-CS77022-8-20-2001	11.72	9.06	7.21	5.08	3.87	2.52	1.46	1.47	700	365	8	97	25
flex-N-M55-CS77022-8-20-2001	11.63	8.67	6.81	4.84	3.77	2.56	1.53	1.24	700	320	11	93	24
flex-N-M55-CS77022-8-20-2001	13.39	9.97	7.72	5.27	3.97	2.59	1.46	1.83	700	261	10	57	24
flex-N-M55-CS77022-8-20-2001	12.11	9.11	7.01	4.93	3.71	2.44	1.42	1.42	700	304	9	81	25
flex-N-M55-CS77022-8-20-2001	11.94	8.75	6.70	4.68	3.59	2.45	1.47	1.42	700	281	10	102	24
flex-N-M55-CS77022-8-20-2001	12.47	9.30	7.17	5.08	3.94	2.65	1.50	1.79	700	271	15	50	24
flex-N-M55-CS77022-8-20-2001	13.54	9.92	7.52	5.13	3.86	2.53	1.41	1.99	700	235	13	47	25
flex-N-M55-CS77022-8-20-2001	11.63	8.54	6.56	4.58	3.55	2.41	1.45	1.45	700	288	11	94	25
flex-N-M55-CS77022-8-20-2001	11.94	8.93	6.93	4.97	3.90	2.63	1.47	1.73	700	287	20	46	24
flex-N-M55-CS77022-8-20-2001	11.33	8.62	6.81	4.75	3.62	2.40	1.38	1.67	700	342	10	81	26

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-M55-CS77022-8-20-2001	10.89	8.27	6.50	4.60	3.54	2.45	1.43	1.77	700	340	11	90	25
flex-N-M55-CS77022-8-20-2001	11.73	8.90	6.85	4.88	3.81	2.55	1.46	1.84	700	309	13	62	24
flex-N-M55-CS77022-8-20-2001	11.80	9.06	7.13	5.05	3.93	2.65	1.49	1.99	700	323	13	55	24
flex-N-M55-CS77022-8-20-2001	11.60	8.99	7.10	5.07	3.91	2.57	1.47	1.59	700	354	10	69	24
flex-N-M55-CS77022-8-20-2001	11.65	9.07	7.17	5.12	3.91	2.55	1.42	1.63	700	359	10	59	25
flex-N-M55-CS77022-8-20-2001	11.76	9.04	7.14	5.05	3.85	2.49	1.41	1.50	700	347	10	65	25
flex-N-M55-CS77022-8-20-2001	11.33	8.93	7.00	4.92	3.73	2.39	1.39	1.80	700	384	6	134	26
flex-N-M55-CS77022-8-20-2001	11.51	8.91	6.98	4.93	3.71	2.47	1.38	1.94	700	343	11	63	26
flex-N-M55-CS77022-8-20-2001	12.43	9.49	7.48	5.40	4.20	2.79	1.51	1.74	700	295	20	35	23
flex-N-M55-CS77022-8-20-2001	12.48	9.96	7.98	5.93	4.73	3.30	1.93	1.71	700	354	11	64	18
flex-N-M55-CS77022-8-20-2001	11.39	8.90	7.10	5.27	4.21	3.03	1.94	1.30	700	369	8	181	18
flex-N-M55-CS77022-8-20-2001	18.12	13.47	10.52	7.67	5.92	3.81	1.94	1.68	700	166	29	17	17
flex-N-M55-CS77022-8-20-2001	14.84	10.50	7.92	5.66	4.46	3.11	1.85	1.38	700	188	14	55	19
flex-N-M55-CS77022-8-20-2001	13.10	9.42	7.11	5.00	3.97	2.90	1.81	1.65	700	224	10	122	20
flex-N-M55-CS77022-8-20-2001	14.29	10.20	7.69	5.43	4.33	3.08	1.89	1.57	700	204	11	86	19
flex-N-M55-CS77022-8-20-2001	13.21	9.75	7.55	5.47	4.36	3.10	1.89	1.35	700	251	11	84	19
flex-N-M55-CS77022-8-20-2001	11.76	8.73	6.89	5.05	4.06	2.92	1.81	1.12	700	296	13	101	20
flex-N-M55-CS77022-8-20-2001	13.08	9.72	7.52	5.44	4.37	3.15	1.93	1.59	700	254	12	89	19
flex-N-M55-CS77022-8-20-2001	11.59	9.25	7.47	5.59	4.49	3.20	1.93	1.59	700	394	10	99	19
flex-N-M55-CS77022-8-20-2001	11.98	9.37	7.49	5.55	4.44	3.14	1.88	1.51	700	353	11	85	19
flex-N-M55-CS77022-8-20-2001	11.72	9.09	7.15	5.20	4.12	2.94	1.80	1.74	700	333	10	115	20
flex-N-M55-CS77022-8-20-2001	12.59	9.62	7.48	5.39	4.27	3.00	1.80	1.80	700	287	11	79	20
flex-N-M55-CS77022-8-20-2001	12.31	9.41	7.32	5.34	4.23	3.06	1.81	1.96	700	289	13	76	20

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-M55-CS77022-8-20-2001	10.85	8.36	6.62	4.88	3.90	2.86	1.81	1.44	700	358	10	162	20
flex-N-M55-CS77022-8-20-2001	10.54	8.03	6.43	4.81	3.90	2.86	1.81	1.04	700	371	12	140	20
flex-N-M55-CS77022-8-20-2001	12.65	9.38	7.33	5.31	4.22	3.00	1.84	1.25	700	274	11	92	20
flex-N-M55-CS77022-8-20-2001-(2)	12.52	9.69	7.64	5.40	4.09	2.60	1.49	1.39	736	348	7	86	24
flex-N-M55-CS77022-8-20-2001-(2)	11.72	9.06	7.21	5.08	3.87	2.52	1.46	1.47	737	365	8	97	25
flex-N-M55-CS77022-8-20-2001-(2)	11.63	8.67	6.81	4.84	3.77	2.56	1.53	1.24	738	320	11	93	24
flex-N-M55-CS77022-8-20-2001-(2)	13.39	9.97	7.72	5.27	3.97	2.59	1.46	1.83	739	261	10	57	24
flex-N-M55-CS77022-8-20-2001-(2)	12.11	9.11	7.01	4.93	3.71	2.44	1.42	1.42	740	304	9	81	25
flex-N-M55-CS77022-8-20-2001-(2)	11.94	8.75	6.70	4.68	3.59	2.45	1.47	1.42	741	281	10	102	24
flex-N-M55-CS77022-8-20-2001-(2)	12.47	9.30	7.17	5.08	3.94	2.65	1.50	1.79	742	271	15	50	24
flex-N-M55-CS77022-8-20-2001-(2)	13.54	9.92	7.52	5.13	3.86	2.53	1.41	1.99	743	235	13	47	25
flex-N-M55-CS77022-8-20-2001-(2)	11.63	8.54	6.56	4.58	3.55	2.41	1.45	1.45	745	288	11	94	25
flex-N-M55-CS77022-8-20-2001-(2)	11.94	8.93	6.93	4.97	3.90	2.63	1.47	1.73	746	287	20	46	24
flex-N-M55-CS77022-8-20-2001-(2)	11.33	8.62	6.81	4.75	3.62	2.40	1.38	1.67	748	342	10	81	26
flex-N-M55-CS77022-8-20-2001-(2)	10.89	8.27	6.50	4.60	3.54	2.45	1.43	1.77	749	340	11	90	25
flex-N-M55-CS77022-8-20-2001-(2)	11.73	8.90	6.85	4.88	3.81	2.55	1.46	1.84	750	309	13	62	24
flex-N-M55-CS77022-8-20-2001-(2)	11.80	9.06	7.13	5.05	3.93	2.65	1.49	1.99	751	323	13	55	24
flex-N-M55-CS77022-8-20-2001-(2)	11.60	8.99	7.10	5.07	3.91	2.57	1.47	1.59	752	354	10	69	24
flex-N-M55-CS77022-8-20-2001-(2)	11.65	9.07	7.17	5.12	3.91	2.55	1.42	1.63	753	359	10	59	25
flex-N-M55-CS77022-8-20-2001-(2)	11.76	9.04	7.14	5.05	3.85	2.49	1.41	1.50	754	347	10	65	25
flex-N-M55-CS77022-8-20-2001-(2)	11.33	8.93	7.00	4.92	3.73	2.39	1.39	1.80	755	384	6	134	26
flex-N-M55-CS77022-8-20-2001-(2)	11.51	8.91	6.98	4.93	3.71	2.47	1.38	1.94	756	343	11	63	26
flex-N-M55-CS77022-8-20-2001-(2)	12.43	9.49	7.48	5.40	4.20	2.79	1.51	1.74	757	295	20	35	23

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-M55-CS77022-8-20-2001-(2)	12.48	9.96	7.98	5.93	4.73	3.30	1.93	1.71	758	354	11	64	18
flex-N-M55-CS77022-8-20-2001-(2)	11.39	8.90	7.10	5.27	4.21	3.03	1.94	1.30	759	369	8	181	18
flex-N-M55-CS77022-8-20-2001-(2)	13.77	10.05	7.74	5.58	4.37	3.03	1.88	1.04	760	242	9	92	19
flex-N-M55-CS77022-8-20-2001-(2)	18.12	13.47	10.52	7.67	5.92	3.81	1.94	1.68	761	168	28	17	17
flex-N-M55-CS77022-8-20-2001-(2)	14.84	10.50	7.92	5.66	4.46	3.11	1.85	1.38	762	188	14	55	19
flex-N-M55-CS77022-8-20-2001-(2)	13.10	9.42	7.11	5.00	3.97	2.90	1.81	1.65	763	224	10	122	20
flex-N-M55-CS77022-8-20-2001-(2)	14.29	10.20	7.69	5.43	4.33	3.08	1.89	1.58	765	204	11	84	19
flex-N-M55-CS77022-8-20-2001-(2)	13.21	9.75	7.55	5.47	4.36	3.10	1.89	1.35	766	251	11	84	19
flex-N-M55-CS77022-8-20-2001-(2)	11.76	8.73	6.89	5.05	4.06	2.92	1.81	1.12	767	296	13	101	20
flex-N-M55-CS77022-8-20-2001-(2)	13.08	9.72	7.52	5.44	4.37	3.15	1.93	1.59	768	255	12	89	19
flex-N-M55-CS77022-8-20-2001-(2)	11.59	9.25	7.47	5.59	4.49	3.20	1.93	1.59	769	394	10	99	19
flex-N-M55-CS77022-8-20-2001-(2)	11.98	9.37	7.49	5.55	4.44	3.14	1.88	1.51	770	353	11	85	19
flex-N-M55-CS77022-8-20-2001-(2)	11.72	9.09	7.15	5.20	4.12	2.94	1.80	1.74	771	333	10	115	20
flex-N-M55-CS77022-8-20-2001-(2)	12.59	9.62	7.48	5.39	4.27	3.00	1.80	1.80	772	287	11	79	20
flex-N-M55-CS77022-8-20-2001-(2)	12.31	9.41	7.32	5.34	4.23	3.06	1.81	1.96	773	289	13	76	20
flex-N-M55-CS77022-8-20-2001-(2)	10.85	8.36	6.62	4.88	3.90	2.86	1.81	1.44	774	358	10	162	20
flex-N-M55-CS77022-8-20-2001-(2)	10.54	8.03	6.43	4.81	3.90	2.86	1.81	1.04	775	371	12	140	20
flex-N-M55-CS77022-8-20-2001-(2)	12.65	9.38	7.33	5.31	4.22	3.00	1.84	1.26	776	275	11	92	20
flex-N-I75-CS69014-11-12-1997	9.80	8.82	5.55	4.13	3.19	2.05	1.14	1.77	700	199	83	32	35
flex-N-I75-CS69014-11-12-1997	10.00	7.95	5.24	3.58	2.40	1.34	0.83	1.23	700	590	11	52	37
flex-N-I75-CS69014-11-12-1997	11.61	7.40	5.83	4.33	3.23	1.93	1.06	1.81	700	435	36	36	24
flex-N-I75-CS69014-11-12-1997	13.74	8.15	6.26	4.57	3.35	2.09	1.22	1.19	700	211	51	29	40
flex-N-I75-CS69014-11-12-1997	12.48	9.17	7.01	5.00	3.62	2.17	1.34	0.45	700	840	13	21	29

