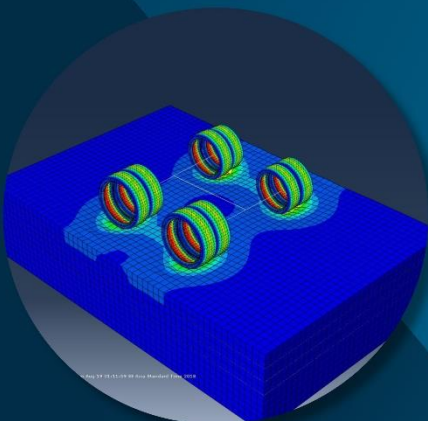
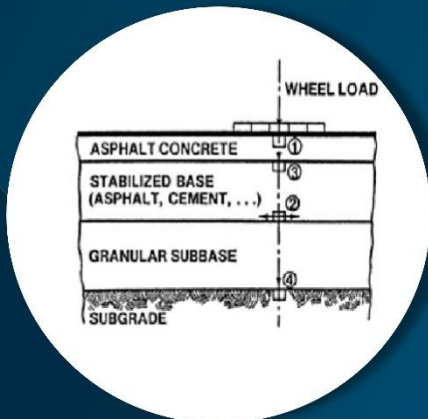




สกสว

รายงานขั้นสุดท้าย (Final Report)

โครงการวิจัยเพื่อจัดทำข้อกำหนดและวิธีการออกแบบ
โครงสร้างถนนลาดยางสำหรับประเทศไทย



สิงหาคม 2565

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บทคัดย่อ

กรมทางหลวงใช้การออกแบบโครงสร้างถนนลาดยางตามวิธีการที่เสนอโดย Asphalt Institute มาเป็นเวลายาวนานหลายทศวรรษ วิธีการออกแบบดังกล่าวเป็นวิธีเชิงประสบการณ์ แต่ก็เป็นที่นิยมเพราะว่าเป็นวิธีที่สะดวก ง่าย รวดเร็ว และใช้การทดสอบวัสดุที่ไม่ยุ่งยากซับซ้อน อย่างไรก็ตาม ข้อมูลและตัวแปรการออกแบบล้วนพัฒนาจากถนนทดลองในประเทศสหรัฐอเมริกา ภายใต้เงื่อนไข สมมุติฐาน และข้อกำหนดการออกแบบของต่างประเทศ นอกจากนี้ ข้อมูลที่นำมาใช้ออกแบบอาจไม่เป็นปัจจุบัน และไม่สะท้อนสภาพข้อเท็จจริงของประเทศไทย ส่งผลให้โครงสร้างถนนลาดยางมีความหนาไม่เพียงพอและอาจเกิดความเสียหายก่อนครบกำหนดอายุการออกแบบ คณะผู้วิจัยได้ตระหนักถึงปัญหาและความสำคัญของการออกแบบโครงสร้างถนนลาดยางของกรมทางหลวงดังกล่าว จึงมีแนวคิดริเริ่มนำค่าการแอ่นตัวที่ได้จากการทดสอบด้วยเครื่องมือ Falling Weight Deflectometer มาใช้ในการออกแบบความหนาของโครงสร้างถนนลาดยางและพัฒนาวิธีการออกแบบโครงสร้างถนนลาดยางภายใต้เงื่อนไขสภาพแวดล้อม วัสดุ และปริมาณจราจรของประเทศไทย เพื่อให้วิศวกรและเจ้าหน้าที่ฝ่ายปฏิบัติงานของกรมทางหลวง สามารถนำไปใช้ในการออกแบบก่อสร้างและบูรณะโครงสร้างถนนลาดยางได้อย่างเหมาะสม ถูกต้อง และปลอดภัยตามหลักวิศวกรรม โดยทำการศึกษาวิเคราะห์ค่าการแอ่นตัวของโครงสร้างถนนลาดยางและค่าความเครียดภายในวัสดุชั้นทางของโครงสร้างถนนลาดยางในรูปแบบต่างๆ อาศัยวิธีการวิเคราะห์เชิงตัวเลข (Numerical Analysis) พร้อมพัฒนาความสัมพันธ์ระหว่างค่าการแอ่นตัวกับตัวแปรการออกแบบโครงสร้างถนนลาดยาง เช่น ความหนาของชั้นโครงสร้างทาง คุณสมบัติของวัสดุชั้นทาง ปริมาณจราจร ESALs เป็นต้น เพื่อจัดทำข้อกำหนดและวิธีการออกแบบโครงสร้างถนนลาดยางสำหรับประเทศไทยต่อไป

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บทที่ 1 บทนำ

1.1 ที่มาและความสำคัญ

กรมทางหลวงใช้การออกแบบโครงสร้างถนนลาดยางตามวิธีการที่เสนอโดย Asphalt Institute (AI) มาเป็นเวลากว่าหลายทศวรรษ วิธีการออกแบบดังกล่าวเป็นวิธีเชิงประสบการณ์ แต่ก็เป็นที่นิยมเพราะว่าเป็นวิธีที่สะดวก ง่าย รวดเร็ว และใช้การทดสอบวัสดุที่ไม่ยุ่งยากซับซ้อน อย่างไรก็ตาม ข้อมูลและตัวแปรการออกแบบล้วนพัฒนาจากถนนทดลองในประเทศสหรัฐอเมริกา ภายใต้เงื่อนไข สมมุติฐาน และข้อกำหนดการออกแบบของต่างประเทศ นอกจากนี้ ข้อมูลที่นำมาใช้ออกแบบอาจไม่เป็นปัจจุบัน และไม่สะท้อนสภาพข้อเท็จจริงของประเทศไทย ส่งผลให้โครงสร้างถนนลาดยางมีความหนาไม่เพียงพอและอาจเกิดความเสียหายก่อนครบกำหนดอายุการออกแบบ

คณะผู้วิจัยได้ตระหนักถึงปัญหาและความสำคัญของการออกแบบโครงสร้างถนนลาดยางของกรมทางหลวงดังกล่าว จึงได้มีแนวคิดริเริ่มนำค่าการแอ่นตัวที่ได้จากการทดสอบด้วยเครื่องมือ Falling Weight Deflectometer (FWD) มาใช้ในการออกแบบความหนาของโครงสร้างถนนลาดยางและพัฒนาวิธีการออกแบบโครงสร้างถนนลาดยางภายใต้เงื่อนไขสภาพแวดล้อม วัสดุ และปริมาณจราจรของประเทศไทย เพื่อให้วิศวกรและเจ้าหน้าที่ฝ่ายปฏิบัติงานของกรมทางหลวง สามารถนำไปใช้ในการออกแบบก่อสร้างและบูรณะโครงสร้างถนนลาดยางได้อย่างเหมาะสม ถูกต้อง และปลอดภัย ตามหลักวิศวกรรม โดยทำการศึกษาวิเคราะห์ค่าการแอ่นตัวของโครงสร้างถนนลาดยางและค่าความเครียดภายในวัสดุชั้นทางของโครงสร้างถนนลาดยางในรูปแบบต่างๆ อาศัยวิธีการวิเคราะห์เชิงตัวเลข (Numerical Analysis) พร้อมพัฒนาความสัมพันธ์ระหว่างค่าการแอ่นตัวกับตัวแปรการออกแบบโครงสร้างถนนลาดยาง เช่น ความหนาของชั้นโครงสร้างทาง คุณสมบัติของวัสดุชั้นทาง ปริมาณจราจร ESALs เป็นต้น เพื่อจัดทำข้อกำหนดและวิธีการออกแบบโครงสร้างถนนลาดยางสำหรับประเทศไทยต่อไป

1.2 วัตถุประสงค์

1. เพื่อจัดทำข้อกำหนดโครงสร้างถนนลาดยางสำหรับประเทศไทย
2. เพื่อจัดทำวิธีการออกแบบโครงสร้างถนนลาดยางสำหรับประเทศไทย

1.3 ขอบเขตของงาน

1. รวบรวมค่าการแอ่นตัวของโครงสร้างถนนลาดยาง ที่ได้จากการทดสอบด้วยเครื่องมือ FWD โดยพิจารณาข้อมูลเท่าที่มีอยู่ของสำนักวิจัยและพัฒนาทาง กรมทางหลวง ตั้งแต่ปี พ.ศ. 2560 จนถึงปัจจุบัน
2. จัดทำรูปแบบโครงสร้างถนนลาดยางตามวิธีการออกแบบ AI, AASHTO, Odemark เป็นต้น โดยพิจารณาความหนาของชั้นโครงสร้างทาง และคุณสมบัติของวัสดุชั้นทาง ได้แก่ ค่า CBR ค่าโมดูลัสยืดหยุ่น ค่าอัตราส่วนปัวซอง ค่า Layer Coefficient ค่า Substitution Ratio เป็นต้น ภายใต้เงื่อนไข สมมุติฐาน และข้อกำหนดวัสดุโครงสร้างถนนลาดยางของประเทศไทย
3. คำนวณค่าการแอ่นตัว ค่าความเค้น และค่าความเครียดของโครงสร้างถนนลาดยาง ในข้อที่ 2 โดยพิจารณาใช้วิธี Numerical Analysis น้ำหนักกระทำของรถบรรทุกมาตรฐาน น้ำหนักกระทำของเครื่องมือ FWD และแบบจำลองความเสียหายของโครงสร้างถนนลาดยางตามที่ กรมทางหลวงใช้ออกแบบ
4. พัฒนารูปภาพความสัมพันธ์ระหว่างค่าการแอ่นตัวโดยวิธี Numerical Analysis ในข้อที่ 3 กับ ตัวแปรการออกแบบโครงสร้างถนนลาดยาง อาทิ ความหนาของชั้นโครงสร้างทางและ คุณสมบัติของวัสดุชั้นทางในข้อที่ 2 เช่น ปริมาณจราจร ESALs เป็นต้น
5. จัดทำกราฟและตารางการออกแบบโครงสร้างถนนลาดยาง ที่ได้จากข้อที่ 4
6. เปรียบเทียบค่าการแอ่นตัวที่ได้จากกราฟและตารางการออกแบบโครงสร้างถนนลาดยาง ในข้อที่ 5 กับค่าการแอ่นตัวที่ได้จากการทดสอบด้วยเครื่องมือ FWD ในข้อที่ 1
7. สรุปผลและจัดทำข้อกำหนดและวิธีการออกแบบโครงสร้างถนนลาดยางสำหรับประเทศไทย

1.4 ขั้นตอนการดำเนินงาน

คณะผู้วิจัยจะรวบรวมค่าการแอ่นตัวของโครงสร้างถนนลาดยางด้วยเครื่องมือ FWD โดยใช้ข้อมูลจากสำนักวิจัยและพัฒนาทาง กรมทางหลวง พร้อมจัดกลุ่มรูปแบบโครงสร้างถนนลาดยางโดยพิจารณาความหนาและคุณสมบัติของวัสดุชั้นโครงสร้างถนนลาดยาง จากนั้นจำลองโครงสร้างถนนลาดยางที่จัดกลุ่มแล้วด้วยโปรแกรมคอมพิวเตอร์เพื่อวิเคราะห์ค่าการแอ่นตัว ค่าความเค้น และค่าความเครียดของโครงสร้างถนนลาดยางดังกล่าว ภายใต้ น้ำหนักกระทำของรถบรรทุกมาตรฐาน และ น้ำหนักกระทำของเครื่องมือ FWD แล้วคำนวณหาจำนวนเที่ยวของน้ำหนักกระทำซ้ำที่ยอมให้ (Allowable Number of Load Repetitions) ของโครงสร้างชั้นทาง และนำไปพัฒนารูปภาพความสัมพันธ์ระหว่างค่าการแอ่นตัวโดยวิธี Numerical Analysis กับตัวแปรการออกแบบโครงสร้างถนนลาดยาง อาทิ ความหนาของชั้นโครงสร้างทาง คุณสมบัติของวัสดุชั้นทาง ปริมาณจราจร ESALs เป็นต้น แล้วจึงจัดทำ

เป็นกราฟและตารางการออกแบบโครงสร้างถนนลาดยาง พร้อมทำการเปรียบเทียบค่าการแอ่นตัวที่ได้
จากกราฟและตารางการออกแบบโครงสร้างถนนลาดยางกับข้อมูล FWD จากสำนักวิจัยและพัฒนาทาง
ทาง กรมทางหลวง สรุปผลและจัดทำข้อกำหนดและวิธีการออกแบบโครงสร้างถนนลาดยางสำหรับ
ประเทศไทยเป็นขั้นตอนสุดท้าย

บทที่ 2

บททวนวรรณกรรม

2.1 การวิเคราะห์หน่วยแรงในโครงสร้างถนนลาดยาง

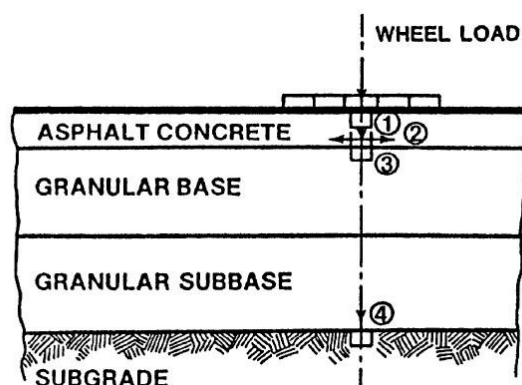
โครงสร้างถนนลาดยางประกอบด้วยวัสดุชั้นทางวางซ้อนทับกันเป็นชั้นๆ อย่างเป็นระบบ (Multi-layer System) วัสดุแต่ละชั้นมีค่าโมดูลัสยืดหยุ่น (Elastic Modulus) ต่างกัน เมื่อมีแรงมากระทำจะทำให้เกิดความเค้น (Stress) และความเครียด (Strain) ภายในวัสดุชั้นทางดังนี้

- Vertical Stress-Strain คือ ความเค้นความเครียดที่เกิดขึ้นเนื่องจากแรงอัดในแนวตั้ง ส่งผลให้ชั้นวัสดุมีความแน่นเพิ่มขึ้น และทำให้เกิดการยุบตัวและเสียรูปถาวร (Permanent Deformation) ในชั้นทาง
- Shear Stress-Strain คือ ความเค้นความเครียดที่เกิดขึ้นเนื่องจากแรงเฉือน ส่งผลให้ชั้นวัสดุสูญเสียเสถียรภาพความมั่นคง โดยเฉพาะอย่างยิ่งเมื่อแรงกระทำมีค่าสูงมาก เช่น กรณีของรถบรรทุกหนักเกินพิกัด
- Horizontal (Radial) Stress-Strain คือ ความเค้นความเครียดที่เกิดขึ้นเนื่องจากการแอ่นตัวของชั้นทางภายใต้แรงกระทำ มักเกิดขึ้นใต้ผิวทางแอสฟัลต์คอนกรีต หรือวัสดุประเภท Bound Material ส่งผลให้ชั้นทางดังกล่าว เกิดรอยแตกจากล่างขึ้นบน

ทั้งนี้ค่าหน่วยแรงสูงสุด หรือ Critical Response มักเป็น Vertical และ Horizontal Stress-Strain เท่านั้น ส่วน Shear Stress-Strain จะเกิดขึ้นเฉพาะในกรณีที่โครงสร้างชั้นทางต้องรับน้ำหนักบรรทุกเกินพิกัด หรือในกรณีที่โครงสร้างชั้นทางเกิดความเสียหายมาก่อน ดังนั้นการออกแบบโดยทั่วไปจึงพิจารณาเฉพาะค่า Vertical และ Horizontal Stress-Strain เท่านั้น นอกจากนี้ค่าความเครียดของวัสดุชั้นทางยังมีความผันผวนน้อยกว่าค่าความเค้น ดังนั้นการวิเคราะห์หน่วยแรงในโครงสร้างถนนลาดยาง จึงนิยมใช้ค่าความเครียดเป็นเกณฑ์กำหนดลักษณะการวิบัติของวัสดุชั้นทาง

2.1.1 Critical Response ในโครงสร้างถนนลาดยางที่มีพื้นทางเป็น Unbound Material

เมื่อมีน้ำหนักกระทำต่อโครงสร้างถนนลาดยางที่มีพื้นทางเป็น Unbound Material พบว่า Critical Response จะเกิด ณ ตำแหน่งหมายเลข 1, 2, 3 และ 4 ดังรูปที่ 2.1 ซึ่งมีรายละเอียดดังต่อไปนี้



รูปที่ 2.1 ตำแหน่งของ Critical Response ในโครงสร้างถนนลาดยางที่มีพื้นทางเป็น Unbound Material

หมายเลข 1 เป็น Vertical Compressive Strain ที่เกิดบนผิวทางแอสฟัลต์คอนกรีต ซึ่งเป็นค่าวิกฤตก็ต่อเมื่อมีรถบรรทุกหนักเกินพิกัดหรือมีปริมาณการจราจรสูงมาก โดย Vertical Compressive Strain บนผิวทาง ส่งผลให้ผิวทางมีความแน่นขึ้นและเกิดการเสียรูปถาวรเป็นแนวร่องล้อ แต่อย่างไรก็ตาม ในการออกแบบไม่ถือว่า Vertical Compressive Strain บนผิวทางแอสฟัลต์คอนกรีตเป็นค่า Critical Response ที่กำหนดการวิบัติของโครงสร้างถนนลาดยาง

หมายเลข 2 เป็น Horizontal (Radial) Tensile Strain ที่เกิดใต้ผิวทางแอสฟัลต์คอนกรีต เนื่องจากผิวทางแอ่นตัวภายใต้น้ำหนักกระทำ ซึ่งคล้ายกับการแอ่นตัวของคาน น้ำหนักที่กระทำซ้ำๆ หลายรอบทำให้ Horizontal Tensile Strain สะสมใต้ผิวทางเพิ่มขึ้นเกินกว่า Limiting Horizontal Tensile Strain ของผิวทางแอสฟัลต์คอนกรีต รอยแตกจะเริ่มเกิดขึ้นใต้ผิวทาง แล้วแผ่ขยายขึ้นไปปรากฏบนผิวทาง ค่า Horizontal Tensile Strain ใต้ผิวทางแอสฟัลต์คอนกรีตเป็น Critical Response ที่กำหนดการวิบัติของโครงสร้างถนนลาดยาง เพราะการเกิดรอยแตกจะทำให้น้ำสามารถไหลซึมผ่านตามแนวรอยแตกของผิวทางแอสฟัลต์คอนกรีต ส่งผลให้โครงสร้างชั้นทางด้านล่างอ่อนแอลง และเกิดการวิบัติในที่สุด ดังนั้น การเกิดรอยแตกใต้ผิวทางแอสฟัลต์คอนกรีตเนื่องจาก Horizontal Tensile Strain ถือเป็นจุดเริ่มต้นของการวิบัติของโครงสร้างชั้นทาง รอยแตกที่เกิดในลักษณะดังกล่าวนี้ เรียกว่า รอยแตกเนื่องจากความล้า (Fatigue Crack)

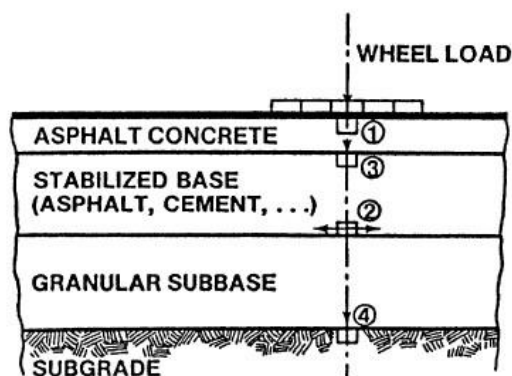
หมายเลข 3 เป็น Vertical Compressive Strain ที่เกิดบนชั้นพื้นทาง (Unbound Granular Base) เนื่องจากวัสดุที่นำมาใช้ก่อสร้างพื้นทางโดยทั่วไปมักมีความแข็งแรงและได้ผ่านขั้นตอนการก่อสร้างมาอย่างดีแล้ว นอกจากนี้ในการออกแบบโครงสร้างถนนลาดยาง จะเลือกใช้วัสดุตามมาตรฐานและข้อกำหนดงานก่อสร้างเท่านั้น ดังนั้นจึงไม่พิจารณา Vertical Compressive Strain ในชั้นพื้นทางเป็น Critical Response ที่กำหนดการวิบัติของโครงสร้างถนนลาดยาง

หมายเลข 4 เป็น Vertical Compressive Strain ที่เกิดบนชั้นดินฐานราก Subgrade ส่งผลให้โครงสร้างชั้นทางเกิดการยุบตัวและเสียรูปถาวร เนื่องจากเป็นวัสดุที่มีค่าโมดูลัสยืดหยุ่น (Elastic Modulus) ต่ำที่สุด ดังนั้น Vertical Compressive Strain ที่เกิดขึ้นในดินฐานรากนี้จึงมีค่ามากที่สุด และเป็น Critical Response ที่กำหนดการวิบัติของถนนลาดยาง ในกรณีงานก่อสร้างบนฐานรากดินอ่อน (Soft Ground หรือ Weak Foundation) ซึ่งมีค่าโมดูลัสยืดหยุ่นต่ำมาก อาจต้องใช้วัสดุอื่นมาทดแทน หรือทำการปรับปรุงคุณภาพ เพื่อเพิ่มค่าโมดูลัสยืดหยุ่นของชั้นดินฐานราก Subgrade และลดค่า Vertical Compressive Strain

ดังนั้น สำหรับโครงสร้างถนนลาดยางที่มีพื้นทางเป็น Unbound Material ค่า Critical Response ที่ทำให้โครงสร้างถนนลาดยางวิบัติได้ คือ Horizontal Tensile Strain ได้ผิวทางแอสฟัลต์คอนกรีต (ตำแหน่งหมายเลข 2) ซึ่งทำให้เกิดรอยแตกเนื่องจากความล้า (Fatigue Crack) และ Vertical Compressive Strain บนชั้นดินฐานราก Subgrade (ตำแหน่งหมายเลข 4) ซึ่งทำให้เกิดการยุบตัวและเสียรูปถาวร (Permanent Deformation)

2.1.2 Critical Response ในโครงสร้างถนนลาดยางที่มีพื้นทางเป็น Bound Material

เมื่อมีน้ำหนักกระทำต่อโครงสร้างถนนลาดยางที่มีพื้นทางเป็น Bound Material พบว่า Critical Strain จะเกิด ณ ตำแหน่งหมายเลข 1, 2, 3 และ 4 ดังแสดงในรูปที่ 2.2 ซึ่งมีรายละเอียดดังต่อไปนี้



รูปที่ 2.2 ตำแหน่งของ Critical Response ในโครงสร้างถนนลาดยางที่มีพื้นทางเป็น Bound Material

หมายเลข 1 เป็น Vertical Compressive Strain ที่เกิดบนผิวทางแอสฟัลต์คอนกรีต เช่นเดียวกับกรณีของโครงสร้างถนนลาดยางที่มีพื้นทางเป็น Unbound Material และไม่ถือว่าเป็น Critical Response ที่กำหนดการวิบัติของโครงสร้างถนนลาดยาง

หมายเลข 2 เป็น Horizontal Tensile Strain ที่เกิดใต้พื้นทางปรับปรุงคุณภาพ (Stabilized Base) หากเปรียบเทียบกับรูปที่ 2.1 กับรูปที่ 2.2 จะเห็นได้ชัดว่าตำแหน่งหมายเลข 2 เปลี่ยนจากใต้ผิวทางแอสฟัลต์คอนกรีตเป็นใต้พื้นทางปรับปรุงคุณภาพแทน เนื่องจากสาเหตุ 2 ประการ คือ ประการแรก พื้น

ทางปรับปรุงคุณภาพมีค่าโมดูลัสยืดหยุ่นสูงกว่าผิวทางแอสฟัลต์คอนกรีต จึงทำให้ Horizontal Tensile Strain ใต้ผิวทางแอสฟัลต์คอนกรีตลดลง และไม่มีโอกาสสะสมจนถึง Limiting Horizontal Tensile Strain ประการที่สอง เนื่องจากพื้นทางปรับปรุงคุณภาพ มีความสามารถในการรับแรงดึง (Tension) น้อยกว่าผิวทางแอสฟัลต์คอนกรีต จึงทำให้พื้นทางปรับปรุงคุณภาพแตกร้าวได้ง่ายกว่าผิวทางแอสฟัลต์คอนกรีต ดังนั้น Horizontal Tensile Strain ที่เกิดใต้พื้นทางปรับปรุงคุณภาพ จึงเป็น Critical Response ที่กำหนดการวิบัติของโครงสร้างถนนลาดยาง นอกจากนี้ Horizontal Tensile Strain ในพื้นทางปรับปรุงคุณภาพยังมีสาเหตุเกิดจากการหดขยายตัวของวัสดุผสมปูนซีเมนต์ได้เช่นกัน

หมายเลข 3 เป็น Vertical Compressive Strain ที่เกิดบนพื้นทางปรับปรุงคุณภาพ แต่เนื่องจากพื้นทางปรับปรุงคุณภาพมีค่าโมดูลัสยืดหยุ่นสูงกว่าผิวทางแอสฟัลต์คอนกรีต จึงไม่ถือเป็น Critical Response ที่กำหนดการวิบัติของโครงสร้างถนนลาดยาง

หมายเลข 4 เป็น Vertical Compressive Strain ที่เกิดบนชั้นดินฐานราก Subgrade ถือว่าเป็น Critical Response ที่กำหนดการวิบัติของถนนลาดยาง เช่นเดียวกับกรณีของโครงสร้างถนนลาดยางที่มีพื้นทางเป็น Unbound Material

ดังนั้น สำหรับโครงสร้างถนนลาดยางที่มีพื้นทางเป็น Bound Material ค่า Critical Response ที่ทำให้โครงสร้างถนนลาดยางวิบัติได้ คือ Horizontal Tensile Strain ใต้พื้นทางปรับปรุงคุณภาพ (ตำแหน่งหมายเลข 2) ซึ่งทำให้เกิดรอยแตกในชั้นวัสดุปรับปรุงคุณภาพ แล้วแผ่ขยายขึ้นไปปรากฏบนผิวทาง และ Vertical Compressive Strain บนชั้นดินฐานราก Subgrade (ตำแหน่งหมายเลข 4) ซึ่งทำให้เกิดการยุบตัวและเสียรูปถาวร (Permanent Deformation) ของโครงสร้างถนนลาดยาง

2.2 การวิเคราะห์โดยพิจารณาวัสดุเป็นเนื้อเดียว (Homogeneous Material)

การวิเคราะห์ค่าความเค้นและความเครียดที่เกิดขึ้นเนื่องจากมีแรงกระทำบนชั้นทางแบบยืดหยุ่นเริ่มต้นจากทฤษฎีของ Boussinesq ในปี ค.ศ. 1885 โดยมีสมมติฐานว่า วัสดุมีลักษณะเป็น Elastic Homogeneous Half-space ซึ่งเป็นวิธีที่เก่าแก่ที่สุด โดยค่าความเค้น (Stress) ที่เกิดขึ้นในแนวตั้งและแนวราบนั้นสามารถคำนวณได้จากสมการที่ 1 และ 2 ในขณะที่ค่าความเครียด (Strain) สามารถคำนวณได้จากสมการที่ 3 และ 4 และค่าการแอ่นตัว (Deflection) สามารถคำนวณได้จากสมการที่ 5

$$\sigma_z = q \left[1 - \frac{z^3}{(a^2 + z^2)^{\frac{3}{2}}} \right] \quad (2.1)$$

$$\sigma_r = \frac{q}{2} \left[1 + 2\nu - \frac{2(1+\nu)z}{(a^2 + z^2)^{1/2}} + \frac{z^3}{(a^2 + z^2)^{3/2}} \right] \quad (2.2)$$

$$\varepsilon_z = \frac{(1+\nu)q}{E} \left[1 - 2\nu + \frac{2\nu z}{(a^2 + z^2)^{1/2}} - \frac{z^3}{(a^2 + z^2)^{3/2}} \right] \quad (2.3)$$

$$\varepsilon_r = \frac{(1+\nu)q}{2E} \left[1 - 2\nu - \frac{2(1-\nu)z}{(a^2 + z^2)^{1/2}} + \frac{z^3}{(a^2 + z^2)^{3/2}} \right] \quad (2.4)$$

$$\Delta = \frac{3qa^2}{2E(a^2 + z^2)^{1/2}} \quad (2.5)$$

โดยที่

σ_z = ความเค้นที่เกิดขึ้นในแนวดิ่ง

σ_r = ความเค้นที่เกิดขึ้นในแนวราบ = σ_t

ε_z = ความเครียดที่เกิดขึ้นในแนวดิ่ง

ε_r = ความเครียดที่เกิดขึ้นในแนวราบ

Δ = ค่าการแอ่นตัว

q = แรงกระทำต่อหน่วยพื้นที่รูปวงกลม

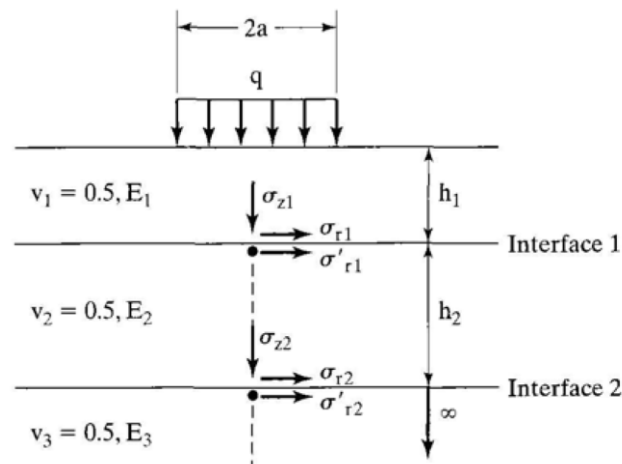
z = ความลึก

a = รัศมีของแรงกระทำ

ν = อัตราส่วนปัวซอง (Poisson's Ratio)

2.3 การวิเคราะห์โดยพิจารณาวัสดุเป็นชั้นๆ (Layered System)

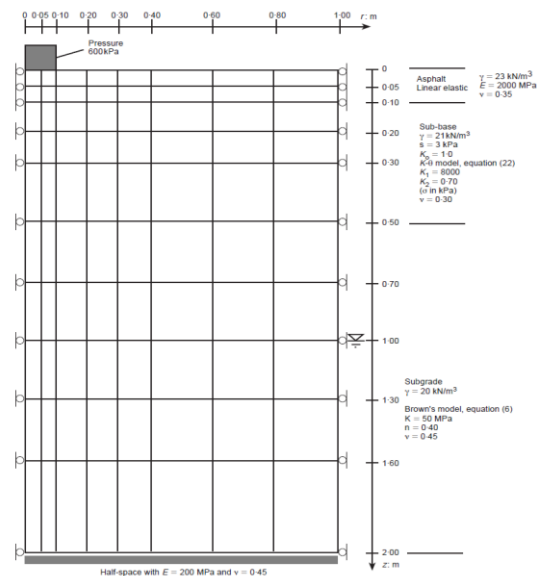
การวิเคราะห์วัสดุเป็นเนื้อเดียวกันทั้งหมดตามทฤษฎีของ Boussinesq ในหัวข้อที่ 2.2 ไม่สามารถประยุกต์ใช้กับโครงสร้างชั้นทางทั่วไป ซึ่งมีวัสดุวางเรียงซ้อนกันเป็นชั้น ด้วยเหตุนี้ Burmister จึงเสนอการวิเคราะห์ค่าความเค้นที่เกิดขึ้นในโครงสร้างชั้นทางลักษณะ 2 และ 3 ชั้น ดังรูปที่ 2.3 โดยความเค้นที่เกิดขึ้นตรงบริเวณรอยต่อระหว่างชั้น สามารถคำนวณได้จากสมการและตารางของ Burmister (Huang, 2004)



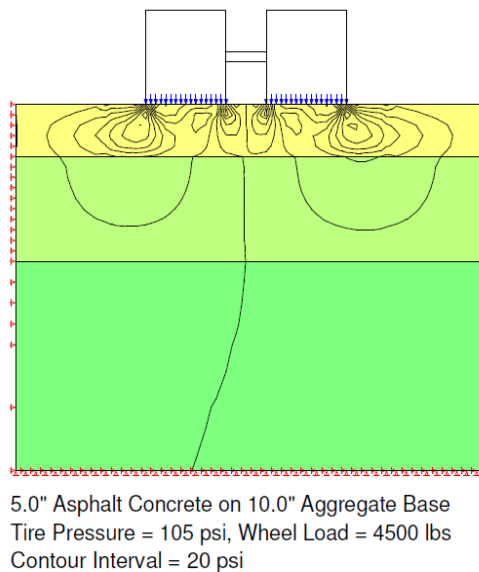
รูปที่ 2.3 การวิเคราะห์ค่าความเค้นในโครงสร้างชั้นทางลักษณะ 3 ชั้นตามทฤษฎีของ Burmister
(Huang, 2004)

2.4 การวิเคราะห์โดยระเบียบวิธีไฟไนต์เอลิเมนต์ (Finite Element Method)

การวิเคราะห์ความเค้นความเครียด (Stress-Strain Analysis) ในโครงสร้างชั้นทางสามารถใช้ระเบียบวิธีไฟไนต์เอลิเมนต์ (Finite Element Method, FEM) ซึ่งมีความละเอียดและแม่นยำกว่าการวิเคราะห์ตามทฤษฎีข้างต้น การวิเคราะห์โดย FEM สามารถกำหนดให้วัสดุมีพฤติกรรมแบบไม่เป็นเส้นตรง (Non-linear Behavior) หรือกำหนดคุณสมบัติของวัสดุให้แปรผันตามสภาวะแวดล้อมได้ รูปที่ 2.4 แสดงตัวอย่างการวิเคราะห์ FEM โดยการจำลองโครงสร้างชั้นทางแบบสมมาตรรอบแกน (Axis-symmetric) และคุณสมบัติเป็น Elastic Half-space ด้วยโปรแกรม FENLAP (Brown, 1996) ส่วนรูปที่ 2.5 แสดงตัวอย่างการวิเคราะห์ FEM ด้วยโปรแกรม SIGMA/W (Holmquist, 1998)



รูปที่ 2.4 ตัวอย่างการวิเคราะห์โครงสร้างชั้นทางด้วยโปรแกรม FENLAP (Brown, 1996)



รูปที่ 2.5 ตัวอย่างการวิเคราะห์โครงสร้างชั้นทางด้วยโปรแกรม SIGMA/W (Holmquist, 1998)

2.5 การวิเคราะห์ด้วยโปรแกรมการวิเคราะห์โครงสร้างชั้นทาง

ในการวิเคราะห์ความเค้นความเครียดของโครงสร้างชั้นทาง จะพิจารณาให้วัสดุชั้นทางในแต่ละชั้นเปรียบเสมือนส่วนประกอบของโครงสร้างอาคาร (Structural Member) แล้วทำการวิเคราะห์ค่าความเค้น (Stress) ความเครียด (Strain) และ ค่าการแอ่นตัว (Deflection) ของชั้นทางที่เกิดขึ้นเนื่องจากน้ำหนักของล้อยานพาหนะ (Wheel Load) ที่กระทำต่อโครงสร้างชั้นทาง อาศัยค่าโมดูลัสยืดหยุ่น (Elastic Modulus, E) และค่าอัตราส่วนปัวซองค์ (Poisson's ratio, ν)

โปรแกรมคอมพิวเตอร์ที่ใช้วิเคราะห์โครงสร้างชั้นทาง (Analytical Method) มีหลายโปรแกรม โดยโปรแกรมที่เก่าแก่ที่สุดเป็นของ Shell Oil Company ในทวีปยุโรป เมื่อปี ค.ศ. 1963 มีชื่อว่า BISTRO ซึ่งต่อมาได้มีการพัฒนาปรับปรุงและเปลี่ยนชื่อเป็น BISAR โปรแกรมสำคัญอีกโปรแกรมหนึ่งชื่อ CHEVRON ซึ่งเป็นโปรแกรมของ CHEVRON Research Company ในรัฐแคลิฟอร์เนีย ประเทศสหรัฐอเมริกา นอกจากนี้ยังมีโปรแกรมคอมพิวเตอร์อื่นๆ เช่น CIRCLY, KENLAYER, ELSYM5, EVERSTRESS เป็นต้น

บทที่ 3

วิธีการดำเนินงาน

3.1 การรวบรวมค่าการแอ่นตัวจากการทดสอบด้วยเครื่องมือ FWD

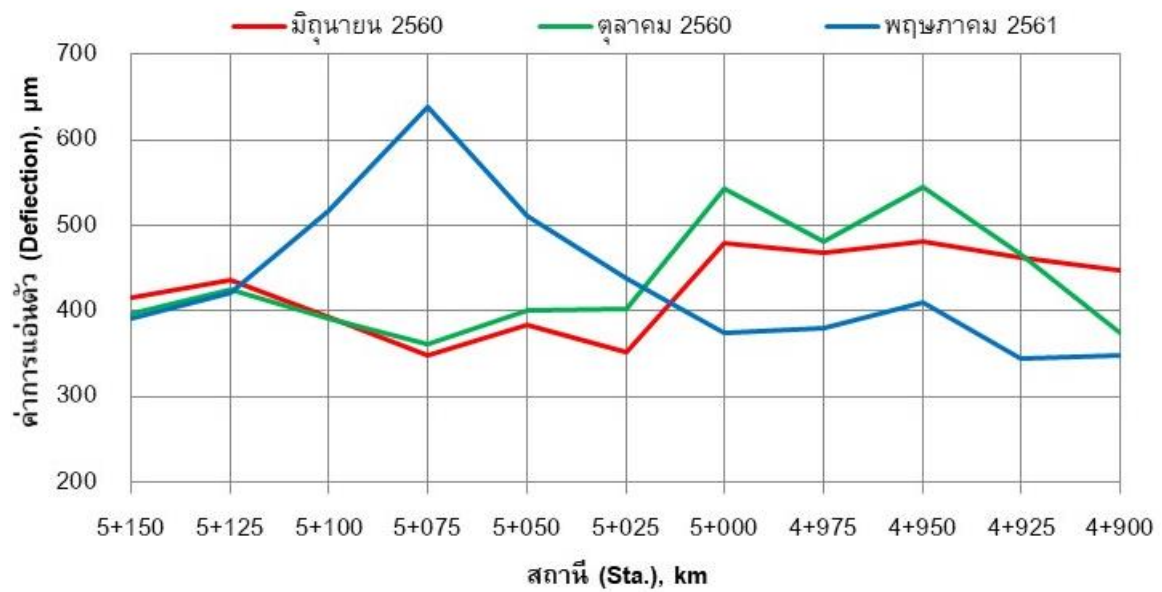
การทดสอบ Falling Weight Deflectometer (FWD) แสดงดังรูปที่ 3.1 เป็นการทดสอบแบบไม่ทำลายที่นิยมทดสอบอย่างแพร่หลายเพื่อใช้ศึกษาพฤติกรรมของโครงสร้างถนน โดยการให้น้ำหนักกระทำต่อผิวทางและติดตั้งอุปกรณ์เพื่อตรวจวัดค่าการแอ่นตัว (Deflection) ที่ตำแหน่งต่างๆ ห่างจากศูนย์กลางของน้ำหนักกระทำ การทดสอบ FWD สามารถทดสอบได้ทั้งบนถนนลาดยางและถนนคอนกรีต รายงานผลการศึกษาของ ดนัยณัฐ และคณะ (2561) พบว่าการทดสอบด้วยเครื่องมือ FWD ของสำนักวิจัยและพัฒนาทาง กรมทางหลวง ใช้หน่วยแรงกระทำเมื่อน้ำหนักบรรทุกทุกจตุรัส ขนาดเท่ากับ 754 kPa โดยการปล่อยน้ำหนักตกกระแทกขนาด 50 kN ลงบนแผ่นจานโลหะเส้นผ่านศูนย์กลาง 30 ซม. แล้วทำการตรวจวัดค่าการแอ่นตัวที่ระยะ 0, 200, 300, 450, 600, 900, 1,200, 1,500 และ 1,800 มิลลิเมตร ห่างจากจุดศูนย์กลางของแผ่นจานโลหะ



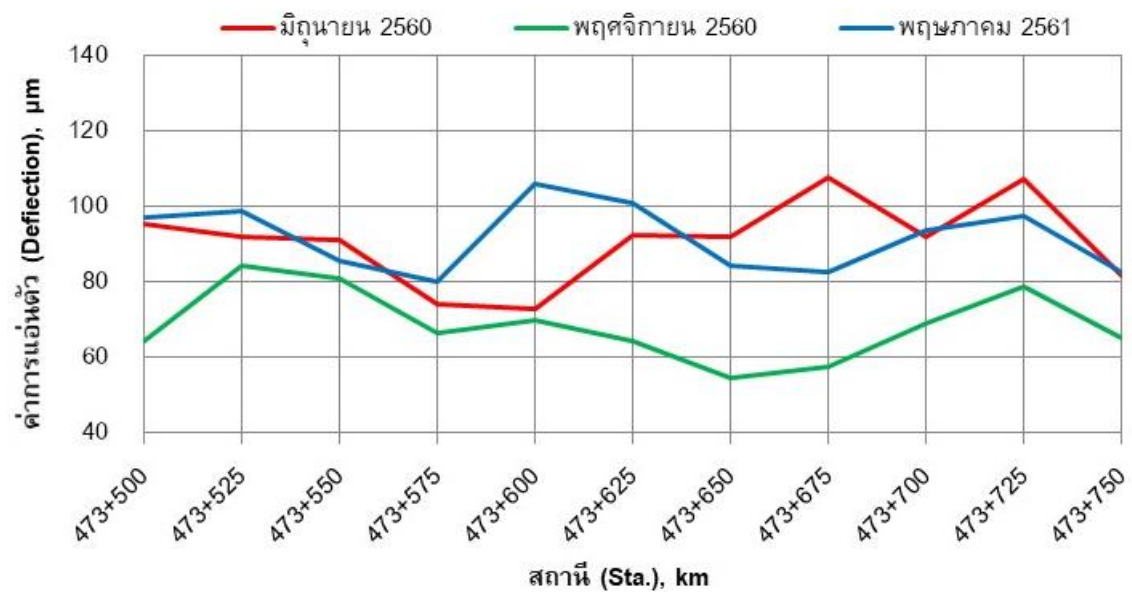
รูปที่ 3.1 การทดสอบด้วยเครื่องมือ FWD (ดนัยณัฐ และคณะ, 2561)

คณะผู้วิจัยได้รวบรวมค่าการแอ่นตัวของโครงสร้างถนนลาดยาง ที่ได้จากการทดสอบด้วยเครื่องมือ FWD โดยพิจารณาจากข้อมูลเท่าที่มีอยู่ของสำนักวิจัยและพัฒนาทาง ตั้งแต่ปี พ.ศ. 2560 จนถึงปัจจุบัน ข้อมูลการวิเคราะห์และทดสอบด้วยเครื่องมือ FWD บนทางหลวง จำนวนทั้งสิ้น 21 แปลง เก็บข้อมูล มีดังนี้ (1) ทางหลวงหมายเลข 32 แขวงทางหลวงชัยนาท กม.119+800 – กม.120+050 (ขา

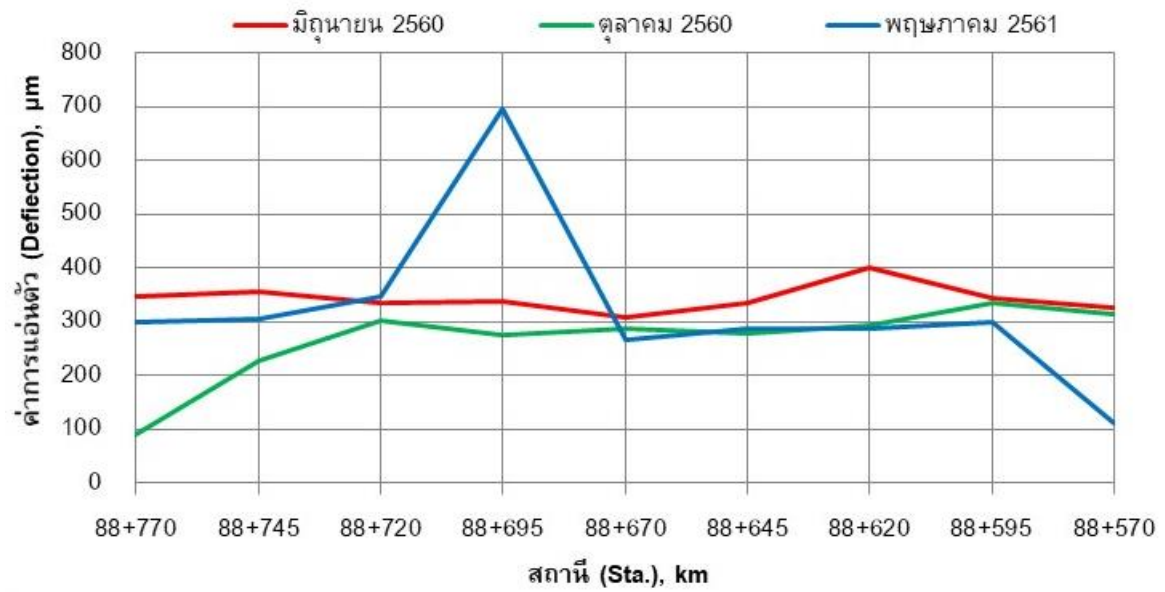
เข้า) (2) ทางหลวงหมายเลข 35 แขวงทางหลวงสมุทรสาคร กม.54+000 – กม.54+250 (ขาออก) (3) ทางหลวงหมายเลข 1 แขวงทางหลวงกำแพงเพชร กม.440+000 – กม.440+250 (ขาออก) (4) ทางหลวงหมายเลข 1 แขวงทางหลวงกำแพงเพชร กม.440+750 – กม.441+000 (ขาเข้า) (5) ทางหลวงหมายเลข 117 แขวงทางหลวงนครสวรรค์ กม.24+750 – กม.25+000 (ขาเข้า) (6) ทางหลวงหมายเลข 1 แขวงทางหลวงนครสวรรค์ กม.308+300 – กม.308+550 (ขาออก) (7) ทางหลวงหมายเลข 1 แขวงทางหลวงนครสวรรค์ กม.379+950 – กม.380+200 (ขาเข้า) (8) ทางหลวงหมายเลข 2 แขวงทางหลวงขอนแก่น กม.268+100 – กม.268+350 (ขาออก) (9) ทางหลวงหมายเลข 24 แขวงทางหลวงบุรีรัมย์ กม.98+750 – กม.99+000 (ขาเข้า) (10) ทางหลวงหมายเลข 2 แขวงทางหลวงสระบุรี กม.17+750 – กม.18+000 (ขาเข้า) (11) ทางหลวงหมายเลข 2 แขวงทางหลวงนครราชสีมา กม.168+750 – กม.169+000 (ขาเข้า) (12) ทางหลวงหมายเลข 2 แขวงทางหลวงนครราชสีมา กม.94+950 – กม.95+200 (ขาเข้า) (13) ทางหลวงหมายเลข 3 แขวงทางหลวงชลบุรี กม.54+250 – กม.54+500 (ขาเข้า) (14) ทางหลวงหมายเลข 311 แขวงทางหลวงชลบุรี กม.47+060 – กม.47+300 (ขาเข้า) (15) ทางหลวงหมายเลข 33 แขวงทางหลวงสระแก้ว กม.267+000 – กม.267+250 (ขาออก) (16) ทางหลวงหมายเลข 36 แขวงทางหลวงระยอง กม.28+575 – กม.28+825 (ขาเข้า) (17) ทางหลวงหมายเลข 323 แขวงทางหลวงราชบุรี กม.4+900 – กม.5+150 (ขาเข้า) (18) ทางหลวงหมายเลข 4 แขวงทางหลวงชุมพร กม.473+500 – กม.473+750 (ขาออก) (19) ทางหลวงหมายเลข 4 แขวงทางหลวงราชบุรี กม.88+570 – กม.88+770 (ขาเข้า) (ทดสอบทั้งแนวล้อซ้ายและแนวล้อขวา) (20) ทางหลวงหมายเลข 4 แขวงทางหลวงประจวบคีรีขันธ์ กม.304+750 – กม.305+000 (ขาเข้า) (21) ทางหลวงหมายเลข 4 แขวงทางหลวงเพชรบุรี กม.170+750 – กม.171+000 (ขาออก) รวมจำนวนข้อมูลการวิเคราะห์และทดสอบด้วยเครื่องมือ FWD ได้ทั้งหมด 22 ชุด รายละเอียดสรุปไว้ในภาคผนวก ก ตัวอย่างข้อมูลค่าการแอ่นตัวจากการทดสอบด้วยเครื่องมือ FWD บนแปลงเก็บข้อมูลในพื้นที่ภาคใต้ จำนวน 5 แปลง แสดงดังรูปที่ 3.2 ถึง 3.6



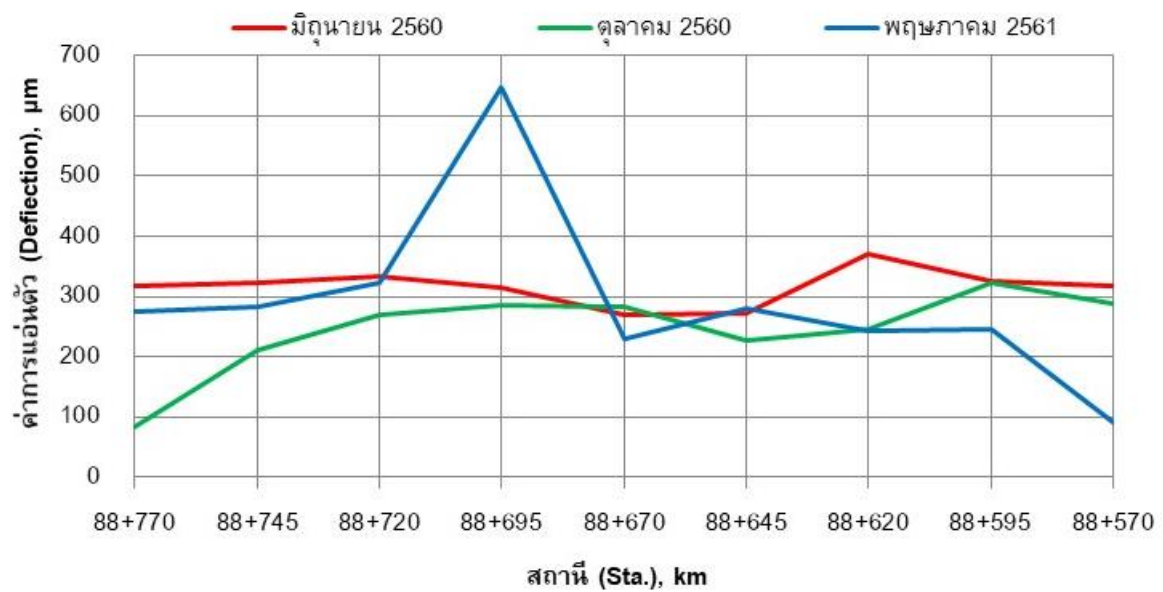
รูปที่ 3.2 ค่าการแอ่นตัวของโครงสร้างถนนที่จุดศูนย์กลางของแผ่นจานโลหะ ทางหลวงหมายเลข 323
แขวงทางหลวงราชบุรี



รูปที่ 3.3 ค่าการแอ่นตัวของโครงสร้างถนนที่จุดศูนย์กลางของแผ่นจานโลหะ ทางหลวงหมายเลข 4
แขวงทางหลวงชุมพร

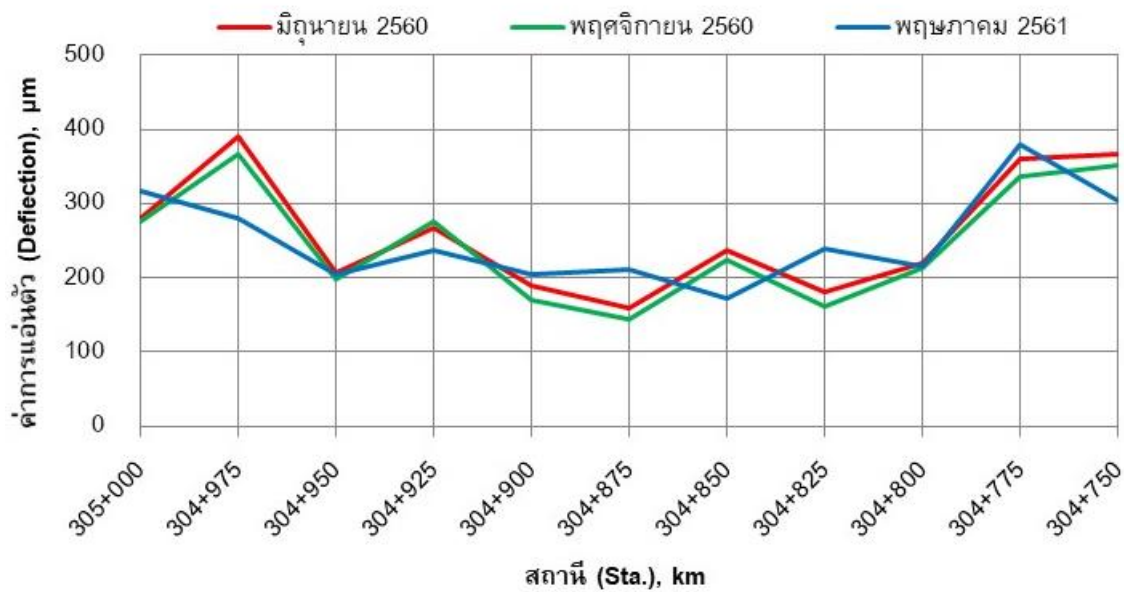


(ก) ล้อซ้าย

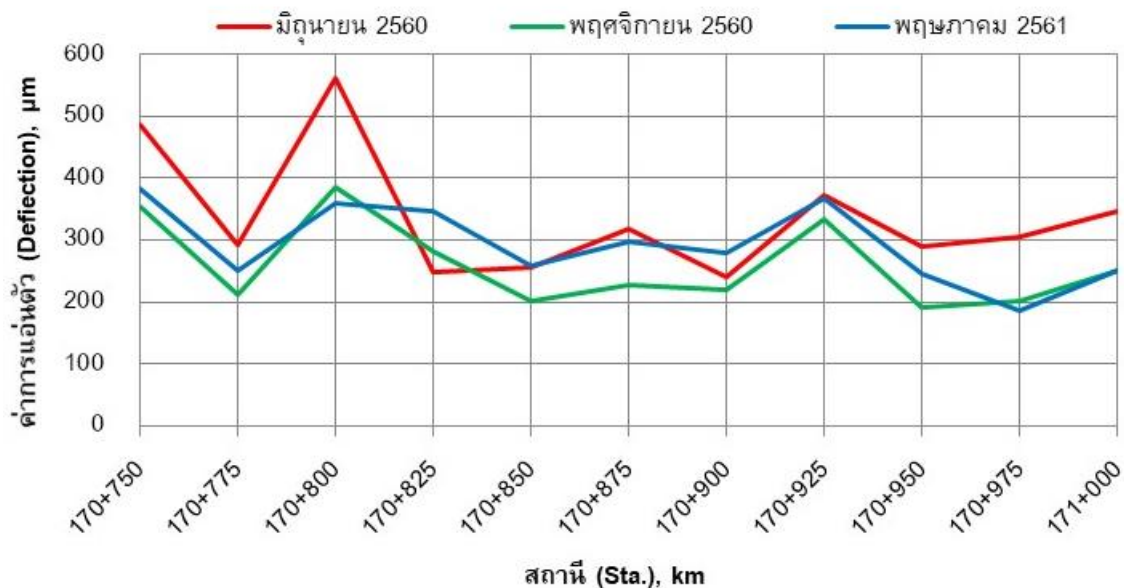


(ข) ล้อซ้าย

รูปที่ 3.4 ค่าการแอ่นตัวของโครงสร้างถนนที่จุดศูนย์กลางของแผ่นจานโลหะ ทางหลวงหมายเลข 4
แขวงทางหลวงราชบุรี