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-I75-CS69014-11-12-1997	14.02	9.96	6.89	4.65	3.35	2.01	1.22	0.33	700	1,233	17	29	23
flex-N-I75-CS69014-11-12-1997	9.92	8.46	7.17	5.51	4.06	2.20	1.10	0.57	700	429	64	30	27
flex-N-I75-CS69014-11-12-1997	9.29	8.07	6.97	5.71	4.37	2.24	1.22	0.59	700	923	85	17	29
flex-N-I75-CS69014-11-12-1997	9.29	8.46	7.36	4.06	3.15	1.97	1.02	0.47	700	1,021	39	31	40
flex-N-I75-CS69014-11-12-1997	10.94	9.21	7.87	6.10	4.13	2.05	1.18	0.71	700	366	141	17	44
flex-N-I75-CS69014-11-12-1997	9.13	8.11	7.09	5.83	4.29	2.44	1.26	0.61	700	828	69	28	41
flex-N-I75-CS69014-11-12-1997	10.94	10.59	7.48	5.35	3.94	2.48	1.57	0.59	700	992	51	38	57
flex-N-I75-CS69014-11-12-1997	14.06	9.76	5.79	4.53	3.50	2.17	1.22	0.13	700	677	110	34	28
flex-N-I75-CS69014-11-12-1997	11.73	8.50	6.69	5.08	3.82	2.20	1.10	1.13	700	1,178	22	83	31
flex-N-I75-CS69014-11-12-1997	10.35	7.64	6.22	4.76	3.54	2.09	0.83	0.51	700	756	101	28	30
flex-N-I75-CS69014-11-12-1997	10.67	7.95	5.67	4.06	2.99	1.77	0.79	0.64	700	1,056	14	119	20
flex-N-I75-CS69014-11-12-1997	11.81	8.62	6.38	4.21	3.11	1.73	0.75	0.96	700	428	50	37	19
flex-N-I75-CS69014-11-12-1997	10.35	8.70	7.52	6.26	4.69	2.80	1.46	1.00	700	1,159	11	77	27
flex-N-I75-CS69014-11-12-1997	11.81	8.82	6.77	5.20	4.06	2.76	1.81	0.36	700	917	53	47	28
flex-N-I75-CS69014-11-12-1997	11.57	7.76	6.10	4.72	3.66	2.32	1.30	0.61	700	878	25	46	31
flex-N-I75-CS69014-08-03-1999	8.78	6.50	5.12	3.94	2.99	2.01	1.26	1.32	700	501	27	100	28
flex-N-I75-CS69014-08-03-1999	9.33	6.61	5.00	3.70	2.64	1.69	0.87	1.65	700	314	52	33	38
flex-N-I75-CS69014-08-03-1999	7.83	5.63	4.33	3.27	2.40	1.46	0.71	1.10	700	380	75	29	46
flex-N-I75-CS69014-08-03-1999	7.99	5.75	4.41	3.31	2.48	1.61	0.83	1.31	700	357	73	35	41
flex-N-I75-CS69014-08-03-1999	8.19	6.34	5.16	4.13	3.15	2.13	1.02	1.51	700	455	96	20	34
flex-N-I75-CS69014-08-03-1999	7.99	5.67	4.25	3.27	2.40	1.69	1.06	1.86	700	419	36	117	33
flex-N-I75-CS69014-08-03-1999	7.76	5.79	4.61	3.62	2.80	1.81	0.94	0.96	700	437	84	30	36
flex-N-I75-CS69014-08-03-1999	7.76	5.91	4.72	3.82	2.95	1.97	1.02	1.28	700	453	94	28	34

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-I75-CS69014-08-03-1999	10.20	7.64	6.14	4.76	3.66	2.32	1.10	0.77	700	325	73	17	31
flex-N-I75-CS69014-08-03-1999	9.41	6.85	5.39	4.13	3.11	2.01	1.02	0.95	700	329	66	26	33
flex-N-I75-CS69014-08-03-1999	8.74	6.30	4.92	3.86	2.91	1.85	0.94	1.22	700	327	79	26	36
flex-N-I75-CS69014-08-03-1999	9.09	6.34	4.92	3.86	2.91	1.85	0.94	1.24	700	266	85	26	36
flex-N-I75-CS69014-08-03-1999	8.35	5.59	4.09	2.95	2.09	1.26	0.59	1.66	700	264	74	30	54
flex-N-I75-CS69014-08-03-1999	8.74	6.22	4.88	3.74	2.72	1.69	0.83	1.23	700	336	71	25	40
flex-N-I75-CS69014-08-03-1999	8.70	5.87	4.45	3.27	2.40	1.46	0.75	0.83	700	278	67	32	44
flex-N-I75-CS69014-08-03-1999	8.82	6.30	4.96	3.86	2.91	1.93	1.02	1.05	700	322	74	31	33
flex-N-I75-CS69014-08-03-1999	8.90	6.50	5.20	4.06	3.03	1.89	0.91	0.97	700	354	80	21	37
flex-N-I75-CS69014-08-03-1999	10.20	7.28	5.75	4.53	3.46	2.40	1.30	1.26	700	261	69	30	26
flex-N-I75-CS69014-08-03-1999	9.33	6.18	4.53	3.11	2.28	1.61	1.02	0.56	700	299	26	165	34
flex-N-I75-CS69014-08-03-1999	8.35	5.55	4.06	2.95	2.20	1.57	1.10	1.97	700	369	25	388	32
flex-N-I75-CS69014-08-03-1999	9.02	6.22	4.61	3.35	2.52	1.61	0.98	1.57	700	327	36	69	35
flex-N-I75-CS69014-08-03-1999	6.93	5.08	3.98	2.95	2.09	1.42	0.83	1.59	700	603	33	107	42
flex-N-I75-CS69014-08-03-1999	8.23	6.10	4.80	3.58	2.72	2.01	1.18	1.68	700	448	38	87	29
flex-N-I75-CS69014-08-03-1999	7.52	5.63	4.45	3.50	2.68	1.81	1.14	1.59	700	608	34	110	30
flex-N-I75-CS69014-08-03-1999	8.62	6.30	4.80	3.74	2.83	2.01	1.30	1.70	700	445	30	139	27
flex-N-I75-CS69014-08-03-1999	8.50	6.18	4.84	3.62	2.72	1.77	1.10	1.22	700	496	26	105	31
flex-N-I75-CS69014-08-03-1999	7.95	5.67	4.41	3.39	2.60	1.85	1.22	1.38	700	465	33	168	29
flex-N-I75-CS69014-08-03-1999-(2)	7.36	5.43	4.33	3.31	2.48	1.73	1.14	1.15	700	655	23	322	31
flex-N-I75-CS69014-08-03-1999-(2)	7.44	5.43	4.33	3.35	2.56	1.69	1.10	1.88	700	631	28	166	32
flex-N-I75-CS69014-08-03-1999-(2)	6.50	4.49	3.46	2.48	1.81	1.10	0.51	1.09	700	394	98	35	64
flex-N-I75-CS69014-08-03-1999-(2)	7.01	5.20	4.17	3.31	2.52	1.57	0.87	1.62	700	576	71	40	40

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-I75-CS69014-08-03-1999-(2)	8.11	6.02	4.88	3.94	3.07	2.09	1.18	1.08	700	432	80	38	30
flex-N-I75-CS69014-08-03-1999-(2)	7.60	5.47	4.29	3.27	2.48	1.61	0.87	0.77	700	406	74	40	39
flex-N-I75-CS69014-08-03-1999-(2)	8.46	6.14	4.76	3.54	2.64	1.61	0.83	0.80	700	392	59	32	40
flex-N-I75-CS69014-08-03-1999-(2)	10.20	7.56	5.94	4.37	3.19	1.85	0.83	0.72	700	356	51	18	39
flex-N-I75-CS69014-08-03-1999-(2)	9.41	7.01	5.51	4.29	3.27	2.17	1.18	1.09	700	378	56	33	29
flex-N-I75-CS69014-08-03-1999-(2)	8.58	6.57	5.35	4.21	3.23	2.01	1.02	0.93	700	520	61	24	33
flex-N-I75-CS69014-08-03-1999-(2)	7.76	5.83	4.57	3.50	2.60	1.61	0.79	1.16	700	467	70	27	42
flex-N-I75-CS69014-08-03-1999-(2)	8.31	5.79	4.45	3.39	2.56	1.65	0.91	1.02	700	323	70	40	38
flex-N-I75-CS69014-08-03-1999-(2)	8.35	6.02	4.57	3.39	2.44	1.42	0.67	1.23	700	374	62	26	48
flex-N-I75-CS69014-08-03-1999-(2)	7.99	5.75	4.45	3.31	2.32	1.34	0.63	1.19	700	430	58	28	51
flex-N-I75-CS69014-08-03-1999-(2)	7.44	5.47	4.25	3.31	2.44	1.61	1.02	1.94	700	605	27	149	34
flex-N-I75-CS69014-08-03-1999-(2)	8.03	5.83	4.53	3.50	2.64	1.69	0.91	1.19	700	393	70	36	38
flex-N-I75-CS69014-08-03-1999-(2)	8.66	6.38	5.00	3.90	2.91	1.97	1.06	1.40	700	382	62	36	32
flex-N-I75-CS69014-08-03-1999-(2)	8.58	6.26	4.84	3.62	2.64	1.65	0.83	1.20	700	381	58	30	40
flex-N-I75-CS69014-08-03-1999-(2)	7.48	5.24	3.98	3.07	2.36	1.73	1.18	1.74	700	453	34	260	30
flex-N-I75-CS69014-08-03-1999-(2)	7.76	5.39	3.98	2.91	2.13	1.42	0.91	1.71	700	436	30	156	38
flex-N-I75-CS69014-08-03-1999-(2)	8.86	6.14	4.69	3.43	2.48	1.61	1.02	1.59	700	414	25	124	34
flex-N-I75-CS69014-08-03-1999-(2)	7.17	4.88	3.66	2.52	1.73	1.02	0.63	1.38	700	533	26	153	56
flex-N-I75-CS69014-08-03-1999-(2)	7.64	5.39	4.09	2.87	2.01	1.14	0.71	1.68	700	601	18	247	50
flex-N-I75-CS69014-08-03-1999-(2)	8.54	5.98	4.53	3.31	2.40	1.61	1.02	1.28	700	432	26	152	35
flex-N-I75-CS69014-08-03-1999-(2)	8.35	6.10	4.69	3.50	2.56	1.69	1.10	1.48	700	545	19	284	32
flex-N-I75-CS69014-08-03-1999-(2)	6.18	4.65	3.74	2.95	2.24	1.57	1.06	1.54	700	872	25	481	33
flex-N-I75-CS69014-08-03-1999-(2)	7.68	5.79	4.57	3.54	2.68	1.77	1.14	1.60	700	690	20	258	30

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-I75-CS69014-11-23-1997	11.14	7.32	5.79	4.21	2.95	1.85	1.06	1.98	700	304	37	45	35
flex-N-I75-CS69014-11-23-1997	11.30	8.15	6.14	4.53	3.46	2.24	1.38	1.52	700	344	28	68	28
flex-N-I75-CS69014-11-23-1997	11.14	7.48	5.87	4.25	3.11	1.81	0.91	0.83	700	259	57	25	40
flex-N-I75-CS69014-11-23-1997	12.36	8.27	6.26	4.61	3.50	2.09	1.06	1.09	700	197	60	23	34
flex-N-I75-CS69014-11-23-1997	13.23	9.29	6.89	5.04	3.78	2.52	1.61	1.60	700	281	20	97	24
flex-N-I75-CS69014-11-23-1997	8.11	6.57	5.51	4.37	3.39	2.24	1.38	0.65	700	1,055	13	399	27
flex-N-I75-CS69014-08-04-1999	9.76	6.81	5.20	4.06	3.23	2.32	1.54	1.60	700	296	39	99	23
flex-N-I75-CS69014-08-04-1999	8.86	5.94	4.57	3.50	2.64	1.77	1.10	1.89	700	309	49	67	32
flex-N-I75-CS69014-08-04-1999	7.52	5.55	4.41	3.43	2.60	1.73	0.91	1.07	700	434	81	35	37
flex-N-I75-CS69014-08-04-1999	7.87	5.35	4.09	3.19	2.32	1.54	0.83	1.72	700	308	81	41	41
flex-N-I75-CS69014-08-04-1999	8.58	5.79	4.33	3.31	2.44	1.54	0.87	1.82	700	289	62	43	39
flex-N-I75-CS69014-08-04-1999	9.21	6.30	4.92	3.90	3.03	2.09	1.18	1.05	700	242	82	39	29
flex-N-I75-CS69014-08-04-1999	8.62	5.71	4.33	3.35	2.48	1.65	0.87	1.49	700	233	87	35	39
flex-N-I75-CS69014-08-04-1999	9.33	6.22	4.84	3.86	3.03	2.09	1.22	1.20	700	218	83	43	28
flex-N-I75-CS69014-08-04-1999	10.91	7.28	5.47	4.09	3.15	2.09	1.10	1.20	700	186	64	30	30
flex-N-I75-CS69014-08-04-1999	9.88	7.40	5.91	4.57	3.39	2.20	1.06	1.42	700	356	66	21	32
flex-N-I75-CS69014-08-04-1999	9.92	7.52	6.06	4.80	3.70	2.48	1.22	1.24	700	336	82	19	29
flex-N-I75-CS69014-08-04-1999	9.92	7.56	6.26	5.00	3.90	2.56	1.26	0.62	700	373	84	17	28
flex-N-I75-CS69014-08-04-1999	11.30	8.43	6.65	5.00	3.78	2.44	1.22	1.12	700	305	51	21	28
flex-N-I75-CS69014-08-04-1999	10.63	7.52	5.71	4.17	3.07	1.93	0.94	1.37	700	256	55	24	35
flex-N-I75-CS69014-08-04-1999	10.71	7.91	6.22	4.61	3.35	1.89	0.83	0.68	700	346	49	16	39
flex-N-I75-CS69014-08-04-1999	9.92	7.13	5.55	4.29	3.23	2.01	1.06	1.29	700	316	58	27	32
flex-N-I75-CS69014-08-04-1999	8.90	6.26	4.80	3.58	2.72	1.89	1.26	1.43	700	418	25	202	28

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-I75-CS69014-08-04-1999	9.29	6.85	5.39	4.25	3.27	2.20	1.18	1.20	700	337	72	30	29
flex-N-I75-CS69014-08-04-1999	7.32	4.96	3.74	2.80	2.05	1.34	0.83	1.86	700	417	47	90	43
flex-N-I75-CS69014-08-04-1999	8.90	5.91	4.33	3.07	2.28	1.54	0.94	0.99	700	299	37	92	37
flex-N-I75-CS69014-08-04-1999	9.06	6.18	4.72	3.54	2.76	2.05	1.34	0.84	700	321	35	148	26
flex-N-I75-CS69014-08-04-1999	10.91	7.40	5.59	4.02	3.11	2.24	1.46	0.55	700	268	26	133	24
flex-N-I75-CS69014-08-04-1999	9.49	6.69	5.08	3.78	2.95	2.01	1.34	1.81	700	371	27	146	26
flex-N-I75-CS69014-08-04-1999	11.46	8.27	6.30	4.69	3.46	2.24	1.42	1.57	700	355	18	99	24
flex-N-I75-CS69014-08-04-1999	9.45	6.61	5.20	3.98	3.07	2.09	1.34	1.63	700	364	36	82	26
flex-N-I75-CS69014-08-04-1999	8.62	6.14	4.96	3.82	2.95	2.09	1.38	1.44	700	464	31	139	26
flex-N-I75-CS69014-08-04-1999	7.87	5.75	4.45	3.31	2.44	1.61	0.98	1.00	700	523	29	108	35
flex-N-I75-CS69014-08-04-1999-(2)	9.33	5.98	4.25	2.99	2.20	1.50	0.98	1.91	700	274	29	149	36
flex-N-I75-CS69014-08-04-1999-(2)	8.46	5.35	4.02	3.11	2.32	1.57	0.94	1.89	700	234	71	60	37
flex-N-I75-CS69014-08-04-1999-(2)	8.94	5.63	4.29	3.19	2.32	1.46	0.83	1.73	700	242	64	45	42
flex-N-I75-CS69014-08-04-1999-(2)	9.72	6.14	4.57	3.35	2.44	1.54	0.87	1.36	700	214	56	42	39
flex-N-I75-CS69014-08-04-1999-(2)	8.35	5.59	4.21	3.11	2.20	1.46	0.91	1.96	700	372	34	95	38
flex-N-I75-CS69014-08-04-1999-(2)	7.44	5.12	4.02	2.95	2.20	1.46	0.94	1.75	700	487	32	146	37
flex-N-I75-CS69014-08-04-1999-(2)	8.86	5.55	4.17	3.11	2.32	1.54	0.87	0.99	700	214	71	48	39
flex-N-I75-CS69014-08-04-1999-(2)	8.82	5.35	3.74	2.64	2.01	1.46	0.98	1.81	700	238	36	218	36
flex-N-I75-CS69014-08-04-1999-(2)	8.11	5.00	3.74	2.76	2.09	1.34	0.79	1.49	700	232	75	58	44
flex-N-I75-CS69014-08-04-1999-(2)	8.03	5.16	4.17	3.31	2.56	1.77	1.02	1.33	700	234	112	47	34
flex-N-I75-CS69014-08-04-1999-(2)	9.33	6.06	4.80	3.66	2.72	1.73	0.94	1.45	700	237	76	33	36
flex-N-I75-CS69014-08-04-1999-(2)	9.61	6.22	5.04	4.02	3.15	2.17	1.30	1.59	700	204	88	42	27
flex-N-I75-CS69014-08-04-1999-(2)	9.06	6.02	4.84	3.82	2.95	2.01	1.18	1.42	700	246	83	42	30

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-N-I75-CS69014-08-04-1999-(2)	8.74	5.31	3.98	2.87	2.13	1.26	0.71	1.94	700	215	71	43	48
flex-N-I75-CS69014-08-04-1999-(2)	9.33	6.46	5.08	3.94	3.03	1.97	1.14	1.43	700	293	62	39	30
flex-N-I75-CS69014-08-04-1999-(2)	7.76	5.94	4.69	3.70	2.87	1.97	1.10	1.29	700	516	68	45	33
flex-N-I75-CS69014-08-04-1999-(2)	7.44	5.67	4.61	3.66	2.80	1.81	0.91	0.94	700	534	93	26	39
flex-N-I75-CS69014-08-04-1999-(2)	8.43	6.34	5.20	4.13	3.31	2.17	1.22	1.07	700	467	76	34	29
flex-N-I75-CS69014-08-04-1999-(2)	7.83	6.06	4.92	4.02	3.23	2.20	1.14	1.13	700	444	122	24	32
flex-N-I75-CS69014-08-04-1999-(2)	7.13	4.92	3.86	2.87	2.05	1.42	0.79	1.84	700	434	62	64	45
flex-N-I75-CS69014-08-04-1999-(2)	7.28	5.20	4.09	2.99	2.24	1.54	1.02	0.96	700	603	24	369	35
flex-N-I75-CS69014-08-04-1999-(2)	7.01	5.08	4.09	3.11	2.28	1.50	0.98	1.76	700	762	19	457	36
flex-N-I75-CS69014-08-04-1999-(2)	6.18	4.61	3.66	2.95	2.24	1.61	1.10	1.99	700	833	29	464	32
flex-N-I75-CS69014-08-04-1999-(2)	7.05	5.16	4.09	3.15	2.44	1.61	1.06	1.92	700	670	29	198	33
flex-N-I75-CS69014-08-04-1999-(2)	7.20	5.08	3.82	2.87	2.20	1.54	1.06	2.00	700	536	28	402	34
flex-N-I75-CS69014-08-04-1999-(2)	8.31	6.10	4.80	3.58	2.60	1.77	1.18	1.16	700	587	17	456	30
flex-N-I75-CS69014-08-04-1999-(2)	6.61	5.00	3.94	2.99	2.24	1.54	1.02	1.10	700	792	22	499	35
flex-N-I75-CS69014-08-04-1999-(2)	7.48	5.35	4.06	2.95	2.17	1.46	0.94	1.17	700	538	24	272	37
flex-N-I75-CS69014-08-04-1999-(2)	7.83	5.75	4.49	3.35	2.48	1.50	0.94	1.97	700	673	17	260	38
flex-G-M120-CS61012-07-23-1998	14.21	9.53	7.48	6.14	4.84	3.11	1.69	1.70	700	128	106	22	22
flex-G-M120-CS61012-07-23-1998	19.80	14.84	12.01	9.45	7.28	4.53	2.05	0.90	700	149	58	9	17
flex-G-M120-CS61012-07-23-1998	18.35	13.27	10.55	8.27	6.50	4.21	2.24	0.88	700	145	46	16	16
flex-G-M120-CS61012-07-23-1998	23.46	15.47	11.34	7.80	5.24	2.60	1.02	1.12	700	89	29	9	29
flex-G-M120-CS61012-07-23-1998	22.17	16.42	12.91	10.28	8.15	5.43	2.80	1.51	700	116	46	12	13
flex-G-M120-CS61012-07-23-1998	18.58	13.07	10.55	9.06	7.44	5.39	3.15	1.39	700	103	96	21	12
flex-G-M120-CS61012-07-23-1998	23.03	14.57	10.43	7.36	5.24	2.76	1.14	1.68	700	72	43	10	27

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-M120-CS61012-07-23-1998	30.63	21.54	16.89	13.31	10.31	6.18	2.32	1.76	700	60	73	4	15
flex-G-M120-CS61012-07-23-1998	19.21	14.02	11.42	9.21	6.89	3.90	1.54	1.43	700	143	71	7	22
flex-G-M120-CS61012-07-23-1998	16.50	11.38	8.86	6.93	5.55	3.82	2.05	1.40	700	123	63	22	17
flex-G-M120-CS61012-07-23-1998	26.30	18.27	14.21	10.31	7.36	3.82	1.69	1.10	700	106	22	8	19
flex-G-M120-CS61012-07-23-1998	15.59	10.94	8.39	6.50	5.16	3.50	1.85	1.74	700	139	58	22	19
flex-G-M120-CS61012-07-23-1998	12.95	8.86	6.81	5.08	3.78	2.24	1.10	0.84	700	177	61	21	31
flex-G-M120-CS61012-07-23-1998	15.47	10.83	8.43	6.34	4.72	2.87	1.34	1.03	700	150	59	15	25
flex-G-M120-CS61012-07-23-1998	17.52	11.65	9.02	6.93	5.08	2.91	1.14	1.24	700	101	95	10	29
flex-G-M120-CS61012-07-23-1998	21.38	14.92	11.85	9.57	7.56	4.96	2.48	1.16	700	93	77	11	14
flex-G-M120-CS61012-07-23-1998	19.21	12.87	9.69	7.48	5.94	3.98	2.09	1.81	700	95	55	19	17
flex-G-M120-CS61012-07-23-1998	20.79	14.88	11.54	8.54	6.42	3.62	1.42	1.45	700	112	54	8	23
flex-G-M120-CS61012-07-23-1998	21.54	14.37	10.79	7.76	5.71	3.35	1.46	1.73	700	89	46	11	22
flex-G-M120-CS61012-07-23-1998	20.20	14.17	10.98	8.07	6.06	3.66	1.57	1.74	700	110	52	10	21
flex-G-M120-CS61012-07-23-1998	19.21	12.99	9.96	7.95	6.14	3.98	2.05	1.50	700	97	65	15	17
flex-G-M120-CS61012-07-23-1998	16.38	11.30	9.06	7.36	5.79	4.02	2.13	1.18	700	120	90	19	17
flex-G-M120-CS61012-07-23-1998	32.72	23.27	17.52	12.20	8.46	4.17	1.38	1.58	700	76	22	5	20
flex-G-M120-CS61012-07-23-1998	29.72	22.72	19.69	16.46	13.31	8.90	3.82	0.59	700	88	104	3	11
flex-G-M120-CS61012-07-23-1998	21.69	16.14	12.95	10.55	8.35	5.43	2.68	1.26	700	119	64	9	13
flex-G-M120-CS61012-07-23-1998	19.25	12.52	9.29	7.01	5.39	3.54	1.93	1.30	700	97	39	22	18
flex-G-M120-CS61012-07-23-1998	22.72	16.30	12.80	9.65	7.28	4.45	2.13	0.88	700	116	36	10	16
flex-G-M120-CS61012-07-23-1998	22.72	14.57	11.06	8.07	5.91	3.35	1.73	1.42	700	89	31	14	20
flex-G-M120-CS61012-07-23-1998	17.48	12.09	9.72	7.95	6.26	4.02	1.85	1.11	700	103	139	10	20
flex-G-M120-CS61012-07-23-1998	16.14	11.38	9.13	7.52	5.91	3.82	1.81	1.23	700	121	129	12	20

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-M120-CS61012-07-23-1998	14.88	9.96	7.56	6.02	4.65	2.99	1.42	1.95	700	111	112	16	24
flex-G-M120-CS61012-07-23-1998	17.76	12.48	9.65	7.40	5.59	3.31	1.50	1.21	700	127	62	12	23
flex-G-M120-CS61012-07-23-1998	16.77	11.50	9.21	7.52	6.06	4.02	1.85	1.56	700	97	180	11	19
flex-G-M120-CS61012-07-23-1998	19.37	13.58	10.63	8.03	5.83	3.31	1.54	1.03	700	140	38	12	22
flex-G-M120-CS61012-07-23-1998	24.29	16.73	12.44	8.11	5.31	2.24	0.67	1.19	700	105	23	7	37
flex-G-M120-CS61012-07-23-1998	17.83	12.17	9.76	7.44	5.51	3.19	1.26	0.66	700	114	86	9	27
flex-G-M120-CS61012-07-23-1998	16.26	9.96	7.68	6.22	4.84	3.11	1.42	1.68	700	76	205	14	25
flex-G-M120-CS61012-07-23-1998	14.13	10.16	8.43	6.73	5.24	3.54	1.93	0.75	700	195	69	22	19
flex-G-M120-CS61012-07-23-1998	24.33	18.27	14.61	12.09	9.80	6.77	3.94	1.44	700	120	36	15	9
flex-G-M120-CS61012-07-23-1998	26.38	20.94	17.95	15.98	13.66	10.75	6.89	1.06	700	120	63	17	5
flex-G-M120-CS61012-07-23-1998	14.21	9.53	7.48	6.14	4.84	3.11	1.69	1.70	700	128	106	22	22
flex-G-M120-CS61012-07-23-1998	19.80	14.84	12.01	9.45	7.28	4.53	2.05	0.90	700	149	58	9	17
flex-G-M120-CS61012-07-23-1998	18.35	13.27	10.55	8.27	6.50	4.21	2.24	0.88	700	145	46	16	16
flex-G-M120-CS61012-07-23-1998	23.46	15.47	11.34	7.80	5.24	2.60	1.02	1.12	700	89	29	9	29
flex-G-M120-CS61012-07-23-1998	22.17	16.42	12.91	10.28	8.15	5.43	2.80	1.51	700	116	46	12	13
flex-G-M120-CS61012-07-23-1998	18.58	13.07	10.55	9.06	7.44	5.39	3.15	1.39	700	103	96	21	12
flex-G-M120-CS61012-07-23-1998	23.03	14.57	10.43	7.36	5.24	2.76	1.14	1.68	700	72	43	10	27
flex-G-M120-CS61012-07-23-1998	30.63	21.54	16.89	13.31	10.31	6.18	2.32	1.76	700	60	73	4	15
flex-G-M120-CS61012-07-23-1998	19.21	14.02	11.42	9.21	6.89	3.90	1.54	1.43	700	143	71	7	22
flex-G-M120-CS61012-07-23-1998	16.50	11.38	8.86	6.93	5.55	3.82	2.05	1.40	700	123	63	22	17
flex-G-M120-CS61012-07-23-1998	26.30	18.27	14.21	10.31	7.36	3.82	1.69	1.10	700	106	22	8	19
flex-G-M120-CS61012-07-23-1998	15.59	10.94	8.39	6.50	5.16	3.50	1.85	1.74	700	139	58	22	19
flex-G-M120-CS61012-07-23-1998	12.95	8.86	6.81	5.08	3.78	2.24	1.10	0.84	700	177	61	21	31