รูปที่ 3.5 ค่าการแอ่นตัวของโครงสร้างถนนที่จุดศูนย์กลางของแผ่นจานโลหะ ทางหลวงหมายเลข 4
แขวงทางหลวงประจวบคีรีขันธ์



รูปที่ 3.6 ค่าการแอ่นตัวของโครงสร้างถนนที่จุดศูนย์กลางของแผ่นจานโลหะ ทางหลวงหมายเลข 4
แขวงทางหลวงเพชรบุรี

3.2 การจัดกลุ่มรูปแบบโครงสร้างถนนลาดยาง

คณะผู้วิจัยทำการจัดกลุ่มรูปแบบโครงสร้างถนนลาดยางตามวิธีการออกแบบ AI, AASHTO, Odemark's Method of Equivalent Thickness โดยพิจารณาจากความหนาของชั้นโครงสร้างทางและ

คุณสมบัติของวัสดุชั้นทาง ภายใต้เงื่อนไข สมมติฐาน และข้อกำหนดวัสดุสำหรับโครงสร้างถนนลาดยางของกรมทางหลวง สรุปในตารางที่ 3.1 อนึ่ง แบบรูปตัดทั่วไปของโครงสร้างถนนลาดยาง (Typical Cross-Section of Asphalt Pavements) กรมทางหลวง รวบรวมไว้ในภาคผนวก ข

ตารางที่ 3.1 ความหนาของชั้นโครงสร้างทางและคุณสมบัติของวัสดุชั้นทาง ที่ใช้จัดกลุ่มรูปแบบโครงสร้างถนนลาดยาง

วัสดุชั้นทาง	ความหนา (ซม.)	โมดูลัสยืดหยุ่น (MPa)	อัตราส่วนปัวซอง
ผิวทางแอสฟัลต์ คอนกรีต	5, 10, 15, 20, 25	2,500	0.35
พื้นทางหินคลุก	10, 15, 20, 25, 30	350	0.35
รองพื้นทางวัสดุมวล รวม	10, 20, 30, 40, 50	150	0.35
วัสดุคัดเลือก	0, 10, 20, 30, 40	100	0.35
ดินเดิม Subgrade	-	40	0.40

จากข้อมูลความหนาของชั้นโครงสร้างทางและคุณสมบัติของวัสดุชั้นทางตามตารางที่ 3.1 คณะผู้วิจัยได้คำนวณความหนาของโครงสร้างถนนลาดยาง ดังนี้ (1) Full-Depth Asphalt (T_A) ตามวิธีการออกแบบของ AI (1970) (2) Structural Number (SN) ตามวิธีการออกแบบของ AASHTO (1993) และ (3) Equivalent Thickness (h_e) ตามวิธีการออกแบบของ Odemark เพื่อแบ่งกลุ่มรูปแบบโครงสร้างถนนลาดยางออกเป็น 4 ชั้น (Class) สรุปไว้ในตารางที่ 3.2

ตารางที่ 3.2 กลุ่มรูปแบบโครงสร้างถนนลาดยาง

Class	T_A (ซม.)		SN		h_e (ซม.)	
	Min.	Max.	Min.	Max.	Min.	Max.
I	14	28	2	4	31	70
II	28	43	4	6	70	107
III	43	57	6	9	107	144
IV	57	72	9	11	144	181

3.2.1 Full-Depth Asphalt (T_A)

การแปลงความหนาของโครงสร้างถนนลาดยางแบบ Full-Depth Asphalt (T_A) ตามวิธีการออกแบบของ AI (1970) สามารถทำได้โดยการใช้ค่า Substitution Ratio ซึ่งสรุปไว้ในตารางที่ 3.3 ค่า Substitution Ratio นี้เป็นอัตราส่วนตามที่ AI แนะนำเพื่อใช้แปลงความหนา T_A เป็นความหนาของชั้นวัสดุสร้างทางชนิดต่างๆ ยกตัวอย่างเช่น ถ้าต้องการใช้หินคลุก (CBR $> 80\%$) แทนแอสฟัลต์คอนกรีต โดยที่หินคลุกมีความหนาเท่ากับ 20 เซนติเมตร จากตารางที่ 3.3 ค่า Substitution Ratio ของวัสดุชนิดนี้เท่ากับ 2 ดังนั้นหินคลุกนี้จะสามารถทดแทนแอสฟัลต์คอนกรีตได้เท่ากับ $20/2 = 10$ เซนติเมตร ในทางปฏิบัติผู้ออกแบบจะสมมติความหนาของโครงสร้างชั้นทางที่เหมาะสม ซึ่งจะประกอบด้วยผิวทาง พื้นทางรองพื้นทาง วัสดุคัดเลือก เป็นต้น แล้วจึงแปลงเป็นความหนา T_A เพื่อตรวจสอบว่าเหมาะสมเพียงพอหรือไม่ การตรวจสอบดังกล่าวสามารถทำได้โดยการนำความหนาของชั้นโครงสร้างทางแต่ละชั้นที่ได้ออกแบบไว้หารด้วยค่า Substitution Ratio ตามชนิดของวัสดุ จากนั้นให้นำเอาผลรวมของความหนา T_A ที่ได้เปรียบเทียบกับค่า T_A ที่ได้จากการออกแบบ หรือ แผนภูมิออกแบบ (Nomograph) ของ AI หากผลรวมดังกล่าวมีค่ามากกว่าค่า T_A ที่ได้จากการออกแบบ แสดงว่าโครงสร้างถนนลาดยางที่ออกแบบนั้นมีความหนาเพียงพอ

ตารางที่ 3.3 แสดงค่า Substitution Ratio ของวัสดุชนิดต่างๆ (AI, 1970)

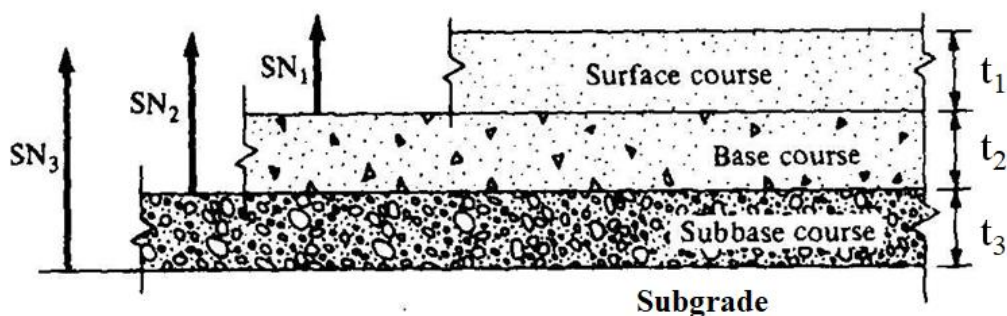
วัสดุ	Substitution Ratio
แอสฟัลต์คอนกรีต	1.0
Hot-mix Sand Asphalt Base	1.3
Emulsified Asphalt Base	1.4
หินคลุกผสมซีเมนต์ และ Pavement Recycling (UCS ≥ 24.5 ksc)	1.5*
หินคลุก (CBR $\geq 80\%$)	2.0
วัสดุมวลรวม (CBR $\geq 25\%$)	2.7
วัสดุคัดเลือก ก (CBR $\geq 10\%$)	3.0*
วัสดุคัดเลือก ข (CBR $\geq 6\%$)	3.5*

หมายเหตุ: AI (1970) มิได้แนะนำไว้ แต่เป็นค่าที่กรมทางหลวงเลือกใช้จากประสบการณ์

3.2.2 Structural Number (SN)

การแปลงความหนาของโครงสร้างถนนลาดยางโดยใช้ค่า Structural Number (SN) ตามวิธีการออกแบบของ AASHTO (1993) สามารถทำได้โดยการกำหนดค่า Structural Number (SN) ซึ่งประกอบด้วยองค์ประกอบหลักสามส่วน ได้แก่ (1) ความหนาของชั้นทาง (Layer Thickness) (2) ค่าสัมประสิทธิ์ความแข็งแรงของชั้นทาง (Layer Coefficient) และ (3) ค่าสัมประสิทธิ์การไหลซึมน้ำของชั้นทาง (Drainage Coefficient) ดังรูปที่ 3.7

AASHTO DESIGN GUIDE 1993



รูปที่ 3.7 ค่า Structural Number (SN) ของโครงสร้างชั้นทาง (AASHTO, 1993)

ค่า SN ของโครงสร้างชั้นทางเท่ากับผลรวมของค่า SN ของชั้นทางแต่ละชั้น ดังนี้

$$SN = [SN_1 + SN_2 + SN_3] = [a_1 t_1 m_1 + a_2 t_2 m_2 + a_3 t_3 m_3] \quad (3.1)$$

เมื่อ a_i คือ ค่าสัมประสิทธิ์ความแข็งแรงของวัสดุชั้นทาง (Layer Coefficient)

t_i คือ ความหนาของวัสดุชั้นทาง

m_i คือ ค่าสัมประสิทธิ์การไหลซึมน้ำของวัสดุชั้นทาง

($i = 1$ หมายถึง ผิวทาง, $i = 2$ หมายถึง พื้นทาง และ $i = 3$ หมายถึง รองพื้นทาง)

อนึ่ง ค่าสัมประสิทธิ์ความแข็งแรงและค่าสัมประสิทธิ์การไหลซึมน้ำของวัสดุชั้นทาง มีความสัมพันธ์กับค่าโมดูลัสยืดหยุ่น (Elastic Modulus) และคุณภาพการระบายน้ำของชั้นทาง ตามลำดับ AASHTO (1993) แนะนำสมการประมาณค่าสัมประสิทธิ์ความแข็งแรงของผิวทาง พื้นทาง และรองพื้นทางจากค่าโมดูลัสยืดหยุ่นของวัสดุชั้นทาง ดังนี้

ผิวทางแอสฟัลต์คอนกรีต (Asphalt Concrete Surface):

$$a_1 = 0.44 + 0.4(\log E_{SF}/3000) \quad (3.2)$$

พื้นทางหินคลุก (Crushed Rock Base) และพื้นทางผสมซีเมนต์ (Cement Stabilized Base):

$$a_2 = 0.249(\log E_{BS}) - 0.977 \quad (3.3)$$

รองพื้นทางวัสดุผสมรวม (Soil Aggregate Subbase):

$$a_3 = 0.227(\log E_{SB}) - 0.839 \quad (3.4)$$

เมื่อ a_1 = ค่าสัมประสิทธิ์ความแข็งแรงของผิวทาง

a_2 = ค่าสัมประสิทธิ์ความแข็งแรงของพื้นทาง

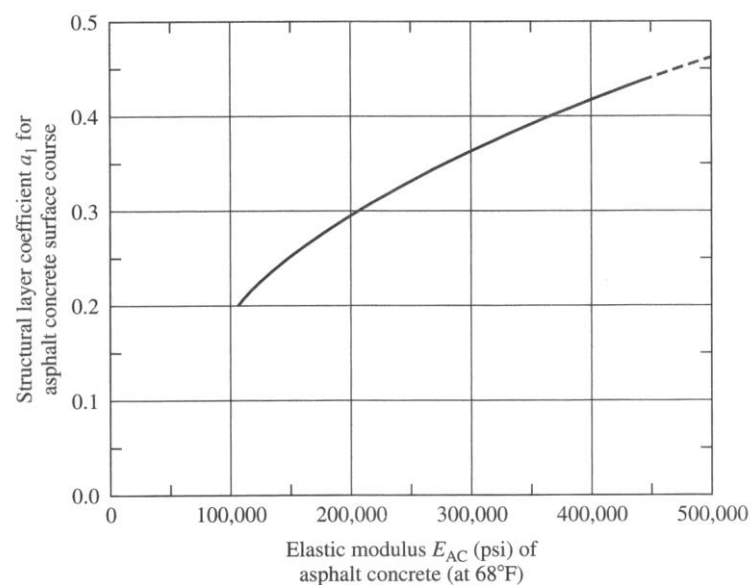
a_3 = ค่าสัมประสิทธิ์ความแข็งแรงของรองพื้นทาง

E_{SF} = ค่าโมดูลัสยืดหยุ่นของผิวทางแอสฟัลต์คอนกรีต (psi)

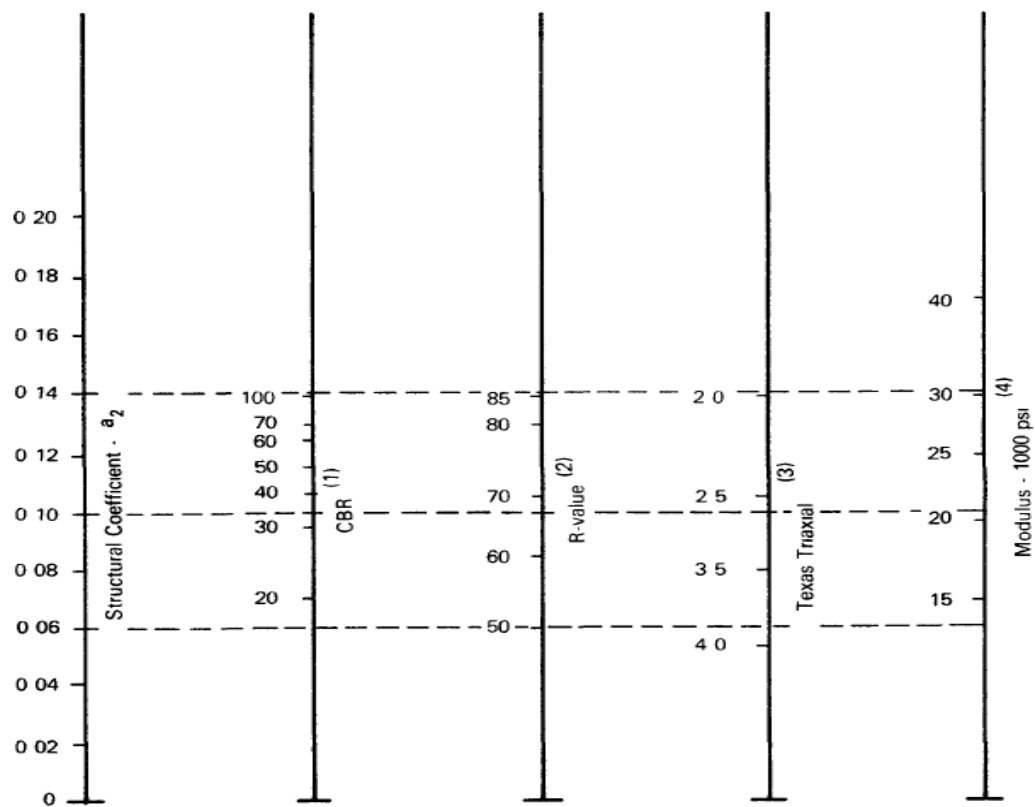
E_{BS} = ค่าโมดูลัสยืดหยุ่นของพื้นทางหินคลุก (psi)

E_{SB} = ค่าโมดูลัสยืดหยุ่นของรองพื้นทางวัสดุมวลรวม (psi)

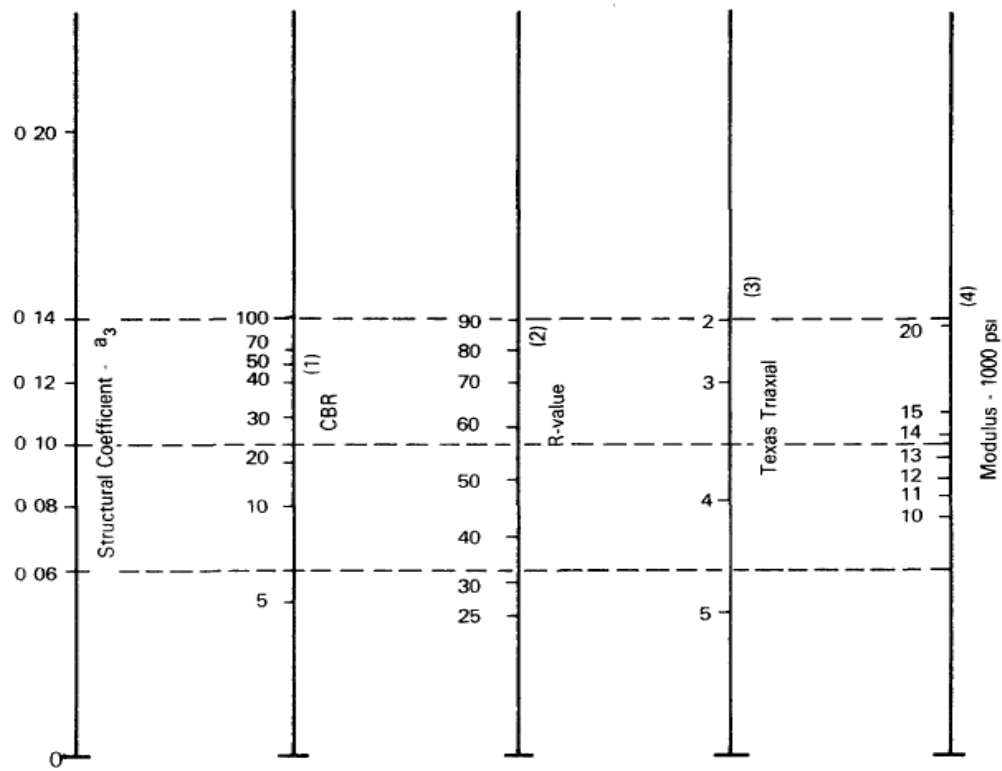
นอกจากสมการประมาณค่าสัมประสิทธิ์ความแข็งแรงแล้ว ยังมีแผนภูมิประมาณค่าสัมประสิทธิ์ความแข็งแรงของผิวทาง พื้นทาง และรองพื้นทางได้ดังรูปที่ 3.8 ถึง 3.10 ตามลำดับ



รูปที่ 3.8 แผนภูมิประมาณค่าสัมประสิทธิ์ความแข็งแรงของผิวทาง (a_1)



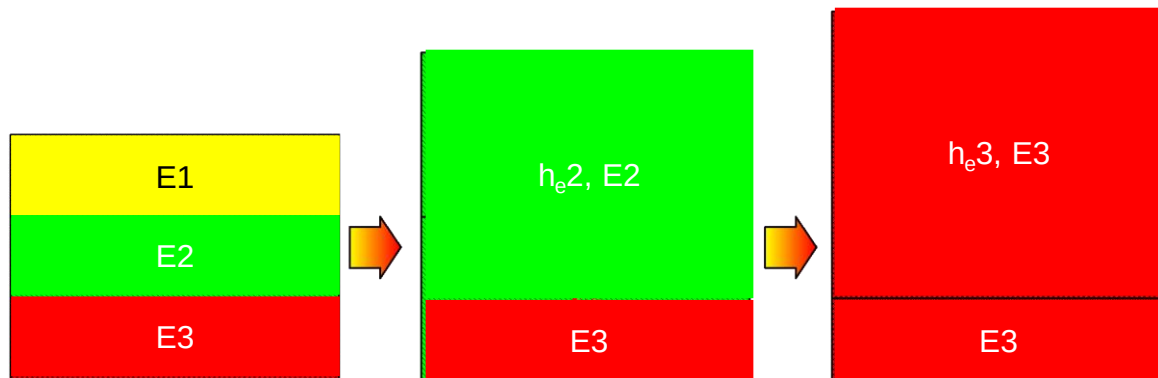
รูปที่ 3.9 แผนภูมิประมาณค่าสัมประสิทธิ์ความแข็งแรงของพื้นทาง (a_2)



รูปที่ 3.10 แผนภูมิประมาณค่าสัมประสิทธิ์ความแข็งแรงของรองพื้นทาง (a_3)

3.2.3 Equivalent Thickness (h_e)

การแปลงความหนาของโครงสร้างถนนลาดยางแบบ Equivalent Thickness (h_e) ตามวิธีการออกแบบของ Odemark (Ulitz, 1987) มีหลักการแปลงระบบวัสดุที่เป็นชั้นๆ ให้เป็นวัสดุเนื้อเดียวกัน ซึ่งสามารถทำได้โดยการเปลี่ยนความหนาของชั้นวัสดุต่างๆ ตามสัดส่วนของค่าโมดูลัสยืดหยุ่น (Elastic Modulus) ของวัสดุชั้นทาง ดังรูปที่ 3.11 ทั้งนี้วิธีการนี้เป็นเพียงการประมาณเท่านั้น คำนวณได้ง่าย ไม่จำเป็นต้องใช้คอมพิวเตอร์



รูปที่ 3.11 การแปลงความหนา h_e โดยหลักการ Odemark's Method of Equivalent Thickness (Ulitz, 1987)

สมการแปลงความหนาตามวิธีการของ Odemark's Equivalent Thickness แสดงได้ดังนี้

$$h_e = f * h_1 * \sqrt[3]{\frac{E_1 * \frac{1 - \nu_2^2}{E_2 * \frac{1 - \nu_1^2}}}{1 - \nu_1^2}} \quad (3.5)$$

เมื่อ f = ค่าแฟกเตอร์ปรับแก้ (Correction Factor $\sim 0.8 - 1.0$)

h_1 = ความหนาของวัสดุชั้นบน

E_1 = ค่าโมดูลัสยืดหยุ่นของวัสดุชั้นบน

E_2 = ค่าโมดูลัสยืดหยุ่นของวัสดุชั้นล่าง

ν_1 = ค่าอัตราส่วนปัวซองของวัสดุชั้นบน

ν_2 = ค่าอัตราส่วนปัวซองของวัสดุชั้นล่าง

3.3 การวิเคราะห์เชิงตัวเลข (Numerical Analysis)

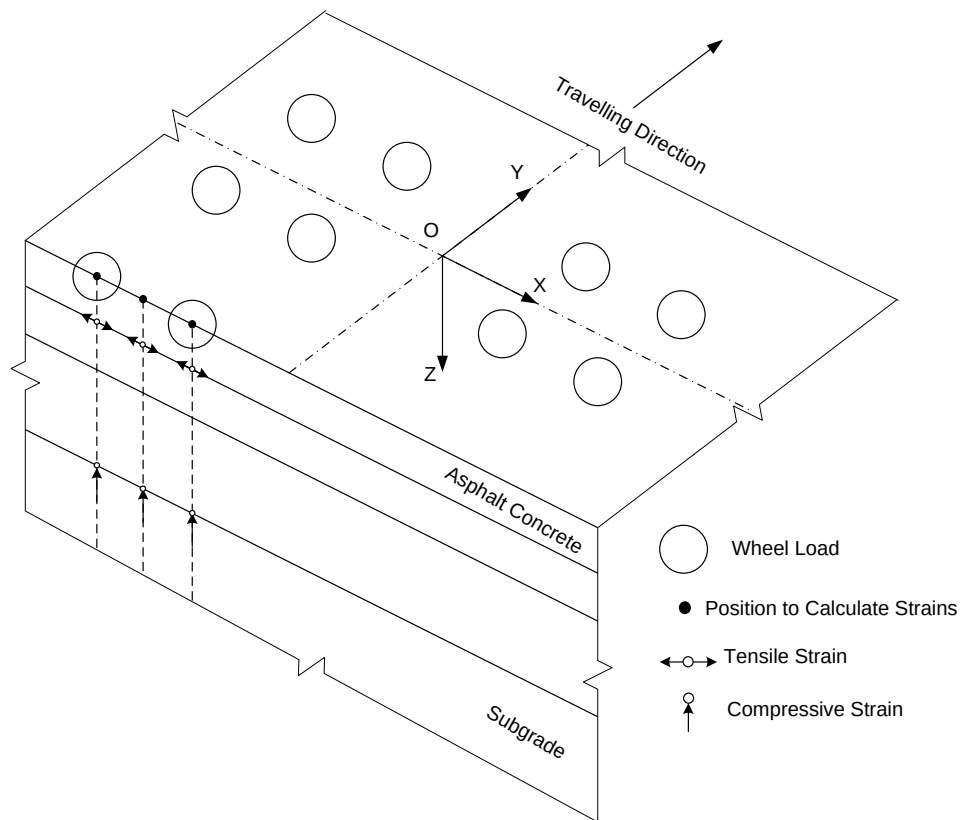
คณะผู้วิจัยได้ทำการวิเคราะห์ค่าการแอ่นตัว (Deflection) และค่าความเครียด (Strain) ของโครงสร้างถนนลาดยาง ตามรูปแบบที่ได้จัดกลุ่มออกเป็น 4 ชั้น (Class) แล้วในข้อ 3.2 รวมจำนวนทั้งสิ้น

625 กรณี ภายใต้น้ำหนักกระทำของรถบรรทุกสลิปมาตรฐานพิกัด 25 ตัน และน้ำหนักกระทำของเครื่องมือ FWD โดยใช้วิธีการวิเคราะห์เชิงตัวเลข (Numerical Analysis) ด้วยโปรแกรมคอมพิวเตอร์

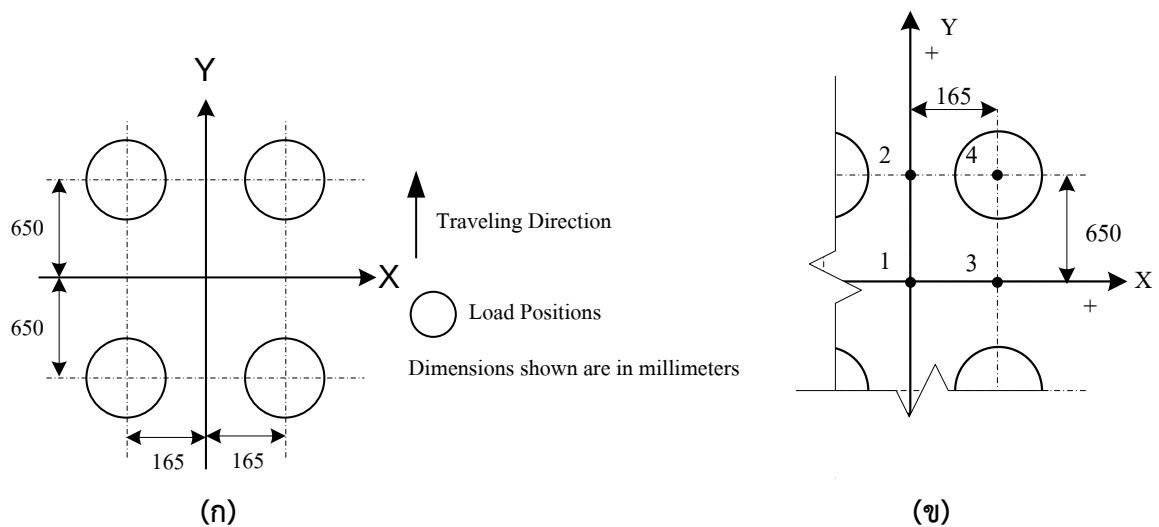
อนึ่ง การวิเคราะห์เชิงตัวเลขด้วยโปรแกรมคอมพิวเตอร์ มีสมมติฐาน ดังนี้

- วัสดุชั้นทางเป็นวัสดุยืดหยุ่น (Elastic) เป็นเนื้อเดียวกัน (Homogeneous) มีคุณสมบัติเหมือนกันทุกทิศทาง (Isotropic) แสดงด้วยค่าโมดูลัสยืดหยุ่น (Elastic Modulus, E) และอัตราส่วนปัวซอง (Poisson's Ratio, ν)
- วัสดุชั้นทางไม่มีน้ำหนัก ไม่มีขอบเขตในแนวราบ และวัสดุชั้นล่างสุดมีความหนาเป็นอนันต์ (Infinite)
- น้ำหนักจากแผ่นงานโลหะของเครื่องมือ FWD และน้ำหนักจากล้อรถเป็นแรงกระทำแผ่กระจายสม่ำเสมอ (Uniform Pressure) เป็นพื้นที่รูปวงกลม

คณะผู้วิจัยพิจารณาเลือกใช้โปรแกรมคอมพิวเตอร์ ซึ่งสามารถวิเคราะห์ค่าความเครียด (Strain) และค่าการแอ่นตัว (Deflection) ในชั้นวัสดุยืดหยุ่นที่เรียงซ้อนกันหลายชั้น (Multi-Layer Linear Elastic Analysis หรือ MLEA) โดยตำแหน่งแรงกระทำ ความหนาชั้นโครงสร้างทาง และตำแหน่งวิเคราะห์ค่าความเครียด และค่าการแอ่นตัวของแบบจำลองโครงสร้างชั้นทาง แสดงดังรูปที่ 3.12 ใช้ระบบพิกัด X, Y, Z โดยแกน X อยู่ในทิศทางตั้งฉากกับทิศทางการเคลื่อนที่ของยานยนต์ แกน Y มีทิศทางขนานกับทิศทางการเคลื่อนที่ของยานยนต์ และแกน Z มีทิศทางลงในแนวดิ่ง โดย $Z = 0$ ที่ผิวทาง และพิจารณาวิเคราะห์ค่าความเครียดที่ได้จุดกึ่งกลางล้อ กึ่งกลางระหว่างล้อ และกึ่งกลางระหว่างเพลลา แสดงดังรูปที่ 3.13 โดยวิเคราะห์ความเครียดจากแรงดึง (Tensile Strain, ϵ_t) ที่ใต้ชั้นผิวทางแอสฟัลต์คอนกรีต และความเครียดจากแรงอัด (Compressive Strain, ϵ_c) เหนือชั้นดินเดิม Subgrade โดยกำหนดให้โครงสร้างชั้นทางมีคุณสมบัติตามตารางที่ 3.4



รูปที่ 3.12 แบบจำลองโครงสร้างชั้นทาง

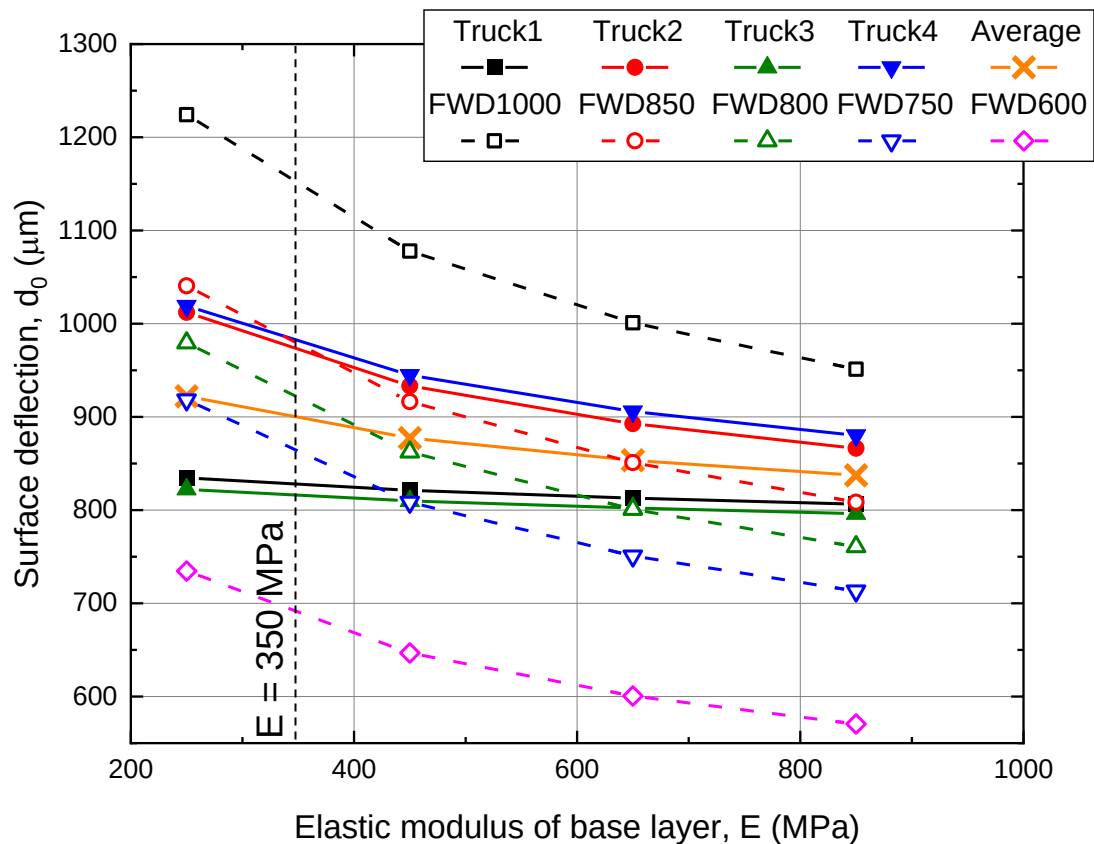


รูปที่ 3.13 ตำแหน่งแรงกระทำและตำแหน่งวิเคราะห์ผล

ตารางที่ 3.4 คุณสมบัติของวัสดุชั้นทางสำหรับโครงสร้างถนนลาดยางของกรมทางหลวง
(กรมทางหลวง, 2556)

วัสดุชั้นทาง	โมดูลัสยืดหยุ่น (MPa)	อัตราส่วนปูนของ
ผิวทางแอสฟัลต์คอนกรีต	2,500	0.35
พื้นทางหินคลุกผสมซีเมนต์ และพื้นทาง Pavement Recycling (UCS $\geq$ 24.5 ksc)	850	0.20
พื้นทางหินคลุก (CBR $\geq$ 80%)	350	0.35
รองพื้นทางวัสดุผสมรวม (CBR $\geq$ 25%)	150	0.35
วัสดุคัดเลือก (CBR $\geq$ 10%)	100	0.35
ดินเดิม Subgrade (CBR = 4%)	40	0.40

อนึ่ง เนื่องจากน้ำหนักกระทำที่ใช้วิเคราะห์โครงสร้างถนนลาดยางมีสองรูปแบบ คือ น้ำหนักกระทำของรถบรรทุกสี่ล้อมาตรฐานพิกัด 25 ตัน (แรงดันลมยาง = 690 kPa หรือ 100 psi และรัศมีพื้นที่สัมผัส = 107.4 มิลลิเมตร) และน้ำหนักกระทำของเครื่องมือ FWD (รัศมีแผ่นจานโลหะ = 150 มิลลิเมตร) เพื่อให้ค่าการแอ่นตัวภายใต้ น้ำหนักกระทำของเครื่องมือ FWD ใกล้เคียงกับค่าการแอ่นตัวภายใต้ น้ำหนักกระทำของรถบรรทุกสี่ล้อมาตรฐาน คณะผู้วิจัยจึงได้ทำการวิเคราะห์สอบเทียบ (Calibration) ระหว่างน้ำหนักกระทำของรถบรรทุกสี่ล้อมาตรฐาน ณ ตำแหน่งกึ่งกลางระหว่างล้อ-กึ่งกลางระหว่างเพลลา (จุดที่ 1) ตำแหน่งกึ่งกลางระหว่างล้อ (จุดที่ 2) ตำแหน่งกึ่งกลางระหว่างเพลลา (จุดที่ 3) และตำแหน่งกึ่งกลางล้อ (จุดที่ 4) ดังรูปที่ 3.13 (ข) กับน้ำหนักกระทำของเครื่องมือ FWD ที่ได้จุดศูนย์กลางแผ่นจานโลหะ โดยพิจารณาเลือกใช้รูปตัดโครงสร้างถนนลาดยางทั่วไปของกรมทางหลวง ประกอบด้วย ผิวทางแอสฟัลต์คอนกรีตหนา 100 มิลลิเมตร พื้นทางหินคลุกหนา 200 มิลลิเมตร รองพื้นทางวัสดุผสมรวมหนา 200 มิลลิเมตร วัสดุคัดเลือกหนา 200 มิลลิเมตร และใช้คุณสมบัติของวัสดุชั้นทางตามตารางที่ 3.4 แต่แปรผันค่าโมดูลัสยืดหยุ่น (E) ของพื้นทางเท่ากับ 250, 450, 650 และ 850 MPa และแปรผันค่าหน่วยแรงของเครื่องมือ FWD เท่ากับ 600, 750, 800, 850 และ 1,000 kPa ผลการสอบเทียบแสดงดังรูปที่ 3.14 จากกราฟแสดงให้เห็นว่า เมื่อค่า E ของพื้นทางเท่ากับ 350 MPa ค่าหน่วยแรงของเครื่องมือ FWD เท่ากับ 800 kPa ให้ค่าการแอ่นตัวใกล้เคียงกับค่าแรงดันลมยาง (690 kPa) ของรถบรรทุกสี่ล้อมาตรฐานพิกัด 25 ตัน ซึ่งเฉลี่ยจากตำแหน่งวิเคราะห์ผลทั้งสี่ตำแหน่ง อนึ่ง สำนักวิจัยและพัฒนาทาง กรมทางหลวง พิจารณาเลือกใช้ค่าหน่วยแรงที่ใช้ทดสอบเครื่องมือ FWD เท่ากับ 750 kPa เนื่องจากน้ำหนักล้อคู่ของรถบรรทุกสี่ล้อมาตรฐาน (49 ถึง 52.5 kN) ทำให้เกิดหน่วยแรงกระทำต่อแผ่นจานโลหะขนาดเส้นผ่านศูนย์กลาง 300 มม. ประมาณ 700-750 kPa



รูปที่ 3.14 ผลการสอบเทียบ (Calibration) ระหว่างน้ำหนักกระทำของรถบรรทุกสี่ล้อมาตรฐานกับ น้ำหนักกระทำของเครื่องมือ FWD

สำหรับแบบจำลองความเสียหายของโครงสร้างถนนลาดยาง คณะผู้วิจัยได้พิจารณาจากคู่มือการออกแบบและวิเคราะห์โครงสร้างชั้นทางและเสถียรภาพคันทาง สำนักวิจัยและพัฒนาทาง กรมทางหลวง (2556) ซึ่งแนะนำว่า โครงสร้างถนนลาดยางที่มีพื้นทางเป็น Unbound Material มักเสียหายเนื่องจากรอยแตกจากการล้าของผิวทางแอสฟัลต์คอนกรีต (Fatigue Cracking) หรือเกิดจากการยุบตัวของดินเดิม Subgrade (Permanent Deformation หรือ Rutting) สมการคำนวณหาจำนวนเที่ยวของน้ำหนักกระทำซ้ำที่ยอมให้ (Allowable Number of Load Repetitions, N_f) สำหรับแบบจำลองความเสียหายทั้งสองรูปแบบแสดงในสมการที่ 3.6 และ 3.7 ตามลำดับ (Huang, 2004)

$$AI (1982) : N_{f, \text{cracking}} = 0.0796 (\epsilon_f)^{-3.291} (E)^{-0.854} \quad (3.6)$$

$$AI (1982) : N_{f, \text{rutting}} = 1.365 \times 10^{-9} (\epsilon_c)^{-4.477} \quad (3.7)$$

ในรายงานฉบับนี้ คณะผู้วิจัยได้รวบรวมผลการวิเคราะห์เชิงตัวเลข (Numerical Analysis) ด้วยโปรแกรมคอมพิวเตอร์ ซึ่งประกอบด้วยค่าการแอ่นตัวและค่าความเครียดของโครงสร้างถนนลาดยางตามรูปแบบที่ได้จัดกลุ่มออกเป็น 4 ชั้น (Class) แล้วในข้อ 3.2 รวมจำนวนทั้งสิ้น 625 กรณี ภายใต้น้ำหนักกระทำของรถบรรทุกสี่ล้อมาตรฐานพิกัด 25 ตัน และน้ำหนักกระทำของเครื่องมือ FWD รายละเอียดผลการวิเคราะห์ฯ สรุปไว้ในภาคผนวก ค

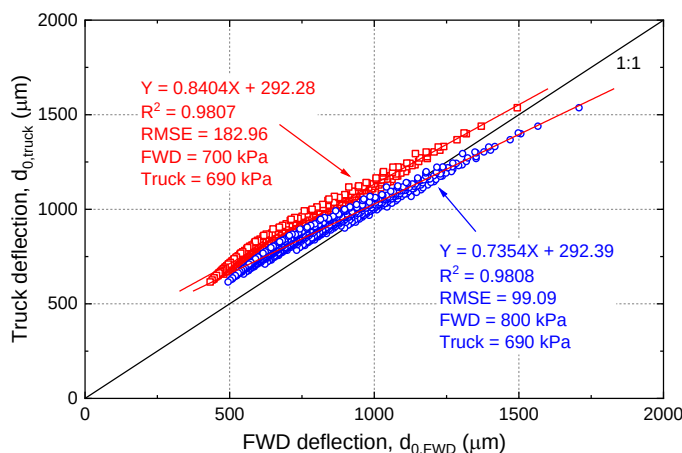
บทที่ 4

ผลการศึกษา

4.1 ความสัมพันธ์ระหว่างค่าการแอ่นตัวกับตัวแปรการออกแบบโครงสร้างถนนลาดยาง

คณะผู้วิจัยได้พัฒนากราฟความสัมพันธ์ระหว่างค่าการแอ่นตัวโดยวิธี Numerical Analysis ในข้อ 3.3 กับตัวแปรการออกแบบโครงสร้างถนนลาดยาง อาทิ ความหนาของชั้นโครงสร้างทาง คุณสมบัติของวัสดุชั้นทาง ปริมาณจราจร ESALs เป็นต้น

เพื่อตรวจสอบความเหมาะสมของค่าหน่วยแรงทดสอบของเครื่องมือ FWD (700 kPa และ 800 kPa) เทียบกับค่าแรงดันลมยางของรถบรรทุกสิบล้อมาตรฐานพิกัด 25 ตัน (690 kPa) โดยวิธีการวิเคราะห์เชิงตัวเลข (Numerical Analysis) คณะผู้วิจัยได้ทำการเปรียบเทียบระหว่าง ค่าการแอ่นตัวของโครงสร้างถนนลาดยางเนื่องจากค่าแรงดันลมยางของรถบรรทุกสิบล้อมาตรฐานพิกัด 25 ตัน (690 kPa) กับค่าการแอ่นตัวของโครงสร้างถนนลาดยางเนื่องจากค่าหน่วยแรงทดสอบของเครื่องมือ FWD (700 kPa และ 800 kPa) จำนวน 625 กรณี แสดงดังรูปที่ 4.1 ผลการเปรียบเทียบระหว่างค่าการแอ่นตัวเนื่องจากรถบรรทุกสิบล้อมาตรฐานกับค่าการแอ่นตัวเนื่องจากเครื่องมือ FWD แสดงให้เห็นว่า ค่าการแอ่นตัวภายใต้น้ำหนักกระทำของรถบรรทุกสิบล้อมาตรฐาน (ค่าแรงดันลมยาง 690 kPa) ใกล้เคียงกับค่าการแอ่นตัวภายใต้ น้ำหนักกระทำของเครื่องมือ FWD (ค่าหน่วยแรงทดสอบ 800 kPa) มากกว่าค่าการแอ่นตัวภายใต้ น้ำหนักกระทำของเครื่องมือ FWD (ค่าหน่วยแรงทดสอบ 700 kPa) โดยมีค่าความคลาดเคลื่อน (Error) เฉลี่ยประมาณร้อยละ 10 และร้อยละ 21 ตามลำดับ และค่า Root Mean Squared Error (RMSE) = 99 และ 183 ตามลำดับ ดังนั้น ค่าหน่วยแรงทดสอบของเครื่องมือ FWD เท่ากับ 800 kPa ที่ใช้วิเคราะห์ค่าการแอ่นตัวของโครงสร้างถนนลาดยาง โดยวิธี Numerical Analysis จึงมีความเหมาะสมและสามารถนำค่าการแอ่นตัวเนื่องจากเครื่องมือ FWD ไปใช้พัฒนาความสัมพันธ์กับตัวแปรการออกแบบโครงสร้างถนนลาดยางต่อไป



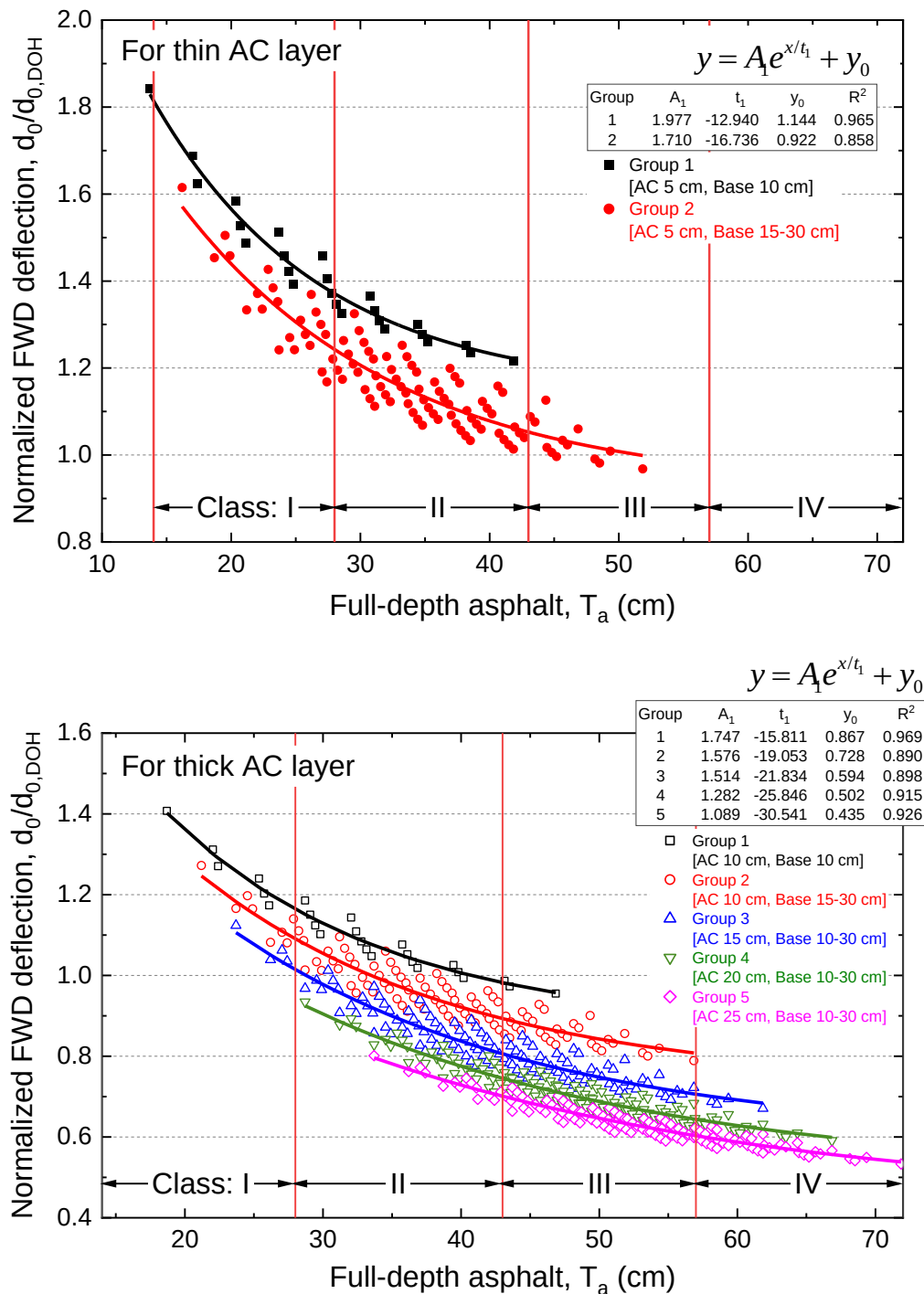
รูปที่ 4.1 ผลการเปรียบเทียบระหว่างค่าการแอ่นตัวเนื่องจากการบรรทุกทุกสปีดมาตรฐานกับ
ค่าการแอ่นตัวเนื่องจากเครื่องมือ FWD

ในการพัฒนาความสัมพันธ์ระหว่างค่าการแอ่นตัวกับตัวแปรการออกแบบโครงสร้างถนนลาดยาง คณะผู้วิจัยได้พิจารณาเลือกใช้ค่า Normalized Deflection ($d_o/d_{o,DOH}$) หรืออัตราส่วนของค่าการแอ่นตัวของโครงสร้างถนนลาดยาง (d_o) ต่อค่าการแอ่นตัวของโครงสร้างถนนลาดยางทั่วไปของกรมทางหลวง ($d_{o,DOH}$) ซึ่งประกอบด้วย ผิวทางแอสฟัลต์คอนกรีตหนา 100 มิลลิเมตร พื้นทางหินคลุกหนา 200 มิลลิเมตร รองพื้นทางวัสดุมวลรวมหนา 200 มิลลิเมตร และวัสดุคัดเลือกหนา 200 มิลลิเมตร เพื่อสามารถเปรียบเทียบกับข้อมูลค่าการแอ่นตัวที่ได้จากการทดสอบด้วยเครื่องมือ FWD ของสำนักวิจัยและพัฒนาทาง กรมทางหลวง ได้อย่างเหมาะสมต่อไป

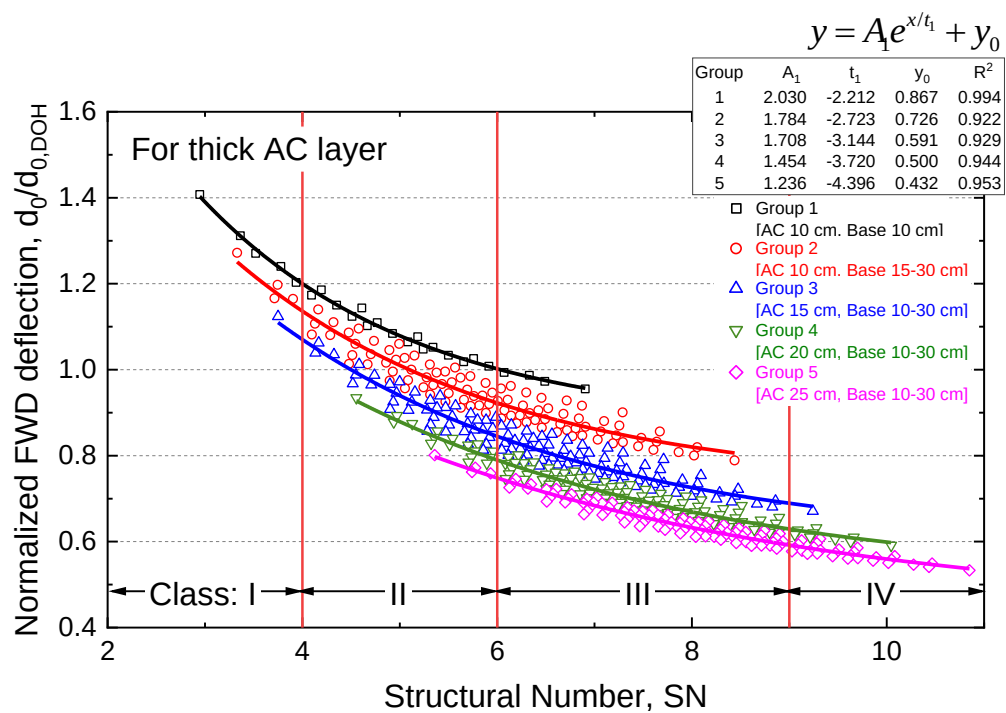
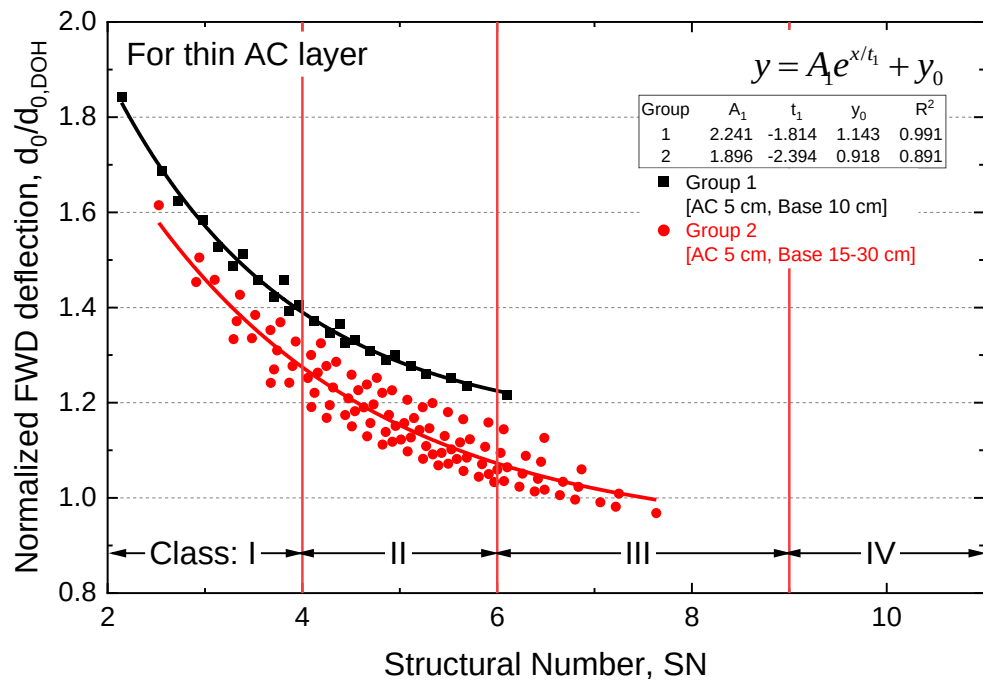
ความสัมพันธ์ระหว่างค่า Normalized Deflection ($d_o/d_{o,DOH}$) จากเครื่องมือ FWD กับความหนาของชั้นโครงสร้างทาง ตามรูปแบบที่ได้จัดกลุ่มออกเป็น 4 ชั้น (Class) แล้วในข้อ 3.2 รวมจำนวนทั้งสิ้น 625 กรณี แสดงดังรูปที่ 4.2 ถึง 4.4 ประกอบด้วย (1) รูปแบบโครงสร้างถนนลาดยาง Full-Depth Asphalt (T_A) ตามวิธีการออกแบบของ AI (1970) (2) รูปแบบโครงสร้างถนนลาดยาง Structural Number (SN) ตามวิธีการออกแบบของ AASHTO (1993) และ (3) รูปแบบโครงสร้างถนนลาดยาง Equivalent Thickness (h_e) ตามวิธีการออกแบบของ Odemark ตามลำดับ นอกจากนี้ เนื่องจากความหนาของโครงสร้างถนนลาดยางมีผลต่อค่าการแอ่นตัวอย่างมีนัยสำคัญ ดังนั้นเพื่อให้การวิเคราะห์ออกแบบความหนาสะดวกและง่ายต่อการนำไปประยุกต์ใช้งาน คณะผู้วิจัยจึงแยกกราฟความสัมพันธ์ออกเป็นสองประเภท ได้แก่