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-M120-CS61012-07-23-1998	15.47	10.83	8.43	6.34	4.72	2.87	1.34	1.03	700	150	59	15	25
flex-G-M120-CS61012-07-23-1998	17.52	11.65	9.02	6.93	5.08	2.91	1.14	1.24	700	101	95	10	29
flex-G-M120-CS61012-07-23-1998	21.38	14.92	11.85	9.57	7.56	4.96	2.48	1.16	700	93	77	11	14
flex-G-M120-CS61012-07-23-1998	19.21	12.87	9.69	7.48	5.94	3.98	2.09	1.81	700	95	55	19	17
flex-G-M120-CS61012-07-23-1998	20.79	14.88	11.54	8.54	6.42	3.62	1.42	1.45	700	112	54	8	23
flex-G-M120-CS61012-07-23-1998	21.54	14.37	10.79	7.76	5.71	3.35	1.46	1.73	700	89	46	11	22
flex-G-M120-CS61012-07-23-1998	20.20	14.17	10.98	8.07	6.06	3.66	1.57	1.74	700	110	52	10	21
flex-G-M120-CS61012-07-23-1998	19.21	12.99	9.96	7.95	6.14	3.98	2.05	1.50	700	97	65	15	17
flex-G-M120-CS61012-07-23-1998	16.38	11.30	9.06	7.36	5.79	4.02	2.13	1.18	700	120	90	19	17
flex-G-M120-CS61012-07-23-1998	32.72	23.27	17.52	12.20	8.46	4.17	1.38	1.58	700	76	22	5	20
flex-G-M120-CS61012-07-23-1998	29.72	22.72	19.69	16.46	13.31	8.90	3.82	0.59	700	88	104	3	11
flex-G-M120-CS61012-07-23-1998	21.69	16.14	12.95	10.55	8.35	5.43	2.68	1.26	700	119	64	9	13
flex-G-M120-CS61012-07-23-1998	19.25	12.52	9.29	7.01	5.39	3.54	1.93	1.30	700	97	39	22	18
flex-G-M120-CS61012-07-23-1998	22.72	16.30	12.80	9.65	7.28	4.45	2.13	0.88	700	116	36	10	16
flex-G-M120-CS61012-07-23-1998	22.72	14.57	11.06	8.07	5.91	3.35	1.73	1.42	700	89	31	14	20
flex-G-M120-CS61012-07-23-1998	17.48	12.09	9.72	7.95	6.26	4.02	1.85	1.11	700	103	139	10	20
flex-G-M120-CS61012-07-23-1998	16.14	11.38	9.13	7.52	5.91	3.82	1.81	1.23	700	121	129	12	20
flex-G-M120-CS61012-07-23-1998	14.88	9.96	7.56	6.02	4.65	2.99	1.42	1.95	700	111	112	16	24
flex-G-M120-CS61012-07-23-1998	17.76	12.48	9.65	7.40	5.59	3.31	1.50	1.21	700	127	62	12	23
flex-G-M120-CS61012-07-23-1998	16.77	11.50	9.21	7.52	6.06	4.02	1.85	1.56	700	97	180	11	19
flex-G-M120-CS61012-07-23-1998	19.37	13.58	10.63	8.03	5.83	3.31	1.54	1.03	700	140	38	12	22
flex-G-M120-CS61012-07-23-1998	24.29	16.73	12.44	8.11	5.31	2.24	0.67	1.19	700	105	23	7	37
flex-G-M120-CS61012-07-23-1998	17.83	12.17	9.76	7.44	5.51	3.19	1.26	0.66	700	114	86	9	27

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-M120-CS61012-07-23-1998	16.26	9.96	7.68	6.22	4.84	3.11	1.42	1.68	700	76	205	14	25
flex-G-M120-CS61012-07-23-1998	14.13	10.16	8.43	6.73	5.24	3.54	1.93	0.75	700	195	69	22	19
flex-G-M120-CS61012-07-23-1998	24.33	18.27	14.61	12.09	9.80	6.77	3.94	1.44	700	120	36	15	9
flex-G-M120-CS61012-07-23-1998	26.38	20.94	17.95	15.98	13.66	10.75	6.89	1.06	700	120	63	17	5
flex-G-US131-CS54014-05-13-1998	8.19	6.61	5.47	4.21	3.19	2.20	1.38	1.90	700	612	5	466	26
flex-G-US131-CS54014-05-13-1998	8.19	6.61	5.63	4.41	3.50	2.44	1.61	1.02	700	684	5	500	21
flex-G-US131-CS54014-05-13-1998	7.99	6.30	5.12	3.70	2.68	1.73	0.98	1.66	700	537	5	276	35
flex-G-US131-CS54014-05-13-1998	9.09	6.65	5.35	3.86	2.83	1.81	1.18	1.47	700	407	5	500	30
flex-G-US131-CS54014-05-13-1998	6.57	5.31	4.53	3.54	2.64	1.73	1.02	1.54	700	928	5	500	35
flex-G-US131-CS54014-05-13-1998	7.76	5.79	4.61	3.62	2.76	1.93	1.26	1.29	700	526	8	371	29
flex-G-US131-CS54014-05-13-1998	11.02	8.31	6.93	5.20	3.74	2.05	0.71	0.89	700	312	103	12	43
flex-G-US131-CS54014-05-13-1998	7.05	5.28	4.49	3.74	2.91	2.09	1.18	1.35	700	430	180	48	31
flex-G-US131-CS54014-05-13-1998	8.86	6.73	5.63	4.53	3.50	2.40	1.26	1.02	700	369	122	31	28
flex-G-M20-CS54041-04-09-2002	13.77	10.21	7.86	5.41	4.05	2.53	1.50	1.02	700	360	11	58	24
flex-G-M20-CS54041-04-09-2002	20.23	14.88	12.01	8.77	6.72	4.14	2.04	0.70	700	182	40	13	17
flex-G-M20-CS54041-04-09-2002	23.10	17.40	13.81	9.97	7.52	4.42	2.00	1.20	700	168	35	10	17
flex-G-M20-CS54041-04-09-2002	21.60	16.15	12.58	8.98	6.76	4.10	1.92	1.68	700	173	34	12	18
flex-G-M20-CS54041-04-09-2002	19.42	14.37	10.92	7.48	5.58	3.35	1.67	1.84	700	193	25	16	20
flex-G-M20-CS54041-04-09-2002	9.39	7.10	5.58	3.90	2.92	1.74	1.01	1.04	700	614	14	77	36
flex-G-M20-CS54041-04-09-2002	12.48	9.67	7.79	5.68	4.21	2.33	0.95	0.81	700	391	59	14	35
flex-G-M20-CS54041-04-09-2002	14.70	10.83	8.53	6.17	4.79	3.05	1.56	1.31	700	241	47	21	22
flex-G-M20-CS54041-04-09-2002	10.67	9.06	7.23	5.50	4.20	2.44	0.98	1.94	700	664	56	14	34
flex-G-M20-CS54041-04-09-2002	13.42	10.38	8.57	6.35	4.54	2.57	1.02	1.01	700	396	52	12	32

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-M37-CS62032-05-18-2000	13.78	10.75	8.74	6.34	4.65	2.91	1.57	1.54	700	277	9	79	22
flex-G-M37-CS62032-05-18-2000	17.17	13.19	10.47	7.64	5.43	3.23	1.73	1.20	700	216	6	87	20
flex-G-M37-CS62032-05-18-2000	11.34	9.21	7.72	6.18	4.69	3.07	1.85	1.52	700	458	7	308	19
flex-G-M37-CS62032-05-18-2000	8.90	7.20	6.34	5.59	4.65	3.58	2.09	1.11	700	436	133	18	19
flex-G-M37-CS62032-05-18-2000	11.65	8.50	6.73	4.76	3.50	2.24	1.26	1.24	700	256	16	67	28
flex-G-M37-CS62032-05-18-2000	9.21	6.77	5.28	3.70	2.60	1.69	0.98	1.94	700	319	15	166	36
flex-G-M37-CS62032-05-18-2000	9.06	6.81	5.28	3.86	2.80	1.89	1.14	1.80	700	345	16	216	31
flex-G-M37-CS62032-05-18-2000	15.98	12.60	10.51	7.87	5.98	3.90	1.85	1.80	700	237	19	15	19
flex-G-M37-CS62032-05-18-2000	9.33	7.95	7.05	6.46	5.43	4.02	2.17	1.38	700	597	140	5	22
flex-G-M37-CS62032-05-18-2000	20.31	16.34	13.46	10.00	7.28	4.37	2.20	1.38	700	218	4	100	16
flex-G-M37-CS62032-05-18-2000	17.24	13.94	11.61	8.94	6.77	4.41	2.52	1.00	700	272	5	178	14
flex-G-US131-CS54013-08-18-1994	8.57	6.34	5.18	3.93	2.97	1.68	0.61	0.79	700	318	190	15	55
flex-G-US131-CS54013-08-18-1994	10.33	7.73	6.17	4.76	3.78	2.51	1.29	1.37	700	278	83	28	27
flex-G-US131-CS54013-08-18-1994	9.36	6.96	5.69	4.46	3.53	2.28	1.08	1.02	700	281	166	22	33
flex-G-US131-CS54013-08-18-1994	11.17	8.64	7.00	5.50	4.38	2.77	1.20	1.62	700	256	154	14	29
flex-G-US131-CS54013-08-18-1994	10.45	7.64	6.14	4.68	3.60	2.24	0.96	1.62	700	230	154	18	35
flex-G-US131-CS54013-08-18-1994	10.30	8.07	6.79	5.14	4.04	2.48	0.97	1.61	700	335	140	13	35
flex-G-US131-CS54013-08-18-1994	11.27	8.40	6.85	5.29	4.07	2.46	0.88	1.70	700	215	212	10	39
flex-G-US131-CS54013-08-18-1994	11.59	8.37	6.55	4.83	3.73	2.24	0.97	1.91	700	199	111	18	34
flex-G-US131-CS54013-08-18-1994	10.37	7.69	6.34	4.82	3.84	2.50	1.16	1.60	700	251	144	20	30
flex-G-US131-CS54013-08-18-1994	10.52	7.71	6.31	4.88	3.90	2.51	1.24	0.81	700	245	127	23	28
flex-G-US131-CS54013-08-18-1994	9.47	6.56	5.21	4.02	3.15	2.03	1.08	0.62	700	232	113	34	33
flex-G-US131-CS54013-08-18-1994	9.59	7.01	5.61	4.32	3.22	2.13	1.03	1.79	700	285	93	27	33