(1) โครงสร้างผิวทางแอสฟัลต์คอนกรีตบาง (Thin AC Layer) หมายถึง โครงสร้างถนนลาดยาง ซึ่งมีผิวทางแอสฟัลต์คอนกรีตหนาน้อยกว่า 100 มิลลิเมตร และ

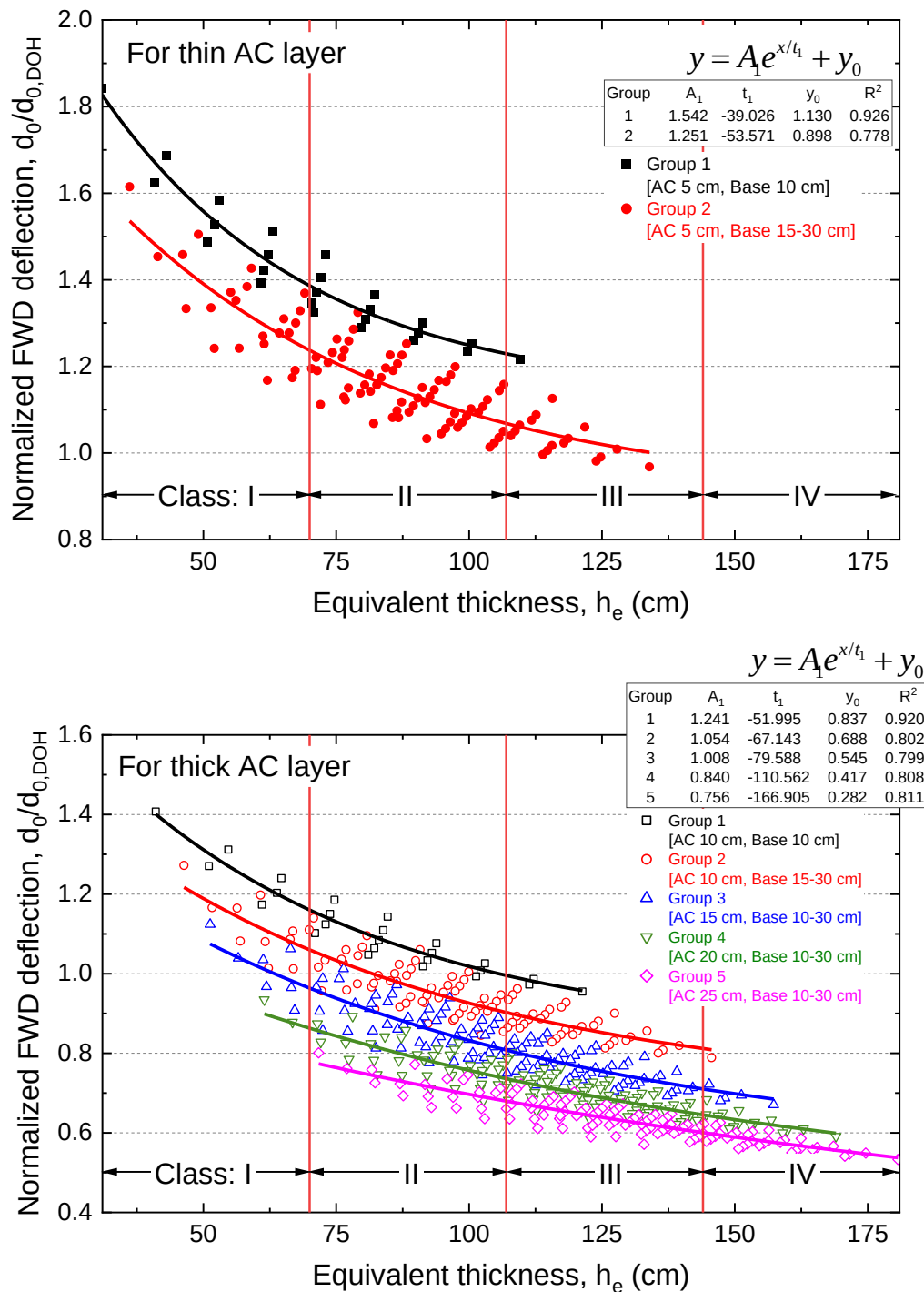
(2) โครงสร้างผิวทางแอสฟัลต์คอนกรีตหนา (Thick AC Layer) หมายถึง โครงสร้างถนนลาดยาง ซึ่งมีผิวทางแอสฟัลต์คอนกรีตหนาไม่น้อยกว่า 100 มิลลิเมตร



รูปที่ 4.2 ความสัมพันธ์ระหว่างค่า Normalized Deflection จากเครื่องมือ FWD กับความหนาของชั้นโครงสร้างทางตามรูปแบบโครงสร้างถนนลาดยาง Full-Depth Asphalt (T_a) สำหรับโครงสร้างผิวทางแอสฟัลต์คอนกรีตบาง (Thin AC Layer) และโครงสร้างผิวทางแอสฟัลต์คอนกรีตหนา (Thick AC Layer)

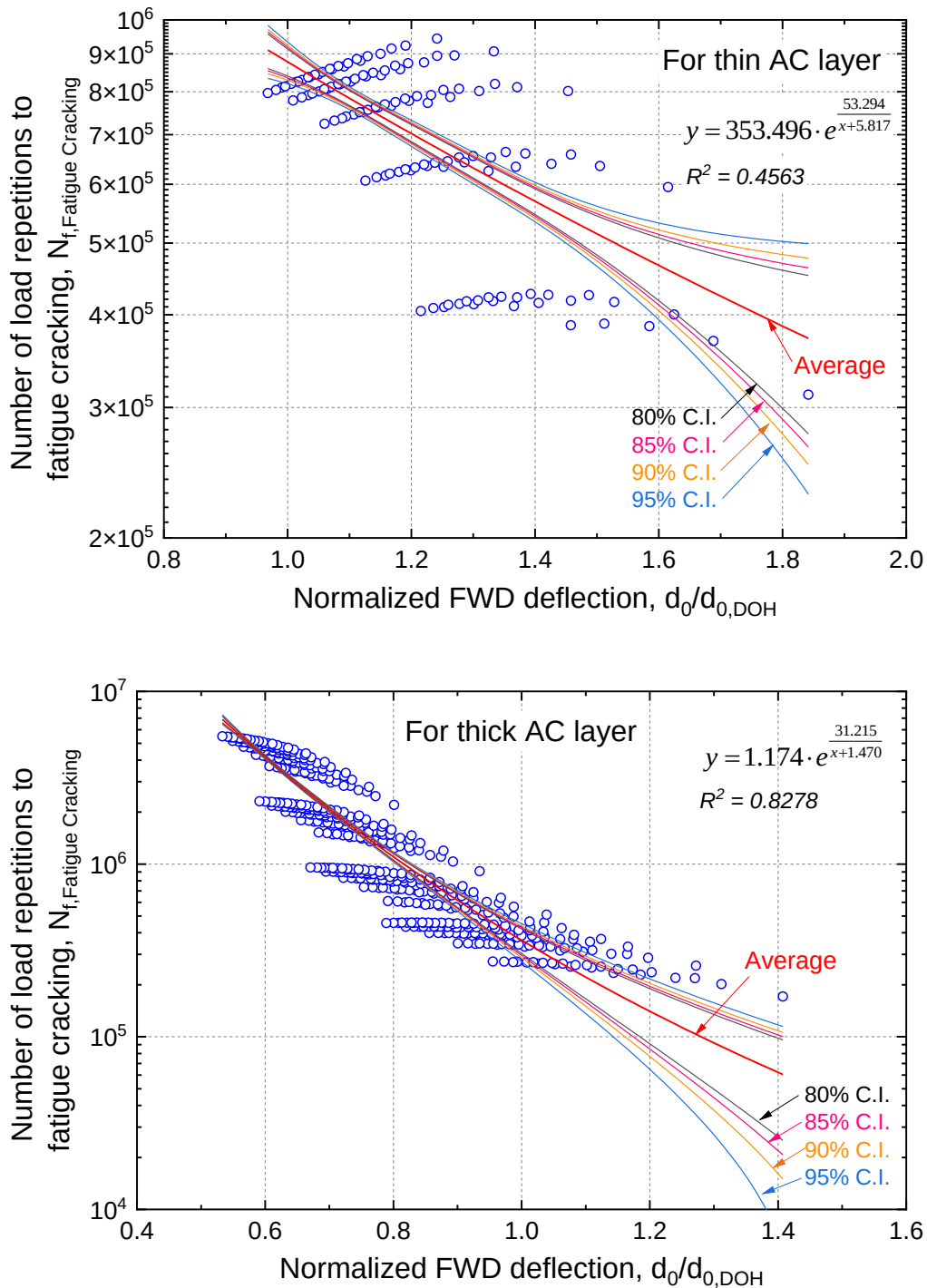


รูปที่ 4.3 ความสัมพันธ์ระหว่างค่า Normalized Deflection จากเครื่องมือ FWD กับความหนาของชั้นโครงสร้างทางตามรูปแบบโครงสร้างถนนลาดยาง Structural Number (SN) สำหรับโครงสร้างผิวทางแอสฟัลต์คอนกรีตบาง (Thin AC Layer) และโครงสร้างผิวทางแอสฟัลต์คอนกรีตหนา (Thick AC Layer)

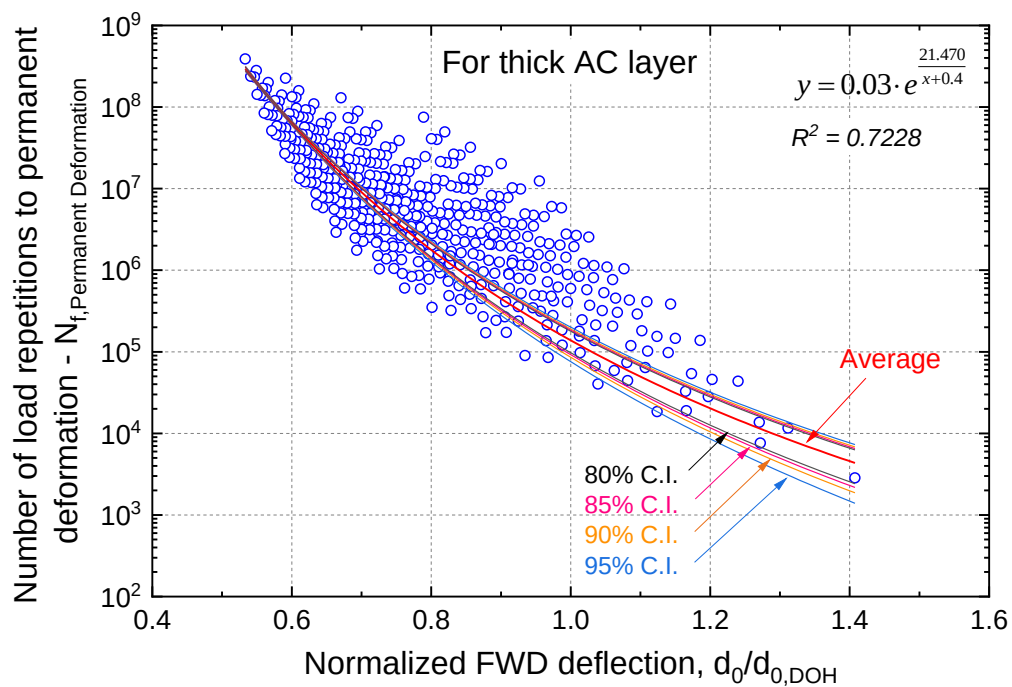
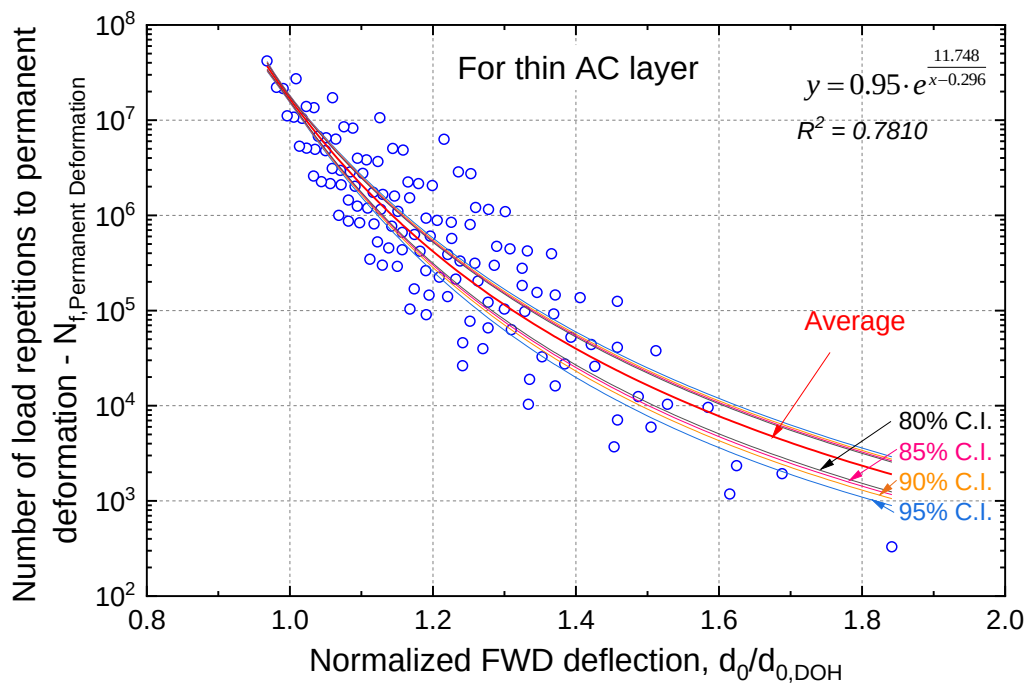


รูปที่ 4.4 ความสัมพันธ์ระหว่างค่า Normalized Deflection จากเครื่องมือ FWD กับความหนาของชั้นโครงสร้างทางตามรูปแบบโครงสร้างถนนลาดยาง Equivalent Thickness (h_e) สำหรับโครงสร้างผิวทางแอสฟัลต์คอนกรีตบาง (Thin AC Layer) และโครงสร้างผิวทางแอสฟัลต์คอนกรีตหนา (Thick AC Layer)

จากกราฟในรูปที่ 4.2 ถึง 4.4 แสดงให้เห็นว่า ค่าการแอ่นตัวเพิ่มขึ้นเมื่อความหนาของโครงสร้างถนนลาดยางลดลง นอกจากนี้ คณะผู้วิจัยยังได้พัฒนาความสัมพันธ์ระหว่างจำนวนเที่ยวของน้ำหนักกระทำซ้ำที่ยอมให้ (Allowable Number of Load Repetitions, N_f) สำหรับแบบจำลองความเสียหายทั้งสองรูปแบบ ได้แก่ รอยแตกจากการล้าของผิวทางแอสฟัลต์คอนกรีต (Fatigue Cracking) และการยุบตัวของดินเดิม Subgrade (Permanent Deformation หรือ Rutting) โดยใช้สมการคำนวณหาจำนวนเที่ยวของน้ำหนักกระทำซ้ำที่ยอมให้ (Allowable Number of Load Repetitions, N_f) ตามสมการที่ 3.6 และ 3.7 ตามลำดับ กับค่า Normalized Deflection จากเครื่องมือ FWD สำหรับโครงสร้างผิวทางแอสฟัลต์คอนกรีตบาง (Thin AC Layer) และโครงสร้างผิวทางแอสฟัลต์คอนกรีตหนา (Thick AC Layer) แสดงดังรูปที่ 4.5 ถึง 4.6 ซึ่งแสดงให้เห็นว่า จำนวนเที่ยวของน้ำหนักกระทำซ้ำที่ยอมให้สำหรับแบบจำลองความเสียหายทั้งสองรูปแบบเพิ่มขึ้นเมื่อค่าการแอ่นตัวลดลง



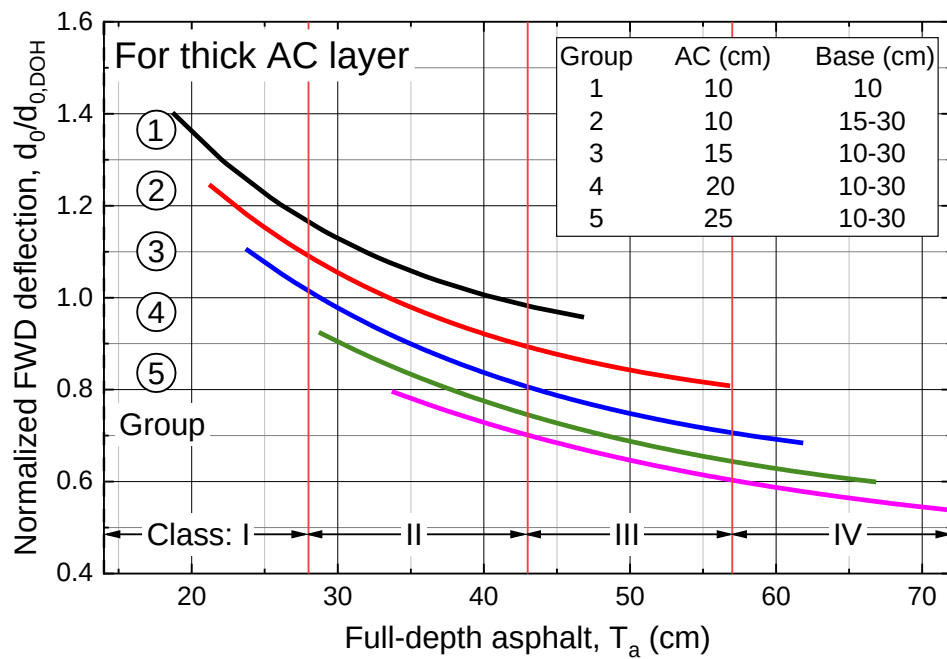
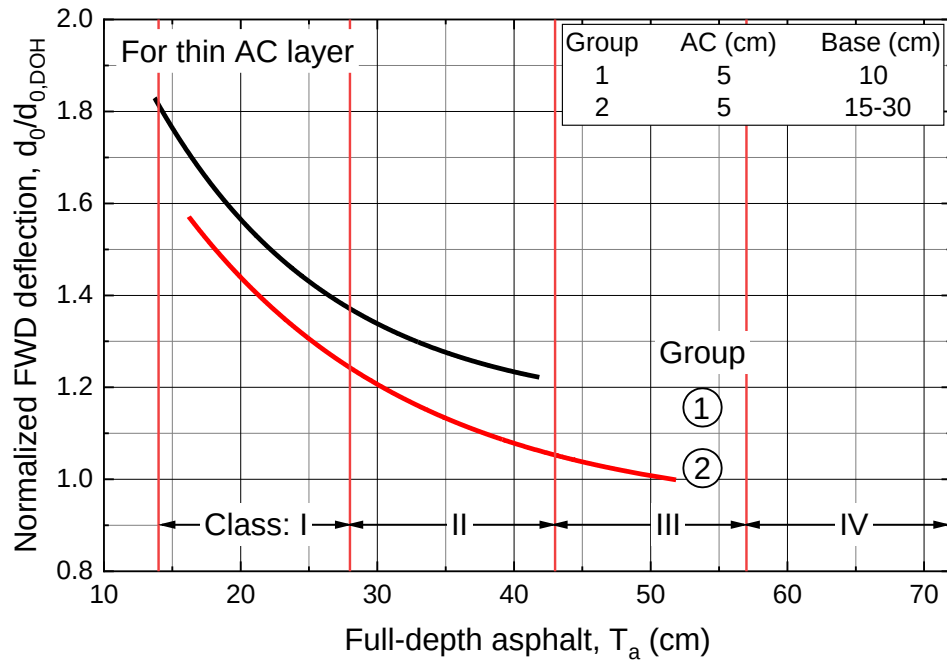
รูปที่ 4.5 ความสัมพันธ์ระหว่างค่า N_f เนื่องจากรอยแตกจากการล้าของผิวทางแอสฟัลต์คอนกรีต (Fatigue Cracking) กับค่า Normalized Deflection จากเครื่องมือ FWD สำหรับโครงสร้างผิวทางแอสฟัลต์คอนกรีตบาง (Thin AC Layer) และโครงสร้างผิวทางแอสฟัลต์คอนกรีตหนา (Thick AC Layer)



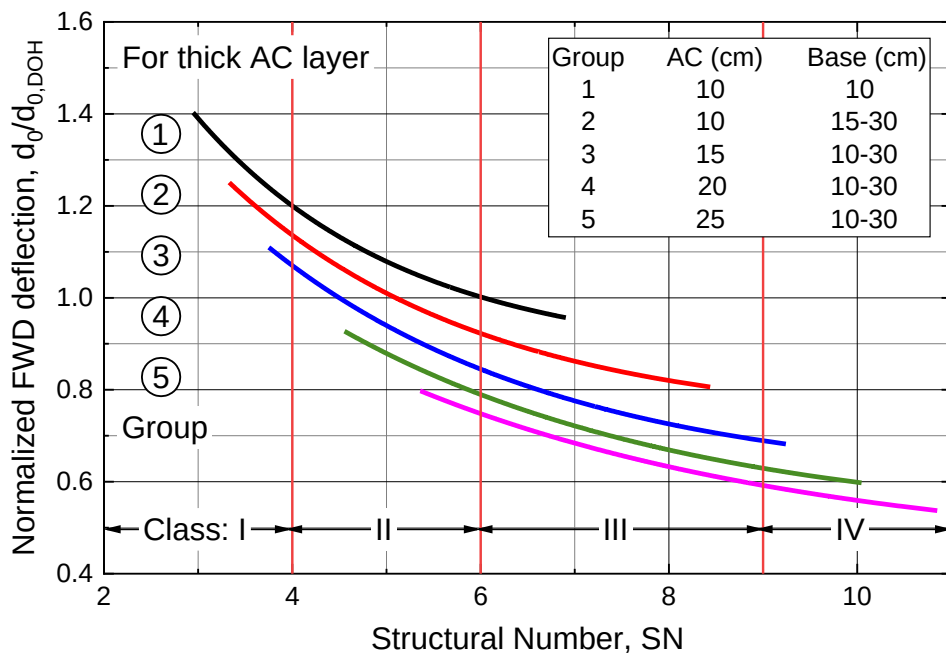
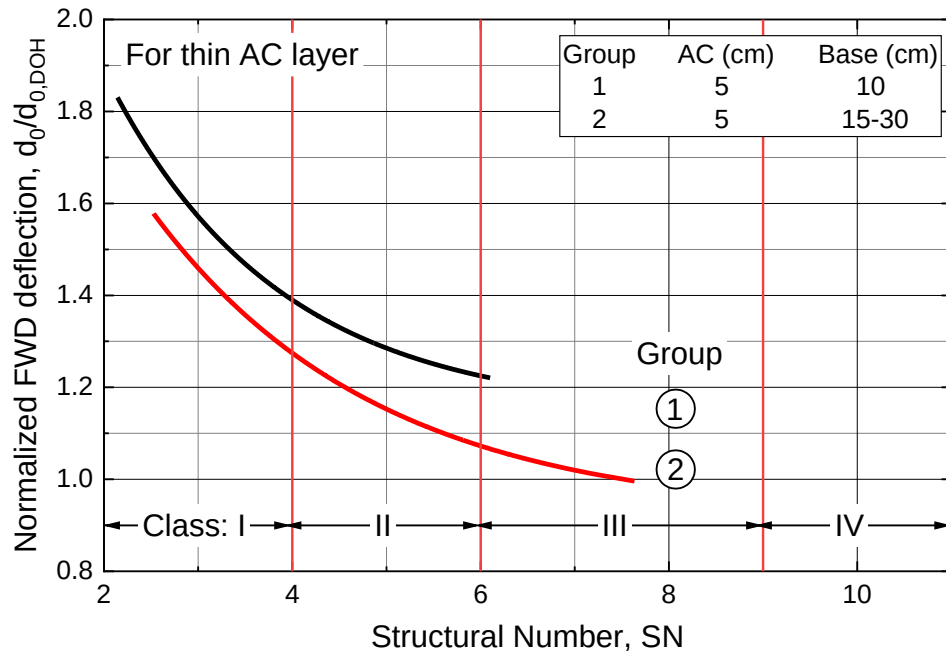
รูปที่ 4.6 ความสัมพันธ์ระหว่างค่า N_f เนื่องจากการยุบตัวของดินเดิม Subgrade (Permanent Deformation) กับค่า Normalized Deflection จากเครื่องมือ FWD สำหรับโครงสร้างผิวทางแอสฟัลต์คอนกรีตบาง (Thin AC Layer) และโครงสร้างผิวทางแอสฟัลต์คอนกรีตหนา (Thick AC Layer)

4.2 กราฟและตารางการออกแบบโครงสร้างถนนลาดยาง

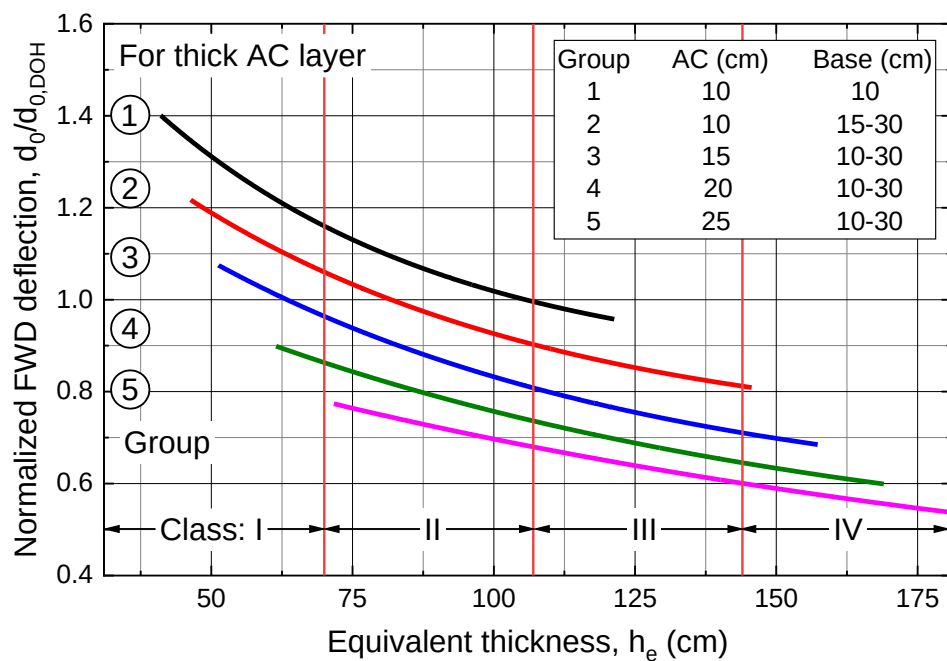
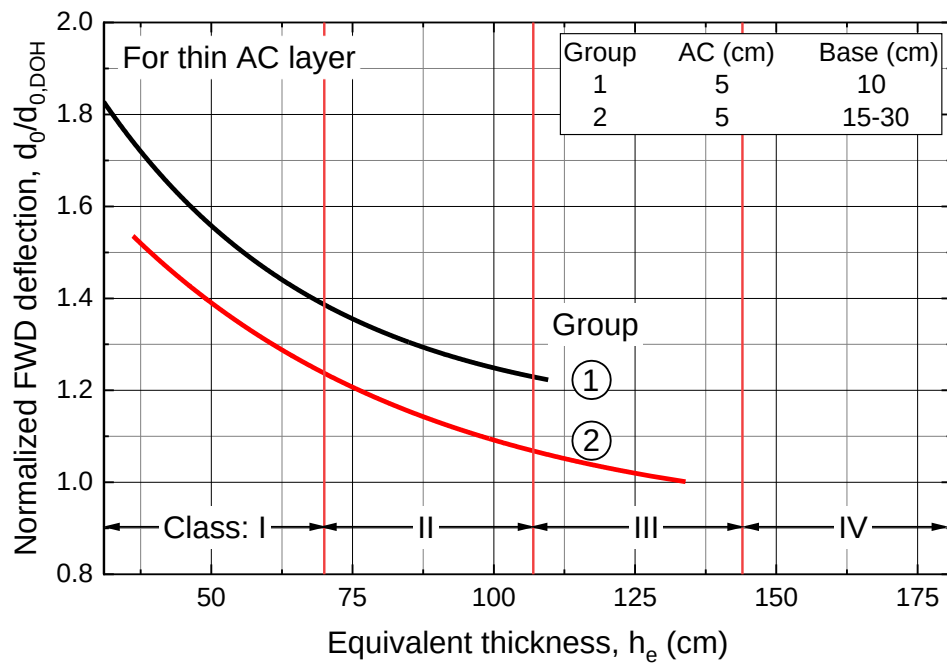
คณะผู้วิจัยจัดทำกราฟการออกแบบโครงสร้างถนนลาดยาง ตามข้อมูลที่ได้จากข้อ 3.4 โดยจัดกลุ่มเป็น 4 ชั้น (Class) ตามตารางที่ 3.2 สำหรับโครงสร้างผิวทางแอสฟัลต์คอนกรีตบาง (Thin AC Layer) และโครงสร้างผิวทางแอสฟัลต์คอนกรีตหนา (Thick AC Layer) ดังรูปที่ 4.7 ถึง 4.11 พร้อมตารางการออกแบบโครงสร้างถนนลาดยาง ดังตารางที่ 4.1 นอกจากนี้ คณะผู้วิจัยยังจัดทำกราฟและตารางการออกแบบโครงสร้างถนนลาดยางเพื่อเป็นทางเลือกไว้ในภาคผนวก จ



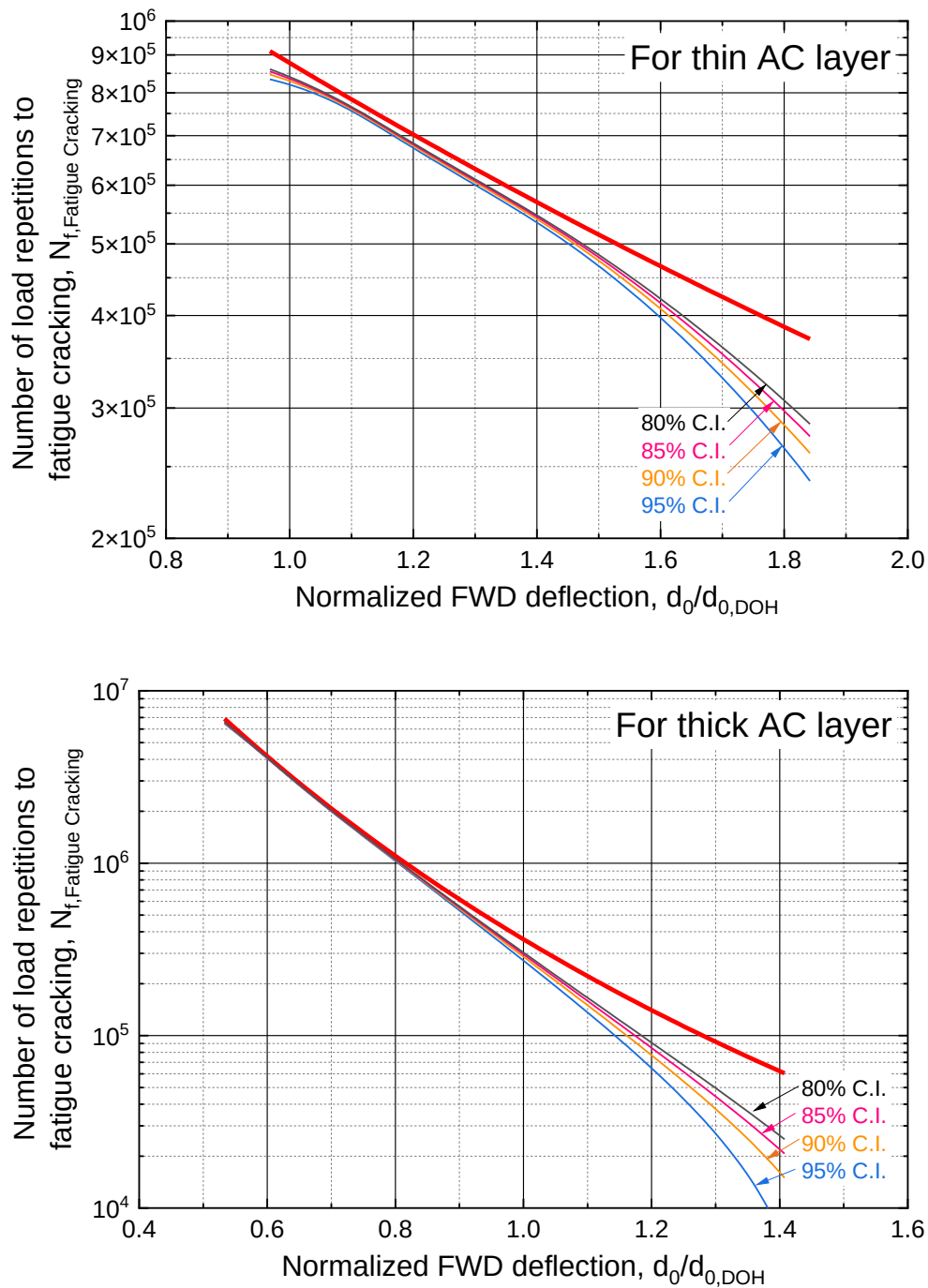
รูปที่ 4.7 กราฟความสัมพันธ์ระหว่างค่า Normalized Deflection กับค่า Full-Depth Asphalt (T_a) สำหรับโครงสร้างผิวทางแอสฟัลต์คอนกรีตบาง (Thin AC Layer) และโครงสร้างผิวทางแอสฟัลต์คอนกรีตหนา (Thick AC Layer)



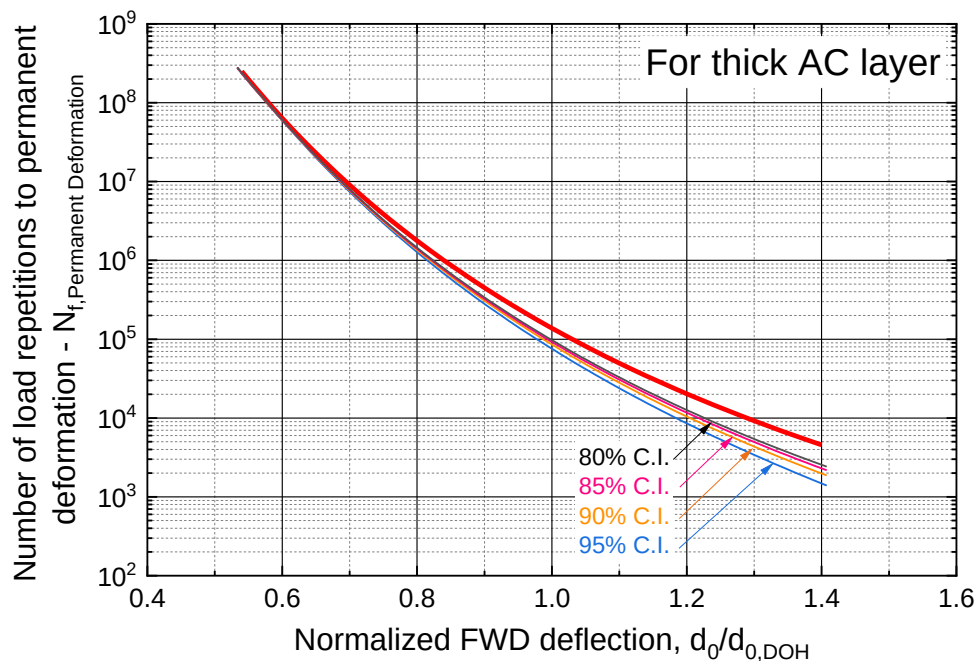
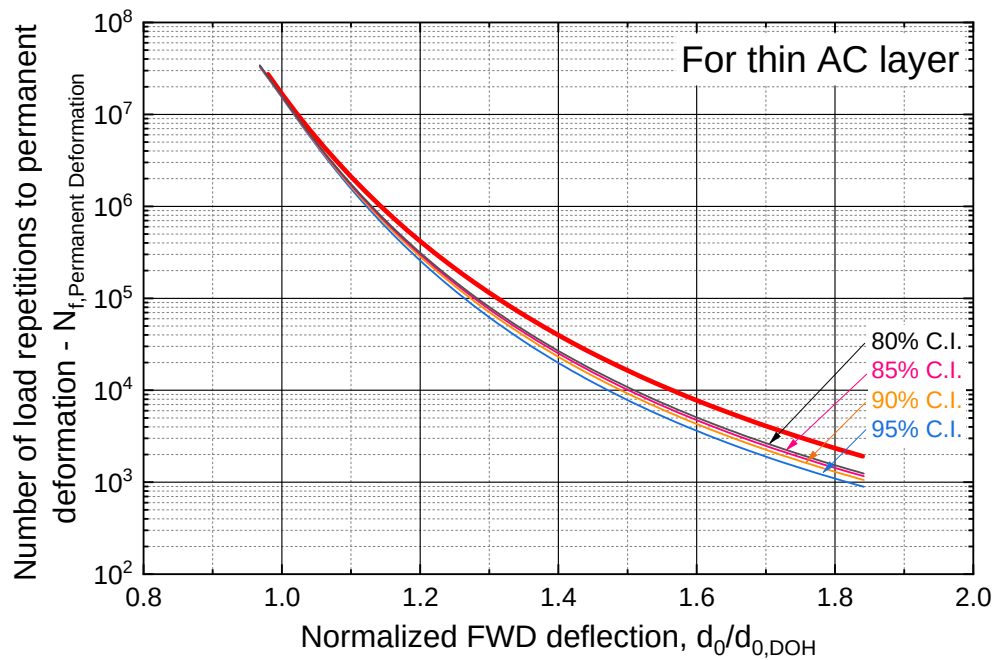
รูปที่ 4.8 กราฟความสัมพันธ์ระหว่างค่า Normalized Deflection กับค่า Structural Number (SN) สำหรับโครงสร้างผิวทางแอสฟัลต์คอนกรีตบาง (Thin AC Layer) และโครงสร้างผิวทางแอสฟัลต์คอนกรีตหนา (Thick AC Layer)



รูปที่ 4.9 กราฟความสัมพันธ์ระหว่างค่า Normalized Deflection กับค่า Equivalent Thickness (h_e) สำหรับโครงสร้างผิวทางแอสฟัลต์คอนกรีตบาง (Thin AC Layer) และโครงสร้างผิวทางแอสฟัลต์คอนกรีตหนา (Thick AC Layer)



รูปที่ 4.10 กราฟความสัมพันธ์ระหว่างค่า N_f เนื่องจากรอยแตกจากการล้าของผิวทางแอสฟัลต์คอนกรีต (Fatigue Cracking) กับค่า Normalized Deflection สำหรับโครงสร้างผิวทางแอสฟัลต์คอนกรีตบาง (Thin AC Layer) และโครงสร้างผิวทางแอสฟัลต์คอนกรีตหนา (Thick AC Layer)



รูปที่ 4.11 กราฟความสัมพันธ์ระหว่างค่า N_f เนื่องจากการยุบตัวของดินเดิม Subgrade (Permanent Deformation) กับค่า Normalized Deflection สำหรับโครงสร้างผิวทางแอสฟัลต์คอนกรีตบาง (Thin AC Layer) และโครงสร้างผิวทางแอสฟัลต์คอนกรีตหนา (Thick AC Layer)

ตารางที่ 4.1 ตารางการออกแบบโครงสร้างถนนลาดยางสำหรับโครงสร้างผิวทางแอสฟัลต์คอนกรีตบาง (Thin AC Layer) และโครงสร้างผิวทางแอสฟัลต์คอนกรีตหนา (Thick AC Layer)

(ก)

Class	Thin AC layer					
	$d_o/d_o, DOH$		N_f , Fatigue Cracking		N_f , Permanent Deformation	
	Min.	Max.	Min.	Max.	Min.	Max.
I	1.8	1.3	3.9×10^5	6.3×10^5	2.3×10^3	1.1×10^5
II	1.3	1.1	6.3×10^5	7.8×10^5	1.1×10^5	2.1×10^6
III	1.1	1.0	7.8×10^5	8.8×10^5	2.1×10^6	1.7×10^7
IV	N/A	N/A	N/A	N/A	N/A	N/A

Remark: N/A – Not available

(ข)

Class	Thick AC layer					
	$d_o/d_o, DOH$		N_f , Fatigue Cracking		N_f , Permanent Deformation	
	Min.	Max.	Min.	Max.	Min.	Max.
I	1.4	1.1	6.2×10^4	2.2×10^5	4.5×10^3	4.9×10^4
II	1.1	0.8	2.2×10^5	1.1×10^6	4.9×10^4	1.8×10^6
III	0.8	0.6	1.1×10^6	4.2×10^6	1.8×10^6	6.3×10^7
IV	0.6	0.5	4.2×10^6	8.9×10^6	6.3×10^7	6.9×10^8

4.3 เปรียบเทียบค่าการแอ่นตัวระหว่างค่าที่ได้จากกราฟและตารางกับค่าที่ได้จากเครื่องมือ

FWD

คณะผู้วิจัยทำการเปรียบเทียบค่าการแอ่นตัวที่ได้จากกราฟและตารางการออกแบบโครงสร้างถนนลาดยางในข้อ 3.5 กับค่าการแอ่นตัวที่ได้จากการทดสอบด้วยเครื่องมือ FWD ในข้อ 3.1 โดยจะเลือกใช้ค่า Normalized Deflection ($d_o/d_o, DOH$) หรืออัตราส่วนของค่าการแอ่นตัวของโครงสร้างถนนลาดยาง (d_o) ต่อค่าการแอ่นตัวของโครงสร้างถนนลาดยางทั่วไปของกรมทางหลวง (d_o, DOH) ซึ่งประกอบด้วย ผิวทางแอสฟัลต์คอนกรีตหนา 100 มิลลิเมตร พื้นทางหินคลุกหนา 200 มิลลิเมตร รองพื้นทางวัสดุมวลรวมหนา 200 มิลลิเมตร และวัสดุคัดเลือกหนา 200 มิลลิเมตร เพื่อสามารถเปรียบเทียบกับข้อมูลค่าการแอ่นตัวที่ได้จากการทดสอบด้วยเครื่องมือ FWD ของสำนักวิจัยและพัฒนาทางกรมทางหลวง และข้อมูลแบบรูปตัดโครงสร้างถนนลาดยาง ซึ่งมีข้อมูลการวิเคราะห์และทดสอบด้วยเครื่องมือ FWD ของสำนักวิจัยและพัฒนาทาง ตั้งแต่ปี พ.ศ. 2560 จนถึงปัจจุบัน จำนวนทั้งสิ้น 21

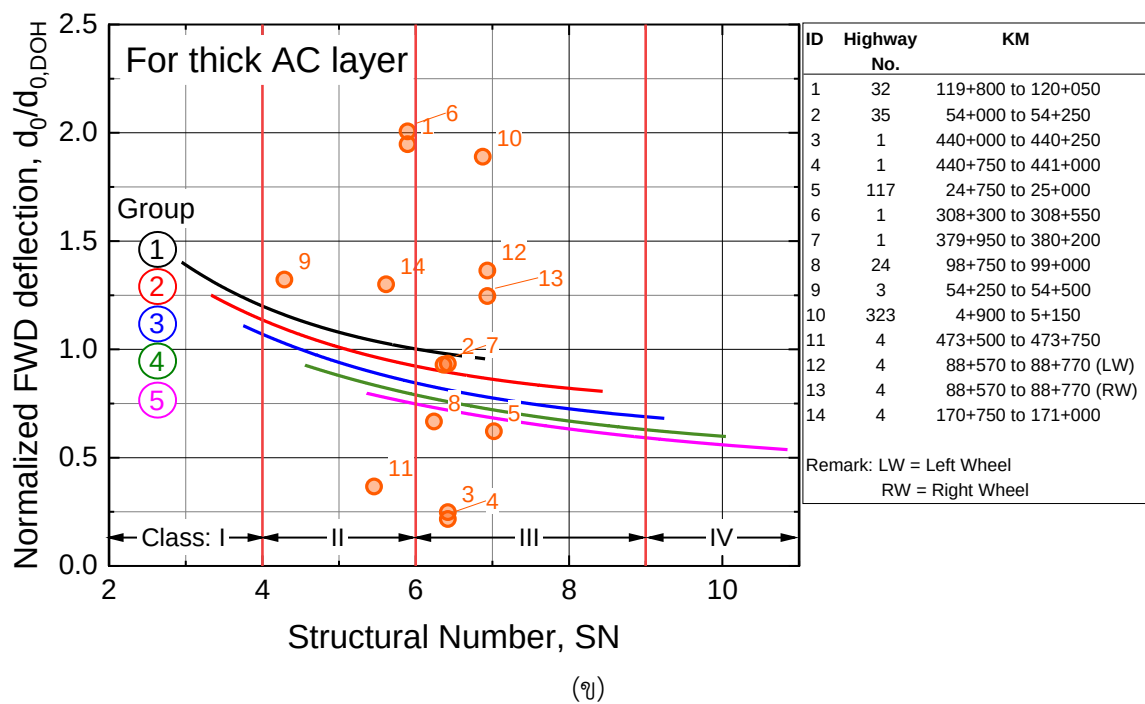
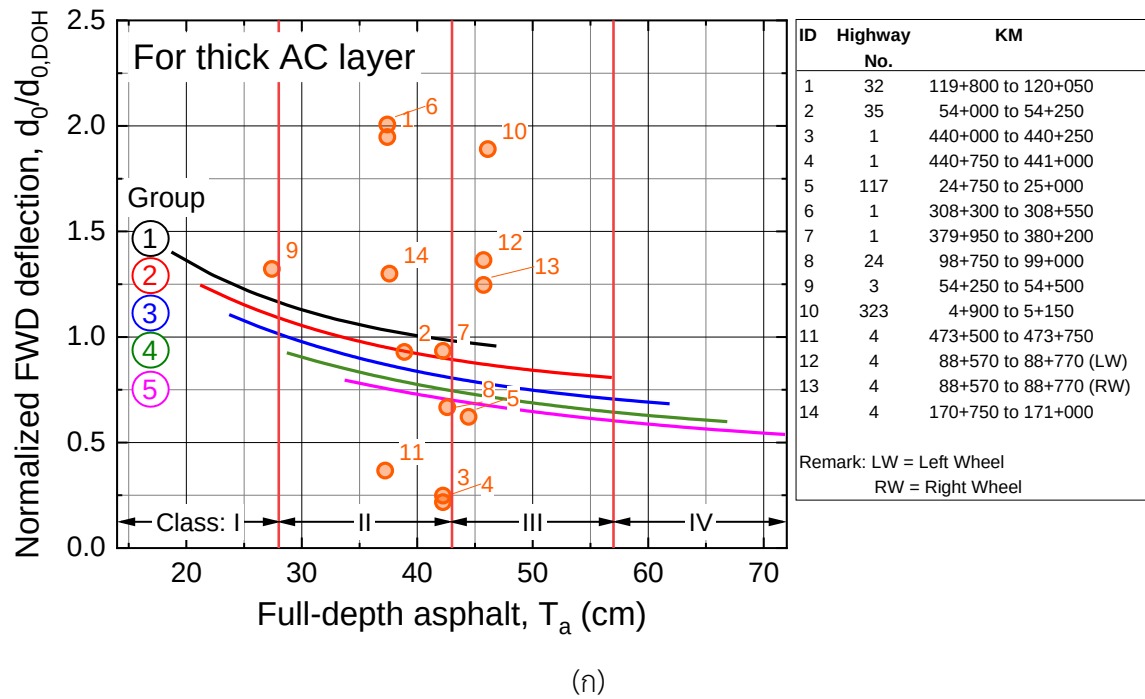
แปลงเก็บข้อมูล ดังนี้ (1) ทางหลวงหมายเลข 32 แขวงทางหลวงชัยนาท กม.119+800 – กม.120+050 (ขาเข้า) (2) ทางหลวงหมายเลข 35 แขวงทางหลวงสมุทรสาคร กม.54+000 – กม.54+250 (ขาออก) (3) ทางหลวงหมายเลข 1 แขวงทางหลวงกำแพงเพชร กม.440+000 – กม.440+250 (ขาออก) (4) ทางหลวงหมายเลข 1 แขวงทางหลวงกำแพงเพชร กม.440+750 – กม.441+000 (ขาเข้า) (5) ทางหลวงหมายเลข 117 แขวงทางหลวงนครสวรรค์ กม.24+750 – กม.25+000 (ขาเข้า) (6) ทางหลวงหมายเลข 1 แขวงทางหลวงนครสวรรค์ กม.308+300 – กม.308+550 (ขาออก) (7) ทางหลวงหมายเลข 1 แขวงทางหลวงนครสวรรค์ กม.379+950 – กม.380+200 (ขาเข้า) (8) ทางหลวงหมายเลข 2 แขวงทางหลวงขอนแก่น กม.268+100 – กม.268+350 (ขาออก) (9) ทางหลวงหมายเลข 24 แขวงทางหลวงบุรีรัมย์ กม.98+750 – กม.99+000 (ขาเข้า) (10) ทางหลวงหมายเลข 2 แขวงทางหลวงสระบุรี กม.17+750 – กม.18+000 (ขาเข้า) (11) ทางหลวงหมายเลข 2 แขวงทางหลวงนครราชสีมา กม.168+750 – กม.169+000 (ขาเข้า) (12) ทางหลวงหมายเลข 2 แขวงทางหลวงนครราชสีมา กม.94+950 – กม.95+200 (ขาเข้า) (13) ทางหลวงหมายเลข 3 แขวงทางหลวงชลบุรี กม.54+250 – กม.54+500 (ขาเข้า) (14) ทางหลวงหมายเลข 311 แขวงทางหลวงชลบุรี กม.47+060 – กม.47+300 (ขาเข้า) (15) ทางหลวงหมายเลข 33 แขวงทางหลวงสระแก้ว กม.267+000 – กม.267+250 (ขาออก) (16) ทางหลวงหมายเลข 36 แขวงทางหลวงระยอง กม.28+575 – กม.28+825 (ขาเข้า) (17) ทางหลวงหมายเลข 323 แขวงทางหลวงราชบุรี กม.4+900 – กม.5+150 (ขาเข้า) (18) ทางหลวงหมายเลข 4 แขวงทางหลวงชุมพร กม.473+500 – กม.473+750 (ขาออก) (19) ทางหลวงหมายเลข 4 แขวงทางหลวงราชบุรี กม.88+570 – กม.88+770 (ขาเข้า) (ทดสอบทั้งแนวล้อซ้ายและแนวล้อขวา) (20) ทางหลวงหมายเลข 4 แขวงทางหลวงประจวบคีรีขันธ์ กม.304+750 – กม.305+000 (ขาเข้า) (21) ทางหลวงหมายเลข 4 แขวงทางหลวงเพชรบุรี กม.170+750 – กม.171+000 (ขาออก) รวมจำนวนข้อมูลการวิเคราะห์และทดสอบด้วยเครื่องมือ FWD ได้ทั้งหมด 22 ชุด รายละเอียดสรุปไว้ในภาคผนวก ก

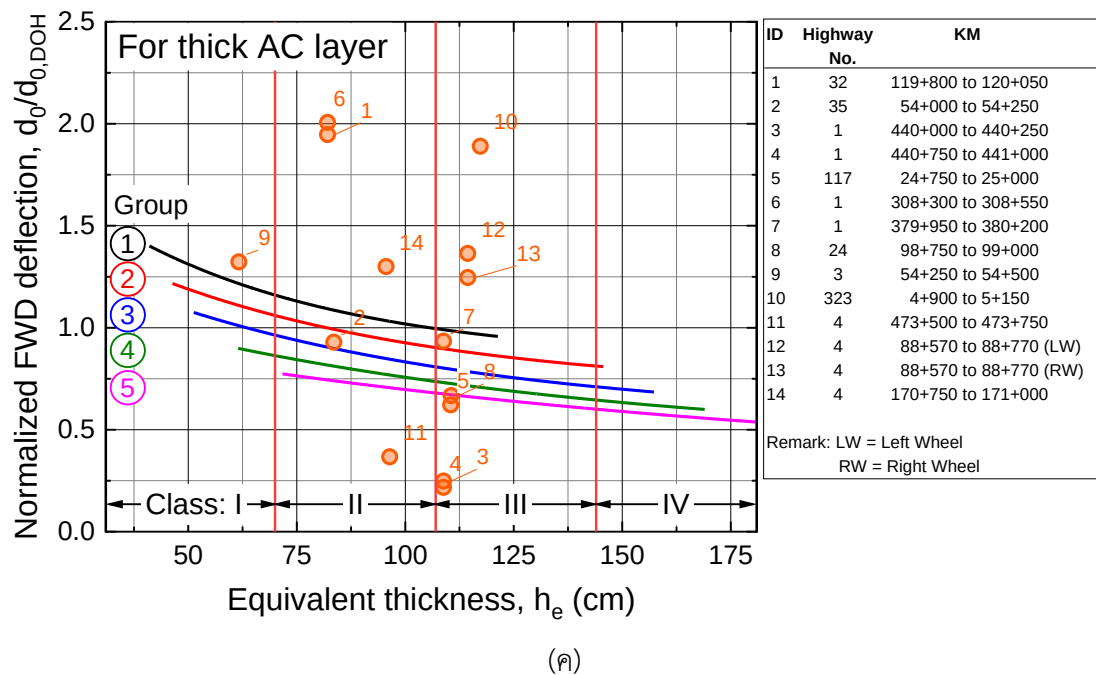
จากการตรวจสอบข้อมูลแบบรูปตัดโครงสร้างชั้นทางทั้ง 21 แปลงเก็บข้อมูล ซึ่งมีข้อมูลค่าการแอ่นตัวที่ได้จากการทดสอบด้วยเครื่องมือ FWD ของสำนักวิจัยและพัฒนาทาง กรมทางหลวง คณะผู้วิจัยพิจารณาคัดเลือกโครงสร้างถนนลาดยาง ประกอบด้วย ผิวทางแอสฟัลต์คอนกรีตหนา 100 มิลลิเมตร พื้นทางหินคลุกหนา 200 มิลลิเมตร รองพื้นทางวัสดุมวลรวมหนา 150 มิลลิเมตร และวัสดุคัดเลือกหนา 150 มิลลิเมตร ซึ่งมีรูปแบบโครงสร้างถนนลาดยางใกล้เคียงกับโครงสร้างถนนลาดยางทั่วไปของกรมทางหลวงมากที่สุด กล่าวคือโครงสร้างถนนลาดยาง ประกอบด้วย ผิวทางแอสฟัลต์คอนกรีตหนา 100 มิลลิเมตร พื้นทางหินคลุกหนา 200 มิลลิเมตร รองพื้นทางวัสดุมวลรวมหนา 200 มิลลิเมตร และวัสดุคัดเลือกหนา 200 มิลลิเมตร จำนวนทั้งสิ้น 4 แปลง ดังนี้ (1) ทางหลวงหมายเลข 2 แขวงทางหลวงขอนแก่น กม.268+100 – กม.268+350 (ขาออก) (2) ทางหลวงหมายเลข 311 แขวงทางหลวงชลบุรี กม.47+060 – กม.47+300 (ขาเข้า) (3) ทางหลวงหมายเลข 36 แขวงทางหลวงระยอง กม.28+575 –

กม.28+825 (ขาเข้า) และ (4) ทางหลวงหมายเลข 4 แขวงทางหลวงประจวบคีรีขันธ์ กม.304+750 – กม.305+000 (ขาเข้า) ค่าการแอ่นตัวของโครงสร้างถนนลาดยางที่ได้จากการทดสอบด้วยเครื่องมือ FWD ซึ่งเฉลี่ยจาก 4 แปลงนี้ เท่ากับ 228.32 ไมครอน จะถือเป็นค่าการแอ่นตัวของโครงสร้างถนนลาดยางทั่วไปของกรมทางหลวง ($d_{o,DOH}$) ทั้งนี้แปลงซึ่งเป็นโครงสร้างถนนคอนกรีต และแปลงซึ่งไม่มีข้อมูลแบบรูปตัดโครงสร้างชั้นทาง จำนวนทั้งสิ้น 4 แปลง ได้แก่ (1) ทางหลวงหมายเลข 2 แขวงทางหลวงสระบุรี กม.17+750 – กม.18+000 (ขาเข้า) (2) ทางหลวงหมายเลข 2 แขวงทางหลวงนครราชสีมา กม.168+750 – กม.169+000 (ขาเข้า) (3) ทางหลวงหมายเลข 2 แขวงทางหลวงนครราชสีมา กม.94+950 – กม.95+200 (ขาเข้า) และ (4) ทางหลวงหมายเลข 33 แขวงทางหลวงสระแก้ว กม.267+000 – กม.267+250 (ขาออก) จะไม่นำมาพิจารณาในการวิเคราะห์ ดังนั้น เมื่อไม่รวมข้อมูลจำนวน 4 ชุดที่นำมาคำนวณค่าการแอ่นตัวของโครงสร้างถนนลาดยางทั่วไปของกรมทางหลวง ($d_{o,DOH}$) และไม่รวมข้อมูลจำนวนอีก 4 ชุด จากแปลงซึ่งเป็นโครงสร้างถนนคอนกรีต และแปลงซึ่งไม่มีข้อมูลแบบรูปตัดโครงสร้างชั้นทาง จะเหลือข้อมูลให้ทำการเปรียบเทียบ เป็นจำนวนทั้งสิ้น 14 ชุด

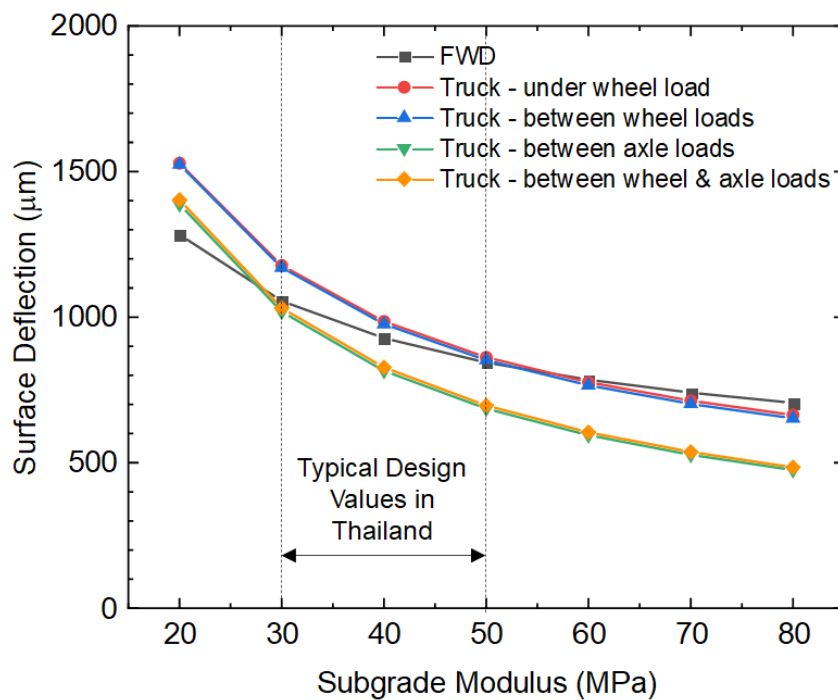
ผลการเปรียบเทียบแสดงดังรูปที่ 4.12 จากกราฟแสดงให้เห็นว่า โครงสร้างถนนลาดยางของแปลงเก็บข้อมูลส่วนใหญ่จัดอยู่ในประเภทโครงสร้างถนนลาดยางชั้น 2 (Class II) และชั้น 3 (Class III) โดยโครงสร้างถนนลาดยางของแปลงเก็บข้อมูลมีทั้งแข็งแรงกว่า (ค่า $d_o/d_{o,DOH} < 0.5$) และอ่อนแอกว่า (ค่า $d_o/d_{o,DOH} > 1.5$) โครงสร้างถนนลาดยางทั่วไปของกรมทางหลวง รายละเอียดข้อมูลค่าการแอ่นตัวที่ได้จากการทดสอบด้วยเครื่องมือ FWD พร้อมข้อมูลแบบรูปตัดโครงสร้างถนนลาดยาง ซึ่งมีข้อมูลการวิเคราะห์และทดสอบด้วยเครื่องมือ FWD ของสำนักวิจัยและพัฒนาทาง ตั้งแต่ปี พ.ศ. 2560 จนถึงปัจจุบัน รวบรวมไว้ในภาคผนวก ง

เนื่องจากการศึกษาครั้งนี้ สมมุติค่าโมดูลัสยืดหยุ่น (E) ของดินเดิม Subgrade เท่ากับ 40 MPa (CBR = 4%) ทั้งนี้ค่า CBR ของดินเดิม Subgrade ที่ใช้ออกแบบโครงสร้างถนนลาดยางของประเทศไทย มักมีค่าโดยทั่วไปอยู่ระหว่าง 3 ถึง 5% คณะผู้วิจัยจึงได้ศึกษาอิทธิพลของค่า E ของดินเดิม Subgrade ที่มีต่อค่าการแอ่นตัวของโครงสร้างถนนลาดยาง โดยพัฒนากราฟความสัมพันธ์ระหว่างค่าการแอ่นตัว (d_o) กับค่า E ของดินเดิม Subgrade โดยใช้วิธีการวิเคราะห์ LEA ดังแสดงในรูปที่ 4.13 และเปรียบเทียบค่า $d_o/d_{o,DOH}$ ที่ได้จากการทดสอบในสนามกับค่า $d_o/d_{o,DOH}$ ที่ได้จากการวิเคราะห์ LEA ดังแสดงในรูปที่ 4.14 จากผลการศึกษาพบว่า ค่า E ของดินเดิม Subgrade มีอิทธิพลต่อค่า d_o เพียงเล็กน้อย ความแตกต่างระหว่างค่า d_o ของโครงสร้างถนนลาดยางเหนือดินเดิม Subgrade ซึ่งมีค่า E = 40 MPa กับค่า d_o ของโครงสร้างถนนลาดยางเหนือดินเดิม Subgrade ซึ่งมีค่า E = 30 และ 50 MPa ประมาณ 9-14% อิทธิพลของค่า E ของดินเดิม Subgrade มีผลต่อกราฟความสัมพันธ์ระหว่างค่า $d_o/d_{o,DOH}$ ที่ได้จากการทดสอบในสนามกับค่า $d_o/d_{o,DOH}$ ที่ได้จากการวิเคราะห์ LEA เพียงเล็กน้อยเช่นกัน

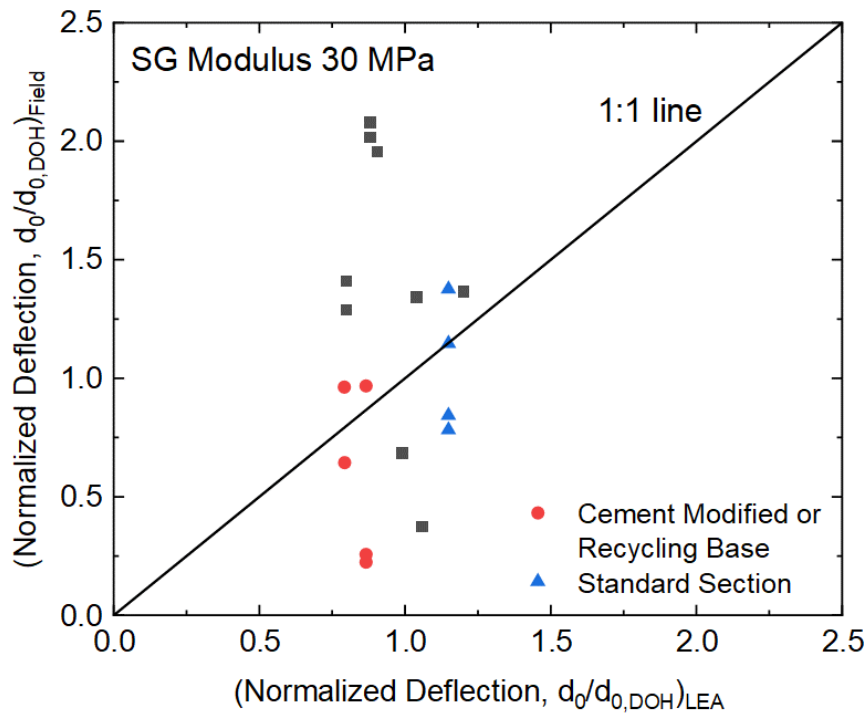




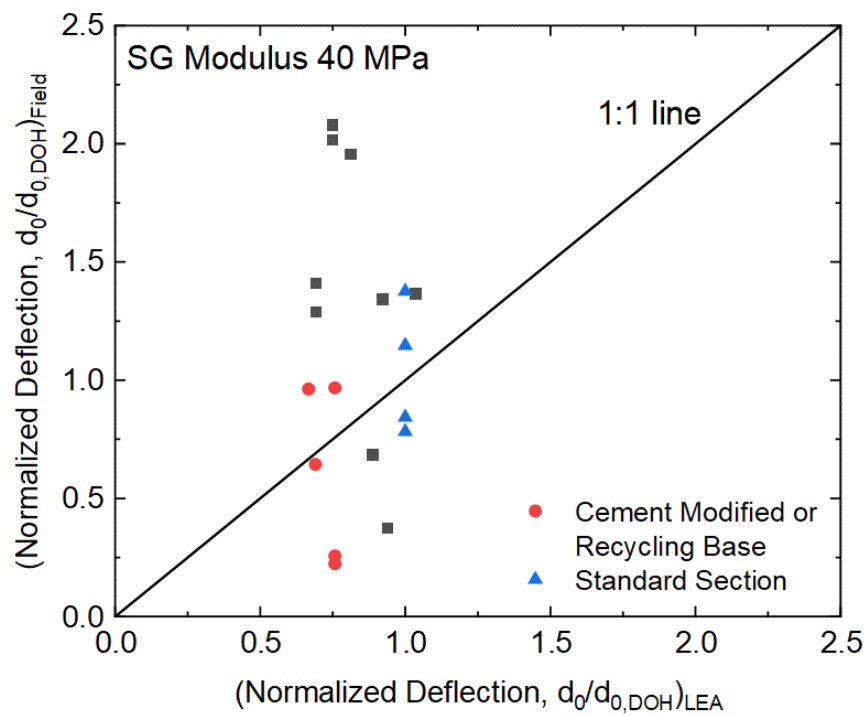
รูปที่ 4.12 การเปรียบเทียบค่าการแอ่นตัวที่ได้จากกราฟกับค่าการแอ่นตัวที่ได้จากการทดสอบด้วยเครื่องมือ FWD



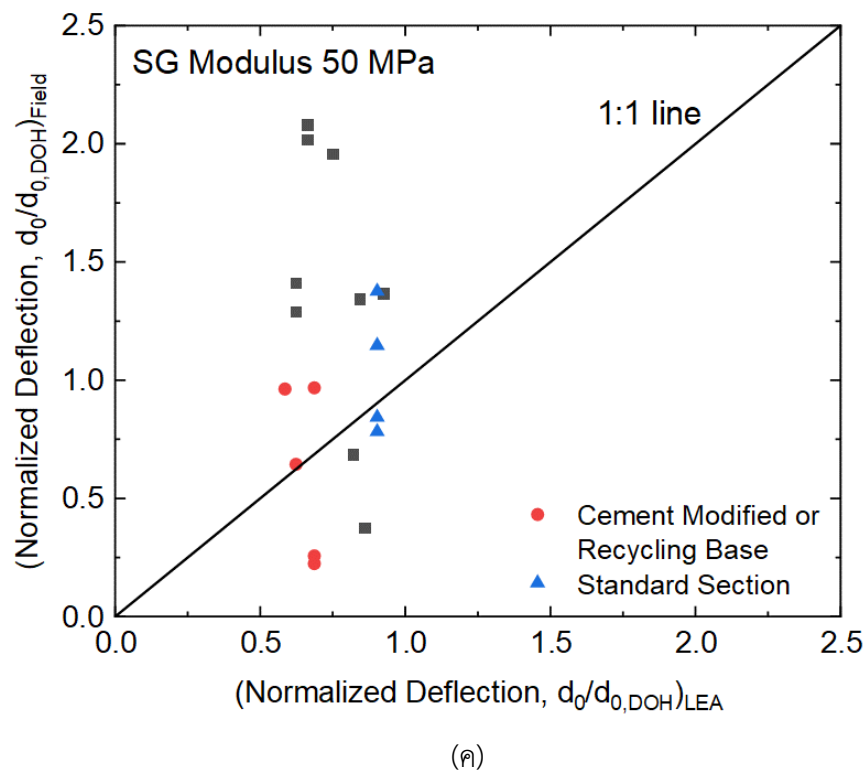
รูปที่ 4.13 อิทธิพลของค่า E ของดินเดิม Subgrade ที่มีต่อค่าการแอ่นตัวของโครงสร้างถนนลาดยาง โดยใช้วิธีการวิเคราะห์ LEA



(ก)



(ข)



รูปที่ 4.14 อิทธิพลของค่า E ของดินเดิม Subgrade ต่อความสัมพันธ์ระหว่างค่า $d_o/d_{o,DOH}$ ที่ได้จากการทดสอบในสนามกับค่า $d_o/d_{o,DOH}$ ที่ได้จากการวิเคราะห์ LEA

บทที่ 5

สรุปผลการศึกษา

5.1 สรุปผล

กรมทางหลวงอ้างอิงวิธีการออกแบบก่อสร้างและบูรณะโครงสร้างถนนของประเทศสหรัฐอเมริกาเป็นเวลายาวนาน พฤติกรรมการตอบสนองของโครงสร้างถนนอันเกิดจากน้ำหนักบรรทุกทุกไทย สภาพการใช้งาน การก่อสร้าง สภาพวัสดุ สภาพจราจร สภาพแวดล้อม สภาพภูมิอากาศ เงื่อนไขและบริบทของประเทศไทย แตกต่างจากฐานข้อมูลในต่างประเทศ นอกจากนี้การเพิ่มขึ้นของปริมาณจราจรและน้ำหนักของรถบรรทุกภายในประเทศและประเทศในภูมิภาคอาเซียน ยังส่งผลให้โครงสร้างถนนของกรมทางหลวงเกิดความเสียหายก่อนกำหนดอายุการออกแบบ ดังนั้นโครงการวิจัยเพื่อจัดทำข้อกำหนดและวิธีการออกแบบโครงสร้างถนนลาดยางสำหรับประเทศไทย จึงมีความสำคัญต่องานวิจัยและพัฒนาวิธีการออกแบบก่อสร้างและบูรณะโครงสร้างถนนของกรมทางหลวง ซึ่งเป็นหน่วยงานในสังกัดกระทรวงคมนาคม มีภารกิจหลักเกี่ยวกับการพัฒนาโครงสร้างพื้นฐานด้านทางหลวง การก่อสร้างและบำรุงรักษาทางหลวงให้มีโครงข่ายทางหลวงที่สมบูรณ์ครอบคลุมทั่วทั้งประเทศและเชื่อมโยงกับประเทศเพื่อนบ้านเพื่อให้ประชาชนได้รับความสะดวก รวดเร็ว และปลอดภัยในการเดินทาง

โครงการนี้ได้ศึกษาวิธีการนำค่าการแอ่นตัวที่ได้จากการทดสอบด้วยเครื่องมือ Falling Weight Deflectometer (FWD) มาใช้ในการออกแบบความหนาของโครงสร้างถนนลาดยางและพัฒนาวิธีการออกแบบโครงสร้างถนนลาดยางภายใต้เงื่อนไขสภาพแวดล้อม วัสดุ และปริมาณจราจรของประเทศไทย การดำเนินงานประกอบด้วย 1. การรวบรวมค่าการแอ่นตัวของโครงสร้างถนนลาดยางที่ได้จากการทดสอบด้วยเครื่องมือ FWD 2. การจัดทำรูปแบบโครงสร้างถนนลาดยางตามวิธีการออกแบบของ Asphalt Institute (AI), American Association of State Highway and Transportation Officials (AASHTO) และ Odemark's Method of Equivalent Thickness (MET) 3. การคำนวณค่าการแอ่นตัว ค่าความเค้น และค่าความเครียดของโครงสร้างถนนลาดยางด้วยวิธี Numerical Analysis 4. การพัฒนากราฟความสัมพันธ์ระหว่างค่าการแอ่นตัว (Normalized FWD deflection, $d_o/d_{o,DOH}$) กับตัวแปรการออกแบบความหนาของโครงสร้างถนนลาดยางประกอบด้วย T_A , SN และ h_e ตามวิธีของ AI, AASHTO และ MET ตามลำดับ 5. การจัดทำกราฟความสัมพันธ์ระหว่างค่า $d_o/d_{o,DOH}$ กับค่า T_A , SN และ h_e และกราฟความสัมพันธ์ระหว่างจำนวนเที่ยวของน้ำหนักกระทำซ้ำที่ยอมให้ (Allowable Number of Load Repetitions, N_p) กับค่า $d_o/d_{o,DOH}$ รวมถึงการจัดทำตารางเพื่อการออกแบบความหนาของโครงสร้างถนนลาดยาง 6. การเปรียบเทียบระหว่างค่าการแอ่นตัวที่ได้จากกราฟการออกแบบกับค่าการแอ่นตัวที่ได้จากการทดสอบด้วยเครื่องมือ FWD และ 7. การเสนอแนวทางการออกแบบโครงสร้างถนนลาดยางสำหรับประเทศไทย ดังนั้นจึงสรุปได้ว่า โครงการนี้ได้นำค่าการแอ่นตัวที่ได้จากการทดสอบด้วยเครื่องมือ

FWD มาใช้ในการออกแบบความหนาของโครงสร้างถนนลาดยาง และพัฒนาวิธีการออกแบบโครงสร้างถนนลาดยางภายใต้เงื่อนไขสภาพแวดล้อม วัสดุ และปริมาณจราจรของประเทศไทยได้สำเร็จแล้ว

5.2 ตัวอย่างวิธีการออกแบบ

ตัวอย่างการออกแบบโครงสร้างถนนลาดยางโดยวิธีเชิงวิเคราะห์ อ้างอิงตามคู่มือการออกแบบและวิเคราะห์โครงสร้างชั้นทางและเสถียรภาพคันทาง สำนักวิจัยและพัฒนาทาง กรมทางหลวง (2556)

- ถนนลาดยางขนาด 4 จราจร (ไป 2 ช่องจราจร กลับ 2 ช่องจราจร)
- ปริมาณจราจรเฉลี่ย 2000 คันต่อวัน
- ปริมาณรถบรรทุกหนัก ร้อยละ 15
- อัตราการเพิ่มขึ้นของปริมาณจราจรเฉลี่ย 4% ต่อปี
- CBR ของดินเดิม Subgrade 3%
- รถบรรทุกสี่ล้อ 25 คัน และน้ำหนักรถบรรทุก 10 ตัน
- อายุการออกแบบ 15 ปี

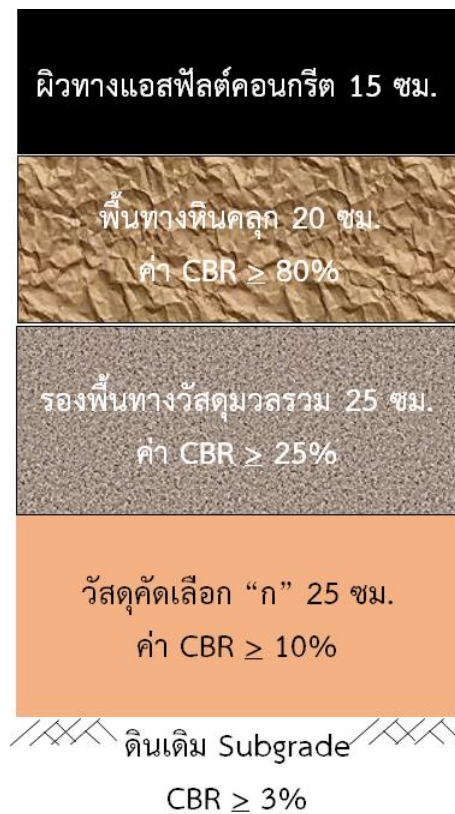
ปริมาณจราจร ESALs ที่ใช้ออกแบบ

$$\begin{aligned} \text{ESALs} &= \text{ADT} \times T \times \text{TF} \times D \times L \times G \times Y \times 365 \\ &= 2,000 \times 0.15 \times 1.0 \times 0.5 \times 0.9 \times 20.0 \times 365 \\ &= 0.98 \text{ ล้านเที่ยว} \end{aligned}$$

คำนวณค่าโมดูลัสยืดหยุ่นของดินเดิม Subgrade

$$\begin{aligned} E &= 10 \times \text{CBR} \\ &= 10 \times 3 \\ &= 30 \text{ MPa} \end{aligned}$$

เสนอแบบรูปตัดแนะนำโครงสร้างชั้นทางและเลือกวัสดุที่ใช้ก่อสร้างโครงสร้างชั้นทาง



รูปที่ 5.1 แบบรูปตัดแนะนำโครงสร้างชั้นทาง

ตารางที่ 5.1 วัสดุที่ใช้ก่อสร้างโครงสร้างชั้นทาง

วัสดุชั้นทาง	ความหนา (มม.)	โมดูลัสยืดหยุ่น (MPa)	อัตราส่วนปัวซอง
ผิวทางแอสฟัลต์คอนกรีต	150	2,500	0.35
พื้นทางหินคลุก (CBR $\geq 80\%$)	200	350	0.35
รองพื้นทางวัสดุผสมรวม (CBR $\geq 25\%$)	250	150	0.35
วัสดุคัดเลือก (CBR $\geq 10\%$)	250	100	0.35
ดินเดิม Subgrade (CBR = 3%)	-	30	0.40

ผลการวิเคราะห์ความเสียหายของโครงสร้างชั้นทาง โดยใช้โปรแกรม KENLAYER

แรงดันลมยาง = 690 kPa

รถบรรทุกสิบล้อ 25 ตัน และ น้ำหนักลงเพลาล้อ 10 ตัน

ระยะห่างระหว่างล้อ = 350 มม.

ค่า Horizontal Tensile Strain (ϵ_t) ใต้ผิวทางแอสฟัลต์คอนกรีต = 194 $\mu\epsilon$

ค่า Vertical Compressive Strain (ϵ_c) เหนือชั้นดินเดิม Subgrade = 345 $\mu\epsilon$

คำนวณจำนวนเที่ยวของน้ำหนักระทำซ้ำที่ยอมให้โดยไม่เกิดรอยแตกจากการล้าของผิวทางแอสฟัลต์คอนกรีต (Fatigue Cracking) จากแบบจำลองความเสียหายในสมการที่ 3.6 (Huang, 2004):

$$AI (1982) : N_{f, cracking} = 0.0796 (\epsilon_t)^{-3.291} (E)^{-0.854} = 2.36 \text{ ล้านเที่ยว} > 0.98 \text{ ล้านเที่ยว}$$

คำนวณจำนวนเที่ยวของน้ำหนักระทำซ้ำที่ยอมให้โดยไม่เกิดการยุบตัวของดินเดิม Subgrade (Permanent Deformation หรือ Rutting) จากแบบจำลองความเสียหายในสมการที่ 3.7 (Huang, 2004):

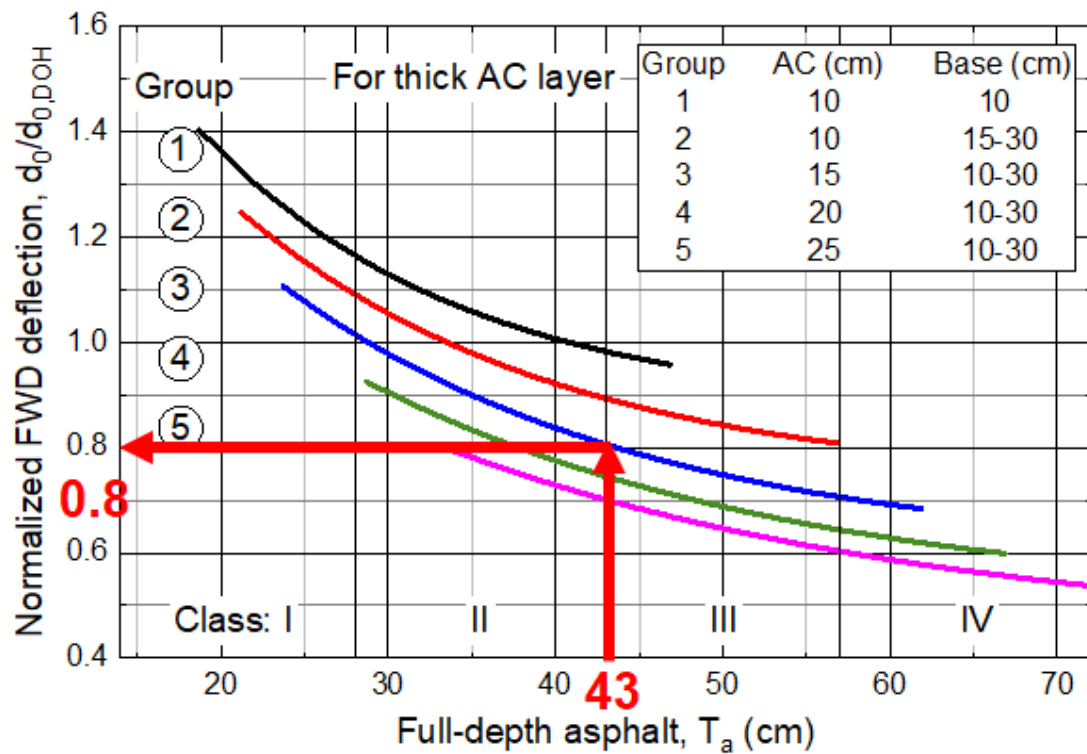
$$AI (1982) : N_{f, rutting} = 1.365 \times 10^{-9} (\epsilon_c)^{-4.477} = 4.34 \text{ ล้านเที่ยว} > 0.98 \text{ ล้านเที่ยว}$$

แสดงว่าแบบรูปัดัดแนะนำโครงสร้างชั้นทางมีความเหมาะสม

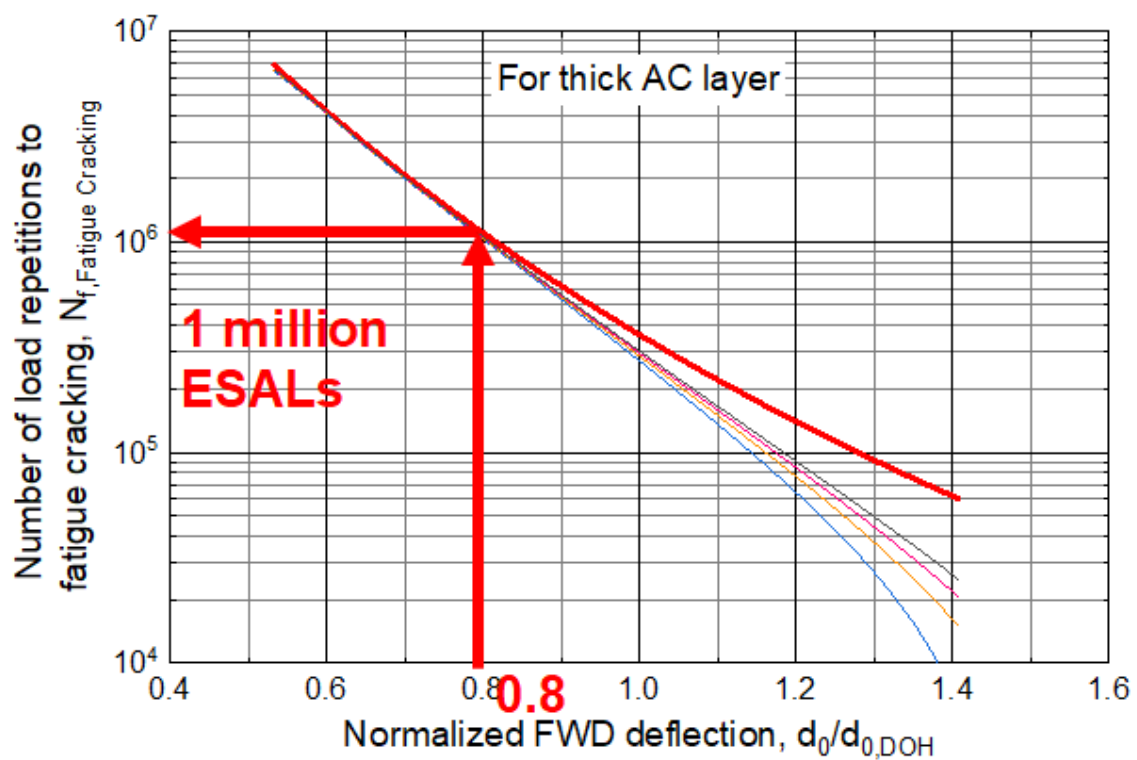
จากแบบรูปัดัดแนะนำโครงสร้างชั้นทางในรูปที่ 5.1 คำนวณความหนาของโครงสร้างถนนลาดยาง ได้ดังนี้ (1) Full-Depth Asphalt (T_A) = 43 ตามวิธีการออกแบบของ AI (1970) (2) Structural Number (SN) = 6 ตามวิธีการออกแบบของ AASHTO (1993) และ (3) Equivalent Thickness (h_e) = 107 ตามวิธีการออกแบบของ Odemark

Thickness (cm)	Young's Modulus (Mpa)	Poisson's Ratio	a_i	SN_i	SN	t_{ai} (cm)	t_a (cm)	h_{ei} (m)	h_e (m)
15	2500	0.35	0.408	2.411	6.418	15.000	42.593	28.888	107.275
20	350	0.35	0.195	1.533		10.000		51.874	
25	150	0.35	0.146	1.433		9.259		82.275	
25	100	0.35	0.106	1.040		8.333		107.275	
-	40	0.40							

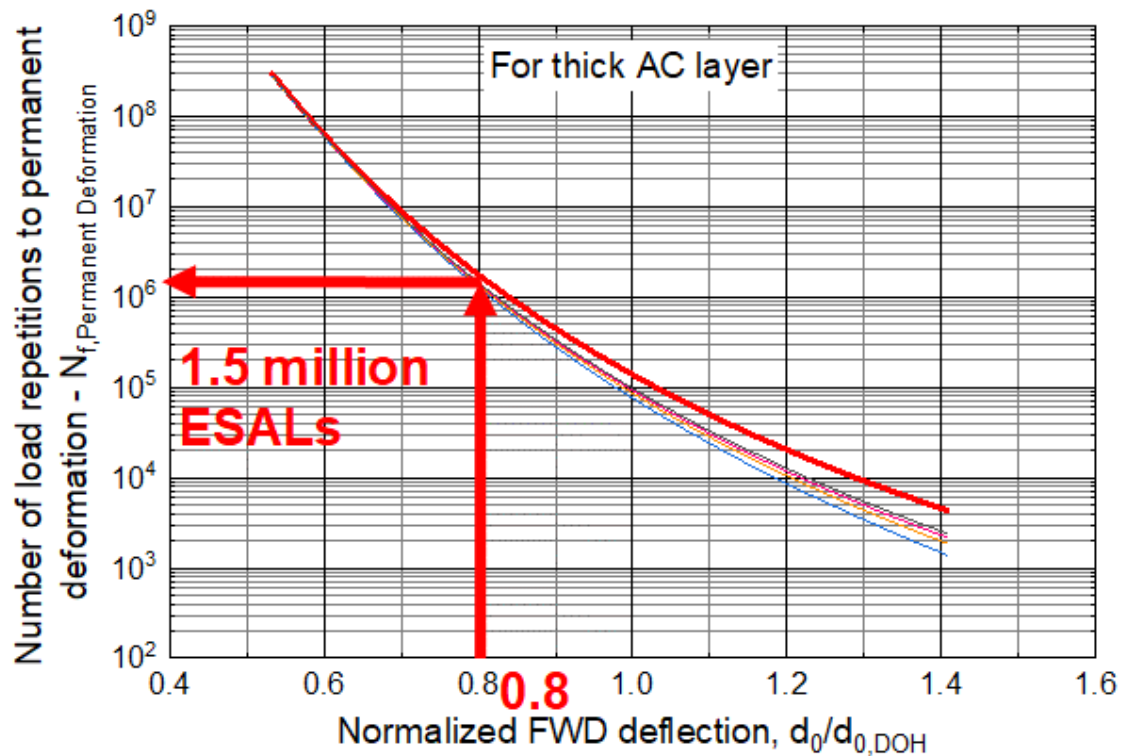
จากตารางที่ 3.2 แบบรูปัดัดแนะนำโครงสร้างถนนลาดยางในรูปที่ 5.1 จัดอยู่ในประเภทโครงสร้างถนนลาดยางชั้น 3 (Class III) กลุ่ม 3 ดังนั้น จะได้ค่า Normalized Deflection ($d_o/d_{o, DOH}$) ประมาณ 0.8 ดังรูปที่ 5.2 ค่า N_f เนื่องจากรอยแตกจากการล้าของผิวทางแอสฟัลต์คอนกรีต ($N_{f, cracking}$) ประมาณ 1.0 ล้านเที่ยว ดังรูปที่ 5.3 และค่า N_f เนื่องจากการยุบตัวของดินเดิม Subgrade ($N_{f, rutting}$) ประมาณ 1.5 ล้านเที่ยว ดังรูปที่ 5.4 ซึ่งมากกว่าปริมาณจราจร ESALs ที่ใช้ออกแบบ แสดงว่าแบบรูปัดัดแนะนำโครงสร้างชั้นทางมีความเหมาะสม



รูปที่ 5.2 การหาค่า Normalized Deflection ($d_0/d_{0,DOH}$) ของแบบรูปตัดแนะนำโครงสร้างชั้นทาง



รูปที่ 5.3 การหาค่า $N_{f,cracking}$ ของแบบรูปตัดแนะนำโครงสร้างชั้นทาง



รูปที่ 5.4 การหาค่า $N_{f, \text{rutting}}$ ของแบบรูปตัดแนะนำโครงสร้างชั้นทาง

5.3 ข้อจำกัดและข้อเสนอแนะ

การศึกษานี้มีข้อจำกัดและข้อเสนอแนะ ดังนี้

- แบบจำลองความเสียหายของโครงสร้างถนนลาดยางทั้งสองรูปแบบ ได้แก่ รอยแตกจากการล้าของผิวทางแอสฟัลต์คอนกรีต (Fatigue Cracking) และการยุบตัวของดินเดิม Subgrade (Permanent Deformation หรือ Rutting) อ้างอิงตามสถาบันยางมะตอย Asphalt Institute, AI (1982) ประเทศสหรัฐอเมริกา
- ค่าโมดูลัสยืดหยุ่น (E) ของดินเดิม Subgrade เท่ากับ 40 MPa (CBR = 4%) และค่า E ของวัสดุชั้นทางกำหนดให้เป็นค่าคงที่ตามค่าที่ใช้ออกแบบโครงสร้างถนนลาดยางของกรมทางหลวง
- การวิเคราะห์ค่าการแอ่นตัว (Deflection) ของโครงสร้างถนนลาดยาง เป็นค่าสะท้อนความมั่นคงแข็งแรงของโครงสร้างชั้นทางแบบองค์รวม (Overall Pavement Structure) จึงเป็นตัวเลขชี้วัดเชิงคุณภาพด้านความแข็งแรงของโครงสร้างถนนในงานออกแบบควบคุมการก่อสร้าง และบูรณะปรับปรุงถนนลาดยางได้

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ภาคผนวก ก
ข้อมูลค่าการแอ่นตัวจากการทดสอบด้วยเครื่องมือ FWD
สำนักวิจัยและพัฒนาทาง
กรมทางหลวง

สารบัญ

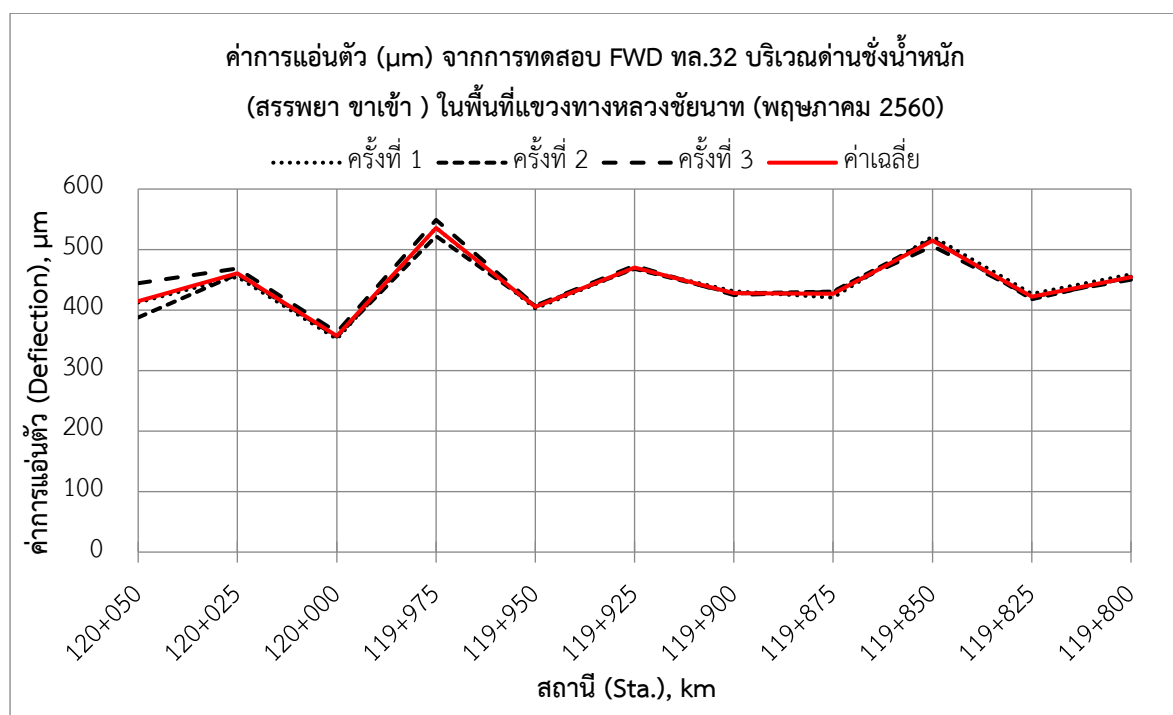
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1. ภาคกลาง

1. ภาคกลาง		
ทางหลวง	ทล.32	ทล.35
บริเวณ	(สรรพยา ขาเข้า) ในพื้นที่แขวงทางหลวงชัยนาท	(สมุทรสาคร ขาออก) ในพื้นที่แขวงทางหลวงสมุทรสาคร
Sta., km	120+050	54+000
	120+025	54+025
	120+000	54+050
	119+975	54+075
	119+950	54+100
	119+925	54+125
	119+900	54+150
	119+875	54+175
	119+850	54+200
	119+825	54+225
	119+800	54+250

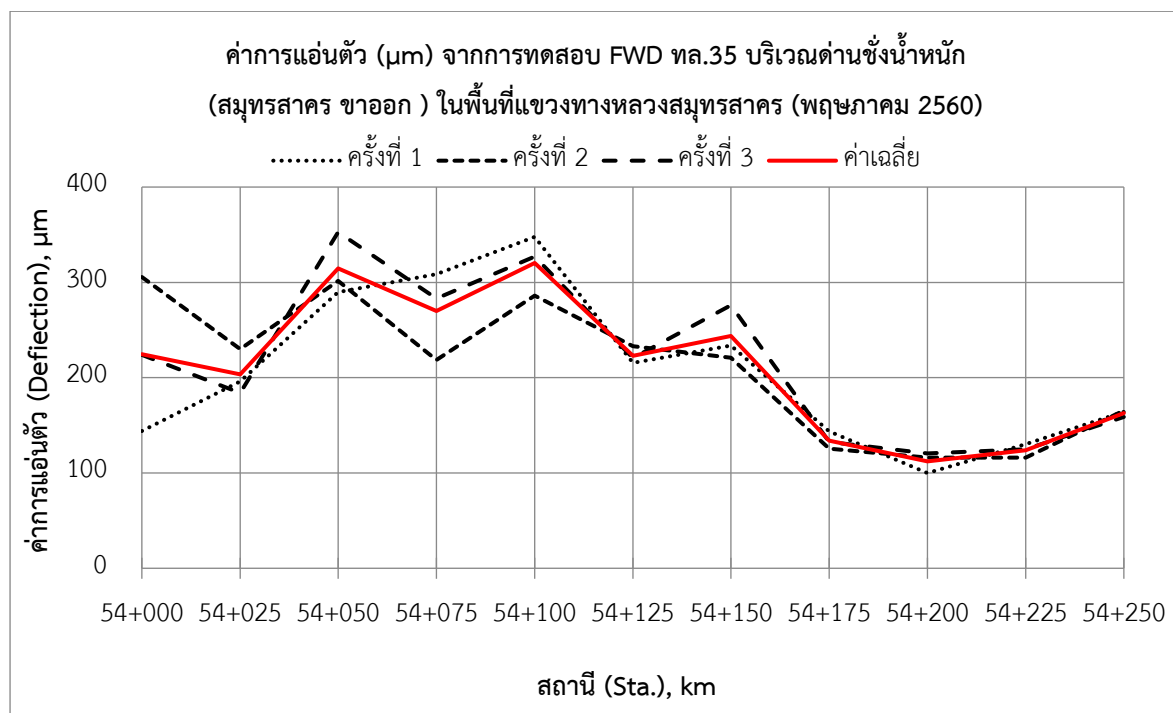
1.1 จ.ชัยนาท (สรรพยา ขาเข้า)

ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.32 บริเวณด้านข้างน้ำหนัก (สรรพยา ขาเข้า) ในพื้นที่แขวงทางหลวงชัยนาท (พฤษภาคม 2560)												
Sta.	120+050	120+025	120+000	119+975	119+950	119+925	119+900	119+875	119+850	119+825	119+800	ค่าเฉลี่ย
ครั้งที่ 1	412.50	454.80	352.20	535.90	402.50	469.10	431.30	420.50	521.70	426.70	458.90	444.19
ครั้งที่ 2	387.70	459.20	356.10	522.20	406.60	467.90	427.50	430.60	516.80	417.90	455.10	440.69
ครั้งที่ 3	444.50	468.50	363.40	549.00	407.20	473.20	424.50	430.00	505.60	422.20	449.90	448.91
ค่าเฉลี่ย	414.90	460.83	357.23	535.70	405.43	470.07	427.77	427.03	514.70	422.27	454.63	444.60



1.2 จ.สมุทรสาคร (สมุทรสาคร ขาออก)

ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.35 บริเวณด้านข้างน้ำหนัก (สมุทรสาคร ขาออก) ในพื้นที่แขวงทางหลวงสมุทรสาคร (พฤษภาคม 2560)												
Sta.	54+000	54+025	54+050	54+075	54+100	54+125	54+150	54+175	54+200	54+225	54+250	ค่าเฉลี่ย
ครั้งที่ 1	144.10	196.10	289.80	308.60	347.70	215.40	233.80	143.80	99.90	130.30	164.10	206.69
ครั้งที่ 2	305.60	230.00	301.40	218.70	286.10	232.90	221.00	125.50	116.10	116.20	165.60	210.83
ครั้งที่ 3	223.90	183.90	352.70	282.90	327.20	220.70	276.00	132.40	120.50	124.90	158.90	218.55
ค่าเฉลี่ย	224.53	203.33	314.63	270.07	320.33	223.00	243.60	133.90	112.17	123.80	162.87	212.02



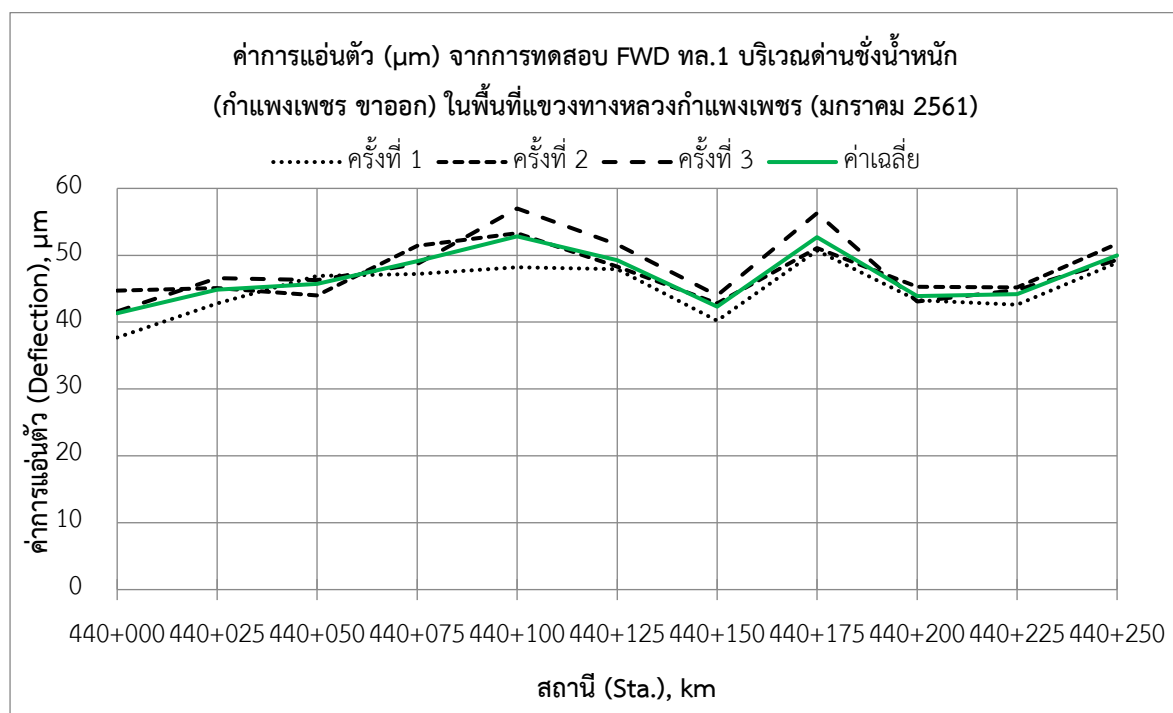
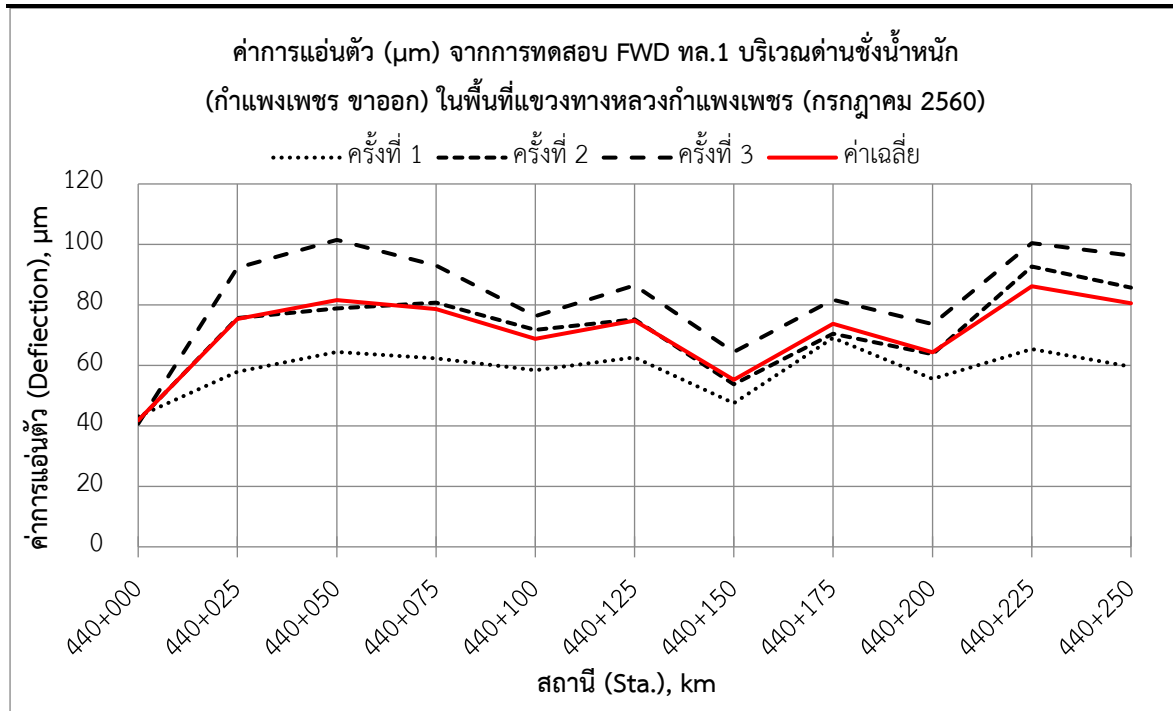
2. ภาคเหนือ