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-US131-CS54013-08-18-1994	10.71	7.90	6.32	4.76	3.74	2.38	1.11	1.69	700	244	116	21	32
flex-G-US131-CS54013-08-18-1994	9.91	7.60	6.21	4.50	3.56	2.22	1.08	1.79	700	351	56	25	31
flex-G-US131-CS54013-08-18-1994	9.57	6.99	5.57	4.27	3.40	2.20	1.10	1.39	700	254	119	27	31
flex-G-US131-CS54013-08-18-1994	9.68	6.70	5.34	4.03	3.05	1.92	0.96	0.50	700	239	100	30	36
flex-G-US131-CS54013-08-18-1994	10.93	8.20	6.65	5.03	3.99	2.47	1.17	1.18	700	268	96	20	29
flex-G-US131-CS54013-08-18-1994	9.53	6.77	5.35	4.01	3.11	1.95	0.98	0.89	700	255	94	30	35
flex-G-US131-CS54013-08-18-1994	10.36	8.00	6.44	4.97	3.90	2.50	1.19	1.50	700	308	92	21	29
flex-G-US131-CS54013-08-18-1994	10.69	8.06	6.47	5.04	3.98	2.59	1.29	1.25	700	270	96	23	27
flex-G-US131-CS54013-08-18-1994-(2)	9.99	7.57	5.97	4.88	4.01	2.67	1.55	1.88	700	295	79	38	24
flex-G-US131-CS54013-08-18-1994-(2)	9.62	7.27	5.80	4.54	3.56	2.48	1.30	1.79	700	313	82	36	28
flex-G-US131-CS54013-08-18-1994-(2)	10.60	7.54	6.10	4.75	3.79	2.35	1.29	1.41	700	238	91	30	28
flex-G-US131-CS54013-08-18-1994-(2)	9.47	7.39	5.81	4.56	3.36	2.35	1.42	1.82	700	433	6	220	26
flex-G-US131-CS54013-08-18-1994-(2)	9.02	6.75	5.13	4.07	3.16	2.03	1.10	2.00	700	312	64	37	32
flex-G-US131-CS54013-08-18-1994-(2)	9.35	7.09	5.57	4.01	3.16	2.11	1.16	1.97	700	355	18	56	30
flex-G-US131-CS54013-08-18-1994-(2)	10.49	7.66	6.07	4.52	3.47	2.20	1.07	1.44	700	250	83	25	32
flex-G-US131-CS54013-08-18-1994-(3)	8.35	6.18	5.05	3.84	2.90	1.64	0.59	0.81	700	315	188	15	55
flex-G-US131-CS54013-08-18-1994-(3)	9.19	6.84	5.59	4.38	3.47	2.24	1.06	1.06	700	278	165	22	33
flex-G-US131-CS54013-08-18-1994-(3)	11.02	8.52	6.90	5.43	4.32	2.73	1.19	1.63	700	253	154	14	29
flex-G-US131-CS54013-08-18-1994-(3)	10.28	7.52	6.03	4.60	3.54	2.20	0.94	1.66	700	227	154	18	35
flex-G-US131-CS54013-08-18-1994-(3)	10.13	7.94	6.69	5.06	3.98	2.45	0.96	1.65	700	331	138	13	35
flex-G-US131-CS54013-08-18-1994-(3)	11.07	8.25	6.73	5.20	4.00	2.42	0.87	1.67	700	214	213	10	39
flex-G-US131-CS54013-08-18-1994-(3)	11.44	8.26	6.46	4.77	3.69	2.22	0.96	1.94	700	197	111	18	34
flex-G-US131-CS54013-08-18-1994-(3)	10.24	7.60	6.26	4.76	3.79	2.47	1.15	1.58	700	249	142	20	30

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-US131-CS54013-08-18-1994-(3)	10.39	7.62	6.24	4.82	3.85	2.48	1.23	0.83	700	242	125	23	28
flex-G-US131-CS54013-08-18-1994-(3)	9.46	6.92	5.54	4.26	3.18	2.10	1.01	1.79	700	282	89	27	33
flex-G-US131-CS54013-08-18-1994-(3)	10.33	7.62	6.10	4.59	3.61	2.30	1.07	1.73	700	240	115	21	32
flex-G-US131-CS54013-08-18-1994-(3)	9.62	7.02	5.60	4.29	3.42	2.21	1.11	1.37	700	252	115	27	31
flex-G-US131-CS54013-08-18-1994-(3)	9.48	6.57	5.23	3.95	2.99	1.88	0.94	0.56	700	236	98	30	36
flex-G-US131-CS54013-08-18-1994-(3)	10.77	8.09	6.56	4.96	3.93	2.43	1.15	1.18	700	266	92	20	29
flex-G-US131-CS54013-08-18-1994-(3)	10.29	7.95	6.40	4.94	3.88	2.49	1.18	1.51	700	304	88	21	29
flex-G-US131-CS54013-08-18-1994-(3)	10.58	7.98	6.41	4.99	3.94	2.56	1.28	1.22	700	268	90	24	27
flex-G-US131-CS54013-08-18-1994-(4)	9.73	7.37	5.81	4.75	3.90	2.60	1.51	1.86	700	295	80	38	24
flex-G-US131-CS54013-08-18-1994-(4)	9.17	6.93	5.53	4.33	3.39	2.37	1.24	1.81	700	312	82	36	28
flex-G-US131-CS54013-08-18-1994-(4)	9.23	7.21	5.66	4.44	3.28	2.29	1.39	1.82	700	434	6	220	26
flex-G-US131-CS54013-08-18-1994-(4)	9.15	6.94	5.45	3.92	3.09	2.06	1.13	1.99	700	354	19	55	31
flex-G-US131-CS54013-08-18-1994-(4)	10.37	7.57	6.01	4.47	3.43	2.18	1.06	1.47	700	249	85	25	32
flex-G-US131-CS54013-08-18-1994-(5)	9.99	7.57	5.97	4.88	4.01	2.67	1.55	1.88	700	296	75	38	24
flex-G-US131-CS54013-08-18-1994-(5)	9.62	7.27	5.80	4.54	3.56	2.48	1.30	1.78	700	312	78	35	28
flex-G-US131-CS54013-08-18-1994-(5)	9.02	6.75	5.13	4.07	3.16	2.03	1.10	1.99	700	313	62	37	32
flex-G-US131-CS54013-08-18-1994-(5)	9.35	7.09	5.57	4.01	3.16	2.11	1.16	1.99	700	353	21	54	30
flex-G-US131-CS54013-08-18-1994-(5)	10.49	7.66	6.07	4.52	3.47	2.20	1.07	1.40	700	251	76	25	32
flex-G-US131-CS59012-06-25-1998	8.66	6.65	5.55	4.49	3.46	2.24	1.38	1.62	700	534	5	239	26
flex-G-US131-CS59012-06-25-1998	8.90	6.77	5.59	4.49	3.43	2.20	1.30	1.35	700	493	5	169	28
flex-G-US131-CS59012-06-25-1998	9.09	6.85	5.87	4.25	3.35	2.20	1.30	1.24	700	428	6	145	28
flex-G-M57-CS41122-8-23-1994	10.52	8.18	6.45	4.55	3.41	2.02	0.97	0.91	700	1,863	77	23	35
flex-G-M57-CS41122-8-23-1994	12.23	9.66	7.74	5.64	4.38	2.83	1.41	1.27	700	1,511	80	20	25

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-M57-CS41122-8-23-1994	11.51	9.30	7.40	5.31	4.05	2.51	1.24	1.32	700	2,096	66	21	28
flex-G-M57-CS41122-8-23-1994	11.53	8.38	6.46	4.72	3.59	2.19	1.00	1.23	700	643	112	20	34
flex-G-M57-CS41122-8-23-1994	9.80	6.78	5.11	3.63	2.69	1.67	0.91	0.61	700	976	83	36	38
flex-G-M57-CS41122-8-23-1994	9.19	6.92	5.30	3.64	2.70	1.62	0.83	0.91	700	1,901	76	33	42
flex-G-M57-CS41122-8-23-1994	11.30	8.74	6.93	4.99	3.80	2.43	1.20	1.19	700	1,488	82	23	29
flex-G-M57-CS41122-8-23-1994	12.53	9.82	7.87	5.71	4.35	2.65	1.18	1.19	700	1,264	91	15	29
flex-G-M57-CS41122-8-23-1994	9.72	7.07	5.38	3.70	2.78	1.69	0.88	0.76	700	1,348	79	33	39
flex-G-M57-CS41122-8-23-1994	18.94	11.62	7.71	4.71	3.40	2.14	1.28	1.43	700	441	25	34	28
flex-G-M57-CS41122-8-23-1994	11.56	8.91	7.18	5.30	4.10	2.59	1.32	0.37	700	1,464	87	22	27
flex-G-M57-CS41122-8-23-1994	12.20	9.23	7.18	5.20	3.92	2.37	1.03	1.46	700	898	101	16	33
flex-G-M57-CS29021-5-23-1995	13.39	9.78	7.20	4.81	3.49	2.09	1.06	1.17	700	1,062	52	26	34
flex-G-M57-CS29021-5-23-1995	13.83	10.38	8.02	5.64	4.21	2.59	1.23	1.29	700	977	71	19	29
flex-G-M57-CS29021-5-23-1995	13.92	10.41	7.98	5.52	4.11	2.48	1.24	0.93	700	1,123	60	21	29
flex-G-M57-CS29021-5-23-1995	14.17	10.47	7.87	5.39	3.95	2.24	0.94	1.80	700	778	77	16	36
flex-G-M57-CS29021-5-23-1995	13.84	9.88	7.26	4.95	3.56	2.08	0.92	1.86	700	661	75	19	37
flex-G-M57-CS29021-5-23-1995	13.64	9.95	7.48	5.18	3.86	2.41	1.21	1.20	700	888	64	24	30
flex-G-M57-CS29021-5-23-1995	10.43	7.99	6.19	4.25	2.96	1.55	0.68	0.40	700	2,313	63	22	49
flex-G-M57-CS29021-5-23-1995	12.00	8.93	6.80	4.77	3.55	2.31	1.22	1.12	700	1,308	63	31	30
flex-G-M57-CS29021-5-23-1995	10.80	8.28	6.24	4.31	3.13	1.85	0.91	1.20	700	1,750	66	27	39
flex-G-M57-CS29021-5-23-1995	8.86	6.72	5.39	4.01	3.04	1.83	0.88	0.30	700	1,709	135	26	42
flex-G-M57-CS29021-5-23-1995	8.94	7.20	5.94	4.57	3.67	2.31	1.14	0.72	700	2,330	154	22	34
flex-G-M57-CS29021-5-23-1995	10.92	8.60	6.94	5.03	3.82	2.29	1.06	0.70	700	1,960	93	19	34
flex-G-M57-CS29021-5-23-1995	9.42	7.72	6.53	5.10	3.97	2.46	1.14	1.07	700	3,000	142	17	33

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-M57-CS29021-5-23-1995	10.10	7.76	6.25	4.40	3.22	1.83	0.78	0.80	700	1,914	99	19	44
flex-G-M57-CS29021-5-23-1995	12.90	10.49	8.60	6.51	5.02	2.95	1.31	0.61	700	2,226	84	13	28
flex-G-M57-CS29021-5-23-1995	12.26	9.02	6.97	5.07	3.86	2.40	1.16	1.01	700	752	98	21	31
flex-G-M57-CS29021-5-23-1995	13.72	9.27	6.55	4.48	3.32	2.14	1.12	1.41	700	587	57	32	32
flex-G-M57-CS29021-5-23-1995	13.86	9.31	6.58	4.40	3.27	2.03	1.01	1.85	700	502	63	28	35
flex-G-M57-CS29021-5-23-1995	13.61	9.15	6.51	4.36	3.22	1.92	0.91	1.89	700	473	72	25	38
flex-G-M57-CS29021-5-23-1995	13.16	8.87	6.36	4.28	3.15	1.94	0.97	1.42	700	568	67	28	37
flex-G-M57-CS29021-5-23-1995	13.92	9.01	6.33	4.31	3.24	2.04	1.02	1.91	700	380	68	30	35
flex-G-M57-CS29021-5-23-1995	14.20	9.66	6.90	4.66	3.59	2.32	1.20	1.89	700	534	59	30	30
flex-G-M57-CS29021-5-23-1995	14.32	9.75	6.81	4.55	3.40	2.17	1.17	1.39	700	634	49	32	31
flex-G-M57-CS29021-5-23-1995	14.43	10.08	7.22	4.94	3.72	2.32	1.17	1.78	700	578	62	25	31
flex-G-M57-CS29021-5-23-1995	14.24	9.62	6.81	4.74	3.65	2.40	1.25	1.97	700	453	64	31	29
flex-G-M57-CS29021-5-23-1995	13.96	9.87	7.30	5.12	3.81	2.27	1.00	1.99	700	514	86	19	35
flex-G-M57-CS29021-5-23-1995	12.95	8.77	6.27	4.26	3.15	1.92	0.92	1.83	700	503	76	26	38
flex-G-M57-CS29021-5-23-1995	12.55	9.17	6.97	4.87	3.56	2.11	1.10	0.46	700	1,259	60	26	33
flex-G-M57-CS29021-5-23-1995	11.83	9.21	7.30	5.21	3.92	2.33	1.13	0.72	700	1,802	73	21	32
flex-G-M57-CS29021-5-23-1995	12.91	10.43	8.42	6.05	4.53	2.80	1.34	1.30	700	2,067	63	18	27
flex-G-M57-CS29021-5-23-1995	13.57	10.36	8.17	5.95	4.56	2.79	1.32	0.84	700	1,045	85	17	27
flex-G-M57-CS29021-5-23-1995	12.72	9.42	7.38	5.32	4.06	2.55	1.28	0.64	700	977	84	23	29
flex-G-M57-CS29021-5-23-1995	11.11	8.27	6.48	4.63	3.47	2.12	1.08	0.28	700	1,408	82	26	34
flex-G-M57-CS29021-5-23-1995	11.72	9.05	7.27	5.34	4.07	2.52	1.27	0.27	700	1,691	82	22	29
flex-G-M57-CS29021-5-23-1995	10.98	8.55	6.95	5.09	3.86	2.36	1.18	0.19	700	2,148	81	23	31
flex-G-M57-CS29021-5-23-1995	9.30	7.19	5.83	4.34	3.31	1.99	0.99	0.48	700	2,223	109	25	37

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-M57-CS29021-5-23-1995	9.35	7.10	5.47	3.83	2.88	1.79	0.92	0.92	700	1,907	82	34	39
flex-G-M57-CS29021-5-23-1995	11.89	8.34	6.24	4.21	3.12	1.90	1.02	0.50	700	1,051	61	32	36
flex-G-M57-CS29021-5-23-1995	12.16	9.06	7.09	5.06	3.81	2.27	1.08	0.55	700	1,095	87	20	33
flex-G-M57-CS29021-5-23-1995	11.85	9.19	7.40	5.35	3.97	2.23	1.04	0.61	700	2,162	68	19	34
flex-G-M57-CS29021-5-23-1995	10.98	8.24	6.40	4.48	3.29	1.97	0.99	0.37	700	1,674	70	27	36
flex-G-M57-CS29021-5-23-1995	13.15	10.33	8.26	5.97	4.45	2.55	1.04	0.88	700	1,396	89	13	34
flex-G-M57-CS29021-5-23-1995	13.47	10.54	8.33	6.01	4.53	2.66	1.11	1.32	700	1,070	95	13	32
flex-G-M57-CS29021-5-23-1995	14.09	11.19	9.03	6.70	5.18	3.15	1.34	1.19	700	1,111	101	12	27
flex-G-M57-CS29021-5-23-1995	14.39	11.37	9.25	6.85	5.30	3.16	1.40	0.66	700	1,282	88	12	26
flex-G-M57-CS29021-5-23-1995	14.30	11.09	8.89	6.48	5.00	2.99	1.29	1.13	700	975	95	13	28
flex-G-M57-CS29021-5-23-1995	13.49	10.58	8.45	6.22	4.74	2.84	1.24	0.95	700	1,215	93	14	29
flex-G-M57-CS29021-5-23-1995	13.17	10.53	8.60	6.32	4.79	2.78	1.18	0.56	700	1,781	85	13	30
flex-G-M57-CS29021-5-23-1995	12.12	9.57	7.35	5.21	3.79	2.23	1.05	1.24	700	1,797	63	21	33
flex-G-M57-CS29021-5-23-1995	11.86	9.33	7.39	5.37	3.97	2.21	0.94	0.62	700	1,886	82	16	37
flex-G-M57-CS29021-5-23-1995	12.26	9.86	8.02	5.85	4.33	2.25	0.85	0.74	700	2,753	67	12	39
flex-G-M57-CS29021-5-23-1995	13.06	10.14	8.15	5.81	4.30	2.30	0.91	0.55	700	1,648	78	13	37
flex-G-M57-CS59021-08-23-1994	10.52	8.18	6.45	4.55	3.41	2.02	0.97	0.91	700	1,858	78	23	35
flex-G-M57-CS59021-08-23-1994	12.23	9.66	7.74	5.64	4.38	2.83	1.41	1.27	700	1,509	80	20	25
flex-G-M57-CS59021-08-23-1994	11.51	9.30	7.40	5.31	4.05	2.51	1.24	1.33	700	2,092	67	21	28
flex-G-M57-CS59021-08-23-1994	9.67	7.70	5.91	3.94	2.87	1.81	1.09	1.34	700	3,211	17	92	32
flex-G-M57-CS59021-08-23-1994	9.57	7.63	5.87	4.02	2.98	1.86	1.11	1.19	700	3,283	21	69	32
flex-G-M57-CS59021-08-23-1994	11.53	8.38	6.46	4.72	3.59	2.19	1.00	1.24	700	644	112	20	34
flex-G-M57-CS59021-08-23-1994	9.79	6.72	5.08	3.60	2.69	1.68	0.92	0.57	700	897	86	37	38

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-M57-CS59021-08-23-1994	10.99	8.06	6.03	4.29	3.32	2.35	1.50	0.92	700	1,758	30	78	24
flex-G-M57-CS59021-08-23-1994	10.04	6.90	5.11	3.57	2.69	1.77	1.12	1.83	700	1,431	45	62	33
flex-G-M57-CS59021-08-23-1994-(2)	10.21	7.93	6.26	4.41	3.30	1.96	0.94	0.92	700	1,857	78	22	35
flex-G-M57-CS59021-08-23-1994-(2)	11.84	9.35	7.49	5.46	4.24	2.73	1.36	1.24	700	1,519	79	20	25
flex-G-M57-CS59021-08-23-1994-(2)	11.12	8.99	7.16	5.13	3.92	2.43	1.20	1.34	700	2,096	66	21	28
flex-G-M57-CS59021-08-23-1994-(2)	9.50	7.56	5.81	3.87	2.82	1.78	1.07	1.35	700	3,203	17	90	32
flex-G-M57-CS59021-08-23-1994-(2)	9.71	7.97	6.32	4.59	3.50	2.36	1.46	0.95	700	3,814	18	98	24
flex-G-M57-CS59021-08-23-1994-(2)	11.33	8.23	6.35	4.64	3.53	2.15	0.98	1.25	700	575	116	19	34
flex-G-M57-CS59021-08-23-1994-(2)	9.68	6.65	5.02	3.56	2.66	1.66	0.91	0.54	700	892	86	37	38
flex-G-M57-CS59021-08-23-1994-(3)	9.00	6.86	5.23	3.54	2.62	1.58	0.79	1.34	700	2,021	74	33	44
flex-G-M57-CS59021-08-23-1994-(3)	9.55	7.10	5.44	3.79	2.84	1.73	0.88	0.78	700	1,550	84	31	40
flex-G-M57-CS59021-08-23-1994-(3)	10.17	7.00	5.22	3.55	2.71	1.73	0.94	0.70	700	937	73	40	37
flex-G-M57-CS59021-08-23-1994-(3)	10.31	8.31	6.79	5.11	4.03	2.68	1.44	0.68	700	2,374	84	28	25
flex-G-M57-CS59021-08-23-1994-(3)	10.52	8.31	6.74	4.88	3.66	2.16	1.02	0.39	700	2,361	77	20	34
flex-G-M57-CS59021-08-23-1994-(3)	14.05	10.90	8.74	6.46	4.97	3.06	1.27	1.55	700	753	107	11	27
flex-G-M57-CS59021-08-23-1994-(3)	9.80	6.98	5.21	3.55	2.66	1.66	0.86	0.94	700	1,105	79	35	40
flex-G-M57-CS59021-08-23-1994-(3)	9.57	7.24	5.69	4.00	2.97	1.77	0.91	0.38	700	2,022	73	29	38
flex-G-M57-CS59021-08-23-1994-(3)	11.95	8.28	5.82	4.10	3.20	2.26	1.32	1.38	700	818	49	52	27
flex-G-M57-CS59021-08-23-1994-(3)	10.15	8.04	6.17	4.67	3.77	2.47	1.50	1.90	700	2,160	61	43	24
flex-G-M57-CS59021-08-23-1994-(3)	10.71	8.42	6.76	5.13	3.87	2.33	1.13	0.62	700	2,014	92	20	31
flex-G-M57-CS59021-08-23-1994-(3)	9.82	7.83	6.26	4.57	3.44	2.14	1.08	0.77	700	2,500	77	26	33
flex-G-M57-CS59021-08-23-1994-(3)	10.44	8.01	6.18	4.23	3.10	1.82	0.91	0.92	700	1,918	60	27	37
flex-G-M57-CS59021-08-23-1994-(3)	10.59	7.58	5.78	3.86	2.77	1.60	0.84	0.57	700	1,536	56	31	41

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-G-M57-CS59021-08-23-1994-(3)	13.15	10.08	7.90	5.75	4.34	2.56	1.02	1.60	700	827	105	12	33
flex-G-M57-CS59021-08-23-1994-(3)	10.39	7.55	5.73	4.11	3.10	1.97	1.06	0.56	700	1,136	80	33	33
flex-G-M57-CS59021-08-23-1994-(3)	11.26	8.90	7.05	5.21	4.01	2.68	1.49	0.79	700	2,025	57	31	24
flex-G-M57-CS59021-08-23-1994-(3)	11.89	8.95	6.91	5.03	3.91	2.56	1.41	0.72	700	1,226	66	30	25
flex-G-M57-CS59021-08-23-1994-(4)	8.61	6.57	5.01	3.39	2.51	1.51	0.76	1.27	700	2,039	72	34	44
flex-G-M57-CS59021-08-23-1994-(4)	9.13	6.78	5.20	3.62	2.71	1.65	0.84	0.76	700	1,557	84	31	40
flex-G-M57-CS59021-08-23-1994-(4)	9.96	6.85	5.11	3.48	2.65	1.69	0.92	0.67	700	941	73	40	37
flex-G-M57-CS59021-08-23-1994-(4)	10.21	8.06	6.54	4.74	3.55	2.10	0.99	0.37	700	2,384	76	20	34
flex-G-M57-CS59021-08-23-1994-(4)	13.73	10.65	8.54	6.31	4.85	2.99	1.24	1.53	700	755	106	11	27
flex-G-M57-CS59021-08-23-1994-(4)	9.56	6.80	5.08	3.46	2.60	1.61	0.84	0.90	700	1,110	79	35	40
flex-G-M57-CS59021-08-23-1994-(4)	9.32	7.08	5.70	4.09	2.96	1.84	1.12	1.14	700	3,852	18	90	31
flex-G-M57-CS59021-08-23-1994-(4)	10.46	8.27	6.65	4.74	3.72	2.59	1.67	1.23	700	3,122	19	100	21
flex-G-M57-CS59021-08-23-1994-(4)	8.07	5.95	4.63	3.19	2.44	1.62	1.05	3.66	700	3,121	28	100	34
flex-G-M57-CS59021-08-23-1994-(4)	8.68	6.15	4.49	3.15	2.39	1.50	0.92	2.03	700	1,638	58	57	39
flex-G-M57-CS59021-08-23-1994-(4)	10.86	7.63	5.75	3.90	2.99	1.95	1.26	1.97	700	1,712	30	69	28
flex-G-M57-CS59021-08-23-1994-(4)	10.32	8.11	6.52	4.94	3.73	2.25	1.09	0.63	700	2,011	92	20	31
flex-G-M57-CS59021-08-23-1994-(4)	9.15	7.57	6.20	4.45	3.70	2.48	1.54	1.98	700	4,077	27	75	23
flex-G-M57-CS59021-08-23-1994-(4)	9.92	7.62	5.83	4.18	3.22	2.18	1.39	1.14	700	2,658	25	87	25
flex-G-M57-CS59021-08-23-1994-(4)	12.75	9.77	7.66	5.58	4.21	2.48	0.99	1.57	700	830	105	12	33
flex-G-M57-CS59021-08-23-1994-(4)	10.17	7.39	5.61	4.02	3.04	1.93	1.04	0.54	700	1,139	79	33	33
flex-N-US23-CS1052-06-03-2008	12.92	9.73	8.03	6.19	4.75	2.91	1.27	0.79	200	729	88	18	18
flex-N-US23-CS1052-06-03-2008	9.51	6.71	5.35	3.95	2.99	1.88	0.93	1.20	200	888	81	41	25
flex-N-US23-CS71073-06-04-2008-(2)	6.30	5.02	4.21	3.22	2.38	1.23	0.33	0.55	300	1,339	96	14	83

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-Su-I75-CS49025-05-22-2008	8.44	6.01	5.27	4.27	3.39	2.16	0.97	1.87	150	344	107	32	20
flex-B-M57-CS29022-08-30-1994	15.96	11.73	8.85	5.98	4.28	2.40	1.13	1.40	700	276	33	18	30
flex-B-M57-CS29022-08-30-1994	14.90	11.13	8.48	5.84	4.16	2.37	1.11	1.39	700	310	36	18	30
flex-B-M57-CS29022-08-30-1994	20.56	14.02	9.79	5.82	4.09	2.65	1.67	1.56	700	196	7	78	22
flex-B-M57-CS29022-08-30-1994	16.23	11.37	8.18	5.14	3.72	2.25	1.27	1.70	700	248	16	36	28
flex-B-M57-CS29022-08-30-1994	19.26	13.06	9.03	5.52	3.77	2.08	1.16	1.59	700	189	14	26	30
flex-B-M57-CS29022-08-30-1994	16.84	11.09	7.84	4.65	3.10	1.89	1.19	0.81	700	271	9	93	33
flex-B-M57-CS29022-08-30-1994	11.13	7.77	5.83	3.90	2.91	1.86	1.13	0.94	700	407	21	68	32
flex-B-M57-CS29022-08-30-1994	13.29	9.15	6.72	4.42	3.20	2.05	1.26	0.78	700	336	15	71	29
flex-B-M57-CS29022-08-30-1994	17.44	11.77	8.16	4.92	3.38	2.01	1.21	1.38	700	227	11	50	30
flex-B-M57-CS29022-08-30-1994	13.80	10.60	8.34	6.52	5.38	4.29	3.13	0.94	700	448	12	259	11
flex-B-M57-CS29022-08-30-1994	10.70	7.69	5.81	3.89	2.80	1.74	1.09	0.77	700	534	12	134	34
flex-B-M57-CS29022-08-30-1994	11.64	8.32	6.16	4.39	3.41	2.45	1.67	1.32	700	425	14	201	22
flex-B-M57-CS29022-08-30-1994	16.66	12.33	9.63	6.93	5.21	2.99	1.28	1.33	700	216	60	12	26
flex-B-M57-CS29022-08-30-1994	11.78	8.26	6.20	4.21	3.08	2.03	1.25	0.41	700	407	16	83	29
flex-B-M57-CS29022-08-30-1994	9.49	6.97	5.25	3.37	2.32	1.35	0.80	0.86	700	611	13	106	45
flex-B-M57-CS29022-08-30-1994	11.04	7.72	5.55	3.77	2.79	1.78	1.08	1.43	700	377	23	66	34
flex-B-M57-CS29022-08-30-1994-(2)	10.90	7.75	5.67	3.80	2.83	1.83	1.13	1.30	700	411	17	85	31
flex-B-M57-CS29022-08-30-1994-(2)	14.43	10.61	8.25	5.94	4.64	2.97	1.54	1.39	700	256	49	22	22
flex-B-M57-CS29022-08-30-1994-(2)	11.41	8.16	5.99	3.87	2.77	1.60	0.83	1.65	700	344	31	33	40
flex-B-M57-CS29022-08-30-1994-(2)	16.43	12.43	9.71	6.94	5.27	3.05	1.27	1.92	700	220	61	11	25
flex-B-M57-CS29022-08-30-1994-(2)	11.93	8.07	5.75	3.72	2.71	1.81	1.18	1.31	700	345	13	144	30
flex-B-M57-CS29022-08-30-1994-(2)	14.81	10.95	8.57	6.75	5.65	4.56	3.32	0.97	700	333	14	195	10