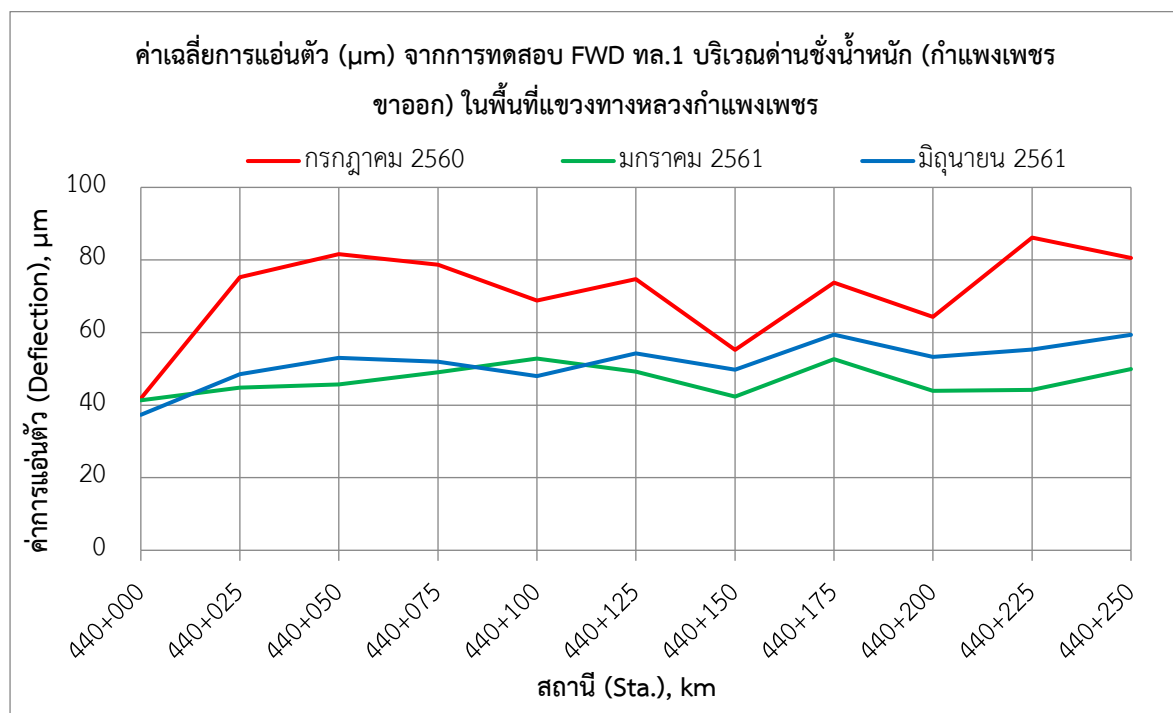
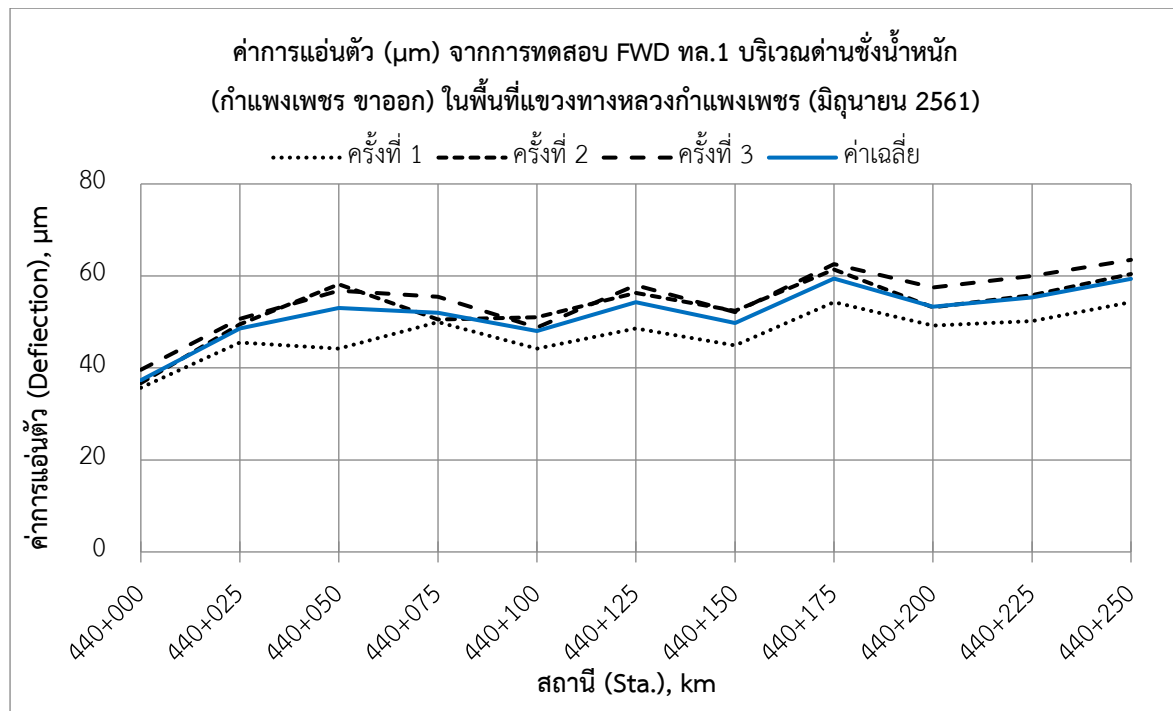
2. ภาคเหนือ					
จังหวัด	กำแพงเพชร	กำแพงเพชร	นครสวรรค์	นครสวรรค์	นครสวรรค์
ทางหลวง	ทล.1	ทล.1	ทล.117	ทล.1	ทล.1
บริเวณ	(กำแพงเพชร ขา ออก) ในพื้นที่ แขวงทางหลวง กำแพงเพชร	(กำแพงเพชร ขา เข้า) ในพื้นที่แขวง ทางหลวง กำแพงเพชร	(เก้าเลี้ยว ขาเข้า) ในพื้นที่แขวงทาง หลวงนครสวรรค์	(พยุหะคีรี ขา ออก) ในพื้นที่ แขวงทางหลวง นครสวรรค์	(บรรตพิสัย ขา เข้า) ในพื้นที่แขวง ทางหลวง นครสวรรค์
Sta., km	440+000	441+000	25+000	308+300	380+200
	440+025	440+975	24+975	308+325	380+175
	440+050	440+950	24+950	308+350	380+150
	440+075	440+925	24+925	308+375	380+125
	440+100	440+900	24+900	308+400	380+100
	440+125	440+875	24+875	308+425	380+075
	440+150	440+850	24+850	308+450	380+050
	440+175	440+825	24+825	308+475	380+025
	440+200	440+800	24+800	308+500	380+000
	440+225	440+775	24+775	308+525	379+975
	440+250	440+750	24+750	308+550	379+950

2.1 จ.กำแพงเพชร (กำแพงเพชร ขาออก)

ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.1 บริเวณด้านข้างน้ำหนัก (กำแพงเพชร ขาออก) ในพื้นที่แขวงทางหลวงกำแพงเพชร (กรกฎาคม 2560)											
Sta.	440+000	440+025	440+050	440+075	440+100	440+125	440+150	440+175	440+200	440+225	440+250
ครั้งที่ 1	43.10	57.90	64.40	62.30	58.40	62.60	47.50	69.10	55.50	65.40	59.60
ครั้งที่ 2	41.70	75.70	78.80	80.70	71.70	75.20	53.70	70.50	63.70	92.70	85.70
ครั้งที่ 3	40.70	92.30	101.50	93.00	76.30	86.50	64.40	81.70	73.70	100.40	96.30
ค่าเฉลี่ย	41.83	75.30	81.57	78.67	68.80	74.77	55.20	73.77	64.30	86.17	80.53
ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.1 บริเวณด้านข้างน้ำหนัก (กำแพงเพชร ขาออก) ในพื้นที่แขวงทางหลวงกำแพงเพชร (มกราคม 2561)											
Sta.	440+000	440+025	440+050	440+075	440+100	440+125	440+150	440+175	440+200	440+225	440+250
ครั้งที่ 1	37.70	42.80	46.90	47.20	48.20	47.90	40.20	50.70	43.30	42.60	48.90
ครั้งที่ 2	44.70	45.10	44.00	51.40	53.30	48.30	42.80	51.10	45.30	45.20	51.70
ครั้งที่ 3	41.60	46.60	46.30	48.70	57.00	51.60	44.00	56.30	43.10	44.80	49.30
ค่าเฉลี่ย	41.33	44.83	45.73	49.10	52.83	49.27	42.33	52.70	43.90	44.20	49.97
ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.1 บริเวณด้านข้างน้ำหนัก (กำแพงเพชร ขาออก) ในพื้นที่แขวงทางหลวงกำแพงเพชร (มิถุนายน 2561)											
Sta.	440+000	440+025	440+050	440+075	440+100	440+125	440+150	440+175	440+200	440+225	440+250
ครั้งที่ 1	35.70	45.50	44.20	50.00	44.20	48.60	44.90	54.30	49.20	50.20	54.30
ครั้งที่ 2	36.70	49.50	58.20	50.50	51.00	56.30	52.40	61.40	53.20	55.80	60.40
ครั้งที่ 3	39.60	50.70	56.80	55.50	48.80	58.00	52.10	62.60	57.50	60.00	63.50
ค่าเฉลี่ย	37.33	48.57	53.07	52.00	48.00	54.30	49.80	59.43	53.30	55.33	59.40

ค่าเฉลี่ยการแอ่นตัว (μm) จากการทดสอบ FWD ทล.1 บริเวณด้านข้างน้ำหนัก (กำแพงเพชร ขาออก) ในพื้นที่แขวงทางหลวงกำแพงเพชร												
Sta.	440+000	440+025	440+050	440+075	440+100	440+125	440+150	440+175	440+200	440+225	440+250	ค่าเฉลี่ย
ก.ค. 60	41.83	75.30	81.57	78.67	68.80	74.77	55.20	73.77	64.30	86.17	80.53	70.99
ม.ค. 61	41.33	44.83	45.73	49.10	52.83	49.27	42.33	52.70	43.90	44.20	49.97	46.93
มิ.ย. 61	37.33	48.57	53.07	52.00	48.00	54.30	49.80	59.43	53.30	55.33	59.40	51.87
ค่าเฉลี่ย	40.17	56.23	60.12	59.92	56.54	59.44	49.11	61.97	53.83	61.90	63.30	56.59

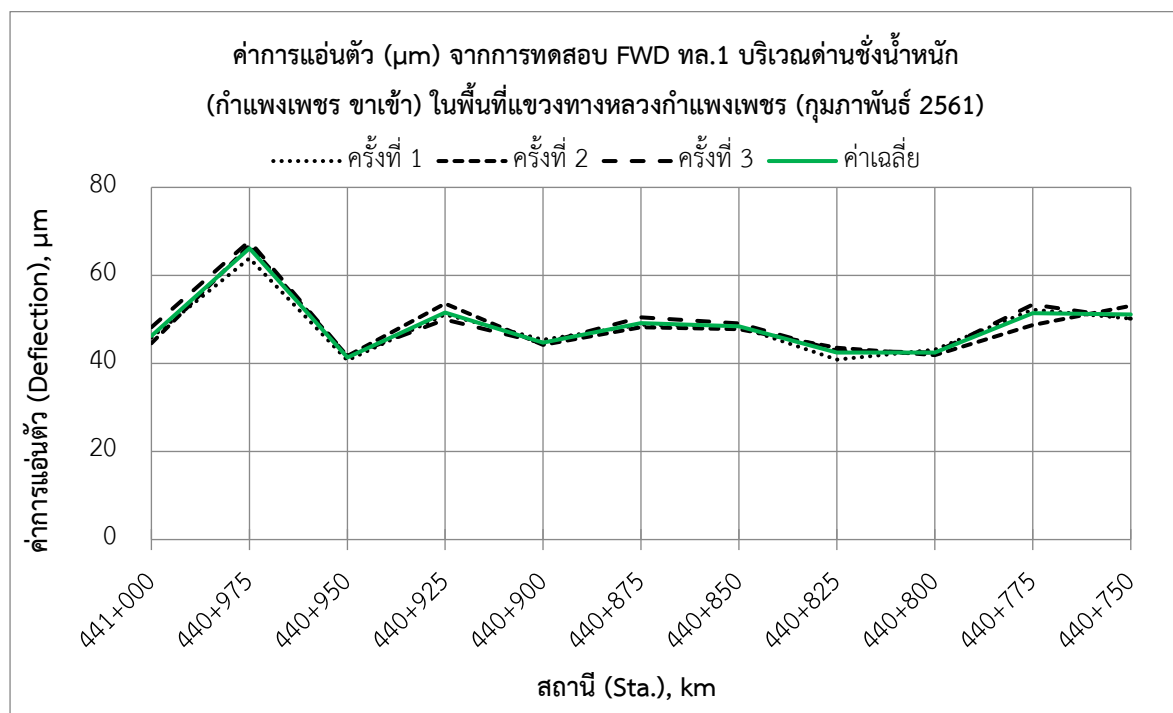
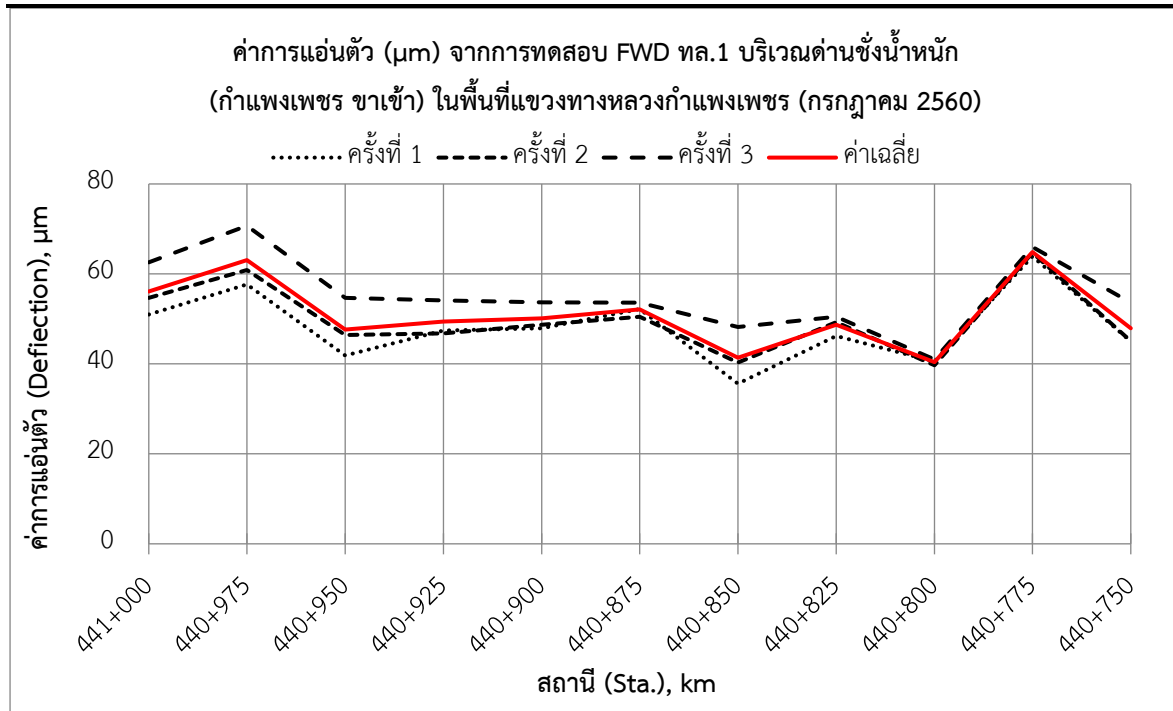


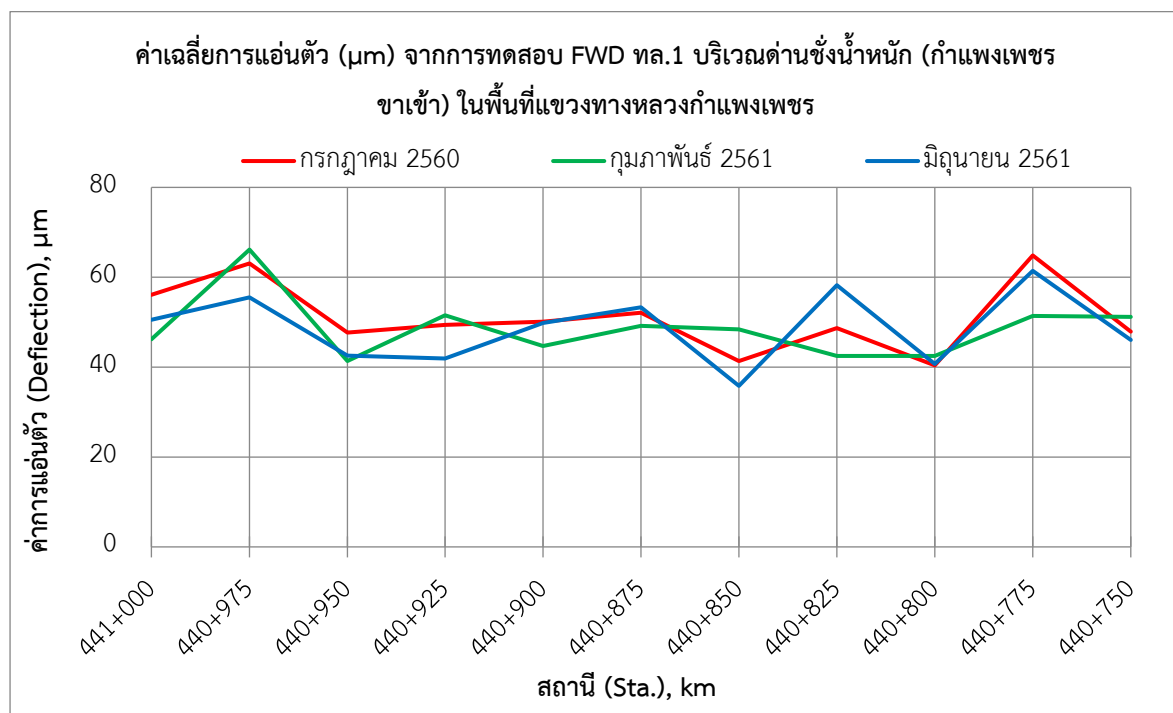
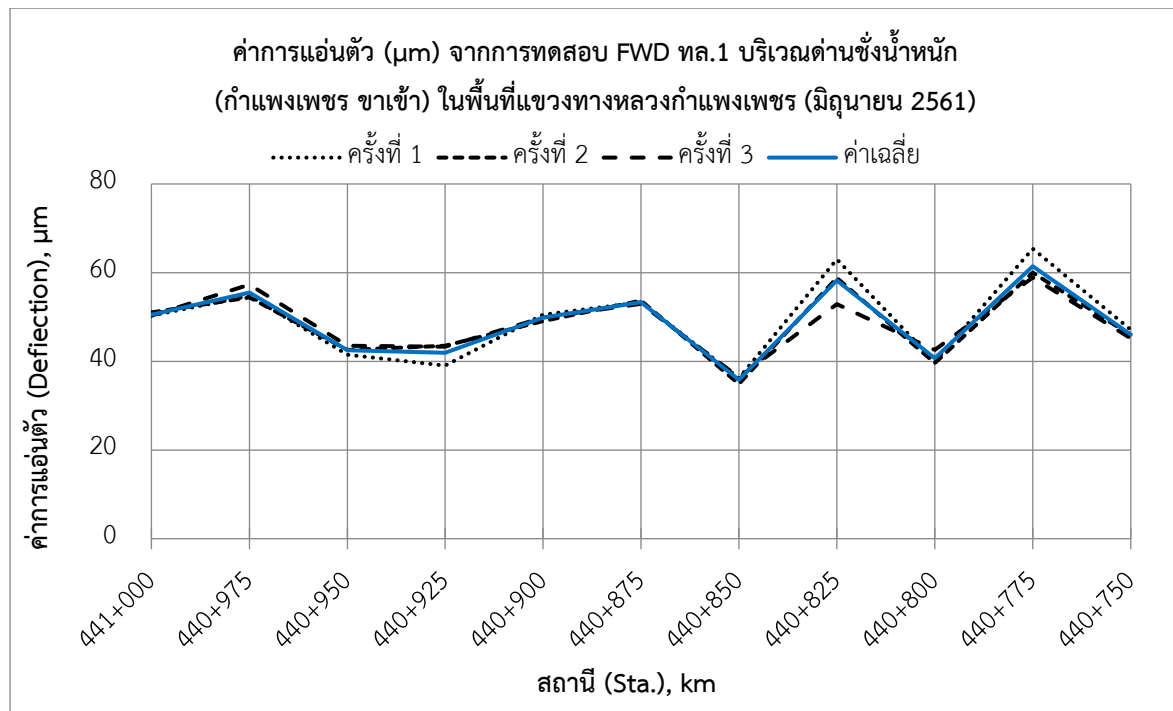


2.2 จ.กำแพงเพชร (กำแพงเพชร ขาเข้า)

ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.1 บริเวณด้านข้างน้ำหนัก (กำแพงเพชร ขาเข้า) ในพื้นที่แขวงทางหลวงกำแพงเพชร (กรกฎาคม 2560)											
Sta.	441+ 000	440+ 975	440+ 950	440+ 925	440+ 900	440+ 875	440+ 850	440+ 825	440+ 800	440+ 775	440+ 750
ครั้งที่ 1	51.00	57.70	41.90	47.40	47.90	52.20	35.60	46.20	40.50	63.90	45.00
ครั้งที่ 2	54.70	60.90	46.40	46.80	48.70	50.50	40.30	49.30	39.70	64.70	45.10
ครั้งที่ 3	62.60	70.70	54.70	54.10	53.70	53.60	48.20	50.50	41.00	66.00	53.60
ค่าเฉลี่ย	56.10	63.10	47.67	49.43	50.10	52.10	41.37	48.67	40.40	64.87	47.90
ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.1 บริเวณด้านข้างน้ำหนัก (กำแพงเพชร ขาเข้า) ในพื้นที่แขวงทางหลวงกำแพงเพชร (กุมภาพันธ์ 2561)											
Sta.	441+ 000	440+ 975	440+ 950	440+ 925	440+ 900	440+ 875	440+ 850	440+ 825	440+ 800	440+ 775	440+ 750
ครั้งที่ 1	45.90	63.90	40.70	51.10	45.40	48.80	48.40	40.90	43.10	52.20	50.20
ครั้งที่ 2	44.60	66.80	41.70	53.60	44.20	48.20	47.80	43.60	41.90	48.70	53.10
ครั้งที่ 3	48.20	67.80	41.70	50.00	44.60	50.50	49.10	42.90	42.50	53.40	50.20
ค่าเฉลี่ย	46.23	66.17	41.37	51.57	44.73	49.17	48.43	42.47	42.50	51.43	51.17
ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.1 บริเวณด้านข้างน้ำหนัก (กำแพงเพชร ขาเข้า) ในพื้นที่แขวงทางหลวงกำแพงเพชร (มิถุนายน 2561)											
Sta.	441+ 000	440+ 975	440+ 950	440+ 925	440+ 900	440+ 875	440+ 850	440+ 825	440+ 800	440+ 775	440+ 750
ครั้งที่ 1	50.30	54.80	41.50	39.00	50.50	53.30	36.20	63.00	39.90	65.40	47.10
ครั้งที่ 2	51.00	54.40	42.60	43.50	49.10	53.70	34.90	58.80	39.60	60.00	45.90
ครั้งที่ 3	50.30	57.30	43.50	43.30	49.90	53.00	36.40	52.90	42.60	58.90	45.20
ค่าเฉลี่ย	50.53	55.50	42.53	41.93	49.83	53.33	35.83	58.23	40.70	61.43	46.07

ค่าเฉลี่ยการแอ่นตัว (μm) จากการทดสอบ FWD ทล.1 บริเวณด้านข้างน้ำหนัก (กำแพงเพชร ขาเข้า) ในพื้นที่แขวงทางหลวงกำแพงเพชร												
Sta.	441+ 000	440+ 975	440+ 950	440+ 925	440+ 900	440+ 875	440+ 850	440+ 825	440+ 800	440+ 775	440+ 750	ค่าเฉลี่ย
ก.ค. 60	56.10	63.10	47.67	49.43	50.10	52.10	41.37	48.67	40.40	64.87	47.90	51.06
ก.พ. 61	46.23	66.17	41.37	51.57	44.73	49.17	48.43	42.47	42.50	51.43	51.17	48.66
มิ.ย. 61	50.53	55.50	42.53	41.93	49.83	53.33	35.83	58.23	40.70	61.43	46.07	48.72
ค่าเฉลี่ย	50.96	61.59	43.86	47.64	48.22	51.53	41.88	49.79	41.20	59.24	48.38	49.48

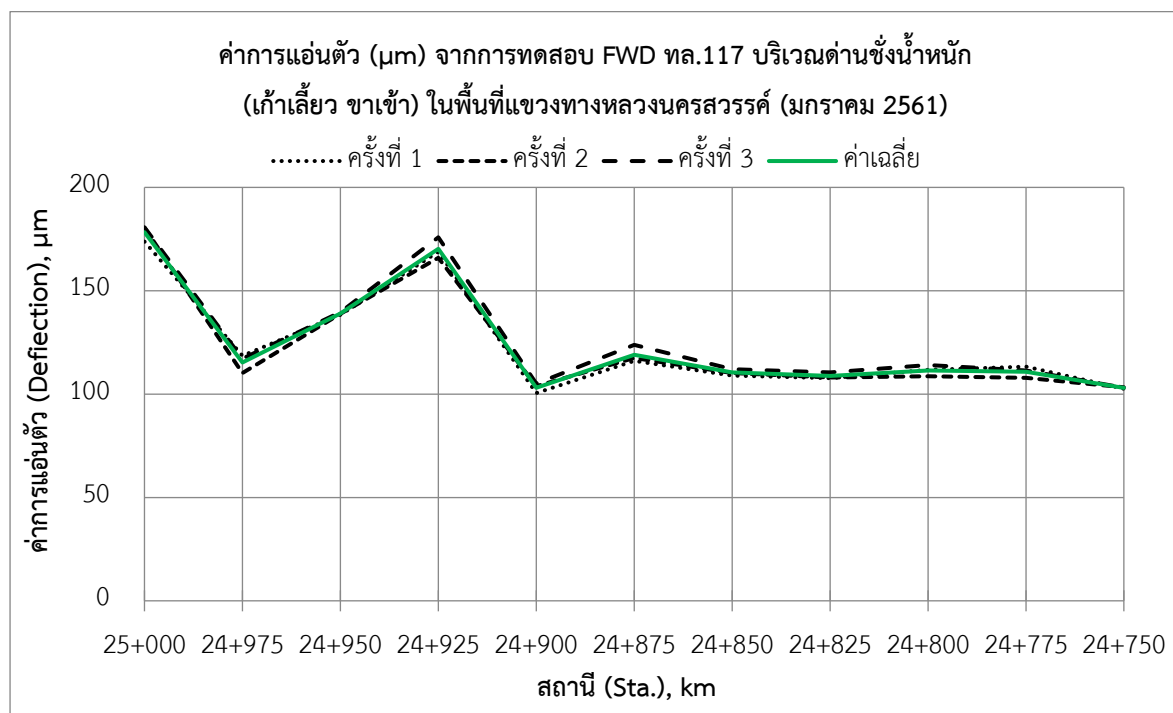
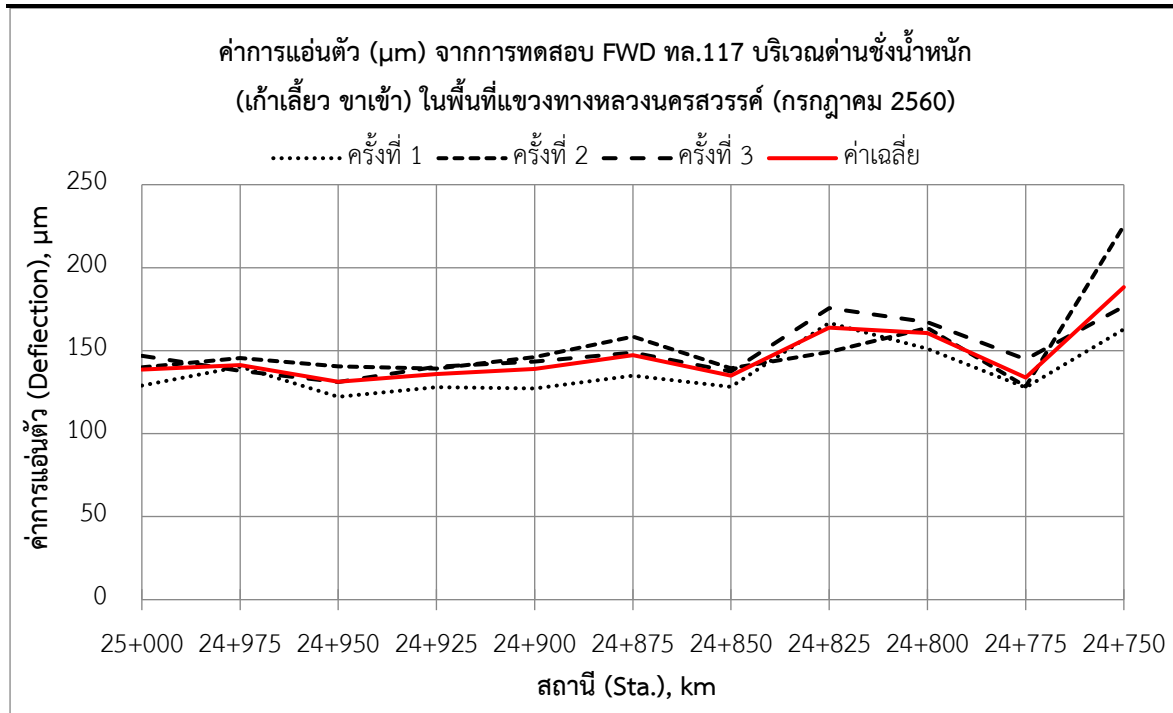


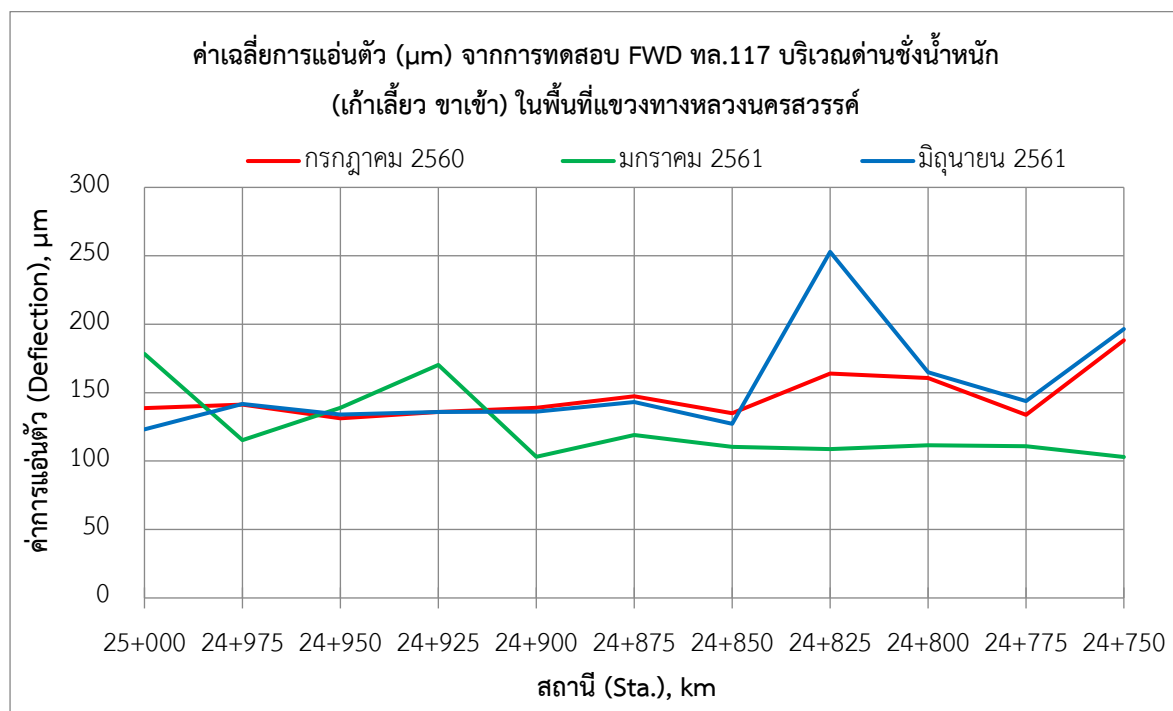
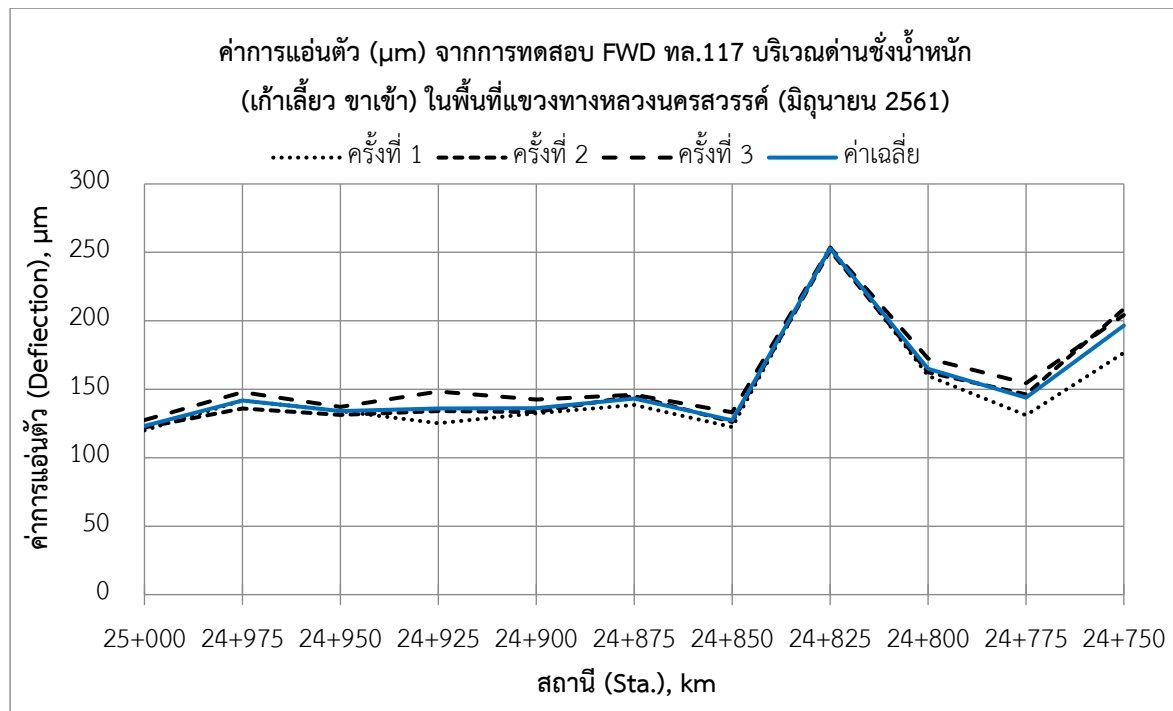


2.3 จ.นครสวรรค์ (เก้าเหลียว ขาเข้า)

ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.117 บริเวณด้านข้างน้ำหนัก (เก้าเหลียว ขาเข้า) ในพื้นที่แขวงทางหลวงนครสวรรค์ (กรกฎาคม 2560)											
Sta.	25+ 000	24+ 975	24+ 950	24+ 925	24+ 900	24+ 875	24+ 850	24+ 825	24+ 800	24+ 775	24+ 750
ครั้งที่ 1	129.00	140.30	122.20	128.00	127.20	134.90	128.20	166.70	151.10	127.90	162.90
ครั้งที่ 2	140.00	145.50	140.50	139.10	146.20	158.40	139.30	149.20	163.70	128.40	225.30
ครั้งที่ 3	146.90	137.90	131.10	140.40	143.50	148.80	137.50	175.70	167.20	144.80	176.60
ค่าเฉลี่ย	138.63	141.23	131.27	135.83	138.97	147.37	135.00	163.87	160.67	133.70	188.27
ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.117 บริเวณด้านข้างน้ำหนัก (เก้าเหลียว ขาเข้า) ในพื้นที่แขวงทางหลวงนครสวรรค์ (มกราคม 2561)											
Sta.	25+ 000	24+ 975	24+ 950	24+ 925	24+ 900	24+ 875	24+ 850	24+ 825	24+ 800	24+ 775	24+ 750
ครั้งที่ 1	173.80	118.60	138.40	168.90	100.50	116.00	109.00	107.70	111.70	113.30	102.60
ครั้งที่ 2	180.50	110.20	138.90	166.00	103.80	117.40	110.20	108.10	108.70	107.80	103.30
ครั้งที่ 3	180.70	117.20	139.60	175.80	105.10	123.80	112.10	110.50	114.00	111.50	103.10
ค่าเฉลี่ย	178.33	115.33	138.97	170.23	103.13	119.07	110.43	108.77	111.47	110.87	103.00
ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.117 บริเวณด้านข้างน้ำหนัก (เก้าเหลียว ขาเข้า) ในพื้นที่แขวงทางหลวงนครสวรรค์ (มิถุนายน 2561)											
Sta.	25+ 000	24+ 975	24+ 950	24+ 925	24+ 900	24+ 875	24+ 850	24+ 825	24+ 800	24+ 775	24+ 750
ครั้งที่ 1	120.00	141.70	134.00	125.20	132.50	138.50	122.30	253.80	159.80	131.00	176.60
ครั้งที่ 2	122.10	136.00	131.20	134.00	133.50	145.20	126.20	251.40	162.40	146.20	208.60
ครั้งที่ 3	127.50	147.80	137.10	148.40	142.60	146.10	133.10	253.50	172.50	154.40	204.20
ค่าเฉลี่ย	123.20	141.83	134.10	135.87	136.20	143.27	127.20	252.90	164.90	143.87	196.47

ค่าเฉลี่ยการแอ่นตัว (μm) จากการทดสอบ FWD ทล.117 บริเวณด้านข้างน้ำหนัก (เก้าเหลียว ขาเข้า) ในพื้นที่แขวงทางหลวงนครสวรรค์												
Sta.	25+ 000	24+ 975	24+ 950	24+ 925	24+ 900	24+ 875	24+ 850	24+ 825	24+ 800	24+ 775	24+ 750	ค่าเฉลี่ย
ก.ค. 60	138.63	141.23	131.27	135.83	138.97	147.37	135.00	163.87	160.67	133.70	188.27	146.80
ม.ค. 61	178.33	115.33	138.97	170.23	103.13	119.07	110.43	108.77	111.47	110.87	103.00	124.51
มิ.ย. 61	123.20	141.83	134.10	135.87	136.20	143.27	127.20	252.90	164.90	143.87	196.47	154.53
ค่าเฉลี่ย	146.72	132.80	134.78	147.31	126.10	136.57	124.21	175.18	145.68	129.48	162.58	141.95

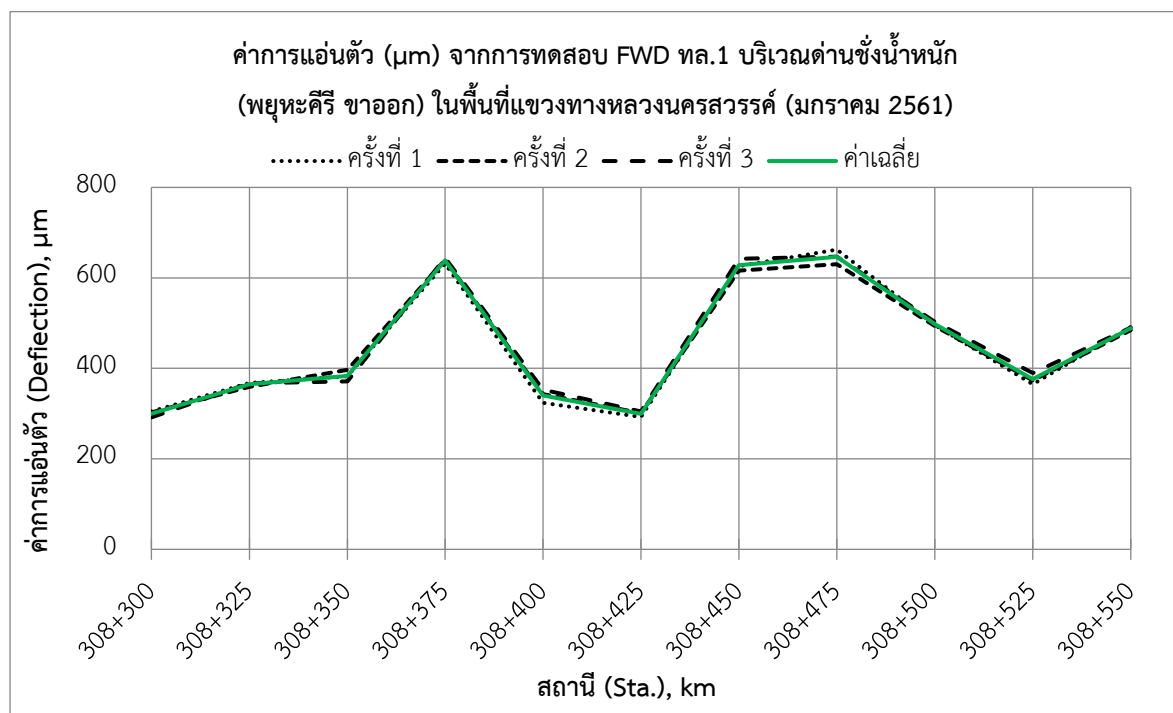
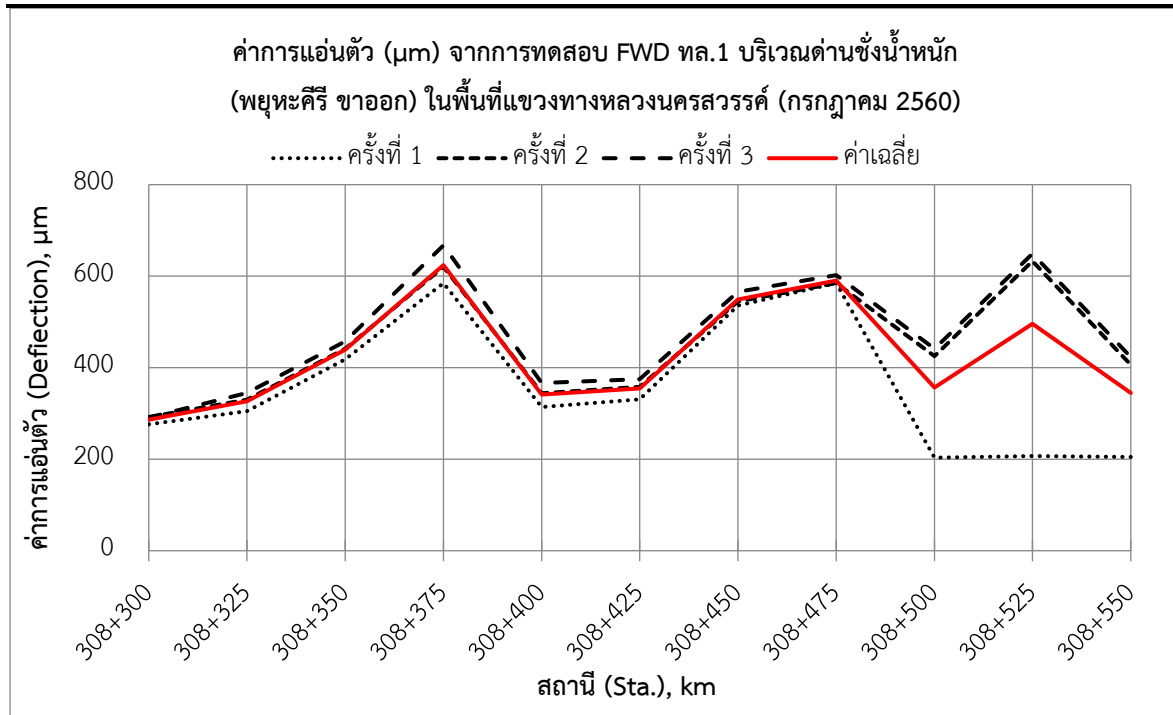


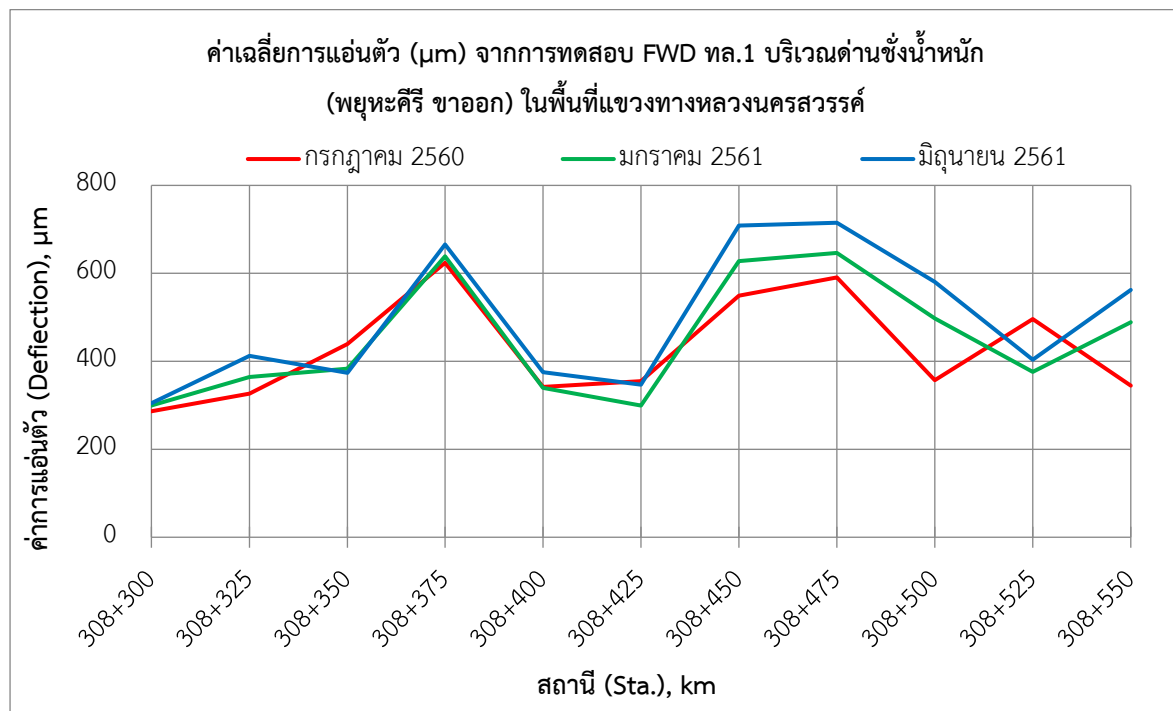
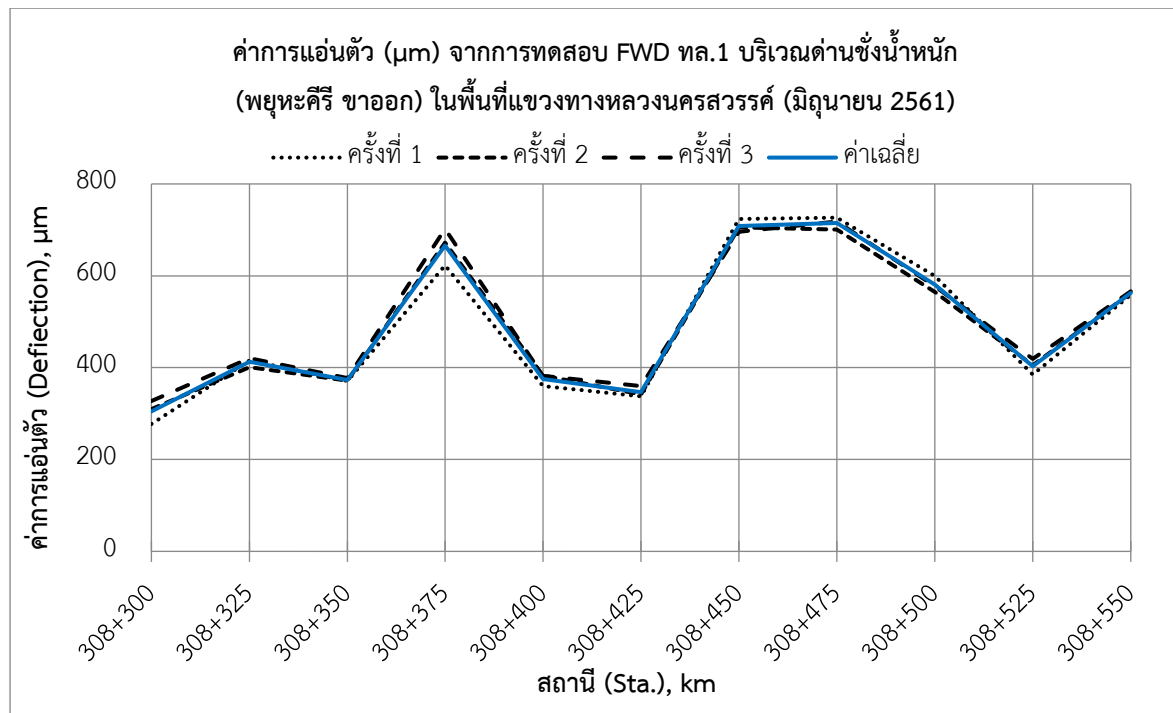


2.4 จ.นครสวรรค์ (พยุหะคีรี ขาออก)

ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.1 บริเวณด้านข้างน้ำหนัก (พยุหะคีรี ขาออก) ในพื้นที่แขวงทางหลวงนครสวรรค์ (กรกฎาคม 2560)											
Sta.	308+ 300	308+ 325	308+ 350	308+ 375	308+ 400	308+ 425	308+ 450	308+ 475	308+ 500	308+ 525	308+ 550
ครั้งที่ 1	276.00	304.60	418.10	584.70	314.20	331.00	535.80	584.80	203.40	206.80	205.00
ครั้งที่ 2	292.20	330.00	441.20	620.20	344.30	357.80	545.00	585.10	425.60	632.90	406.20
ครั้งที่ 3	291.00	344.80	457.80	667.50	366.40	375.10	566.20	602.30	441.50	649.00	422.90
ค่าเฉลี่ย	286.40	326.47	439.03	624.13	341.63	354.63	549.00	590.73	356.83	496.23	344.70
ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.1 บริเวณด้านข้างน้ำหนัก (พยุหะคีรี ขาออก) ในพื้นที่แขวงทางหลวงนครสวรรค์ (มกราคม 2561)											
Sta.	308+ 300	308+ 325	308+ 350	308+ 375	308+ 400	308+ 425	308+ 450	308+ 475	308+ 500	308+ 525	308+ 550
ครั้งที่ 1	304.70	367.60	382.40	631.40	324.20	292.50	626.10	662.50	496.00	365.00	491.40
ครั้งที่ 2	302.30	359.10	396.40	639.60	342.70	301.10	616.10	630.10	493.90	373.50	484.60
ครั้งที่ 3	291.60	367.30	371.30	644.30	352.90	304.70	642.10	646.90	503.00	390.00	490.40
ค่าเฉลี่ย	299.53	364.67	383.37	638.43	339.93	299.43	628.10	646.50	497.63	376.17	488.80
ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.1 บริเวณด้านข้างน้ำหนัก (พยุหะคีรี ขาออก) ในพื้นที่แขวงทางหลวงนครสวรรค์ (มิถุนายน 2561)											
Sta.	308+ 300	308+ 325	308+ 350	308+ 375	308+ 400	308+ 425	308+ 450	308+ 475	308+ 500	308+ 525	308+ 550
ครั้งที่ 1	277.30	415.50	371.40	622.80	360.20	337.80	724.00	726.60	599.70	385.30	558.70
ครั้งที่ 2	309.70	401.30	372.00	672.00	383.00	342.10	705.40	700.50	564.70	405.30	562.40
ครั้งที่ 3	327.30	420.80	377.10	702.40	382.10	359.90	696.10	718.20	577.50	419.50	566.20
ค่าเฉลี่ย	304.77	412.53	373.50	665.73	375.10	346.60	708.50	715.10	580.63	403.37	562.43

ค่าเฉลี่ยการแอ่นตัว (μm) จากการทดสอบ FWD ทล.1 บริเวณด้านข้างน้ำหนัก (พยุหะคีรี ขาออก) ในพื้นที่แขวงทางหลวงนครสวรรค์												
Sta.	308+ 300	308+ 325	308+ 350	308+ 375	308+ 400	308+ 425	308+ 450	308+ 475	308+ 500	308+ 525	308+ 550	ค่าเฉลี่ย
ก.ค. 60	286.40	326.47	439.03	624.13	341.63	354.63	549.00	590.73	356.83	496.23	344.70	428.16
ม.ค. 61	299.53	364.67	383.37	638.43	339.93	299.43	628.10	646.50	497.63	376.17	488.80	451.14
มิ.ย. 61	304.77	412.53	373.50	665.73	375.10	346.60	708.50	715.10	580.63	403.37	562.43	495.30
ค่าเฉลี่ย	296.90	367.89	398.63	642.77	352.22	333.56	628.53	650.78	478.37	425.26	465.31	458.20