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-B-M57-CS29022-08-30-1994-(2)	17.29	12.17	9.04	6.05	4.41	2.59	1.37	1.07	700	215	25	21	24
flex-B-M57-CS29022-08-30-1994-(2)	18.55	12.44	8.53	5.13	3.59	2.21	1.36	1.67	700	199	9	55	26
flex-B-M57-CS29022-08-30-1994-(2)	16.13	10.33	7.11	4.36	3.16	2.02	1.25	1.46	700	197	14	57	28
flex-B-M57-CS29022-08-30-1994-(2)	14.27	9.75	6.90	4.38	3.21	2.15	1.36	1.26	700	275	12	98	26
flex-B-M57-CS29022-08-30-1994-(2)	16.09	11.19	8.15	5.20	3.67	2.24	1.35	0.88	700	275	11	52	26
flex-B-M57-CS29022-08-30-1994-(2)	14.61	10.08	7.01	4.37	3.06	1.81	1.09	1.67	700	271	13	51	32
flex-B-M57-CS29022-08-30-1994-(2)	18.81	12.97	8.92	5.40	3.73	2.12	1.19	1.95	700	192	13	29	28
flex-B-M57-CS29022-08-30-1994-(2)	17.89	13.00	9.85	6.89	5.11	3.00	1.37	1.77	700	185	43	14	23
flex-B-M57-CS29022-08-30-1994-(2)	16.56	11.38	8.47	5.85	4.34	2.72	1.41	1.26	700	180	36	22	24
flex-B-M57-CS29022-08-30-1994-(2)	20.44	14.82	11.09	7.63	5.58	3.37	1.73	1.32	700	190	23	16	19
flex-B-M57-CS29022-08-30-1994-(2)	16.76	11.91	8.99	6.34	4.85	3.23	1.79	1.18	700	213	28	27	19
flex-B-M57-CS29022-08-30-1994-(2)	17.91	10.56	6.74	3.77	2.53	1.77	1.18	1.29	700	162	9	145	31
flex-B-M57-CS29022-08-30-1994-(2)	18.72	11.78	7.96	4.75	3.28	2.04	1.21	1.02	700	159	13	41	28
flex-B-M57-CS29022-08-30-1994-(2)	17.22	11.78	8.13	5.11	3.54	2.03	1.19	1.68	700	219	13	34	29
flex-B-M57-CS29022-08-30-1994-(2)	21.28	14.71	10.70	7.12	5.20	3.19	1.65	1.68	700	149	23	18	20
flex-B-M57-CS29022-08-30-1994-(2)	22.29	15.30	11.37	7.62	5.62	3.42	1.80	1.12	700	144	22	17	19
flex-B-M57-CS29022-08-30-1994-(2)	21.13	14.36	10.21	6.90	5.04	3.08	1.64	1.51	700	138	23	19	20
flex-B-M57-CS29022-08-30-1994-(2)	16.92	11.23	7.98	5.29	3.81	2.34	1.26	1.17	700	170	27	26	27
flex-B-M57-CS29022-08-30-1994-(2)	15.70	10.50	7.31	4.60	3.35	2.08	1.16	1.77	700	194	21	34	29
flex-B-M57-CS29022-08-30-1994-(2)	22.67	15.85	11.50	7.45	5.05	2.56	1.11	1.51	700	150	24	11	27
flex-B-M57-CS29022-08-30-1994-(2)	18.43	12.47	8.85	5.72	4.04	2.34	1.20	1.49	700	165	24	20	27
flex-B-M57-CS29022-08-30-1994-(2)	16.86	11.87	8.82	5.87	4.14	2.31	1.02	1.94	700	185	40	15	31
flex-B-M57-CS29022-08-30-1994-(2)	22.50	18.62	15.80	13.31	11.39	8.81	5.52	0.94	700	265	46	20	6

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-B-M57-CS29022-08-30-1994-(3)	11.44	8.13	5.95	3.98	2.98	1.92	1.19	1.33	700	411	17	85	31
flex-B-M57-CS29022-08-30-1994-(3)	15.03	11.06	8.59	6.19	4.83	3.09	1.61	1.41	700	256	49	22	22
flex-B-M57-CS29022-08-30-1994-(3)	11.99	8.58	6.30	4.06	2.90	1.68	0.87	1.66	700	344	31	32	40
flex-B-M57-CS29022-08-30-1994-(3)	17.12	12.96	10.12	7.23	5.49	3.18	1.33	1.89	700	221	61	11	25
flex-B-M57-CS29022-08-30-1994-(3)	12.54	8.49	6.04	3.91	2.85	1.90	1.24	1.27	700	345	13	145	30
flex-B-M57-CS29022-08-30-1994-(3)	15.32	11.33	8.87	6.99	5.84	4.72	3.44	0.97	700	333	14	195	10
flex-B-M57-CS29022-08-30-1994-(3)	18.02	12.68	9.42	6.31	4.60	2.70	1.43	1.06	700	215	25	21	24
flex-B-M57-CS29022-08-30-1994-(3)	19.23	12.91	8.85	5.32	3.72	2.29	1.41	1.66	700	199	9	55	26
flex-B-M57-CS29022-08-30-1994-(3)	16.72	10.71	7.37	4.52	3.28	2.10	1.30	1.48	700	197	14	58	28
flex-B-M57-CS29022-08-30-1994-(3)	14.92	10.19	7.22	4.58	3.35	2.25	1.42	1.24	700	275	12	96	26
flex-B-M57-CS29022-08-30-1994-(3)	16.65	11.57	8.43	5.38	3.79	2.31	1.39	0.89	700	275	11	52	26
flex-B-M57-CS29022-08-30-1994-(3)	15.10	10.41	7.25	4.52	3.17	1.87	1.12	1.67	700	272	13	51	32
flex-B-M57-CS29022-08-30-1994-(3)	19.36	13.35	9.18	5.56	3.83	2.18	1.23	1.94	700	192	13	29	28
flex-B-M57-CS29022-08-30-1994-(3)	17.21	11.81	8.49	5.68	4.13	2.53	1.27	1.97	700	176	32	22	26
flex-B-M57-CS29022-08-30-1994-(3)	18.43	13.39	10.15	7.10	5.27	3.09	1.42	1.76	700	186	43	14	23
flex-B-M57-CS29022-08-30-1994-(3)	16.85	11.58	8.62	5.96	4.42	2.77	1.44	1.23	700	180	36	22	24
flex-B-M57-CS29022-08-30-1994-(3)	20.97	15.21	11.38	7.83	5.72	3.46	1.78	1.32	700	190	23	16	19
flex-B-M57-CS29022-08-30-1994-(3)	18.42	10.86	6.93	3.87	2.60	1.82	1.21	1.30	700	162	9	145	31
flex-B-M57-CS29022-08-30-1994-(3)	19.20	12.08	8.16	4.86	3.37	2.09	1.24	1.06	700	159	13	41	28
flex-B-M57-CS29022-08-30-1994-(3)	17.60	12.03	8.31	5.22	3.62	2.08	1.22	1.70	700	219	13	35	29
flex-B-M57-CS29022-08-30-1994-(3)	21.62	14.95	10.87	7.24	5.29	3.24	1.67	1.66	700	149	23	18	20
flex-B-M57-CS29022-08-30-1994-(3)	22.87	15.70	11.66	7.82	5.76	3.51	1.85	1.12	700	144	22	17	19
flex-B-M57-CS29022-08-30-1994-(3)	21.47	14.59	10.38	7.01	5.12	3.13	1.67	1.50	700	139	23	19	20

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-B-M57-CS29022-08-30-1994-(3)	17.24	11.44	8.13	5.39	3.88	2.38	1.28	1.17	700	169	27	26	27
flex-B-M57-CS29022-08-30-1994-(3)	16.07	10.75	7.48	4.71	3.43	2.13	1.18	1.77	700	194	21	34	29
flex-B-M57-CS29022-08-30-1994-(3)	23.09	16.15	11.72	7.59	5.14	2.61	1.13	1.50	700	151	24	11	27
flex-B-M57-CS29022-08-30-1994-(3)	18.87	12.77	9.07	5.86	4.13	2.39	1.23	1.49	700	165	24	20	27
flex-B-M57-CS29022-08-30-1994-(3)	17.27	12.17	9.04	6.02	4.24	2.37	1.04	1.95	700	185	40	15	30
flex-B-M57-CS29022-08-30-1994-(3)	23.22	19.22	16.30	13.73	11.76	9.09	5.69	0.94	700	264	46	20	6
flex-B-M57-CS29022-08-30-1994-(4)	15.15	11.13	8.39	5.68	4.06	2.28	1.07	1.43	700	272	33	18	30
flex-B-M57-CS29022-08-30-1994-(4)	14.18	10.59	8.07	5.55	3.96	2.26	1.06	1.40	700	310	36	18	30
flex-B-M57-CS29022-08-30-1994-(4)	19.87	13.55	9.47	5.63	3.96	2.56	1.61	1.57	700	196	7	78	22
flex-B-M57-CS29022-08-30-1994-(4)	19.89	14.89	11.37	7.89	5.85	3.46	1.70	1.49	700	219	26	14	19
flex-B-M57-CS29022-08-30-1994-(4)	15.57	10.90	7.84	4.93	3.56	2.16	1.22	1.69	700	249	16	36	28
flex-B-M57-CS29022-08-30-1994-(4)	18.51	12.55	8.68	5.30	3.62	2.00	1.12	1.59	700	190	14	26	30
flex-B-M57-CS29022-08-30-1994-(4)	15.08	9.93	7.01	4.16	2.78	1.69	1.07	0.83	700	269	9	95	33
flex-B-M57-CS29022-08-30-1994-(4)	10.70	7.47	5.61	3.75	2.80	1.79	1.08	0.96	700	408	21	68	32
flex-B-M57-CS29022-08-30-1994-(4)	12.78	8.80	6.47	4.25	3.08	1.97	1.21	0.80	700	336	15	70	29
flex-B-M57-CS29022-08-30-1994-(4)	16.79	11.34	7.86	4.74	3.25	1.94	1.17	1.40	700	227	11	50	29
flex-B-M57-CS29022-08-30-1994-(4)	13.27	10.19	8.02	6.27	5.17	4.13	3.01	0.94	700	447	12	260	11
flex-B-M57-CS29022-08-30-1994-(4)	11.47	8.09	5.95	4.11	3.06	1.98	1.18	1.03	700	361	23	56	30
flex-B-M57-CS29022-08-30-1994-(4)	10.29	7.40	5.59	3.74	2.69	1.68	1.05	0.79	700	536	12	137	34
flex-B-M57-CS29022-08-30-1994-(4)	11.24	8.03	5.94	4.24	3.29	2.37	1.61	1.33	700	426	14	204	22
flex-B-M57-CS29022-08-30-1994-(4)	16.21	12.00	9.38	6.75	5.07	2.91	1.24	1.32	700	216	60	12	26
flex-B-M57-CS29022-08-30-1994-(4)	11.34	7.96	5.97	4.06	2.96	1.96	1.20	0.44	700	408	16	83	29
flex-B-M57-CS29022-08-30-1994-(4)	9.13	6.70	5.05	3.24	2.23	1.30	0.77	0.87	700	609	13	106	45

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-B-M57-CS29022-08-30-1994-(4)	10.68	7.47	5.37	3.65	2.70	1.72	1.04	1.40	700	375	23	66	34
flex-B-M57-CS29022-01-28-1993	12.50	9.03	6.62	4.44	3.19	1.99	1.15	1.10	700	385	18	51	31
flex-B-M57-CS29022-01-28-1993	11.44	8.13	5.95	3.98	2.98	1.92	1.19	1.33	700	411	17	85	31
flex-B-M57-CS29022-01-28-1993	11.49	8.25	6.05	4.04	2.98	1.90	1.13	1.20	700	406	19	65	32
flex-B-M57-CS29022-01-28-1993	15.03	11.06	8.59	6.19	4.83	3.09	1.61	1.41	700	256	49	22	22
flex-B-M57-CS29022-01-28-1993	9.81	7.18	5.37	3.55	2.57	1.51	0.90	1.31	700	571	16	81	40
flex-B-M57-CS29022-01-28-1993	10.84	7.75	5.85	4.09	3.06	2.05	1.25	0.57	700	446	21	77	29
flex-B-M57-CS29022-01-28-1993	17.12	12.96	10.12	7.23	5.49	3.18	1.33	1.89	700	221	61	11	25
flex-B-M57-CS29022-01-28-1993	13.04	9.80	7.43	5.28	4.06	2.69	1.69	1.28	700	447	13	84	22
flex-B-M57-CS29022-01-28-1993	12.54	8.49	6.04	3.91	2.85	1.90	1.24	1.27	700	345	13	145	30
flex-B-M57-CS29022-01-28-1993	12.95	8.72	6.25	4.20	3.13	2.08	1.26	0.99	700	283	22	62	29
flex-B-M57-CS29022-01-28-1993	15.32	11.33	8.87	6.99	5.84	4.72	3.44	0.97	700	333	14	195	10
flex-B-M57-CS29022-01-28-1993	19.23	12.91	8.85	5.32	3.72	2.29	1.41	1.66	700	199	9	55	26
flex-B-M57-CS29022-01-28-1993	16.72	10.71	7.37	4.52	3.28	2.10	1.30	1.48	700	197	14	58	28
flex-B-M57-CS29022-01-28-1993	14.92	10.19	7.22	4.58	3.35	2.25	1.42	1.24	700	275	12	96	26
flex-B-M57-CS29022-01-28-1993	19.94	14.19	10.46	6.64	4.68	2.73	1.51	1.27	700	224	12	25	23
flex-B-M57-CS29022-01-28-1993	15.94	11.45	8.38	5.64	4.22	2.74	1.64	1.29	700	283	14	49	22
flex-B-M57-CS29022-01-28-1993	17.83	12.50	9.28	6.02	4.27	2.50	1.43	0.88	700	258	13	31	25
flex-B-M57-CS29022-01-28-1993	16.65	11.57	8.43	5.38	3.79	2.31	1.39	0.89	700	275	11	52	26
flex-B-M57-CS29022-01-28-1993	15.10	10.41	7.25	4.52	3.17	1.87	1.12	1.67	700	272	13	51	32
flex-B-M57-CS29022-01-28-1993	19.36	13.35	9.18	5.56	3.83	2.18	1.23	1.94	700	192	13	29	28
flex-B-M57-CS29022-01-28-1993	17.21	11.81	8.49	5.68	4.13	2.53	1.27	1.97	700	176	32	22	26
flex-B-M57-CS29022-01-28-1993	18.43	13.39	10.15	7.10	5.27	3.09	1.42	1.76	700	186	43	14	23

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-B-M57-CS29022-01-28-1993	20.41	12.96	8.86	5.42	3.74	2.27	1.28	0.95	700	144	16	29	27
flex-B-M57-CS29022-01-28-1993	18.42	10.86	6.93	3.87	2.60	1.82	1.21	1.30	700	162	9	145	31
flex-B-M57-CS29022-01-28-1993	19.20	12.08	8.16	4.86	3.37	2.09	1.24	1.06	700	159	13	41	28
flex-B-M57-CS29022-01-28-1993	17.60	12.03	8.31	5.22	3.62	2.08	1.22	1.70	700	219	13	35	29
flex-B-M57-CS29022-01-28-1993	16.07	10.75	7.48	4.71	3.43	2.13	1.18	1.77	700	194	21	34	29
flex-B-M57-CS29022-01-28-1993	23.09	16.15	11.72	7.59	5.14	2.61	1.13	1.50	700	151	24	11	27
flex-B-M57-CS29022-01-28-1993	22.22	14.21	9.98	6.22	4.35	2.70	1.54	0.59	700	138	14	27	22
flex-B-M57-CS29022-01-28-1993	17.98	11.52	8.25	5.48	4.05	2.72	1.61	0.38	700	167	19	40	22
flex-B-M57-CS29022-01-28-1993	17.27	12.17	9.04	6.02	4.24	2.37	1.04	1.95	700	185	40	15	30
flex-B-M57-CS29022-01-28-1993	15.96	11.73	8.85	5.98	4.28	2.40	1.13	1.40	700	273	33	18	30
flex-B-M57-CS29022-01-28-1993	19.95	14.23	10.17	6.24	4.18	2.21	1.13	1.81	700	208	15	19	29
flex-B-M57-CS29022-01-28-1993	20.56	14.02	9.79	5.82	4.09	2.65	1.67	1.56	700	196	7	78	22
flex-B-M57-CS29022-01-28-1993	16.23	11.37	8.18	5.14	3.72	2.25	1.27	1.70	700	248	16	36	28
flex-B-M57-CS29022-01-28-1993	19.26	13.06	9.03	5.52	3.77	2.08	1.16	1.59	700	189	14	26	30
flex-B-M57-CS29022-01-28-1993	16.84	11.09	7.84	4.65	3.10	1.89	1.19	0.81	700	271	9	93	33
flex-B-M57-CS29022-01-28-1993	11.13	7.77	5.83	3.90	2.91	1.86	1.13	0.94	700	407	21	68	32
flex-B-M57-CS29022-01-28-1993	13.29	9.15	6.72	4.42	3.20	2.05	1.26	0.78	700	336	15	71	29
flex-B-M57-CS29022-01-28-1993	17.44	11.77	8.16	4.92	3.38	2.01	1.21	1.38	700	227	11	50	30
flex-B-M57-CS29022-01-28-1993	13.80	10.60	8.34	6.52	5.38	4.29	3.13	0.94	700	448	12	259	11
flex-B-M57-CS29022-01-28-1993	10.70	7.69	5.81	3.89	2.80	1.74	1.09	0.77	700	534	12	134	34
flex-B-M57-CS29022-01-28-1993	11.64	8.32	6.16	4.39	3.41	2.45	1.67	1.32	700	425	14	201	22
flex-B-M57-CS29022-01-28-1993	16.66	12.33	9.63	6.93	5.21	2.99	1.28	1.33	700	216	60	12	26
flex-B-M57-CS29022-01-28-1993	11.78	8.26	6.20	4.21	3.08	2.03	1.25	0.41	700	407	16	83	29

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-B-M57-CS29022-01-28-1993	9.49	6.97	5.25	3.37	2.32	1.35	0.80	0.86	700	611	13	106	45
flex-B-M57-CS29022-01-28-1993	11.04	7.72	5.55	3.77	2.79	1.78	1.08	1.43	700	377	23	66	34
flex-B-M57-CS29022-01-28-1993	23.22	19.22	16.30	13.73	11.76	9.09	5.69	0.94	700	264	46	20	6
flex-B-M84-CS9011-05-17-2005	12.44	9.07	7.25	4.87	3.40	1.72	0.63	0.77	300	630	62	16	38
flex-B-M84-CS9011-05-17-2005	13.70	10.03	7.98	5.31	3.75	1.97	0.76	1.00	300	556	55	15	32
flex-B-M84-CS9011-05-17-2005	13.70	10.67	8.95	6.65	5.08	2.95	1.14	0.53	300	607	93	11	23
flex-B-M84-CS9011-05-17-2005	13.32	9.69	7.85	5.58	4.09	2.35	1.02	0.55	300	502	69	17	26
flex-B-M84-CS9011-05-17-2005	16.76	13.08	11.02	8.39	6.54	4.05	1.88	0.39	300	568	64	13	15
flex-B-M84-CS9011-05-17-2005	16.50	12.27	10.03	7.39	5.70	3.62	1.69	0.71	300	355	67	16	16
flex-B-M84-CS9011-05-17-2005	15.28	11.37	9.58	7.37	5.82	3.74	1.81	0.47	300	308	98	17	15
flex-B-M84-CS9011-05-17-2005	13.32	9.85	7.95	5.62	4.16	2.48	1.41	1.66	300	1,112	12	59	20
flex-B-M84-CS9011-05-17-2006								1.11	300	1,067	33	38	15
flex-B-M84-CS9011-05-17-2005-(2)	11.09	7.90	6.23	4.13	2.86	1.60	0.91	1.57	400	1,194	14	64	33
flex-B-M84-CS9011-05-17-2005-(2)	18.50	14.11	11.57	8.32	6.22	3.66	1.57	0.77	400	435	54	11	18
flex-B-M84-CS9011-05-17-2005-(2)	12.15	8.97	7.14	4.64	3.06	1.45	0.54	0.99	400	847	44	17	47
flex-B-M84-CS9011-05-17-2005-(2)	12.90	9.74	7.85	5.39	3.74	1.93	0.74	0.65	400	793	54	14	36
flex-B-M84-CS9011-05-17-2005-(2)	15.12	11.82	9.85	7.13	5.24	2.96	1.11	0.89	400	675	68	10	26
flex-B-M84-CS9011-05-17-2005-(2)	17.62	13.99	11.92	9.02	6.93	4.24	1.77	0.67	400	561	74	9	17
flex-B-M84-CS9011-05-17-2005-(2)	14.46	11.13	9.21	6.57	4.73	2.56	0.94	0.70	400	703	64	11	29
flex-B-M84-CS9011-05-17-2005-(2)	14.62	11.26	9.32	6.55	4.65	2.40	0.86	0.66	400	809	52	11	31
flex-B-M84-CS9011-05-17-2005-(2)	15.37	11.59	9.24	6.23	4.48	2.71	1.54	0.56	400	936	9	53	20
flex-B-M84-CS9011-05-17-2005-(2)	14.92	11.48	9.49	6.85	5.11	3.14	1.46	0.86	400	675	53	16	20
flex-B-M84-CS9011-05-17-2005-(2)	15.63	12.11	10.33	7.87	6.09	3.74	1.77	0.73	400	636	70	13	17

Table B.2 (Cont'd)

File Title	Deflection (in mills) at the Specified Distance (in inch) from the Center of the Loaded Area							RMS Error (%)	Depth to Stiff Layer (in)	3 - Layer Backcalculated resilient modulus (ksi)			
	0	8	12	18	24	36	60			AC	Base	Sub-base	Road-bed
flex-B-M84-CS9011-05-17-2005-(2)	14.86	11.38	9.69	7.51	5.95	3.85	1.94	0.58	400	466	91	16	16
flex-B-M84-CS9011-05-17-2005-(2)	12.86	9.44	7.80	5.79	4.50	2.91	1.50	0.55	400	472	80	23	21
flex-B-M84-CS9011-05-17-2005-(2)	13.47	10.16	8.53	6.47	5.09	3.30	1.73	0.66	400	552	78	21	18
flex-B-M84-CS9011-05-17-2005-(2)	15.16	11.58	9.81	7.52	5.94	3.85	1.97	0.59	400	499	78	17	16
flex-B-M84-CS9011-05-17-2005-(2)	14.77	10.58	8.58	6.03	4.41	2.52	1.22	1.10	400	530	49	18	24
flex-B-M84-CS9011-05-17-2005-(2)	11.14	8.26	7.00	5.34	4.16	2.69	1.34	0.73	400	470	125	22	23
flex-B-M84-CS9011-10-03-2005	14.15	9.38	6.73	4.46	3.31	2.15	1.17	1.61	200	480	20	66	20
flex-B-M84-CS9011-10-03-2005	14.50	9.77	6.93	4.40	3.13	1.83	0.92	1.44	200	484	22	43	24
flex-B-M84-CS9011-10-03-2005	14.44	9.80	7.04	4.64	3.31	1.96	0.99	1.55	200	500	23	42	23
flex-B-M84-CS9011-10-03-2005	15.35	10.68	7.79	5.21	3.90	2.50	1.31	1.04	200	486	20	49	17
flex-B-M84-CS9011-10-03-2005	15.27	10.23	7.52	5.23	3.90	2.31	0.96	1.22	200	218	60	23	22
flex-B-M84-CS9011-10-03-2005	14.41	10.20	7.68	5.51	4.26	2.71	1.25	0.99	200	330	54	28	18
flex-B-M84-CS9011-10-03-2005	12.06	8.13	5.96	4.11	3.13	1.94	0.88	1.05	200	333	60	36	25
flex-B-M84-CS9011-10-03-2005	17.17	11.92	8.92	6.28	4.76	2.80	1.11	1.73	200	200	62	17	19
flex-U-M52-CS33051-11-13-2002	11.39	9.30	7.75	5.76	4.32	2.40	1.14	0.55	250	856	6	369	23
flex-U-M52-CS33051-11-13-2002	12.04	9.34	7.48	5.42	4.02	2.24	1.14	1.10	250	599	10	127	23
flex-U-M52-CS33051-11-13-2002	10.67	8.78	7.44	5.67	4.04	2.29	1.06	1.31	250	951	6	500	24
flex-Su-M38-CS66042-05-20-2008	11.77	8.07	6.34	4.57	3.41	2.06	1.08	1.36	350	613	73	30	29
flex-Su-US141-CS7022-05-19-2008	19.91	15.46	12.36	8.87	6.80	4.30	2.14	1.26	700	377	34	13	16

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