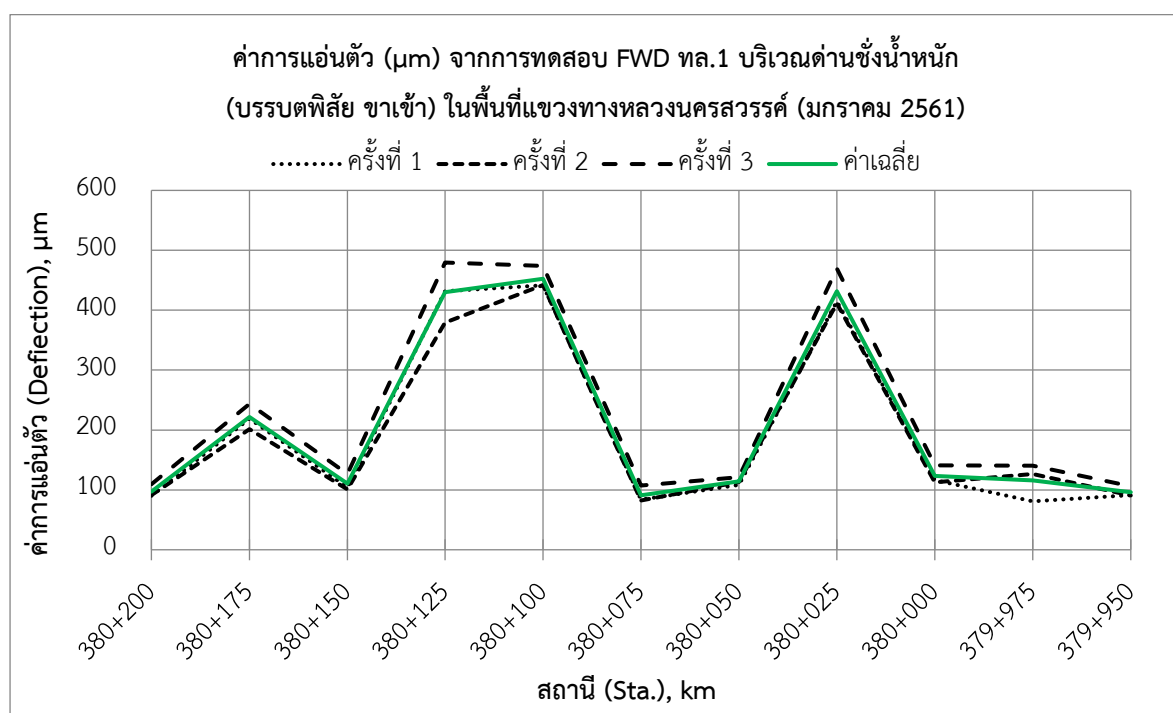
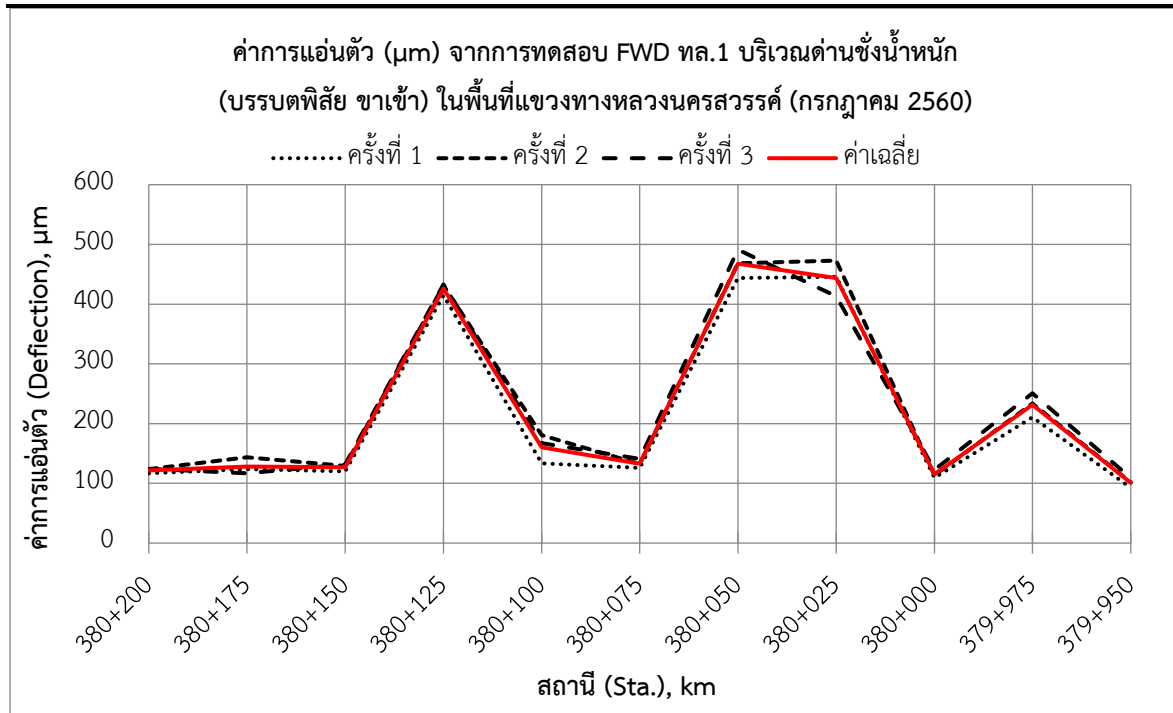


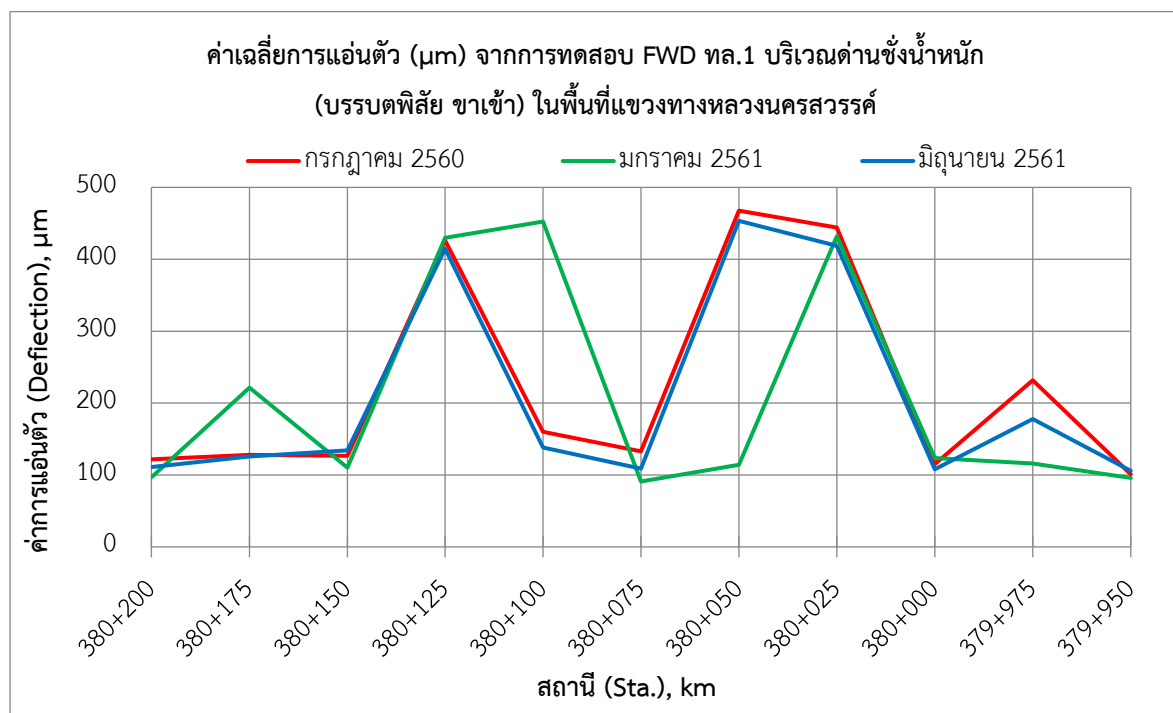
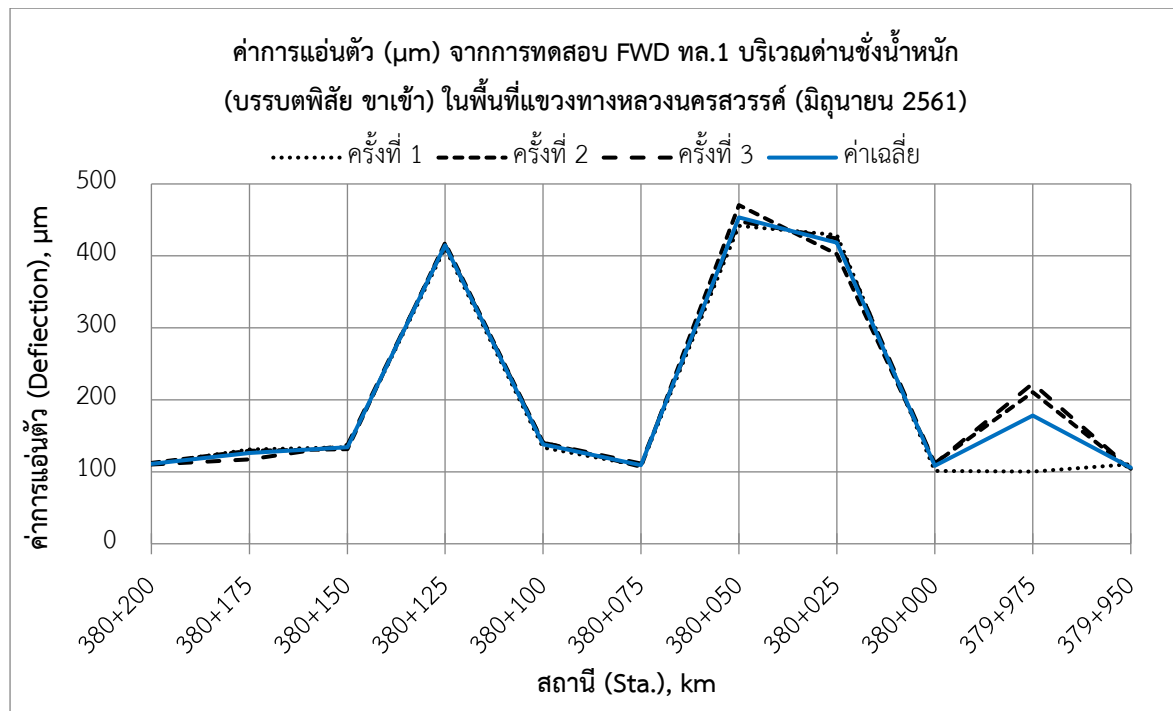


2.5 จ.นครสวรรค์ (บรรบตพิสัย ขาเข้า)

ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.1 บริเวณด้านข้างน้ำหนัก (บรรบตพิสัย ขาเข้า) ในพื้นที่แขวงทางหลวงนครสวรรค์ (กรกฎาคม 2560)											
Sta.	380+ 200	380+ 175	380+ 150	380+ 125	380+ 100	380+ 075	380+ 050	380+ 025	380+ 000	379+ 975	379+ 950
ครั้งที่ 1	117.00	124.00	119.80	414.60	133.20	125.90	443.60	445.70	109.50	210.70	92.60
ครั้งที่ 2	124.00	143.70	128.90	431.30	180.40	132.20	468.20	472.90	113.50	233.80	101.50
ครั้งที่ 3	124.30	116.70	131.80	433.00	167.10	141.00	491.20	413.20	122.90	250.70	108.90
ค่าเฉลี่ย	121.77	128.13	126.83	426.30	160.23	133.03	467.67	443.93	115.30	231.73	101.00
ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.1 บริเวณด้านข้างน้ำหนัก (บรรบตพิสัย ขาเข้า) ในพื้นที่แขวงทางหลวงนครสวรรค์ (มกราคม 2561)											
Sta.	380+ 200	380+ 175	380+ 150	380+ 125	380+ 100	380+ 075	380+ 050	380+ 025	380+ 000	379+ 975	379+ 950
ครั้งที่ 1	90.10	219.00	104.20	431.60	441.50	83.50	108.50	414.80	116.50	80.90	91.10
ครั้งที่ 2	91.00	201.50	100.60	379.10	442.00	82.30	113.10	411.30	112.80	126.70	90.80
ครั้งที่ 3	109.50	243.80	126.30	479.60	473.90	107.10	121.20	469.70	141.20	140.30	106.10
ค่าเฉลี่ย	96.87	221.43	110.37	430.10	452.47	90.97	114.27	431.93	123.50	115.97	96.00
ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.1 บริเวณด้านข้างน้ำหนัก (บรรบตพิสัย ขาเข้า) ในพื้นที่แขวงทางหลวงนครสวรรค์ (มิถุนายน 2561)											
Sta.	380+ 200	380+ 175	380+ 150	380+ 125	380+ 100	380+ 075	380+ 050	380+ 025	380+ 000	379+ 975	379+ 950
ครั้งที่ 1	111.00	131.20	134.00	411.00	133.90	108.50	441.80	429.00	101.40	100.30	110.40
ครั้งที่ 2	112.40	129.30	131.30	418.00	140.90	107.00	470.60	402.40	111.80	210.80	102.90
ครั้งที่ 3	110.00	117.30	137.20	415.10	140.30	111.60	448.10	424.30	111.30	222.80	104.20
ค่าเฉลี่ย	111.13	125.93	134.17	414.70	138.37	109.03	453.50	418.57	108.17	177.97	105.83

ค่าเฉลี่ยการแอ่นตัว (μm) จากการทดสอบ FWD ทล.1 บริเวณด้านข้างน้ำหนัก (บรรบตพิสัย ขาเข้า) ในพื้นที่แขวงทางหลวงนครสวรรค์												
Sta.	380+ 200	380+ 175	380+ 150	380+ 125	380+ 100	380+ 075	380+ 050	380+ 025	380+ 000	379+ 975	379+ 950	ค่าเฉลี่ย
ก.ค. 60	121.77	128.13	126.83	426.30	160.23	133.03	467.67	443.93	115.30	231.73	101.00	223.27
ม.ค. 61	96.87	221.43	110.37	430.10	452.47	90.97	114.27	431.93	123.50	115.97	96.00	207.62
มิ.ย. 61	111.13	125.93	134.17	414.70	138.37	109.03	453.50	418.57	108.17	177.97	105.83	208.85
ค่าเฉลี่ย	109.92	158.50	123.79	423.70	250.36	111.01	345.14	431.48	115.66	175.22	100.94	213.25





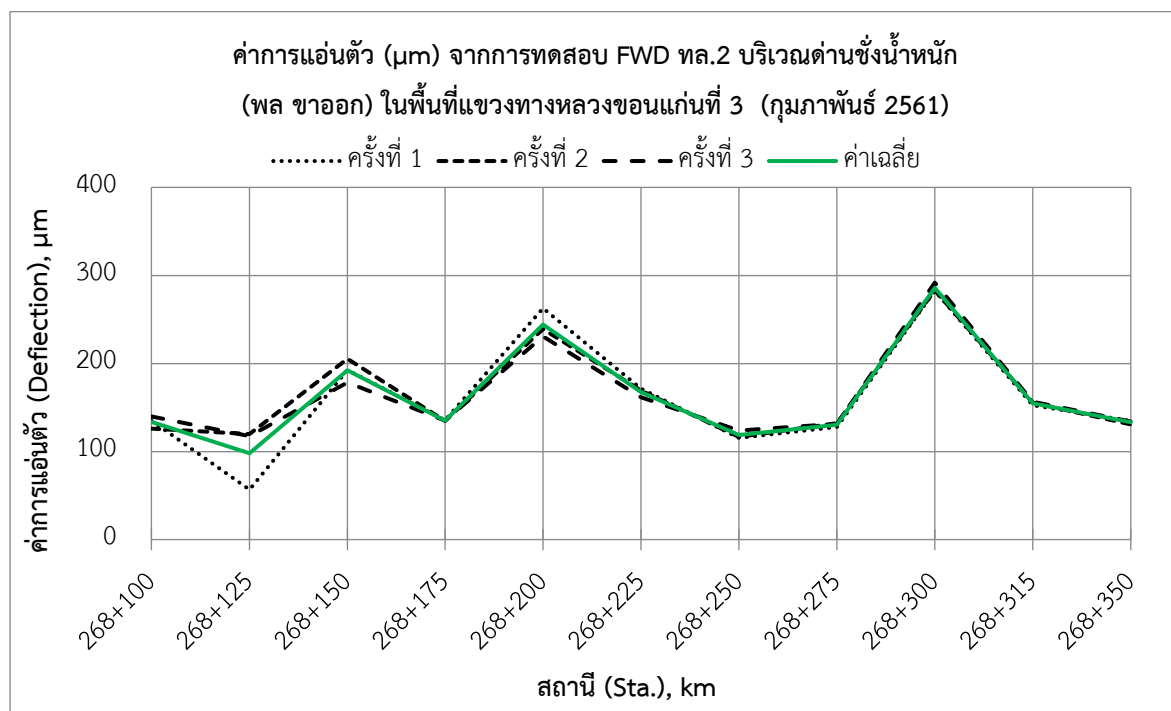
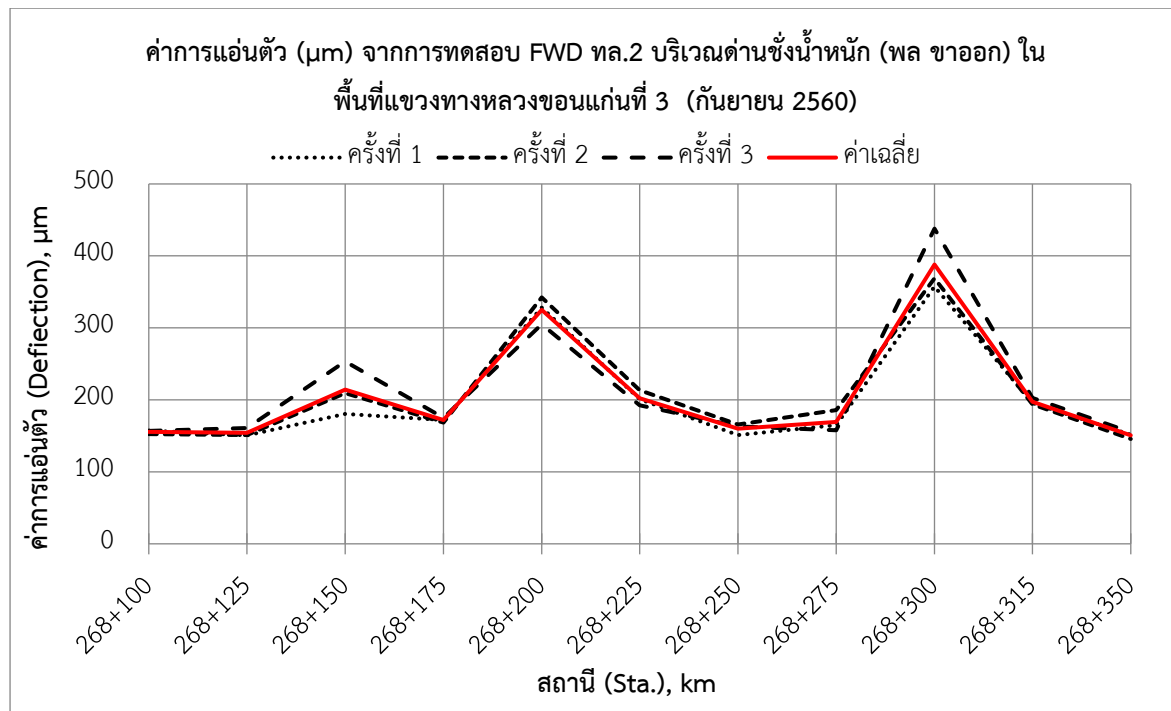
3. ภาคตะวันออกเฉียงเหนือ

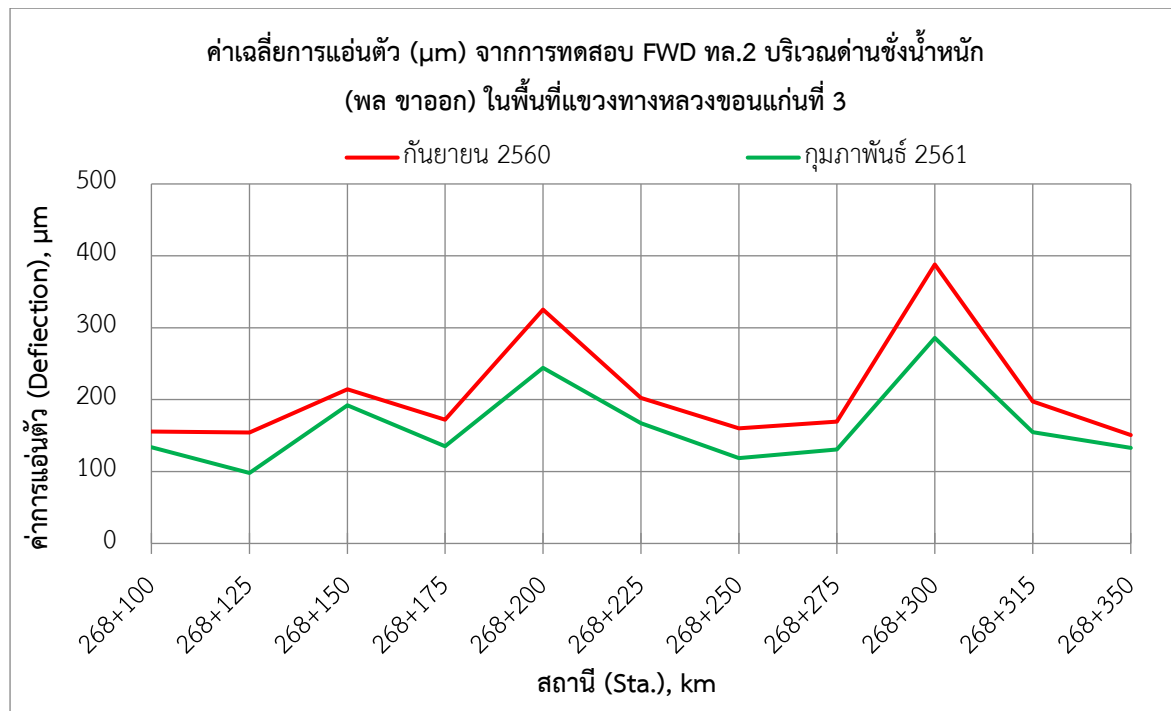
3. ภาคตะวันออกเฉียงเหนือ					
ทางหลวง	ทล.2	ทล.24	ทล.2	ทล.2	ทล.2
บริเวณ	(พล ขาออก) ในพื้นที่แขวงทางหลวงขอนแก่นที่ 3	(หนองกี่ ขาเข้า) ในพื้นที่แขวงทางหลวงบุรีรัมย์	(แก่งคอย ขาเข้า) ในพื้นที่แขวงทางหลวงสระบุรี	(โนนสูง ขาเข้า) ในพื้นที่แขวงทางหลวงนครราชสีมา 1	(สีคิ้ว ขาเข้า) ในพื้นที่แขวงทางหลวงนครราชสีมา 2
Sta., km	268+100	99+000	18+000	168+750	95+200
	268+125	98+975	17+975	168+775	95+175
	268+150	98+950	17+950	168+800	95+150
	268+175	98+925	17+925	168+825	95+125
	268+200	98+900	17+900	168+850	95+100
	268+225	98+875	17+875	168+875	95+075
	268+250	98+850	17+850	168+900	95+050
	268+275	98+825	17+825	168+925	95+025
	268+300	98+800	17+800	168+950	95+000
	268+315	98+775	17+775	168+975	94+975
	268+350	98+750	17+750	169+000	94+950

3.1 จ.ขอนแก่น (พล ขาออก)

ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.2 บริเวณด้านข้างน้ำหนัก (พล ขาออก) ในพื้นที่แขวงทางหลวงขอนแก่นที่ 3 (กันยายน 2560)											
Sta.	268+ 100	268+ 125	268+ 150	268+ 175	268+ 200	268+ 225	268+ 250	268+ 275	268+ 300	268+ 315	268+ 350
ครั้งที่ 1	157.20	150.70	180.60	172.20	328.30	201.00	151.00	164.90	357.40	195.60	151.50
ครั้งที่ 2	152.50	151.30	209.40	168.40	342.30	213.30	165.60	185.70	368.80	193.70	145.70
ครั้งที่ 3	156.90	161.10	253.30	175.20	304.90	192.50	163.30	157.90	437.90	202.60	155.00
ค่าเฉลี่ย	155.53	154.37	214.43	171.93	325.17	202.27	159.97	169.50	388.03	197.30	150.73
ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.2 บริเวณด้านข้างน้ำหนัก (พล ขาออก) ในพื้นที่แขวงทางหลวงขอนแก่นที่ 3 (กุมภาพันธ์ 2561)											
Sta.	268+ 100	268+ 125	268+ 150	268+ 175	268+ 200	268+ 225	268+ 250	268+ 275	268+ 300	268+ 315	268+ 350
ครั้งที่ 1	135.10	56.70	192.70	135.30	262.80	171.40	115.60	128.00	282.70	152.60	134.60
ครั้งที่ 2	125.90	119.90	205.20	134.90	239.20	169.20	116.60	132.20	283.10	155.40	130.70
ครั้งที่ 3	139.90	117.50	178.40	135.10	230.60	161.60	123.90	131.30	291.80	156.70	134.10
ค่าเฉลี่ย	133.63	98.03	192.10	135.10	244.20	167.40	118.70	130.50	285.87	154.90	133.13

ค่าเฉลี่ยการแอ่นตัว (μm) จากการทดสอบ FWD ทล.2 บริเวณด้านข้างน้ำหนัก (พล ขาออก) ในพื้นที่แขวงทางหลวงขอนแก่นที่ 3												
Sta.	268+ 100	268+ 125	268+ 150	268+ 175	268+ 200	268+ 225	268+ 250	268+ 275	268+ 300	268+ 315	268+ 350	ค่าเฉลี่ย
ก.ย. 60	155.53	154.37	214.43	171.93	325.17	202.27	159.97	169.50	388.03	197.30	150.73	208.11
ก.พ. 61	133.63	98.03	192.10	135.10	244.20	167.40	118.70	130.50	285.87	154.90	133.13	163.05
ค่าเฉลี่ย	144.58	126.20	203.27	153.52	284.68	184.83	139.33	150.00	336.95	176.10	141.93	185.58

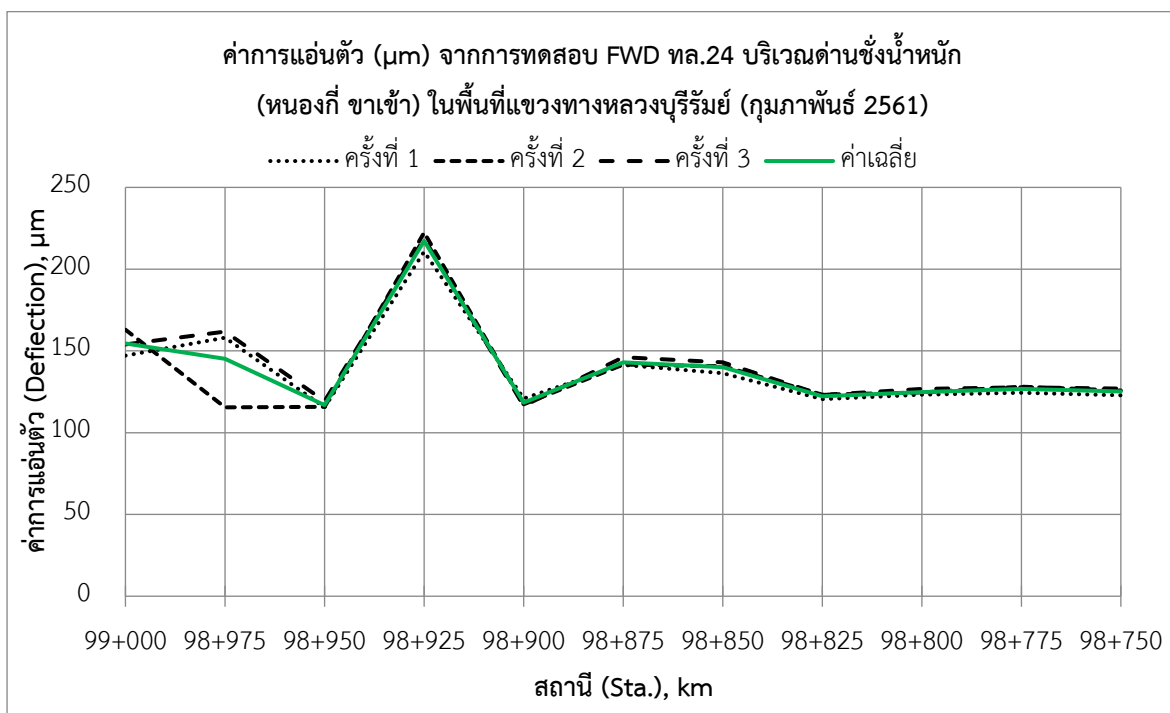
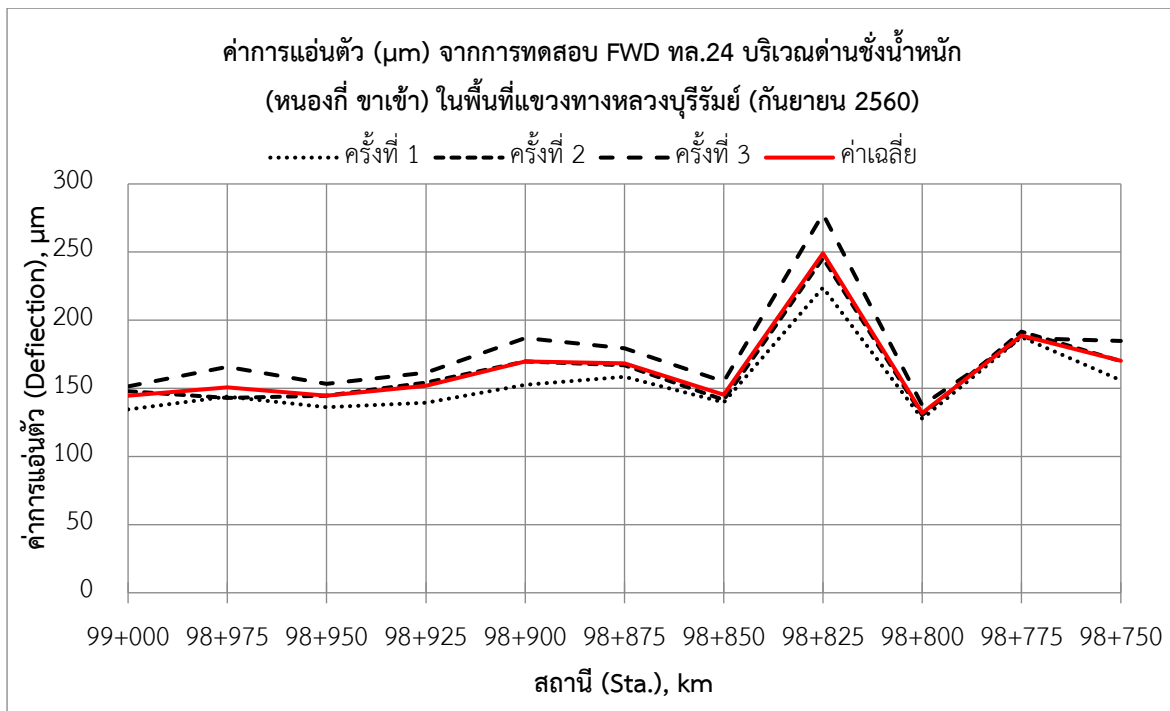


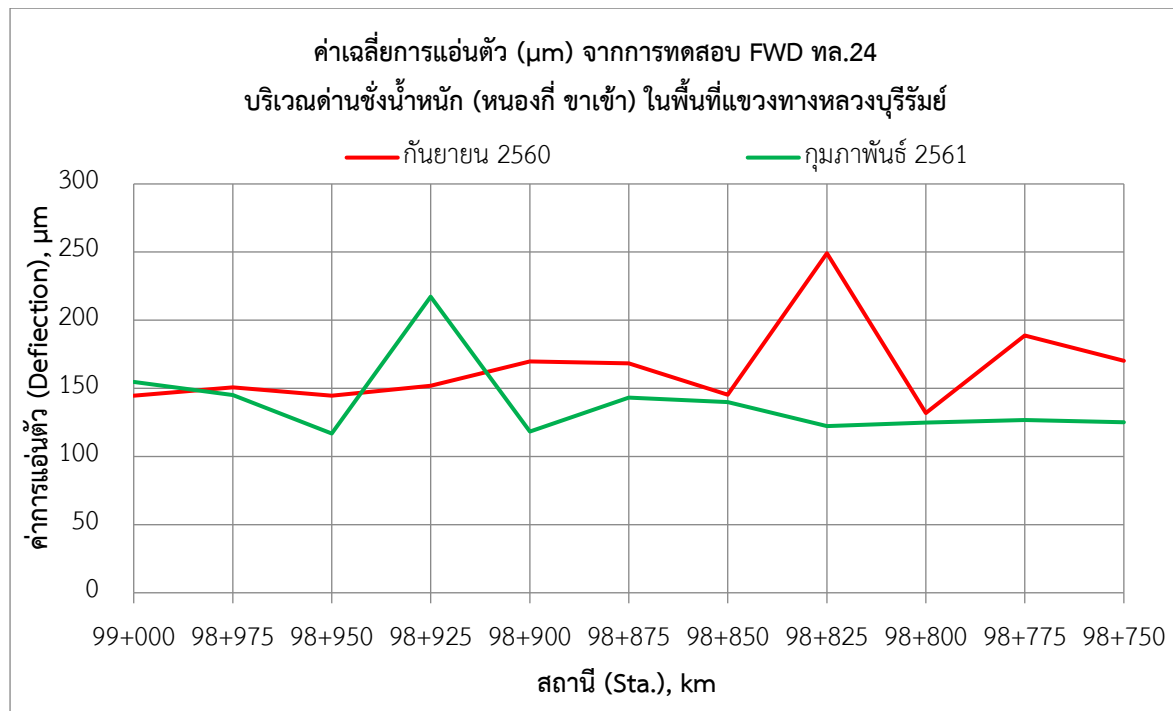


3.2 จ.บุรีรัมย์ (หนองกี่ ขาเข้า)

ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.24 บริเวณด้านข้างน้ำหนัก (หนองกี่ ขาเข้า) ในพื้นที่แขวงทางหลวงบุรีรัมย์ (ก้นยาน 2560)											
Sta.	99+ 000	98+ 975	98+ 950	98+ 925	98+ 900	98+ 875	98+ 850	98+ 825	98+ 800	98+ 775	98+ 750
ครั้งที่ 1	134.50	143.90	136.20	139.50	152.70	158.60	139.60	223.90	127.70	187.50	155.80
ครั้งที่ 2	147.90	142.90	144.70	154.30	169.70	166.90	141.50	245.50	130.40	191.60	170.00
ครั้งที่ 3	151.40	165.70	153.30	161.60	186.80	179.40	155.00	278.00	137.60	187.00	184.80
ค่าเฉลี่ย	144.60	150.83	144.73	151.80	169.73	168.30	145.37	249.13	131.90	188.70	170.20
ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.24 บริเวณด้านข้างน้ำหนัก (หนองกี่ ขาเข้า) ในพื้นที่แขวงทางหลวงบุรีรัมย์ (กุ่มภาพันธุ์ 2561)											
Sta.	99+ 000	98+ 975	98+ 950	98+ 925	98+ 900	98+ 875	98+ 850	98+ 825	98+ 800	98+ 775	98+ 750
ครั้งที่ 1	147.10	158.10	115.50	210.70	121.00	141.40	136.40	120.50	123.20	124.50	122.80
ครั้งที่ 2	162.90	115.50	115.80	222.40	117.40	141.70	140.70	123.30	124.70	128.10	125.80
ครั้งที่ 3	154.00	161.90	119.30	218.70	116.40	146.20	143.00	123.10	126.70	127.80	126.90
ค่าเฉลี่ย	154.67	145.17	116.87	217.27	118.27	143.10	140.03	122.30	124.87	126.80	125.17

ค่าเฉลี่ยการแอ่นตัว (μm) จากการทดสอบ FWD ทล.24 บริเวณด้านข้างน้ำหนัก (หนองกี่ ขาเข้า) ในพื้นที่แขวงทางหลวงบุรีรัมย์												
Sta.	99+ 000	98+ 975	98+ 950	98+ 925	98+ 900	98+ 875	98+ 850	98+ 825	98+ 800	98+ 775	98+ 750	ค่าเฉลี่ย
ก.ย. 60	144.60	150.83	144.73	151.80	169.73	168.30	145.37	249.13	131.90	188.70	170.20	165.03
ก.พ. 61	154.67	145.17	116.87	217.27	118.27	143.10	140.03	122.30	124.87	126.80	125.17	139.50
ค่าเฉลี่ย	149.63	148.00	130.80	184.53	144.00	155.70	142.70	185.72	128.38	157.75	147.68	152.26

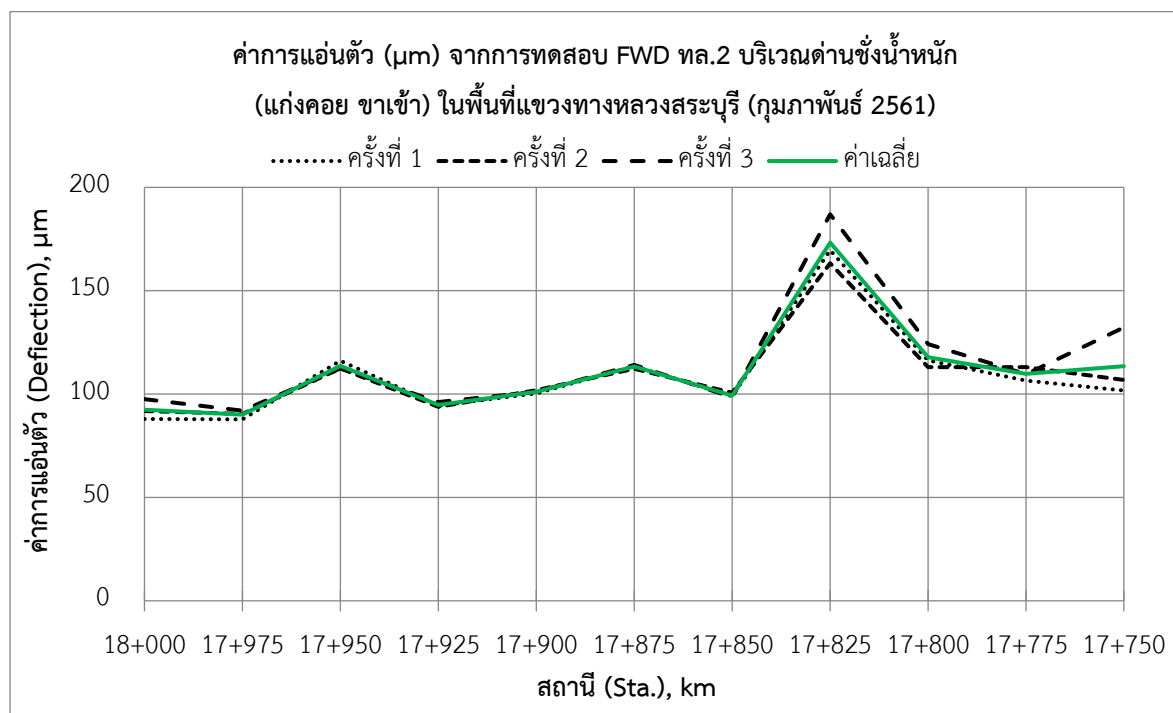
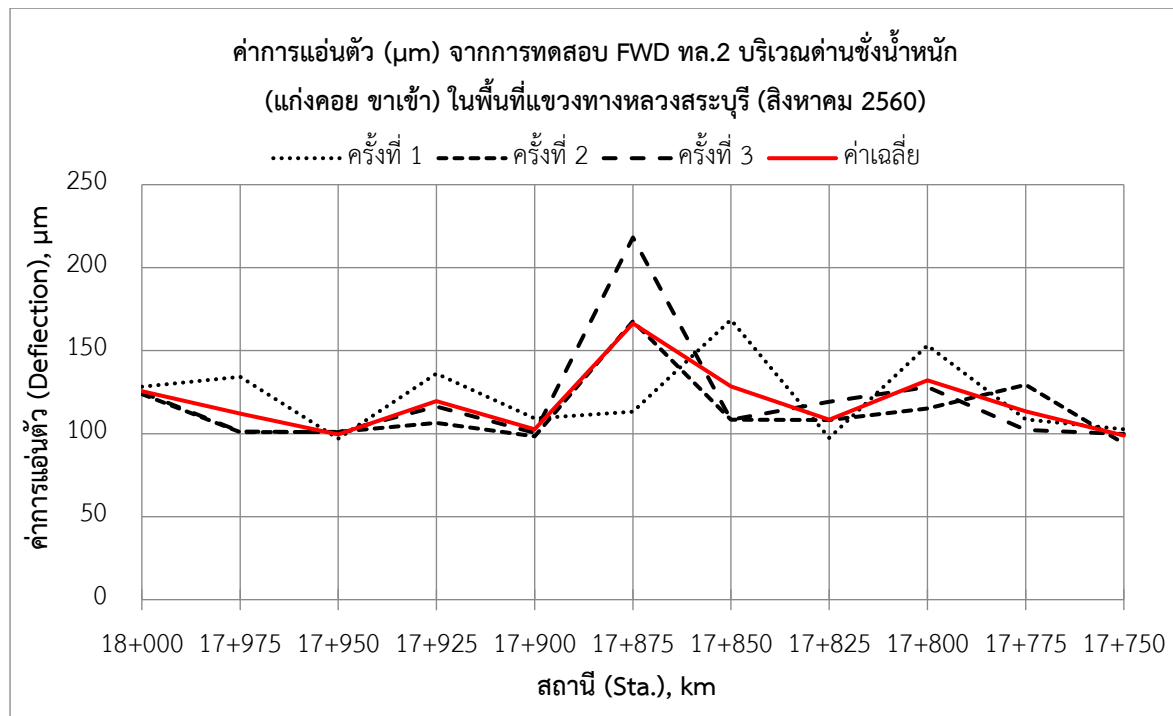


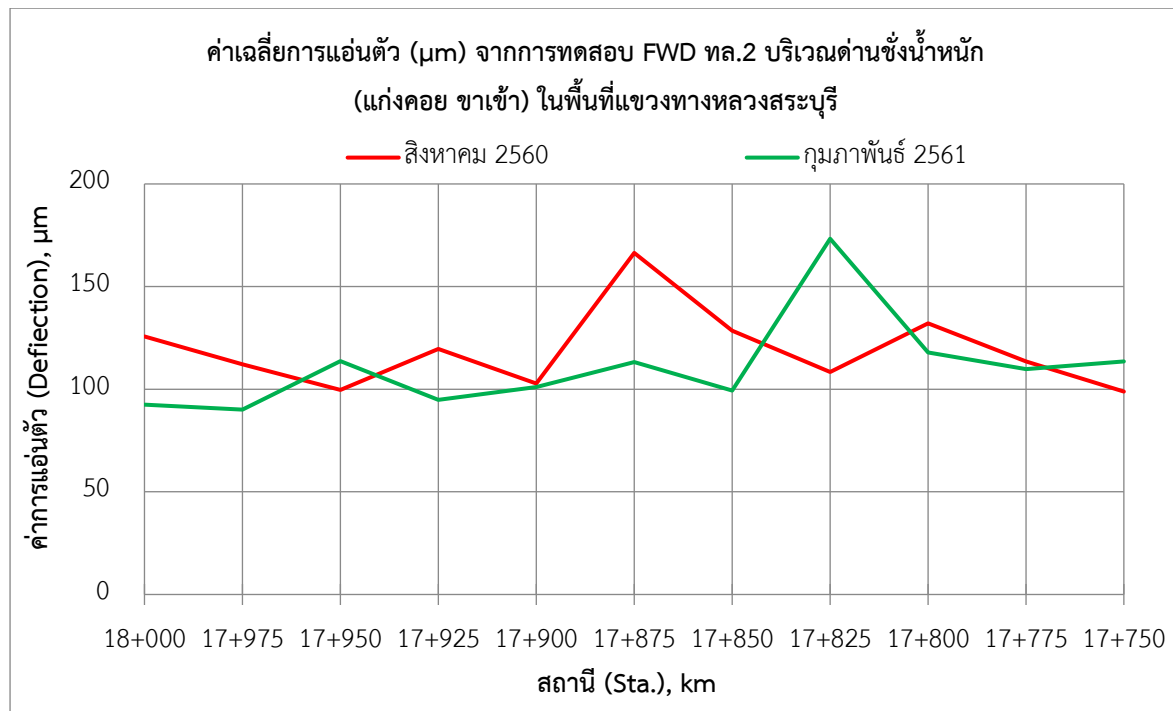


3.3 จ.สระบุรี (แก่งคอย ขาเข้า)

ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.2 บริเวณด้านข้างน้ำหนัก (แก่งคอย ขาเข้า) ในพื้นที่แขวงทางหลวงสระบุรี (สิงหาคม 2560)											
Sta.	18+ 000	17+ 975	17+ 950	17+ 925	17+ 900	17+ 875	17+ 850	17+ 825	17+ 800	17+ 775	17+ 750
ครั้งที่ 1	128.30	134.30	97.00	136.20	109.20	113.30	168.60	97.40	153.20	108.70	102.70
ครั้งที่ 2	123.80	100.90	101.10	106.50	98.30	167.70	108.50	108.30	115.20	129.50	94.10
ครั้งที่ 3	124.80	101.30	100.80	116.30	100.60	218.20	108.40	119.30	128.10	102.30	99.80
ค่าเฉลี่ย	125.63	112.17	99.63	119.67	102.70	166.40	128.50	108.33	132.17	113.50	98.87
ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.2 บริเวณด้านข้างน้ำหนัก (แก่งคอย ขาเข้า) ในพื้นที่แขวงทางหลวงสระบุรี (กุมภาพันธ์ 2561)											
Sta.	18+ 000	17+ 975	17+ 950	17+ 925	17+ 900	17+ 875	17+ 850	17+ 825	17+ 800	17+ 775	17+ 750
ครั้งที่ 1	87.90	87.80	116.10	94.50	100.30	113.50	98.90	169.60	116.30	106.50	101.70
ครั้งที่ 2	91.90	90.40	112.50	93.90	101.90	112.30	100.60	163.30	113.10	113.10	106.80
ครั้งที่ 3	97.60	92.00	112.40	96.10	101.10	114.10	98.50	187.00	124.20	109.70	132.20
ค่าเฉลี่ย	92.47	90.07	113.67	94.83	101.10	113.30	99.33	173.30	117.87	109.77	113.57

ค่าเฉลี่ยการแอ่นตัว (μm) จากการทดสอบ FWD ทล.2 บริเวณด้านข้างน้ำหนัก (แก่งคอย ขาเข้า) ในพื้นที่แขวงทางหลวงสระบุรี												
Sta.	18+ 000	17+ 975	17+ 950	17+ 925	17+ 900	17+ 875	17+ 850	17+ 825	17+ 800	17+ 775	17+ 750	ค่าเฉลี่ย
ส.ค.60	125.63	112.17	99.63	119.67	102.70	166.40	128.50	108.33	132.17	113.50	98.87	118.87
ก.พ.61	92.47	90.07	113.67	94.83	101.10	113.30	99.33	173.30	117.87	109.77	113.57	110.84
ค่าเฉลี่ย	109.05	101.12	106.65	107.25	101.90	139.85	113.92	140.82	125.02	111.63	106.22	114.86

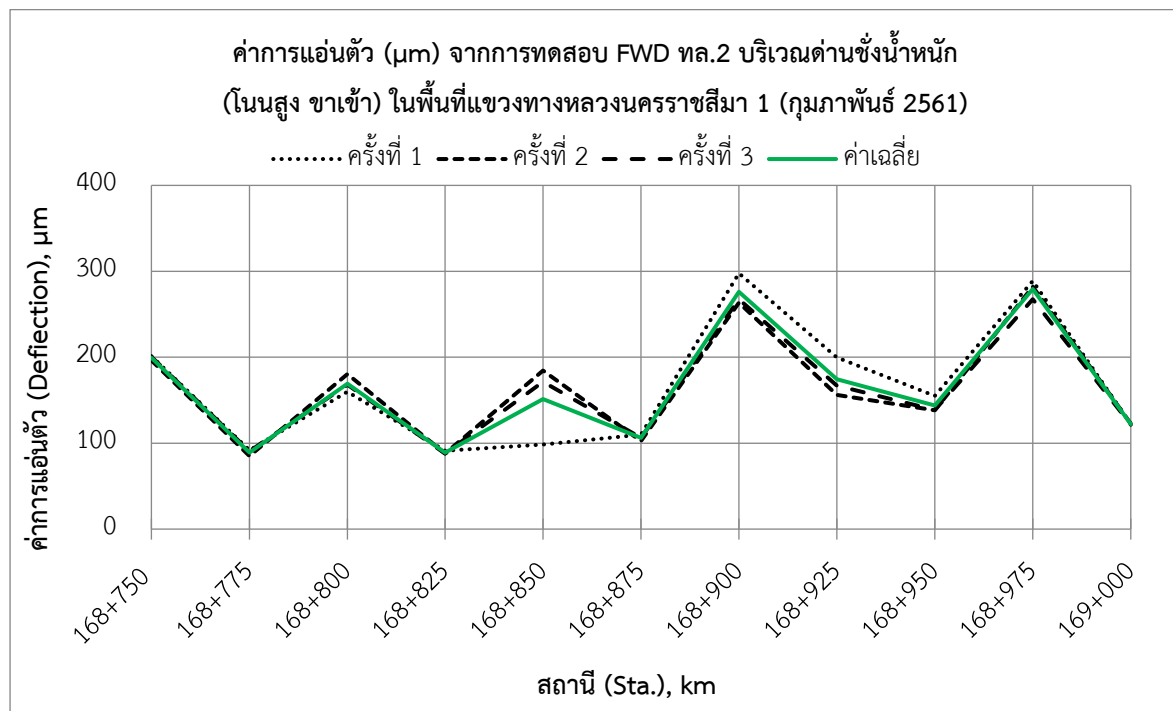
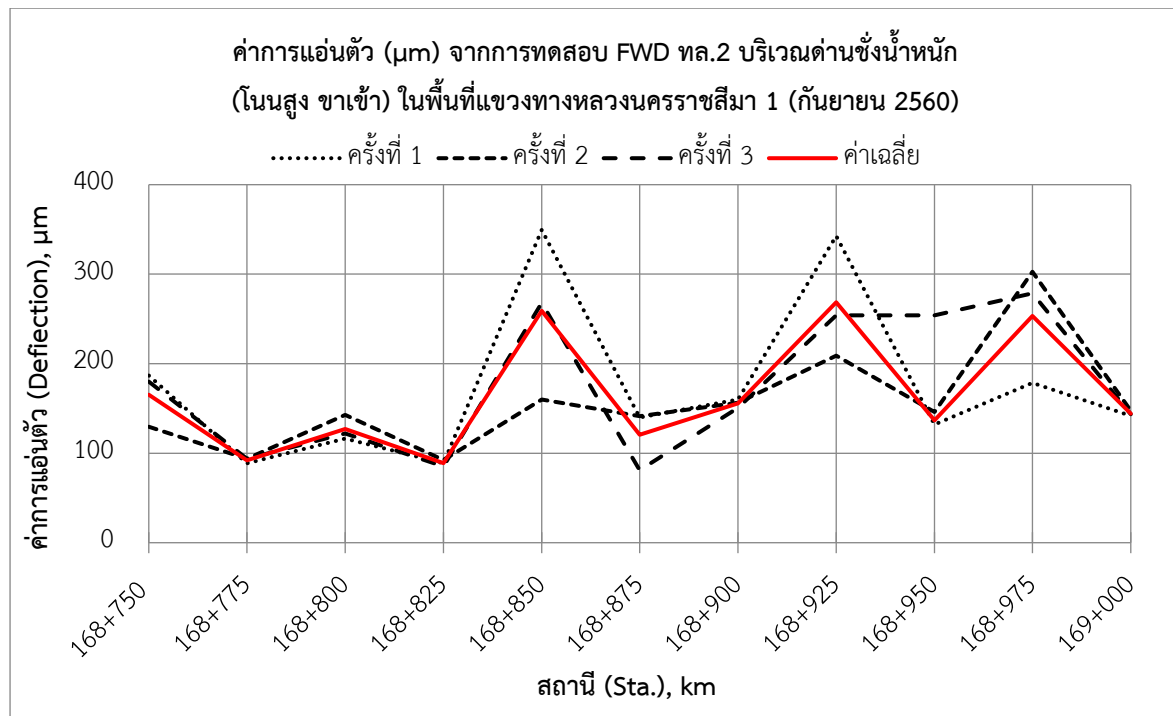


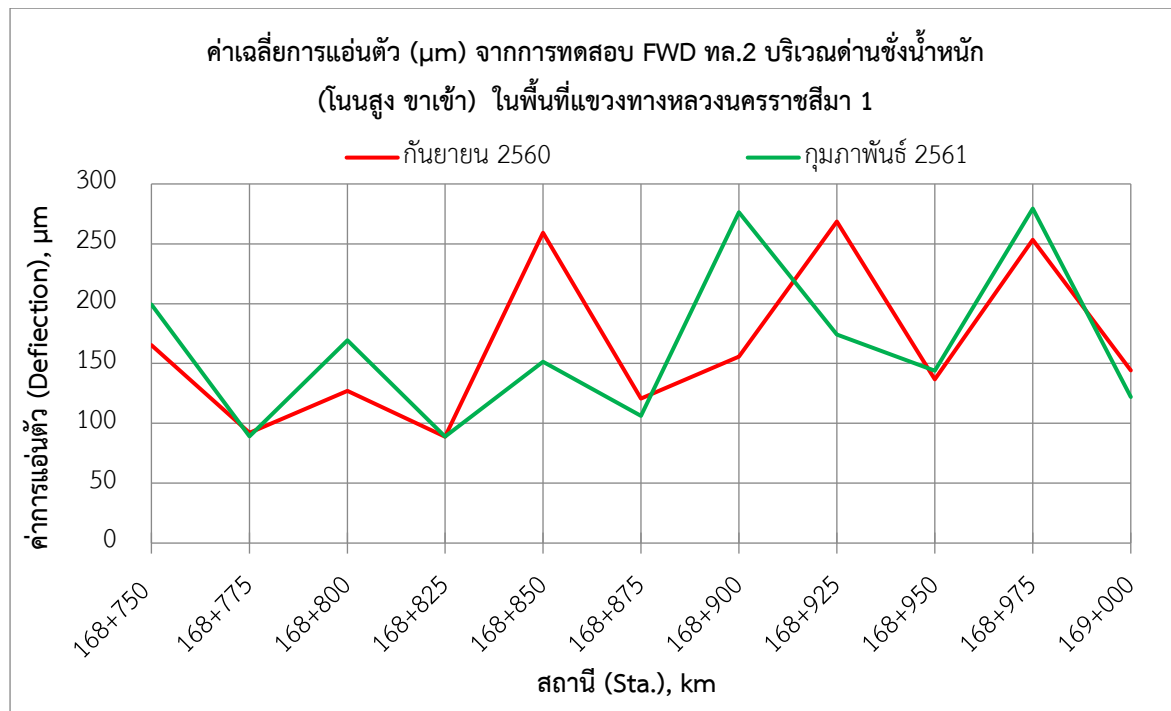


3.4 จ.นครราชสีมา (โนนสูง ขาเข้า)

ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.2 บริเวณด้านข้างน้ำหนัก (โนนสูง ขาเข้า) ในพื้นที่แขวงทางหลวงนครราชสีมา 1 (ก้นยาน 2560)											
Sta.	168+ 750	168+ 775	168+ 800	168+ 825	168+ 850	168+ 875	168+ 900	168+ 925	168+ 950	168+ 975	169+ 000
ครั้งที่ 1	186.90	88.70	116.40	88.90	349.50	139.90	160.00	342.90	131.90	178.50	141.80
ครั้งที่ 2	129.50	93.90	142.70	92.40	160.10	141.30	156.20	208.90	145.90	302.70	147.60
ครั้งที่ 3	180.00	93.70	122.20	85.30	267.90	81.00	150.80	254.00	254.00	278.60	143.60
ค่าเฉลี่ย	165.47	92.10	127.10	88.87	259.17	120.73	155.67	268.60	136.77	253.27	144.33
ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.2 บริเวณด้านข้างน้ำหนัก (โนนสูง ขาเข้า) ในพื้นที่แขวงทางหลวงนครราชสีมา 1 (กุ่มภาพันธุ์ 2561)											
Sta.	168+ 750	168+ 775	168+ 800	168+ 825	168+ 850	168+ 875	168+ 900	168+ 925	168+ 950	168+ 975	169+ 000
ครั้งที่ 1	201.10	91.70	159.80	91.20	98.50	110.10	297.70	199.70	154.90	288.70	122.40
ครั้งที่ 2	196.50	85.10	180.20	87.80	184.50	102.50	263.50	156.10	138.20	282.10	122.50
ครั้งที่ 3	200.60	90.50	168.00	87.90	171.40	106.10	267.50	167.10	138.80	267.50	121.50
ค่าเฉลี่ย	199.40	89.10	169.33	88.97	151.47	106.23	276.23	174.30	143.97	279.43	122.13

ค่าเฉลี่ยการแอ่นตัว (μm) จากการทดสอบ FWD ทล.2 บริเวณด้านข้างน้ำหนัก (โนนสูง ขาเข้า) ในพื้นที่แขวงทางหลวงนครราชสีมา 1												
Sta.	168+ 750	168+ 775	168+ 800	168+ 825	168+ 850	168+ 875	168+ 900	168+ 925	168+ 950	168+ 975	169+ 000	ค่าเฉลี่ย
ก.ย. 60	165.47	92.10	127.10	88.87	259.17	120.73	155.67	268.60	136.77	253.27	144.33	164.73
ก.พ. 61	199.40	89.10	169.33	88.97	151.47	106.23	276.23	174.30	143.97	279.43	122.13	163.69
ค่าเฉลี่ย	182.43	90.60	148.22	88.92	205.32	113.48	215.95	221.45	140.37	266.35	133.23	164.21

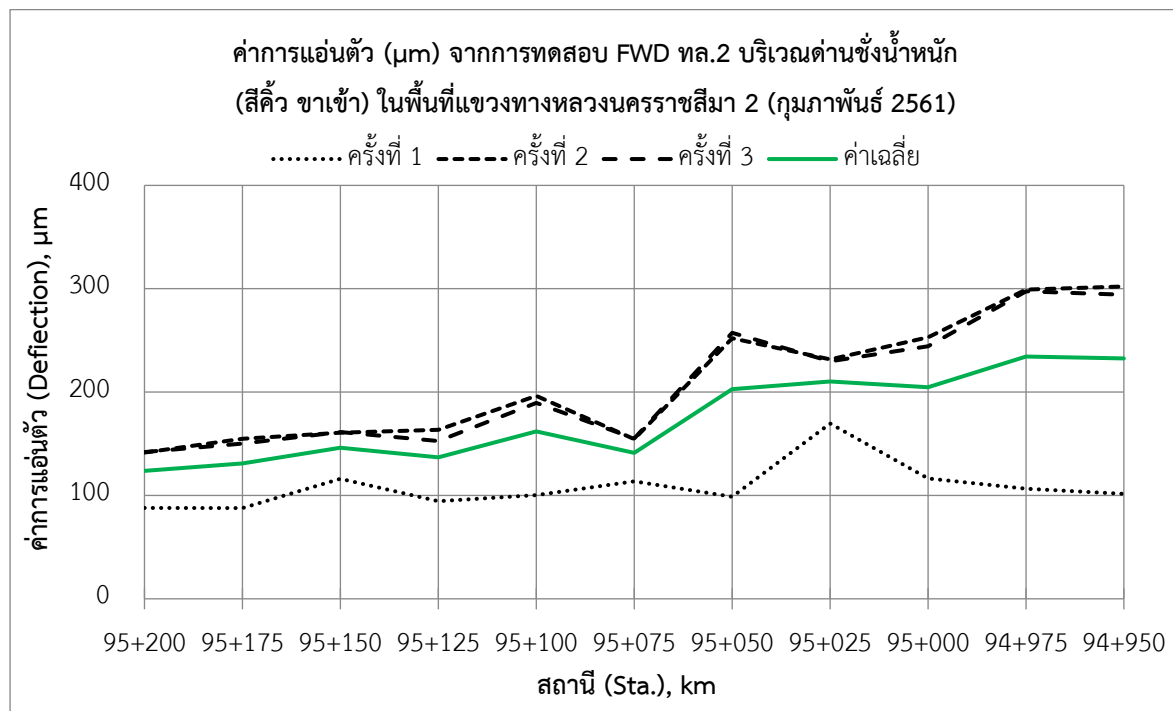
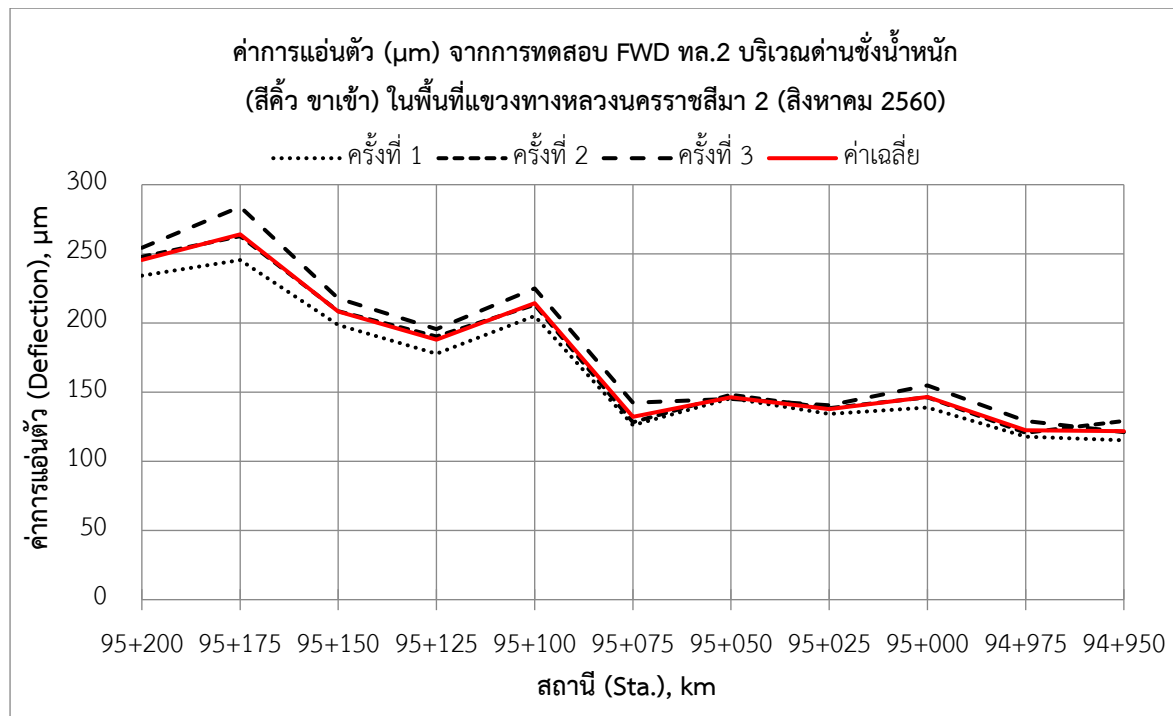


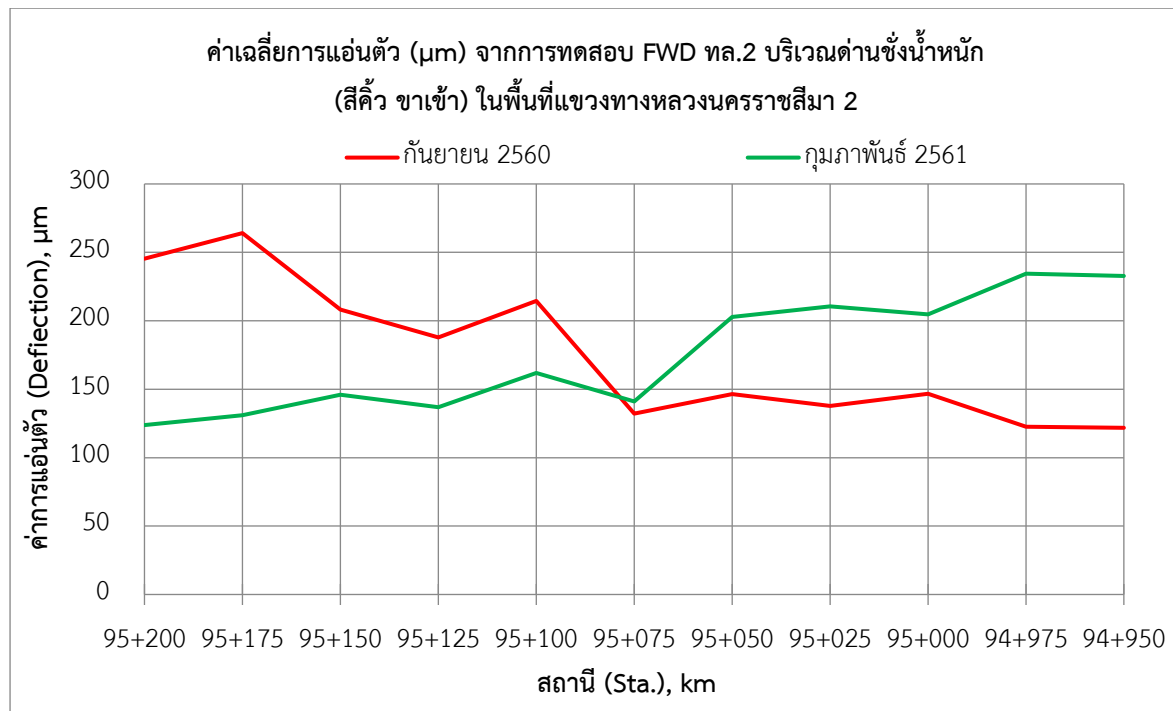


3.5 จ.นครราชสีมา (สี่คิ้ว ขาเข้า)

ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.2 บริเวณด้านข้างน้ำหนัก (สี่คิ้ว ขาเข้า) ในพื้นที่แขวงทางหลวงนครราชสีมา 2 (สิงหาคม 2560)											
Sta.	95+ 200	95+ 175	95+ 150	95+ 125	95+ 100	95+ 075	95+ 050	95+ 025	95+ 000	94+ 975	94+ 950
ครั้งที่ 1	234.20	245.50	198.50	177.70	205.10	126.10	145.70	134.30	138.80	117.90	115.20
ครั้งที่ 2	247.90	262.80	208.50	190.30	213.20	128.20	148.10	138.40	146.20	120.60	129.10
ครั้งที่ 3	254.40	284.00	217.90	195.60	225.00	142.40	145.20	140.50	154.80	129.20	121.10
ค่าเฉลี่ย	245.50	264.10	208.30	187.87	214.43	132.23	146.33	137.73	146.60	122.57	121.80
ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.2 บริเวณด้านข้างน้ำหนัก (สี่คิ้ว ขาเข้า) ในพื้นที่แขวงทางหลวงนครราชสีมา 2 (กุมภาพันธ์ 2561)											
Sta.	95+ 200	95+ 175	95+ 150	95+ 125	95+ 100	95+ 075	95+ 050	95+ 025	95+ 000	94+ 975	94+ 950
ครั้งที่ 1	87.90	87.80	116.10	94.50	100.30	113.50	98.90	169.60	116.30	106.50	101.70
ครั้งที่ 2	141.50	154.80	160.80	163.40	196.20	154.60	252.00	231.80	253.10	299.30	302.20
ครั้งที่ 3	142.00	150.30	161.30	152.60	189.50	155.20	257.40	229.90	244.50	297.50	294.20
ค่าเฉลี่ย	123.80	130.97	146.07	136.83	162.00	141.10	202.77	210.43	204.63	234.43	232.70

ค่าเฉลี่ยการแอ่นตัว (μm) จากการทดสอบ FWD ทล.2 บริเวณด้านข้างน้ำหนัก (สี่คิ้ว ขาเข้า) ในพื้นที่แขวงทางหลวงนครราชสีมา 2												
Sta.	95+ 200	95+ 175	95+ 150	95+ 125	95+ 100	95+ 075	95+ 050	95+ 025	95+ 000	94+ 975	94+ 950	ค่าเฉลี่ย
ก.ค. 60	245.50	264.10	208.30	187.87	214.43	132.23	146.33	137.73	146.60	122.57	121.80	175.22
ม.ค. 61	123.80	130.97	146.07	136.83	162.00	141.10	202.77	210.43	204.63	234.43	232.70	175.07
ค่าเฉลี่ย	184.65	197.53	177.18	162.35	188.22	136.67	174.55	174.08	175.62	178.50	177.25	175.15



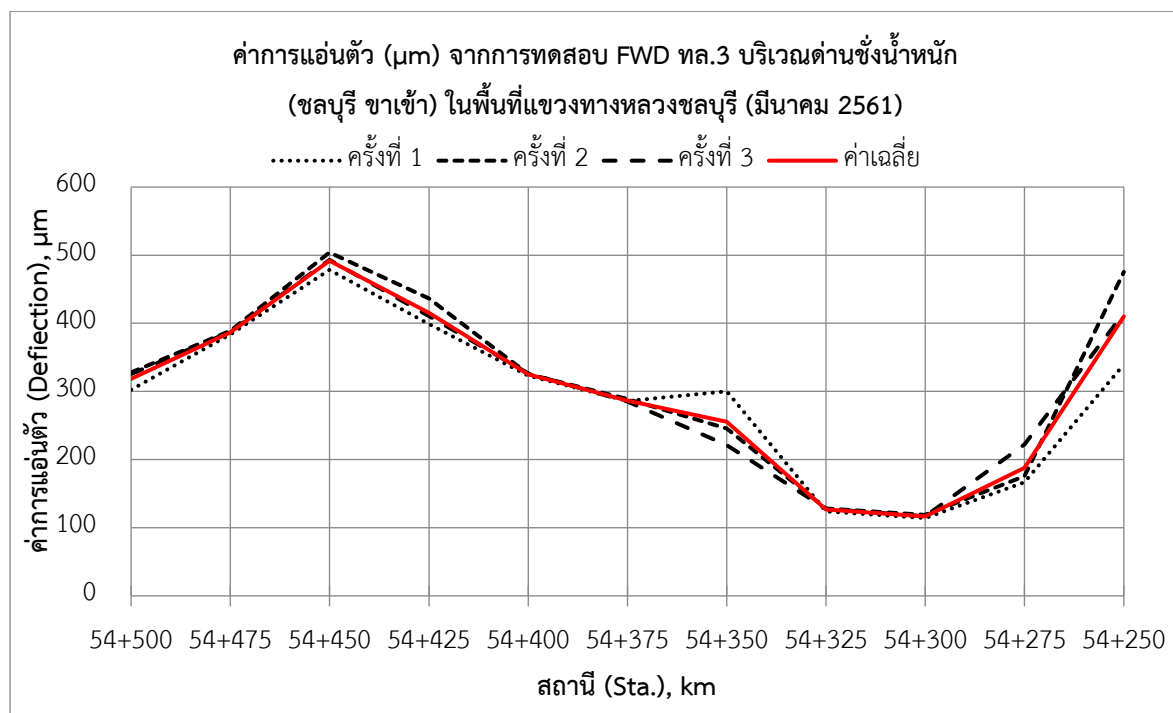


4. ภาคตะวันออก

4. ภาคตะวันออก				
ทางหลวง	ทล.3	ทล.331	ทล.33	ทล.36
บริเวณ	ด้านซ้ายหน้า (ชลบุรี ขาเข้า) ในพื้นที่ แขวงทางหลวงชลบุรี	ด้านซ้ายหน้า (ศรีราชา ขาเข้า) ใน พื้นที่แขวงทางหลวง ชลบุรี	ด้านซ้ายหน้า (วัฒนานคร ขาออก) ใน พื้นที่แขวงทางหลวง สระแก้ว (วัฒนานคร)	ด้านซ้ายหน้า (ระยอง ขาเข้า) ในพื้นที่ แขวงทางหลวงระยอง
Sta., km	54+500	47+300	267+000	28+825
	54+475	47+275	267+025	28+800
	54+450	47+250	267+050	28+775
	54+425	47+225	267+075	28+750
	54+400	47+200	267+100	28+725
	54+375	47+175	267+125	28+700
	54+350	47+150	267+150	28+675
	54+325	47+125	267+175	28+650
	54+300	47+110	267+200	28+625
	54+275	47+085	267+225	28+600
	54+250	47+060	267+250	28+575

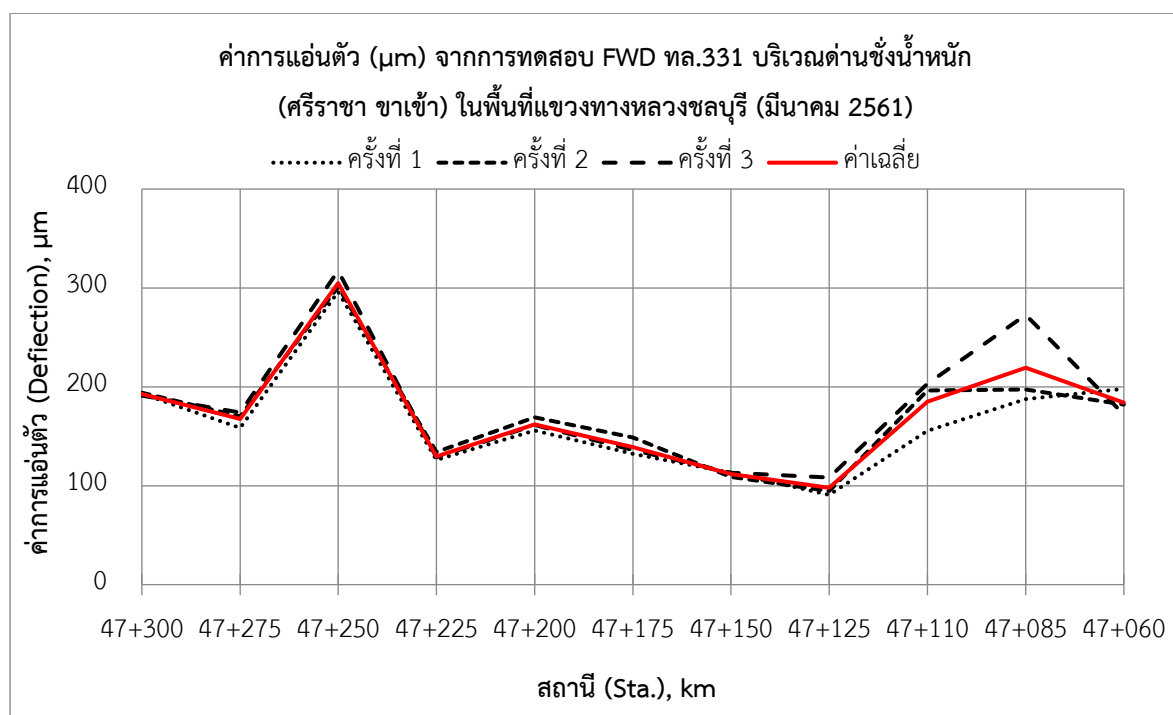
4.1 จ.ชลบุรี (ชลบุรี ขาเข้า)

ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.3 บริเวณด่านซังน้ำหนัก (ชลบุรี ขาเข้า) ในพื้นที่แขวงทางหลวงชลบุรี (มีนาคม 2561)												
Sta.	54+500	54+475	54+450	54+425	54+400	54+375	54+350	54+325	54+300	54+275	54+250	ค่าเฉลี่ย
ครั้งที่ 1	302.60	383.60	478.40	399.00	323.00	285.90	300.10	124.00	114.20	166.60	339.60	292.45
ครั้งที่ 2	327.70	389.10	504.00	436.30	325.40	288.70	245.50	128.40	118.90	175.70	475.40	310.46
ครั้งที่ 3	325.60	387.50	493.10	410.70	326.30	285.10	221.20	127.60	116.80	222.00	415.30	302.84
ค่าเฉลี่ย	318.63	386.73	491.83	415.33	324.90	286.57	255.60	126.67	116.63	188.10	410.10	301.92



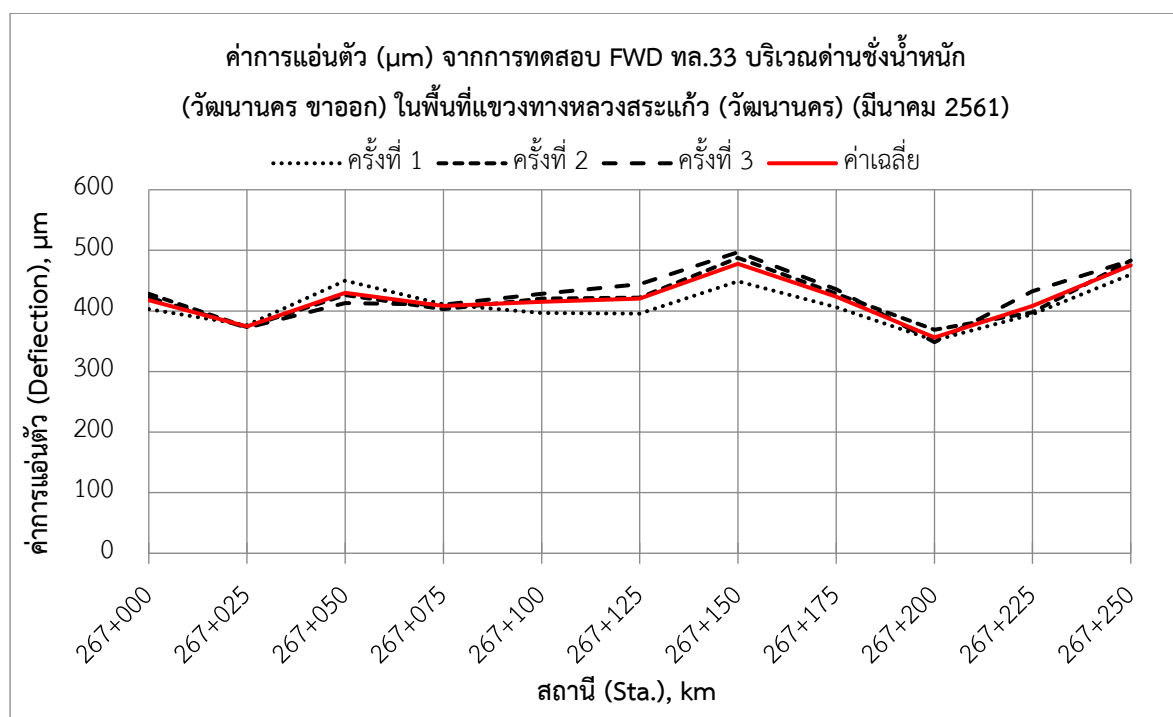
4.2 จ.ชลบุรี (ศรีราชา ขาเข้า)

ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.331 บริเวณด้านข้างน้ำหนัก (ศรีราชา ขาเข้า) ในพื้นที่แขวงทางหลวงชลบุรี (มีนาคม 2561)												
Sta.	47+300	47+275	47+250	47+225	47+200	47+175	47+150	47+125	47+110	47+085	47+060	ค่าเฉลี่ย
ครั้งที่ 1	193.10	158.60	296.20	126.00	155.90	132.20	113.20	90.80	155.40	187.60	198.10	164.28
ครั้งที่ 2	194.00	170.10	301.10	134.30	169.10	148.70	109.10	94.70	196.20	197.30	182.00	172.42
ครั้งที่ 3	191.30	174.10	317.30	128.80	161.30	136.00	113.00	108.30	203.10	272.70	172.20	179.83
ค่าเฉลี่ย	192.80	167.60	304.87	129.70	162.10	138.97	111.77	97.93	184.90	219.20	184.10	172.18



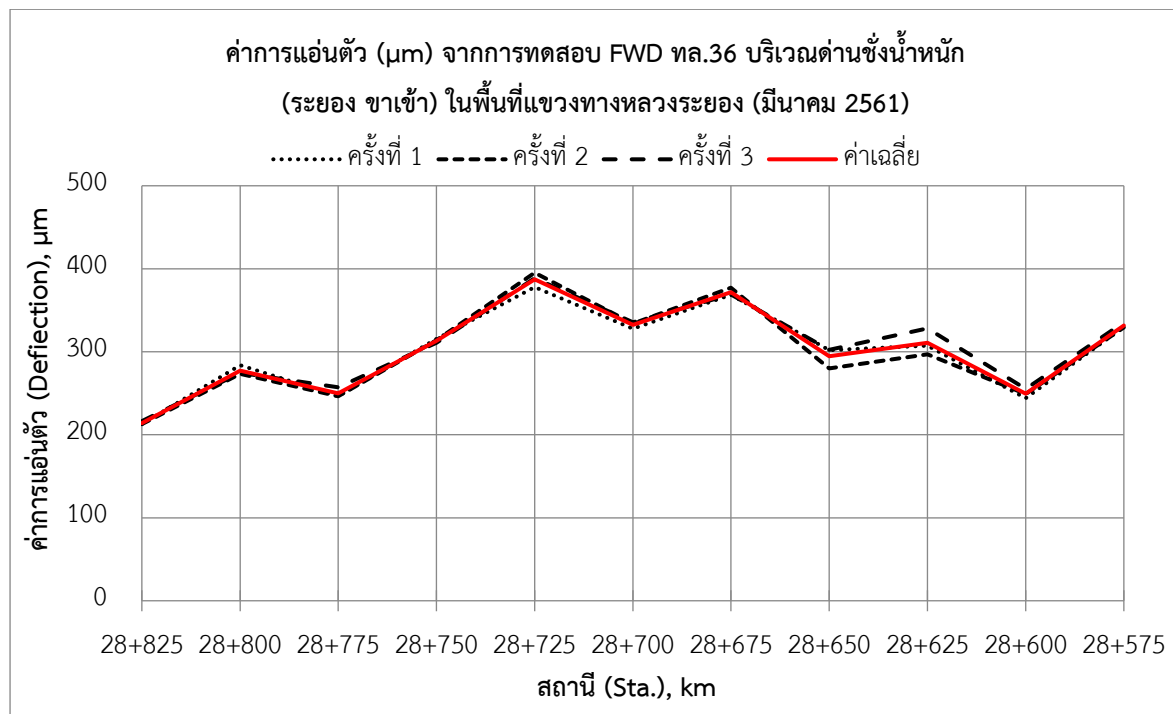
4.3 จ.สระแก้ว (วัฒนานคร ขาออก)

ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.33 บริเวณด้านข้างน้ำหนัก (วัฒนานคร ขาออก) ในพื้นที่แขวงทางหลวงสระแก้ว (วัฒนานคร) (มีนาคม 2561)												
Sta.	267+000	267+025	267+050	267+075	267+100	267+125	267+150	267+175	267+200	267+225	267+250	ค่าเฉลี่ย
ครั้งที่ 1	402.70	376.70	449.90	411.10	396.80	395.50	448.90	405.90	351.40	394.30	460.20	408.49
ครั้งที่ 2	428.20	373.40	426.10	402.80	420.30	422.10	487.60	428.50	368.90	397.90	483.00	421.71
ครั้งที่ 3	422.50	372.40	413.00	410.40	428.40	444.20	496.90	435.60	348.40	432.60	483.10	426.14
ค่าเฉลี่ย	417.80	374.17	429.67	408.10	415.17	420.60	477.80	423.33	356.23	408.27	475.43	418.78



4.4 จ.ระยอง (ระยอง ขาเข้า)

ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.36 บริเวณด้านข้างน้ำหนัก (ระยอง ขาเข้า) ในพื้นที่แขวงทางหลวงระยอง (มีนาคม 2561)												
Sta.	28+ 825	28+ 800	28+ 775	28+ 750	28+ 725	28+ 700	28+ 675	28+ 650	28+ 625	28+ 600	28+ 575	ค่าเฉลี่ย
ครั้งที่ 1	212.70	283.70	246.50	315.40	377.90	327.80	368.70	301.80	307.30	244.20	330.00	301.45
ครั้งที่ 2	212.80	273.40	246.20	313.70	395.20	333.90	377.30	279.90	296.80	249.10	329.50	300.71
ครั้งที่ 3	216.40	274.40	257.30	310.80	388.70	335.50	369.00	302.30	328.30	255.30	335.50	306.68
ค่าเฉลี่ย	213.97	277.17	250.00	313.30	387.27	332.40	371.67	294.67	310.80	249.53	331.67	302.95

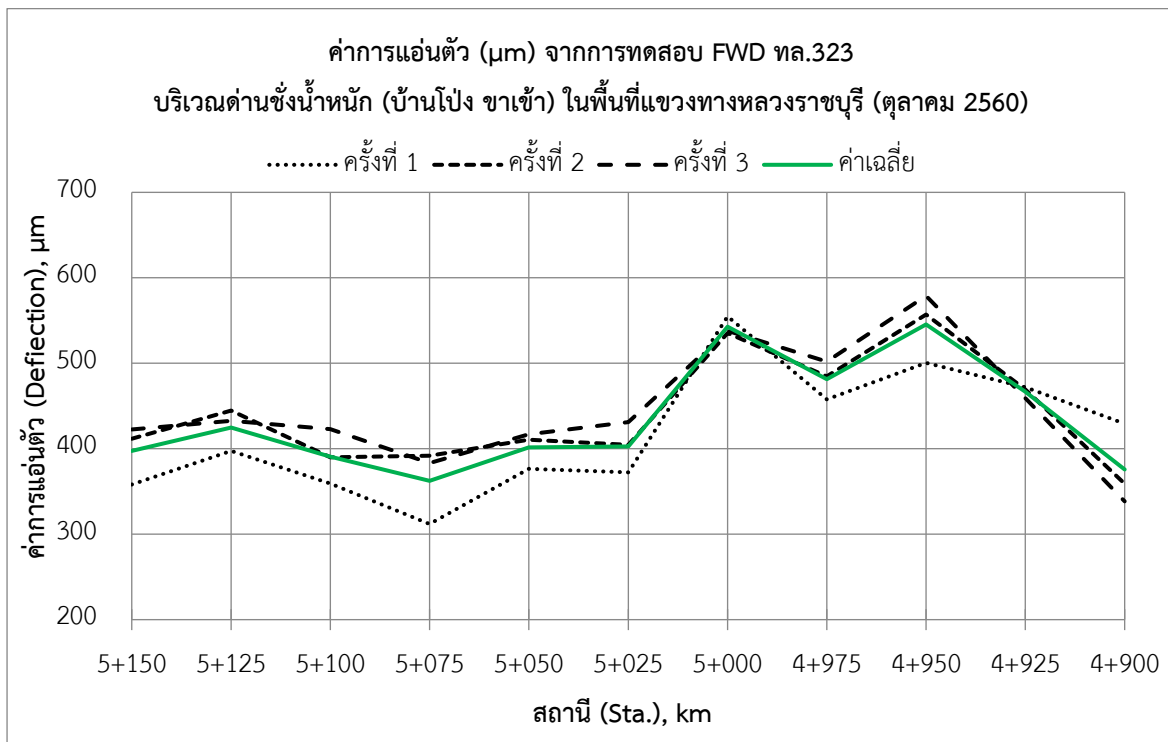
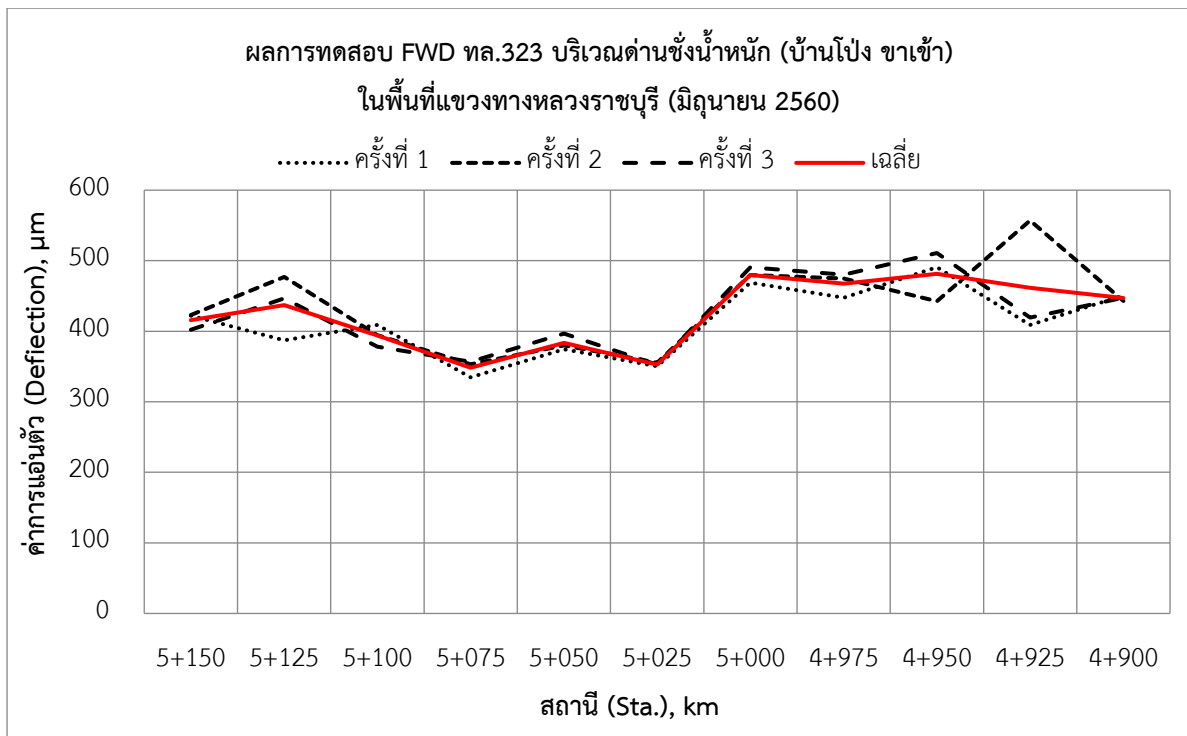


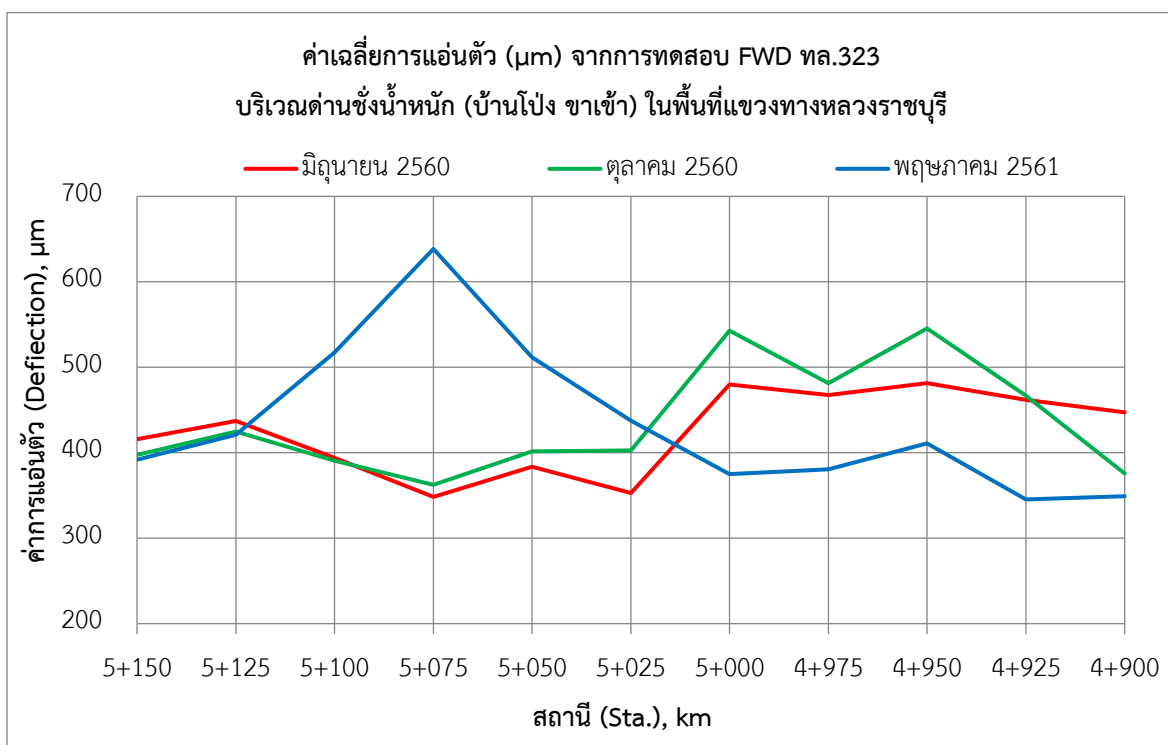
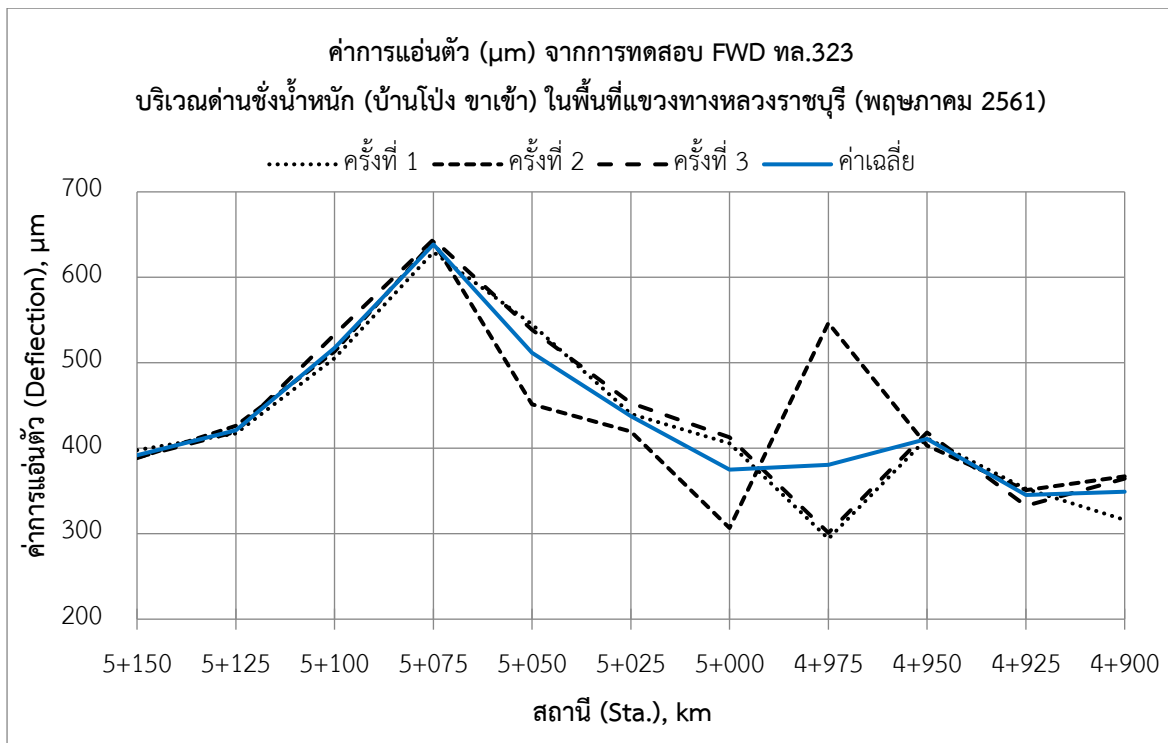
5. ภาคใต้

5. ภาคใต้						
ทางหลวง	ทล.323	ทล.4	ทล.4	ทล.4	ทล.4	ทล.4
บริเวณด่าน ซ่งน้ำหนัก	(บ้านโป่ง ขา เข้า) ในพื้นที่ แขวงทางหลวง ราชบุรี	(ท่าแซะ ขา ออก) ในพื้นที่ แขวงทาง หลวงชุมพร	(โพธาราม ขา เข้า) ในพื้นที่ แขวงทาง หลวงราชบุรี- ลือชัย	(โพธาราม ขา เข้า) ในพื้นที่ แขวงทาง หลวงราชบุรี- ลือขวา	(ประจวบคีรีขันธ์ ขาเข้า) ในพื้นที่ แขวงทางหลวง ประจวบคีรีขันธ์	(ท่ายาง ขา ออก) ใน พื้นที่แขวง ทางหลวง เพชรบุรี
Sta., km	5+150	473+500	88+770	88+770	305+000	170+750
	5+125	473+525	88+745	88+745	304+975	170+775
	5+100	473+550	88+720	88+720	304+950	170+800
	5+075	473+575	88+695	88+695	304+925	170+825
	5+050	473+600	88+670	88+670	304+900	170+850
	5+025	473+625	88+645	88+645	304+875	170+875
	5+000	473+650	88+620	88+620	304+850	170+900
	4+975	473+675	88+595	88+595	304+825	170+925
	4+950	473+700	88+570	88+570	304+800	170+950
	4+925	473+725	-	-	304+775	170+975
	4+900	473+750	-	-	304+750	171+000

5.1 จ.ราชบุรี (บ้านโป่ง ขาเข้า)

ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.323 บริเวณด้านข้างน้ำหนัก (บ้านโป่ง ขาเข้า)												
ในพื้นที่แขวงทางหลวงราชบุรี (มิถุนายน 2560)												
Sta.	5+150	5+125	5+100	5+075	5+050	5+025	5+000	4+975	4+950	4+925	4+900	
ครั้งที่ 1	421.90	387.40	409.10	334.70	374.30	350.40	468.90	447.40	490.80	408.80	450.60	
ครั้งที่ 2	422.90	477.10	394.60	353.20	379.70	355.50	479.60	474.90	442.50	557.00	443.20	
ครั้งที่ 3	402.30	446.80	378.20	357.00	396.90	352.50	490.50	480.00	510.90	419.50	447.50	
ค่าเฉลี่ย	415.70	437.10	393.97	348.30	383.63	352.80	479.67	467.43	481.40	461.77	447.10	
ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.323 บริเวณด้านข้างน้ำหนัก (บ้านโป่ง ขาเข้า)												
ในพื้นที่แขวงทางหลวงราชบุรี (ตุลาคม 2560)												
Sta.	5+150	5+125	5+100	5+075	5+050	5+025	5+000	4+975	4+950	4+925	4+900	
ครั้งที่ 1	358.10	397.30	359.30	311.90	376.40	372.30	554.80	457.80	500.40	471.80	429.30	
ครั้งที่ 2	411.60	444.70	389.90	392.00	410.70	404.40	535.40	484.90	557.00	469.50	359.00	
ครั้งที่ 3	422.50	432.80	422.80	383.30	417.10	431.00	537.80	501.80	578.90	459.20	338.40	
ค่าเฉลี่ย	397.40	424.93	390.67	362.40	401.40	402.57	542.67	481.50	545.43	466.83	375.57	
ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.323 บริเวณด้านข้างน้ำหนัก (บ้านโป่ง ขาเข้า)												
ในพื้นที่แขวงทางหลวงราชบุรี (พฤษภาคม 2561)												
Sta.	5+150	5+125	5+100	5+075	5+050	5+025	5+000	4+975	4+950	4+925	4+900	
ครั้งที่ 1	397.70	417.30	505.50	629.50	545.10	440.30	405.80	294.10	411.80	352.40	316.00	
ครั้งที่ 2	388.60	426.30	513.30	641.70	451.30	419.70	306.70	546.60	402.90	351.10	367.10	
ครั้งที่ 3	389.10	419.10	533.20	644.30	538.50	452.90	412.70	301.00	418.60	332.50	364.50	
ค่าเฉลี่ย	391.80	420.90	517.33	638.50	511.63	437.63	375.07	380.57	411.10	345.33	349.20	
ค่าเฉลี่ยการแอ่นตัว (μm) จากการทดสอบ FWD ทล.323 บริเวณด้านข้างน้ำหนัก (บ้านโป่ง ขาเข้า)												
ในพื้นที่แขวงทางหลวงราชบุรี												
Sta.	5+150	5+125	5+100	5+075	5+050	5+025	5+000	4+975	4+950	4+925	4+900	ค่าเฉลี่ย
มิ.ย. 60	415.70	437.10	393.97	348.30	383.63	352.80	479.67	467.43	481.40	461.77	447.10	424.44
พ.ย. 60	397.40	424.93	390.67	362.40	401.40	402.57	542.67	481.50	545.43	466.83	375.57	435.58
พ.ค. 61	391.80	420.90	517.33	638.50	511.63	437.63	375.07	380.57	411.10	345.33	349.20	434.46
ค่าเฉลี่ย	401.63	427.64	433.99	449.73	432.22	397.67	465.80	443.17	479.31	424.64	390.62	431.49

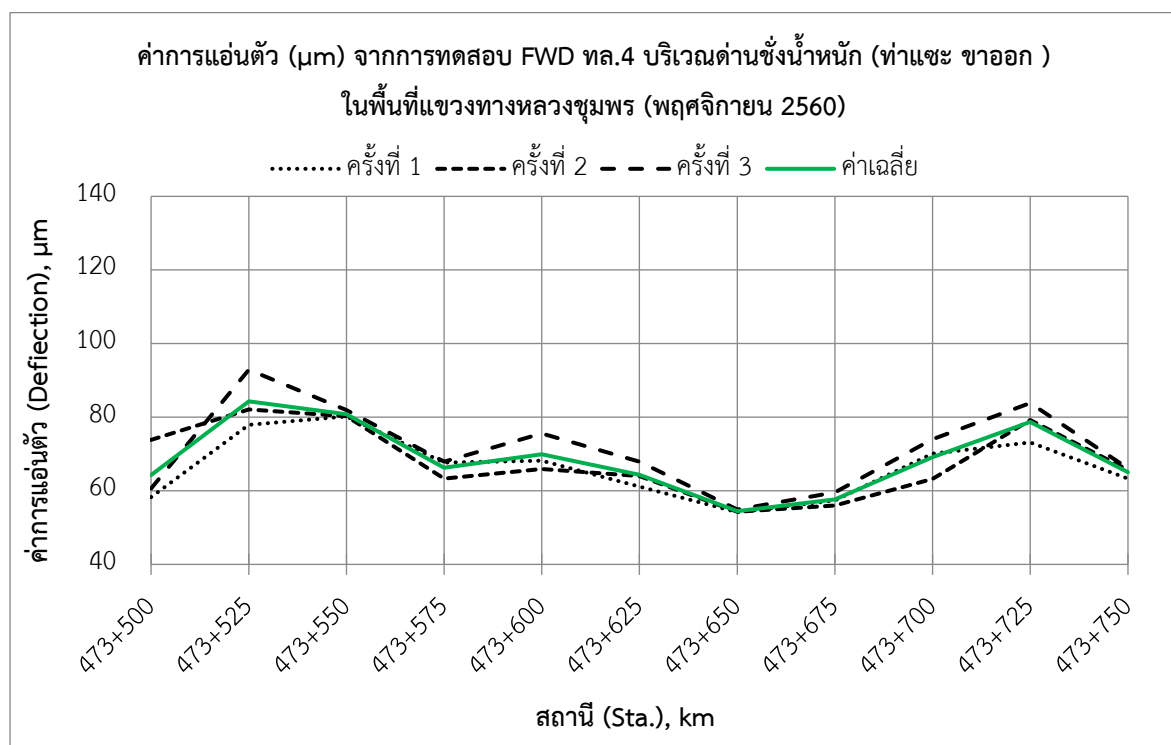
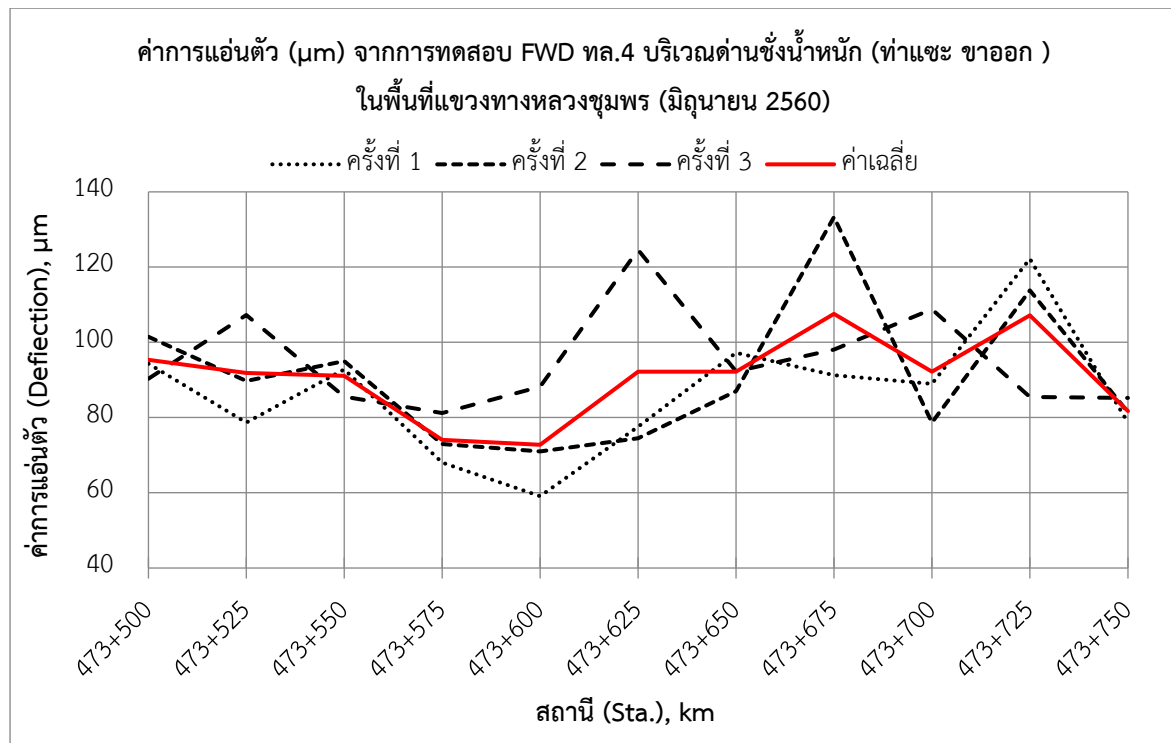


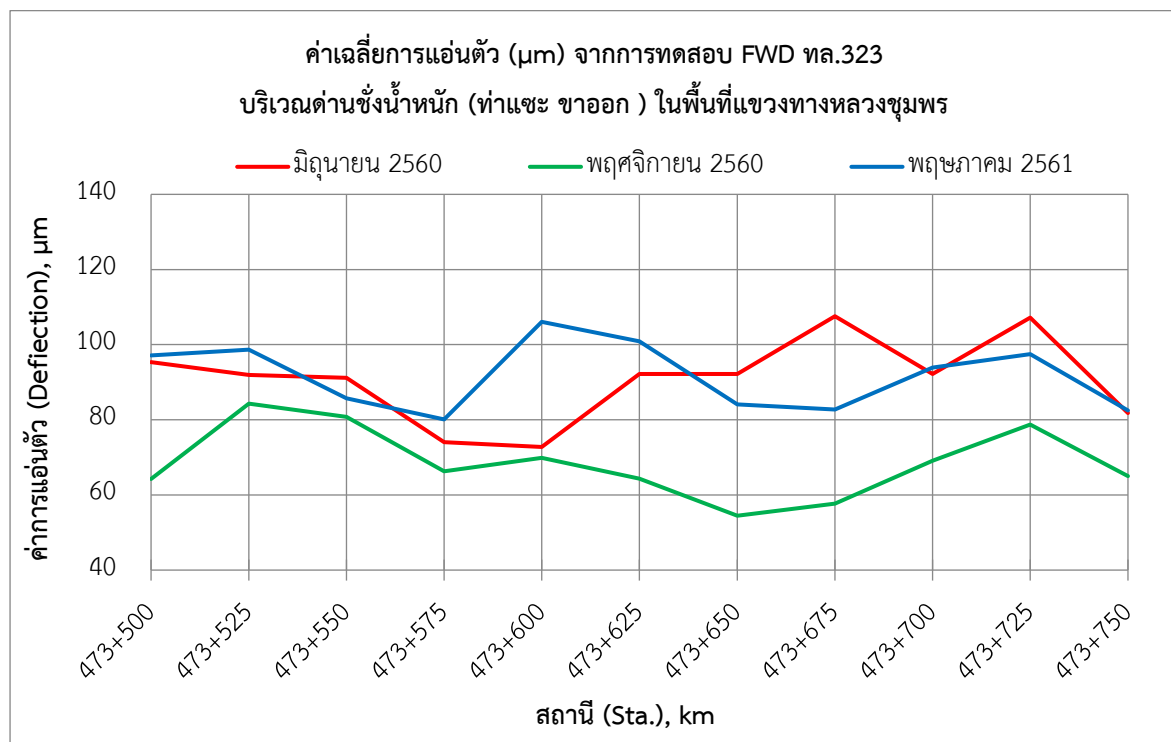
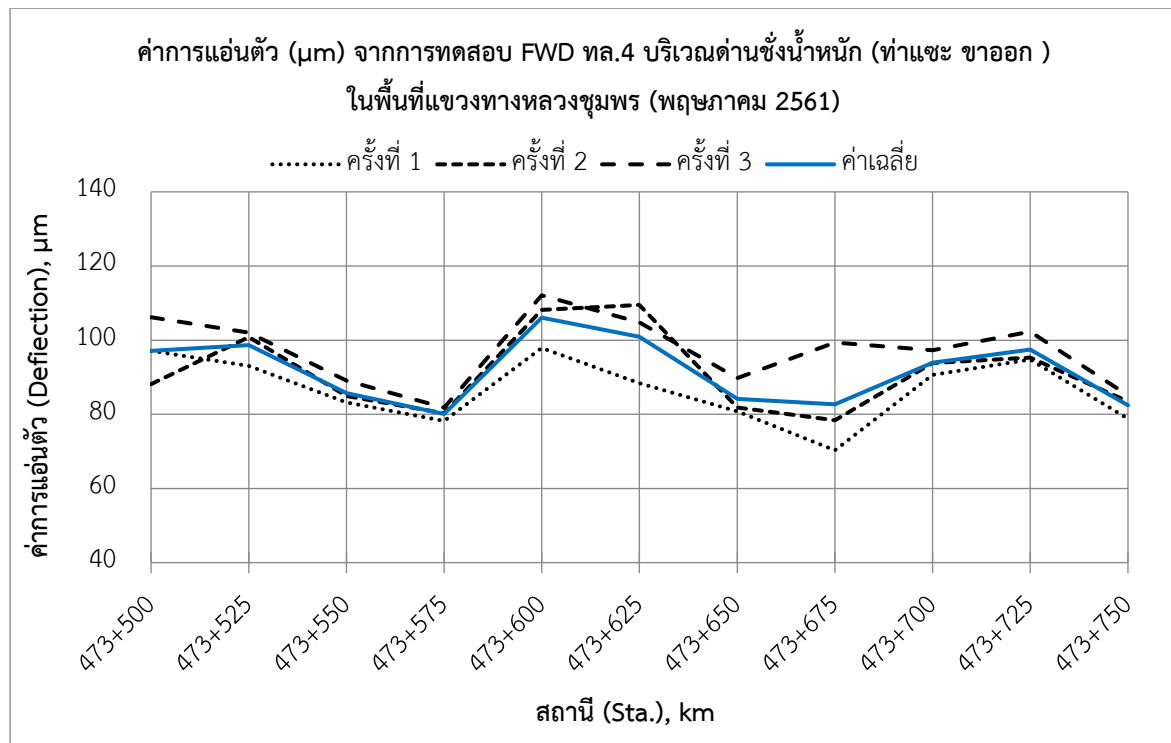


5.2 จ.ชุมพร (ท่าแซะ ขาออก)

ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.4 บริเวณด้านข้างน้ำหนัก (ท่าแซะ ขาออก) ในพื้นที่แขวงทางหลวงชุมพร (มิถุนายน 2560)											
Sta.	473 +500	473 +525	473 +550	473 +575	473 +600	473 +625	473 +650	473 +675	473 +700	473 +725	473 +750
ครั้งที่ 1	94.30	78.70	92.80	68.00	59.10	77.60	97.20	91.30	89.00	122.20	78.70
ครั้งที่ 2	101.50	89.70	95.00	73.00	71.00	74.50	87.00	133.30	78.70	113.80	81.40
ครั้งที่ 3	90.30	107.30	85.60	81.20	88.20	124.60	92.30	98.10	108.80	85.50	85.20
ค่าเฉลี่ย	95.37	91.90	91.13	74.07	72.77	92.23	92.17	107.57	92.17	107.17	81.77
ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.4 บริเวณด้านข้างน้ำหนัก (ท่าแซะ ขาออก) ในพื้นที่แขวงทางหลวงชุมพร (พฤศจิกายน 2560)											
Sta.	473 +500	473 +525	473 +550	473 +575	473 +600	473 +625	473 +650	473 +675	473 +700	473 +725	473 +750
ครั้งที่ 1	58.30	77.90	80.20	67.70	68.20	61.10	54.20	57.40	70.10	73.10	63.30
ครั้งที่ 2	73.80	82.10	80.30	63.30	65.90	64.00	54.30	56.00	63.20	79.20	65.70
ครั้งที่ 3	60.60	92.90	81.90	67.90	75.60	67.90	54.90	59.60	74.00	83.80	66.10
ค่าเฉลี่ย	64.23	84.30	80.80	66.30	69.90	64.33	54.47	57.67	69.10	78.70	65.03
ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.4 บริเวณด้านข้างน้ำหนัก (ท่าแซะ ขาออก) ในพื้นที่แขวงทางหลวงชุมพร (พฤษภาคม 2561)											
Sta.	473 +500	473 +525	473 +550	473 +575	473 +600	473 +625	473 +650	473 +675	473 +700	473 +725	473 +750
ครั้งที่ 1	97.10	93.10	83.20	78.20	97.90	88.40	80.80	70.30	90.60	94.80	78.80
ครั้งที่ 2	88.10	100.80	84.90	80.30	108.20	109.50	81.80	78.40	93.80	95.30	83.50
ครั้งที่ 3	106.20	102.00	89.10	81.80	112.10	104.80	89.80	99.40	97.30	102.30	85.10
ค่าเฉลี่ย	97.13	98.63	85.73	80.10	106.07	100.90	84.13	82.70	93.90	97.47	82.47

ค่าเฉลี่ยการแอ่นตัว (μm) จากการทดสอบ FWD ทล.323 บริเวณด้านข้างน้ำหนัก (ท่าแซะ ขาออก) ในพื้นที่แขวงทางหลวงชุมพร												
Sta.	473 +500	473 +525	473 +550	473 +575	473 +600	473 +625	473 +650	473 +675	473 +700	473 +725	473 +750	ค่าเฉลี่ย
มิ.ย. 60	95.37	91.90	91.13	74.07	72.77	92.23	92.17	107.57	92.17	107.17	81.77	90.75
พ.ย. 60	64.23	84.30	80.80	66.30	69.90	64.33	54.47	57.67	69.10	78.70	65.03	68.62
พ.ค. 61	97.13	98.63	85.73	80.10	106.07	100.90	84.13	82.70	93.90	97.47	82.47	91.75
ค่าเฉลี่ย	85.58	91.61	85.89	73.49	82.91	85.82	76.92	82.64	85.06	94.44	76.42	83.71

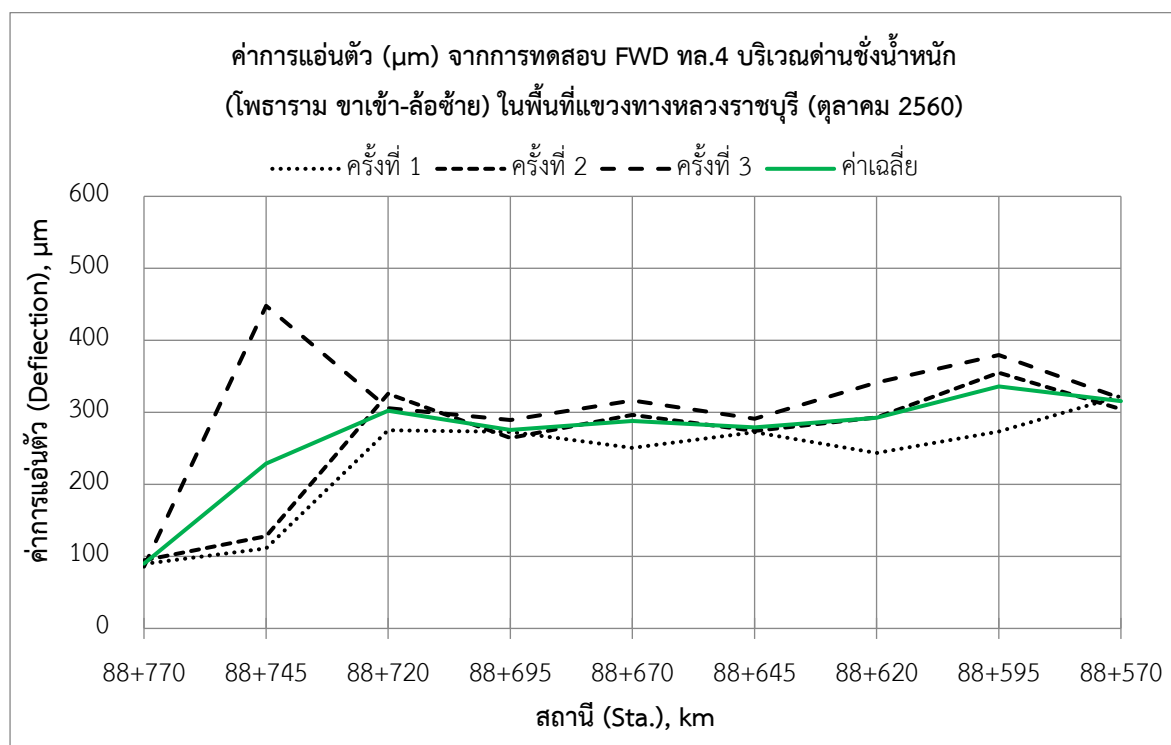
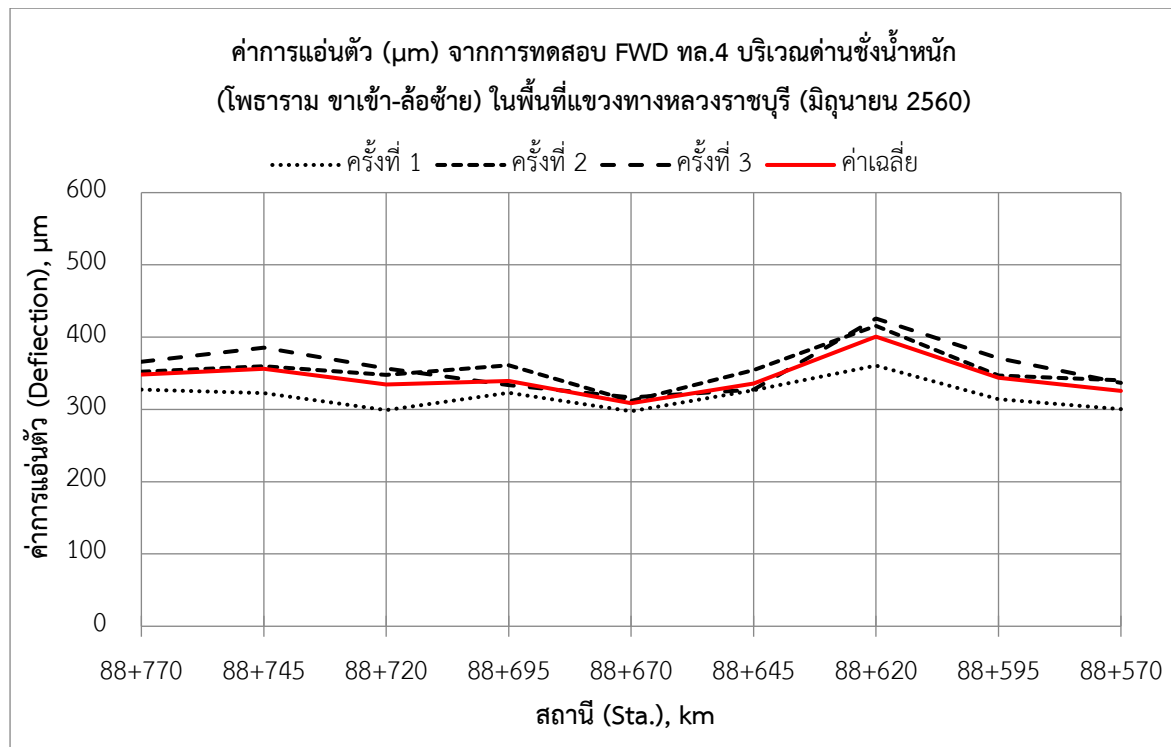


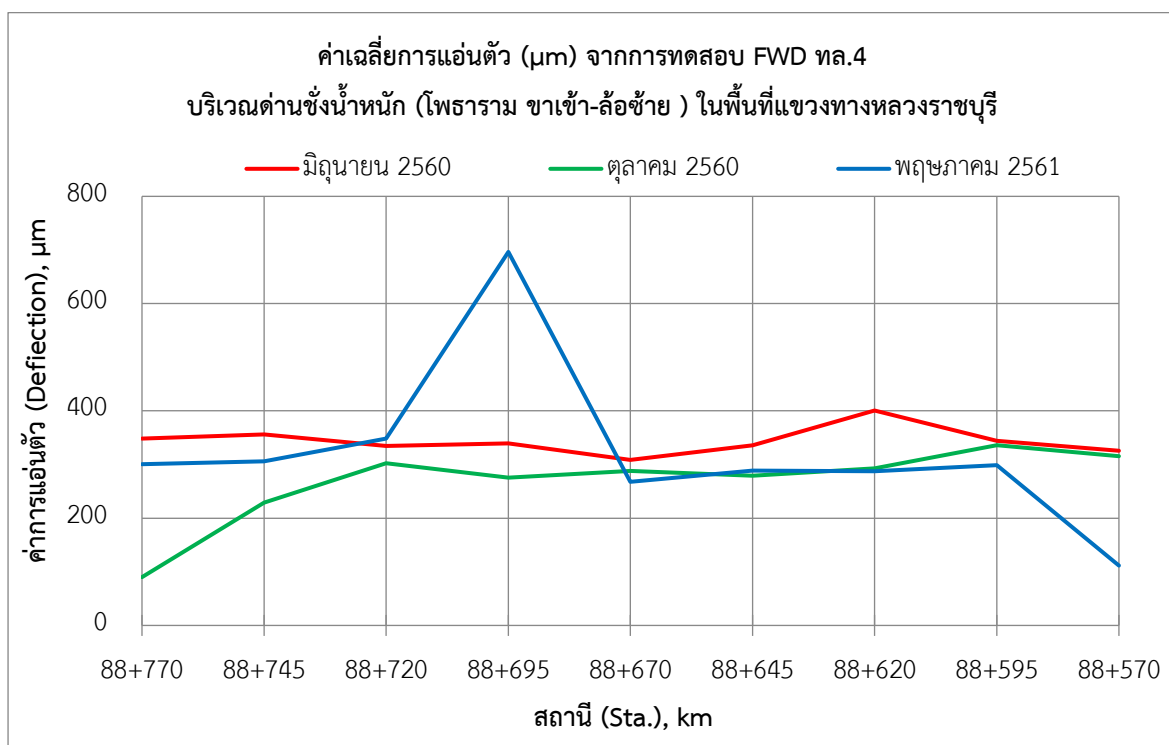
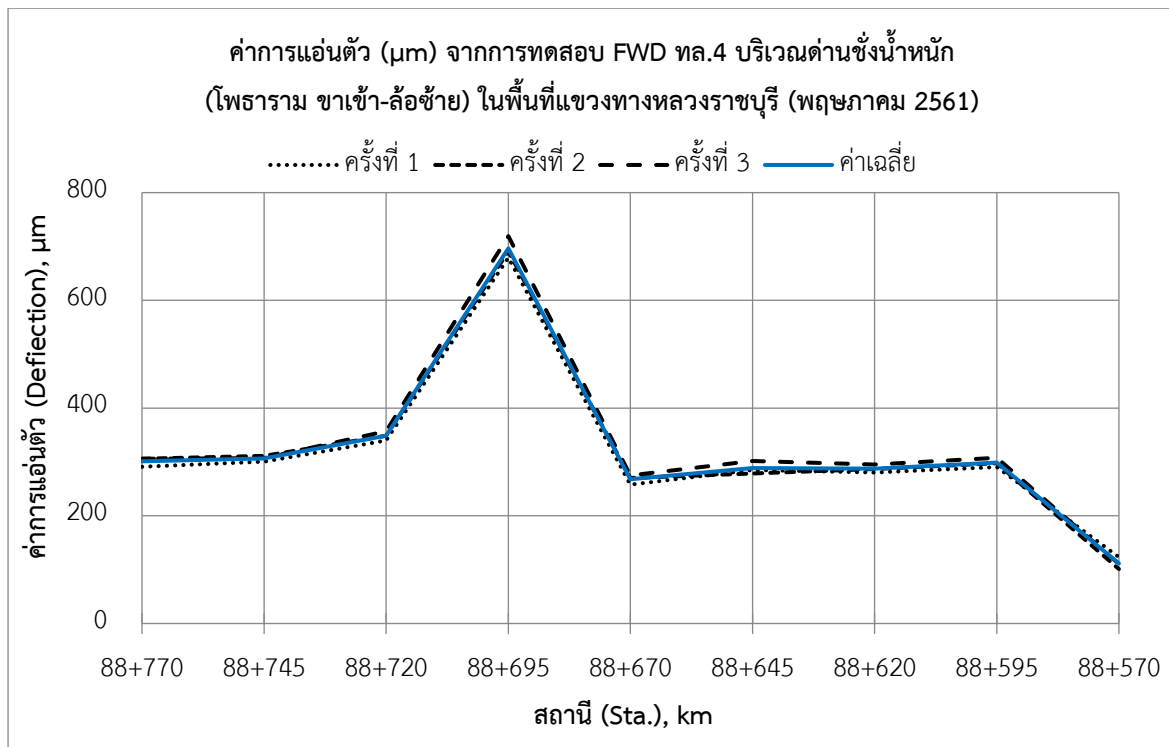


5.3 โพรธารม (โพรธารม ขาเข้า) (ล้อซ้าย)

ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.4 บริเวณด้านข้างน้ำหนัก (โพรธารม ขาเข้า) ในพื้นที่แขวงทางหลวงราชบุรี (มิถุนายน 2560)									
Sta.	88+770	88+745	88+720	88+695	88+670	88+645	88+620	88+595	88+570
ครั้งที่ 1	327.50	322.70	299.20	322.80	297.50	326.40	360.70	314.20	300.60
ครั้งที่ 2	352.10	359.90	347.90	361.00	311.70	354.50	415.60	347.00	340.10
ครั้งที่ 3	365.80	385.60	356.50	333.80	316.60	327.30	425.80	370.90	336.90
ค่าเฉลี่ย	348.47	356.07	334.53	339.20	308.60	336.07	400.70	344.03	325.87
ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.4 บริเวณด้านข้างน้ำหนัก (โพรธารม ขาเข้า) ในพื้นที่แขวงทางหลวงราชบุรี (ตุลาคม 2560)									
Sta.	88+770	88+745	88+720	88+695	88+670	88+645	88+620	88+595	88+570
ครั้งที่ 1	89.60	111.30	275.20	273.00	250.60	272.40	243.80	273.20	322.90
ครั้งที่ 2	94.60	128.10	325.70	264.60	296.60	274.10	292.90	355.10	304.70
ครั้งที่ 3	85.80	448.00	306.00	289.50	316.70	291.40	341.30	379.80	319.80
ค่าเฉลี่ย	90.00	229.13	302.30	275.70	287.97	279.30	292.67	336.03	315.80
ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.4 บริเวณด้านข้างน้ำหนัก (โพรธารม ขาเข้า) ในพื้นที่แขวงทางหลวงราชบุรี (พฤษภาคม 2561)									
Sta.	88+770	88+745	88+720	88+695	88+670	88+645	88+620	88+595	88+570
ครั้งที่ 1	291.30	300.50	339.90	679.10	257.70	285.00	280.60	290.50	123.30
ครั้งที่ 2	305.70	311.30	348.50	690.90	270.10	278.40	286.80	297.80	101.10
ครั้งที่ 3	305.70	306.80	356.90	719.20	274.90	302.00	295.10	307.90	110.40
ค่าเฉลี่ย	300.90	306.20	348.43	696.40	267.57	288.47	287.50	298.73	111.60

ค่าเฉลี่ยการแอ่นตัว (μm) จากการทดสอบ FWD ทล.4 บริเวณด้านข้างน้ำหนัก (โพธาราม ขาเข้า) ในพื้นที่แขวงทางหลวงราชบุรี										
Sta.	88+770	88+745	88+720	88+695	88+670	88+645	88+620	88+595	88+570	ค่าเฉลี่ย
มิ.ย. 60	348.47	356.07	334.53	339.20	308.60	336.07	400.70	344.03	325.87	343.73
ต.ค. 60	90.00	229.13	302.30	275.70	287.97	279.30	292.67	336.03	315.80	267.66
พ.ค. 61	300.90	306.20	348.43	696.40	267.57	288.47	287.50	298.73	111.60	322.87
ค่าเฉลี่ย	246.46	297.13	328.42	437.10	288.04	301.28	326.96	326.27	251.09	311.42

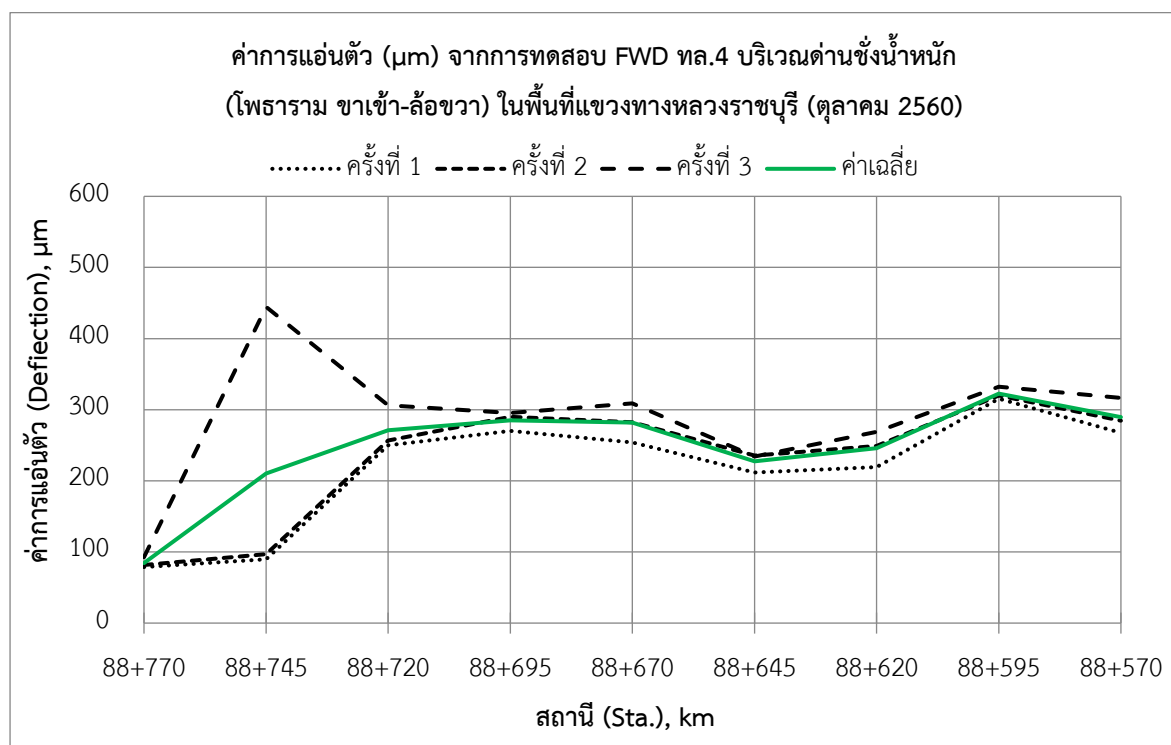
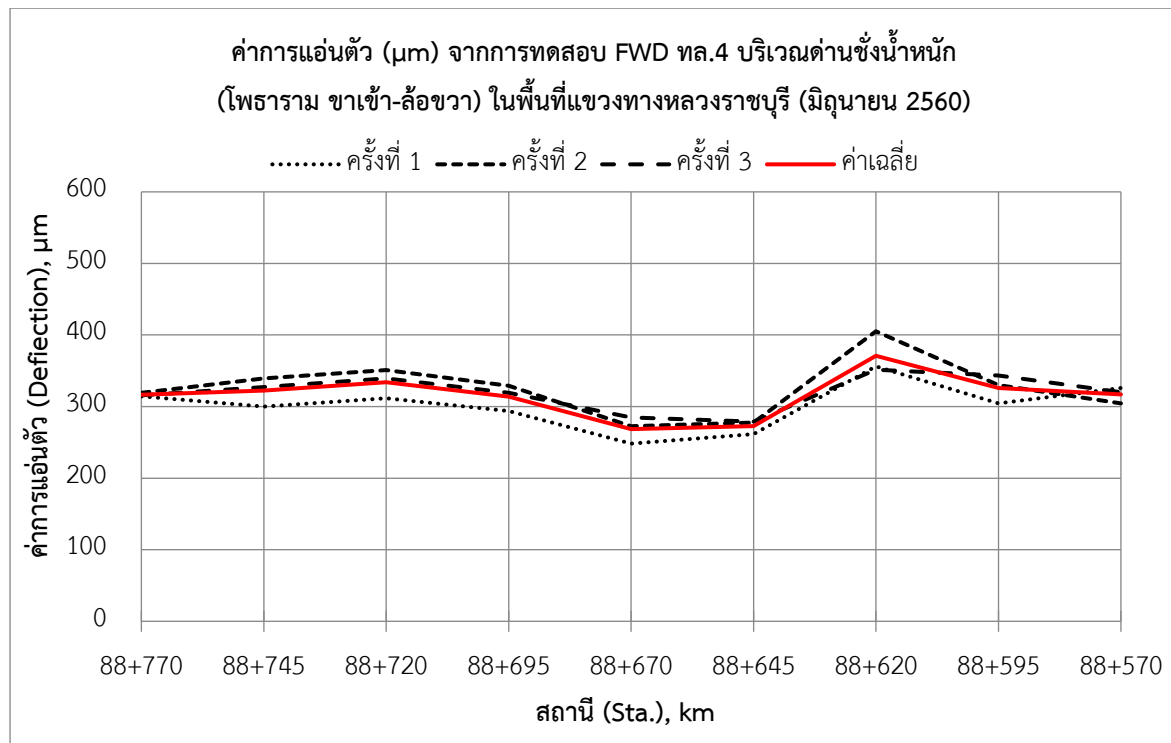


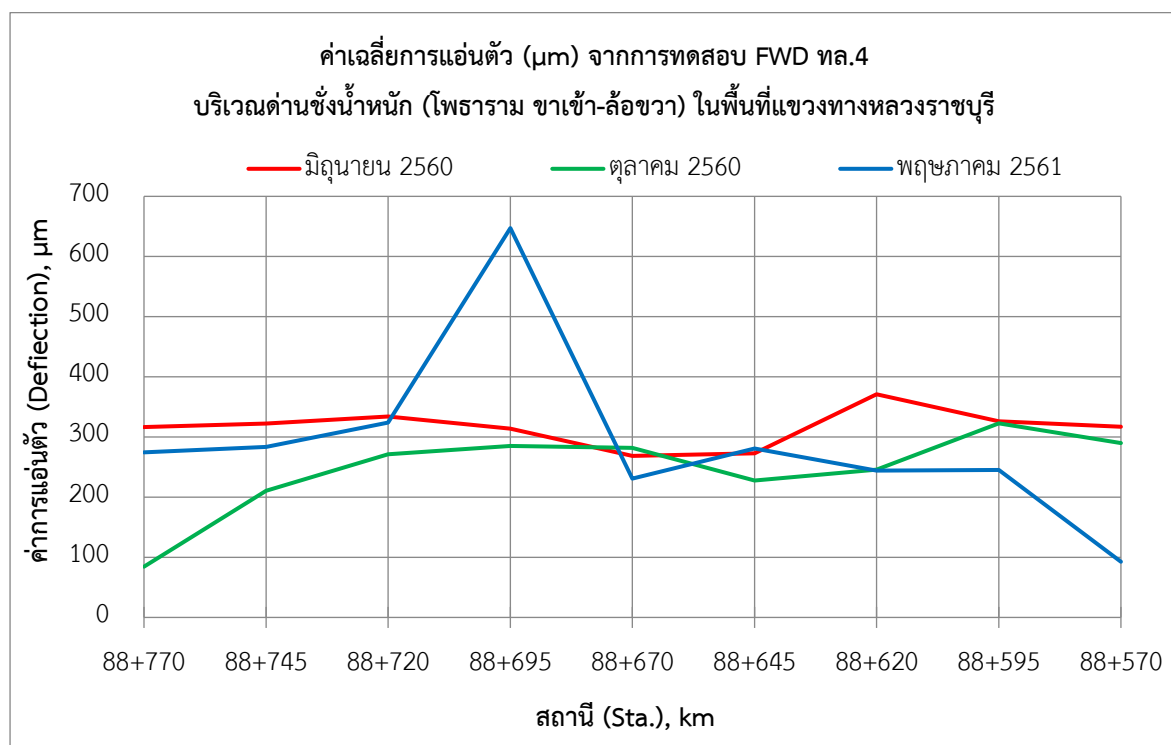
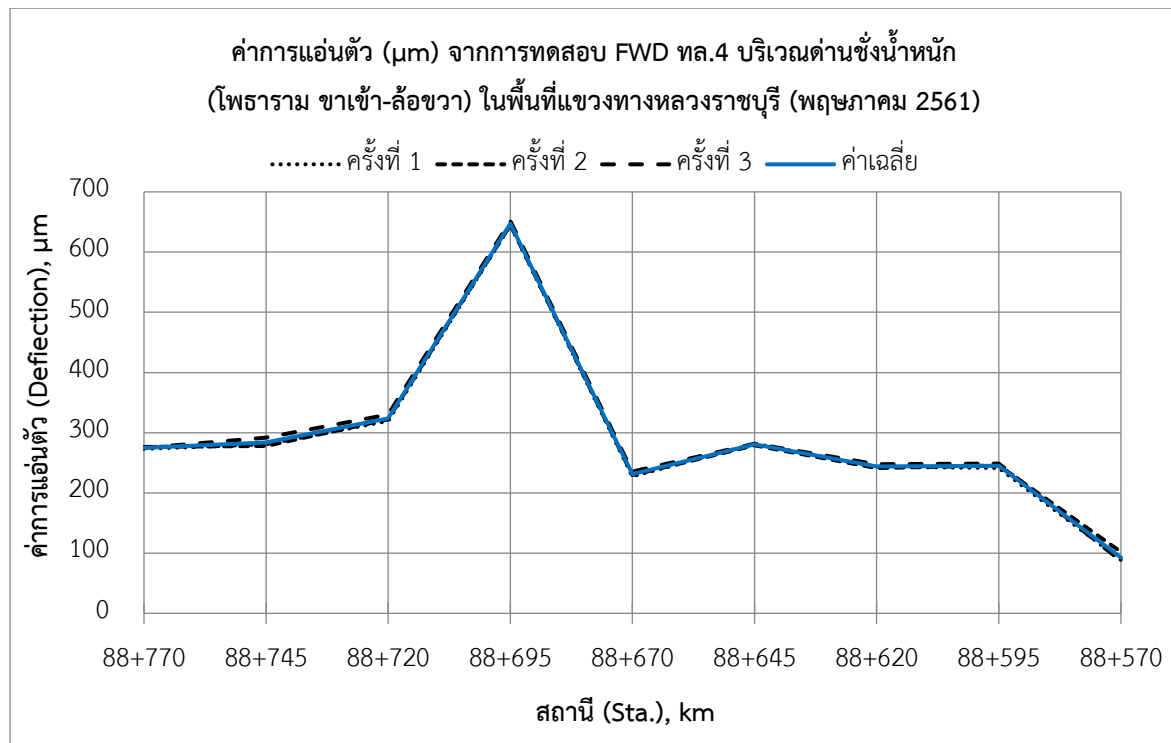


5.4 โพธาราม (โพธาราม ขาเข้า) (ล้อขวา)

ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.4 บริเวณด้านข้างน้ำหนัก (โพธาราม ขาเข้า) ในพื้นที่แขวงทางหลวงราชบุรี (มิถุนายน 2560)									
Sta.	88+770	88+745	88+720	88+695	88+670	88+645	88+620	88+595	88+570
ครั้งที่ 1	314.30	300.20	311.50	293.70	248.30	261.40	356.20	304.70	326.10
ครั้งที่ 2	319.20	339.40	351.00	329.10	272.60	277.50	405.20	330.10	304.30
ครั้งที่ 3	315.70	327.30	339.20	319.30	284.70	279.00	351.50	343.40	320.10
ค่าเฉลี่ย	316.40	322.30	333.90	314.03	268.53	272.63	370.97	326.07	316.83
ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.4 บริเวณด้านข้างน้ำหนัก (โพธาราม ขาเข้า) ในพื้นที่แขวงทางหลวงราชบุรี (ตุลาคม 2560)									
Sta.	88+770	88+745	88+720	88+695	88+670	88+645	88+620	88+595	88+570
ครั้งที่ 1	78.80	89.60	250.00	270.00	254.00	211.90	219.40	315.50	267.60
ครั้งที่ 2	81.70	96.70	256.70	290.00	282.50	235.70	249.00	320.00	284.60
ครั้งที่ 3	92.70	444.60	306.40	295.20	308.80	234.40	269.00	332.40	316.60
ค่าเฉลี่ย	84.40	210.30	271.03	285.07	281.77	227.33	245.80	322.63	289.60
ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.4 บริเวณด้านข้างน้ำหนัก (โพธาราม ขาเข้า) ในพื้นที่แขวงทางหลวงราชบุรี (พฤษภาคม 2561)									
Sta.	88+770	88+745	88+720	88+695	88+670	88+645	88+620	88+595	88+570
ครั้งที่ 1	273.00	280.60	319.70	644.70	227.60	281.90	243.40	241.40	88.80
ครั้งที่ 2	276.40	278.20	322.00	645.40	229.80	278.90	241.50	245.50	102.00
ครั้งที่ 3	274.60	292.00	330.00	651.50	235.60	281.70	247.60	248.90	86.90
ค่าเฉลี่ย	274.67	283.60	323.90	647.20	231.00	280.83	244.17	245.27	92.57

ค่าเฉลี่ยการแอ่นตัว (μm) จากการทดสอบ FWD ทล.4 บริเวณด้านข้างน้ำหนัก (โพธาราม ขาเข้า) ในพื้นที่แขวงทางหลวงราชบุรี										
Sta.	88+770	88+745	88+720	88+695	88+670	88+645	88+620	88+595	88+570	ค่าเฉลี่ย
มิ.ย. 60	316.40	322.30	333.90	314.03	268.53	272.63	370.97	326.07	316.83	315.74
ต.ค. 560	84.40	210.30	271.03	285.07	281.77	227.33	245.80	322.63	289.60	246.44
พ.ค. 61	274.67	283.60	323.90	647.20	231.00	280.83	244.17	245.27	92.57	291.47
ค่าเฉลี่ย	225.16	272.07	309.61	415.43	260.43	260.27	286.98	297.99	233.00	284.55

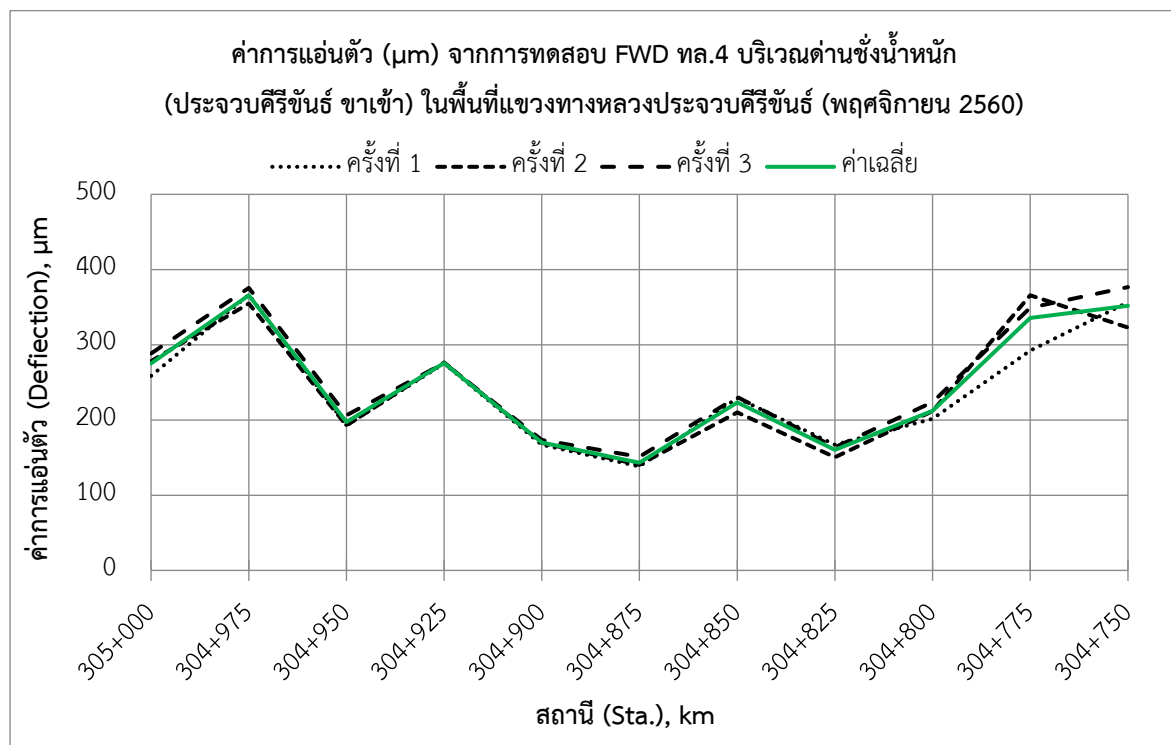
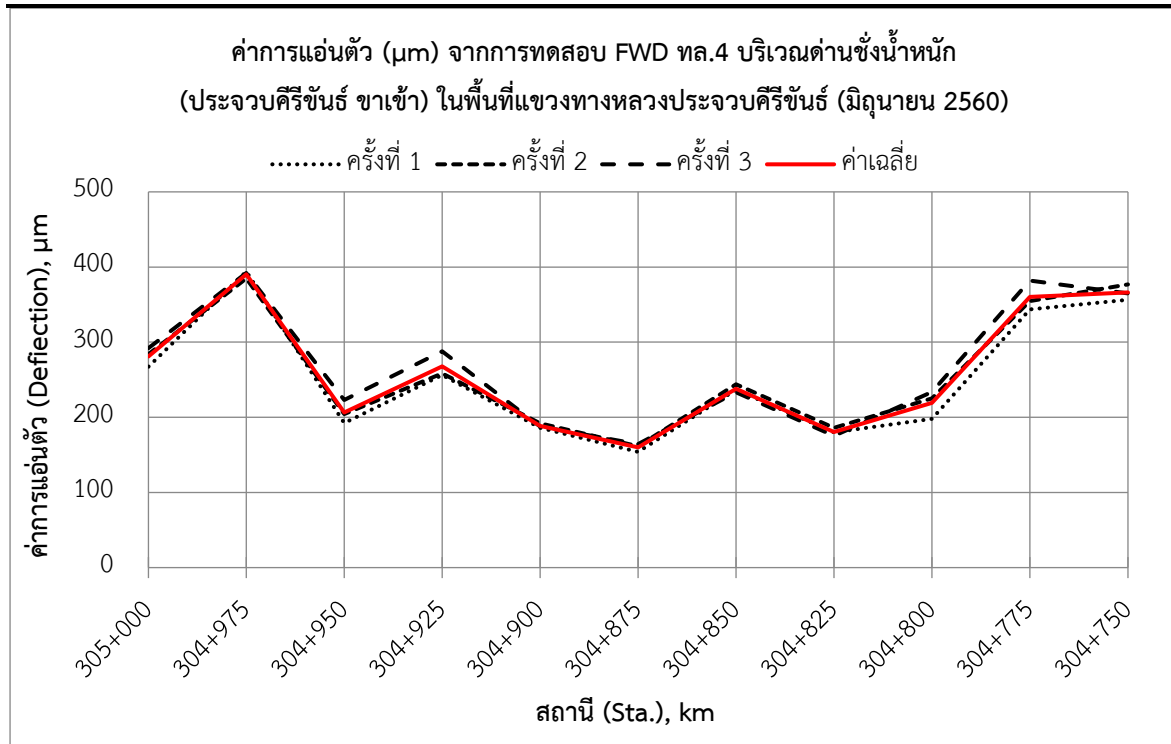


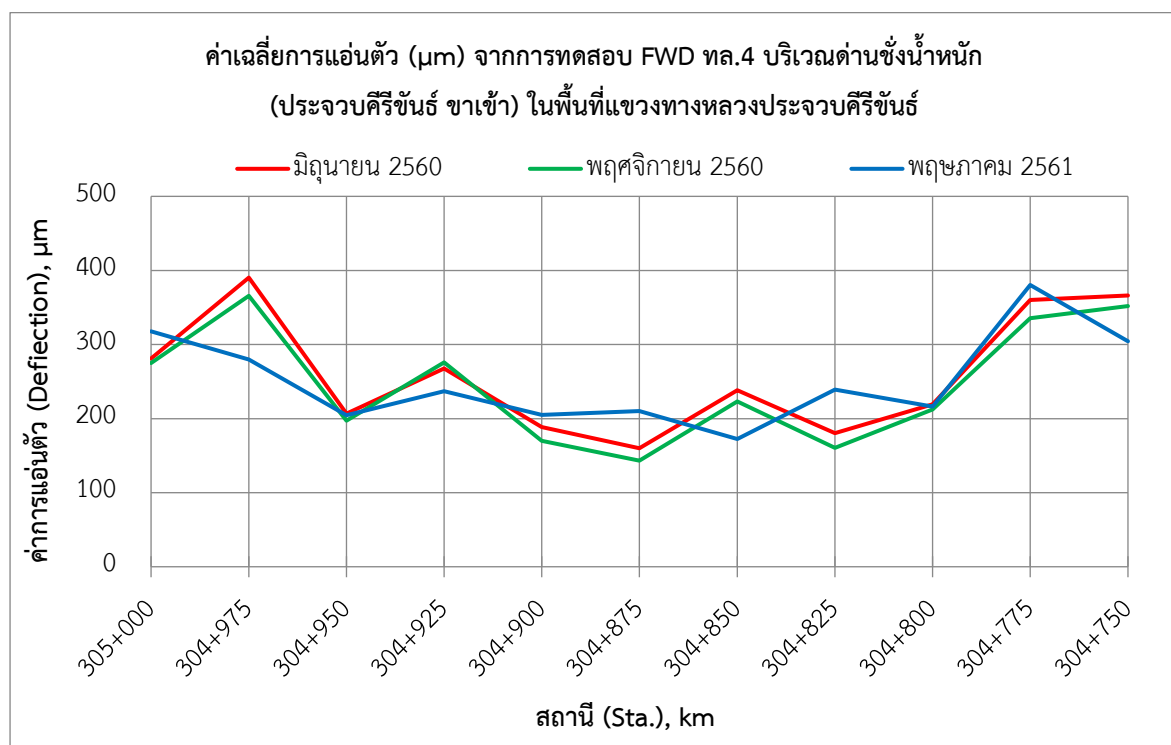
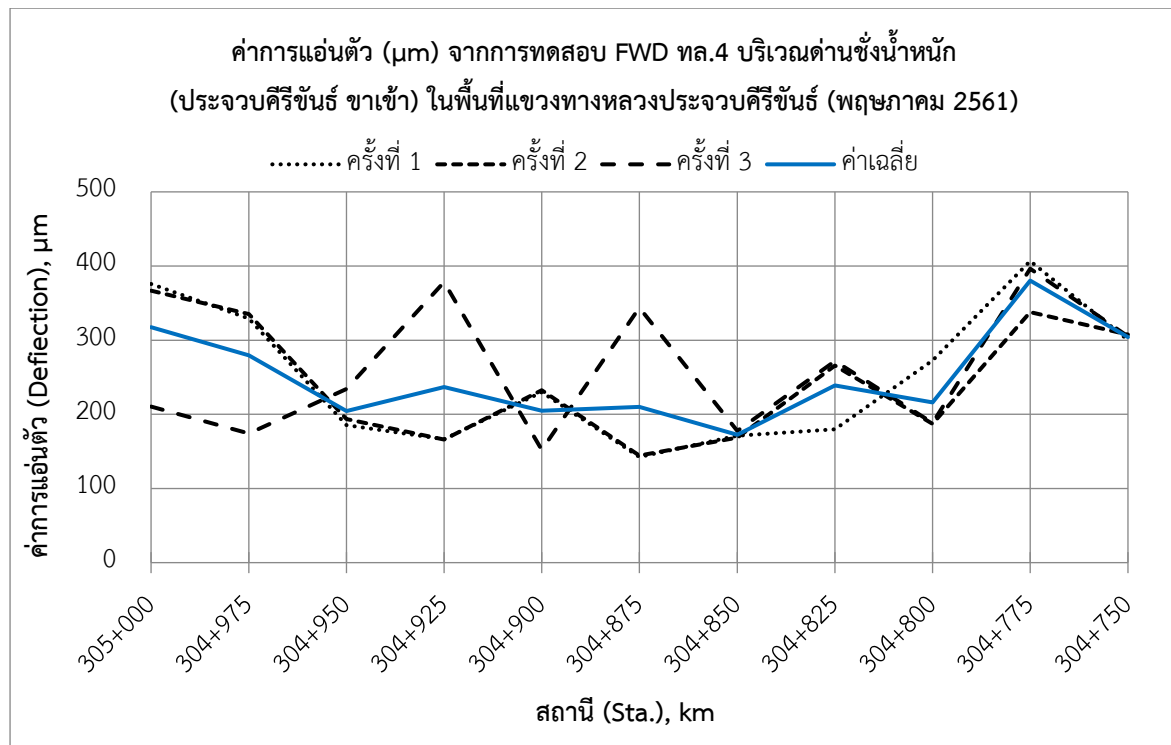


5.5 ประจวบคีรีขันธ์ (ประจวบคีรีขันธ์ ขาเข้า)

ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.4 บริเวณด้านข้างน้ำหนัก (ประจวบคีรีขันธ์ ขาเข้า) ในพื้นที่แขวงทางหลวงประจวบคีรีขันธ์ (มิถุนายน 2560)											
Sta.	305 +000	304 +975	304 +950	304 +925	304 +900	304 +875	304 +850	304 +825	304 +800	304 +775	304 +750
ครั้งที่ 1	267.50	394.00	192.30	256.40	186.20	154.00	236.80	180.20	198.00	343.50	356.50
ครั้งที่ 2	284.00	384.80	204.50	258.60	191.90	161.50	244.00	186.20	225.40	354.80	376.80
ครั้งที่ 3	292.10	392.10	222.90	288.00	187.50	164.40	233.40	175.20	233.70	382.10	364.90
ค่าเฉลี่ย	281.20	390.30	206.57	267.67	188.53	159.97	238.07	180.53	219.03	360.13	366.07
ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.4 บริเวณด้านข้างน้ำหนัก (ประจวบคีรีขันธ์ ขาเข้า) ในพื้นที่แขวงทางหลวงประจวบคีรีขันธ์ (พฤศจิกายน 2560)											
Sta.	305 +000	304 +975	304 +950	304 +925	304 +900	304 +875	304 +850	304 +825	304 +800	304 +775	304 +750
ครั้งที่ 1	258.70	366.50	192.90	275.20	167.30	138.20	229.40	167.30	201.50	292.10	356.60
ครั้งที่ 2	278.30	355.00	192.50	276.30	169.80	140.40	209.90	150.40	211.60	365.80	322.70
ครั้งที่ 3	288.20	375.70	206.20	275.50	173.30	151.00	230.60	163.80	223.90	349.20	376.70
ค่าเฉลี่ย	275.07	365.73	197.20	275.67	170.13	143.20	223.30	160.50	212.33	335.70	352.00
ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.4 บริเวณด้านข้างน้ำหนัก (ประจวบคีรีขันธ์ ขาเข้า) ในพื้นที่แขวงทางหลวงประจวบคีรีขันธ์ (พฤษภาคม 2561)											
Sta.	305 +000	304 +975	304 +950	304 +925	304 +900	304 +875	304 +850	304 +825	304 +800	304 +775	304 +750
ครั้งที่ 1	375.80	329.40	185.40	166.40	230.10	142.50	171.10	179.70	272.70	406.70	300.20
ครั้งที่ 2	366.80	335.10	193.60	165.80	232.60	144.40	168.70	265.60	187.30	338.00	307.50
ครั้งที่ 3	210.30	174.30	234.00	378.50	152.10	343.80	177.50	271.60	188.60	396.40	304.80
ค่าเฉลี่ย	317.63	279.60	204.33	236.90	204.93	210.23	172.43	238.97	216.20	380.37	304.17

ค่าเฉลี่ยการแอ่นตัว (μm) จากการทดสอบ FWD ทล.4 บริเวณด้านข้างน้ำหนัก (ประจวบคีรีขันธ์ ขาเข้า) ในพื้นที่แขวงทางหลวงประจวบคีรีขันธ์												
Sta.	305 +000	304 +975	304 +950	304 +925	304 +900	304 +875	304 +850	304 +825	304 +800	304 +775	304 +750	ค่าเฉลี่ย
มิ.ย. 60	281.20	390.30	206.57	267.67	188.53	159.97	238.07	180.53	219.03	360.13	366.07	259.82
พ.ย. 60	275.07	365.73	197.20	275.67	170.13	143.20	223.30	160.50	212.33	335.70	352.00	246.44
พ.ค. 61	317.63	279.60	204.33	236.90	204.93	210.23	172.43	238.97	216.20	380.37	304.17	251.43
ค่าเฉลี่ย	291.30	345.21	202.70	260.08	187.87	171.13	211.27	193.33	215.86	358.73	340.74	252.57

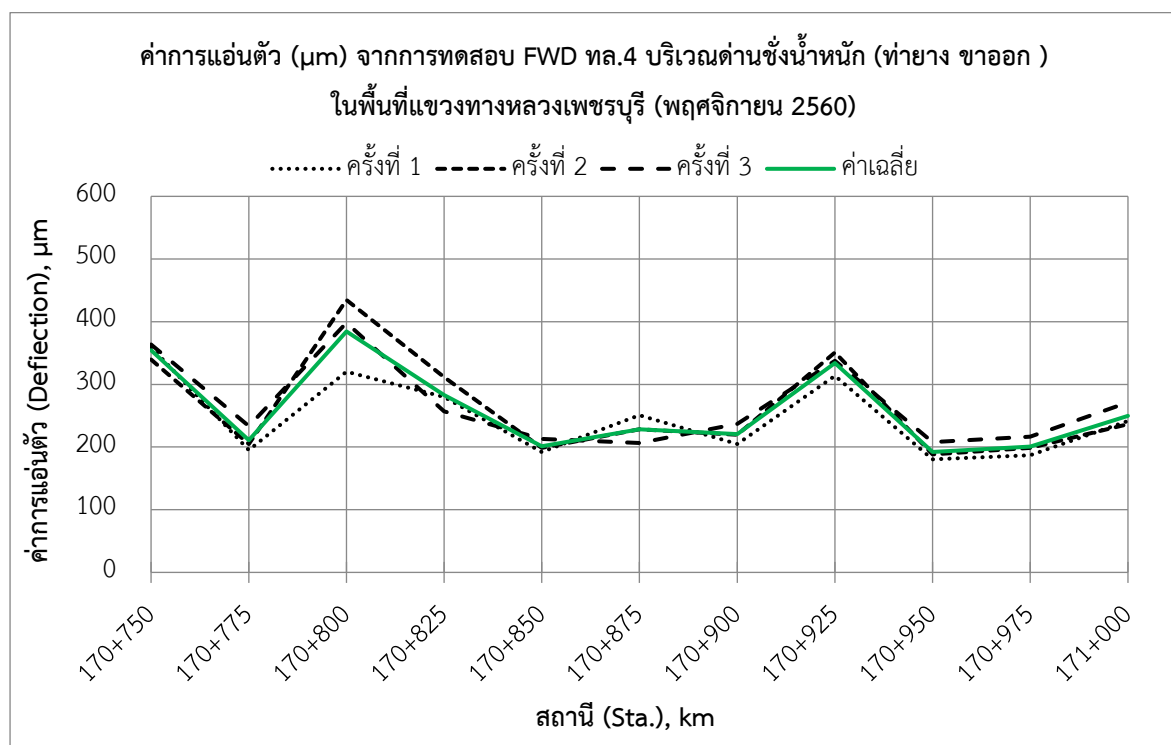
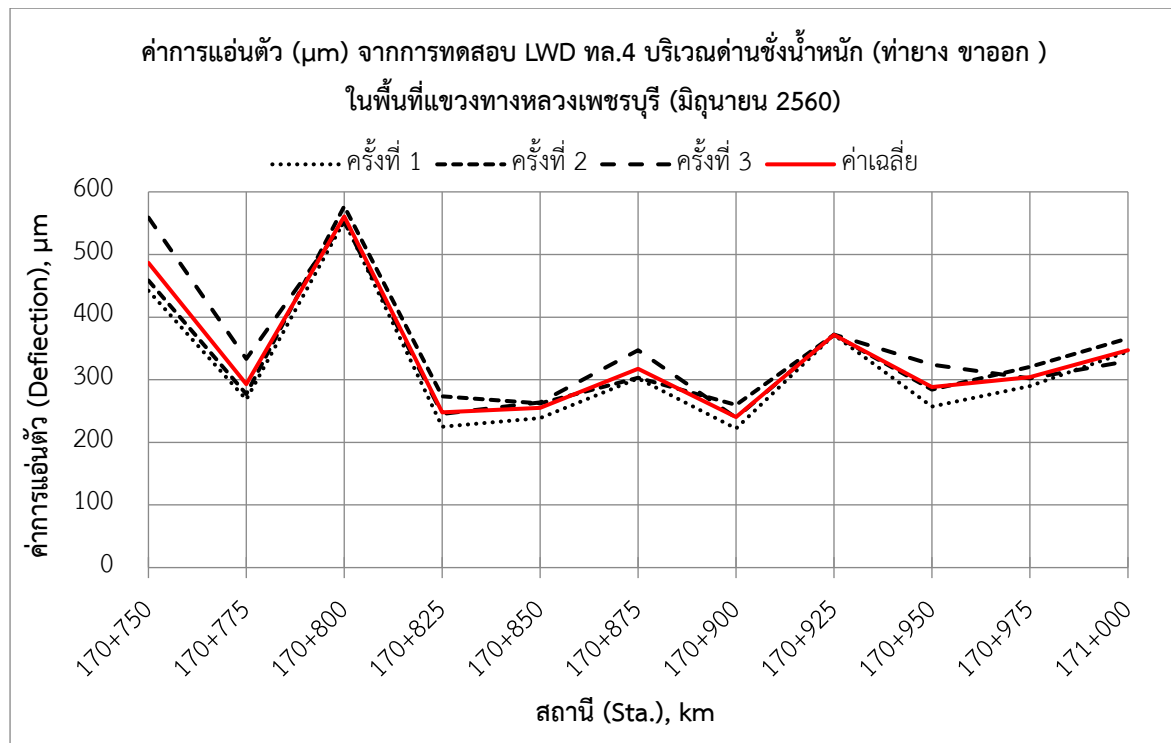


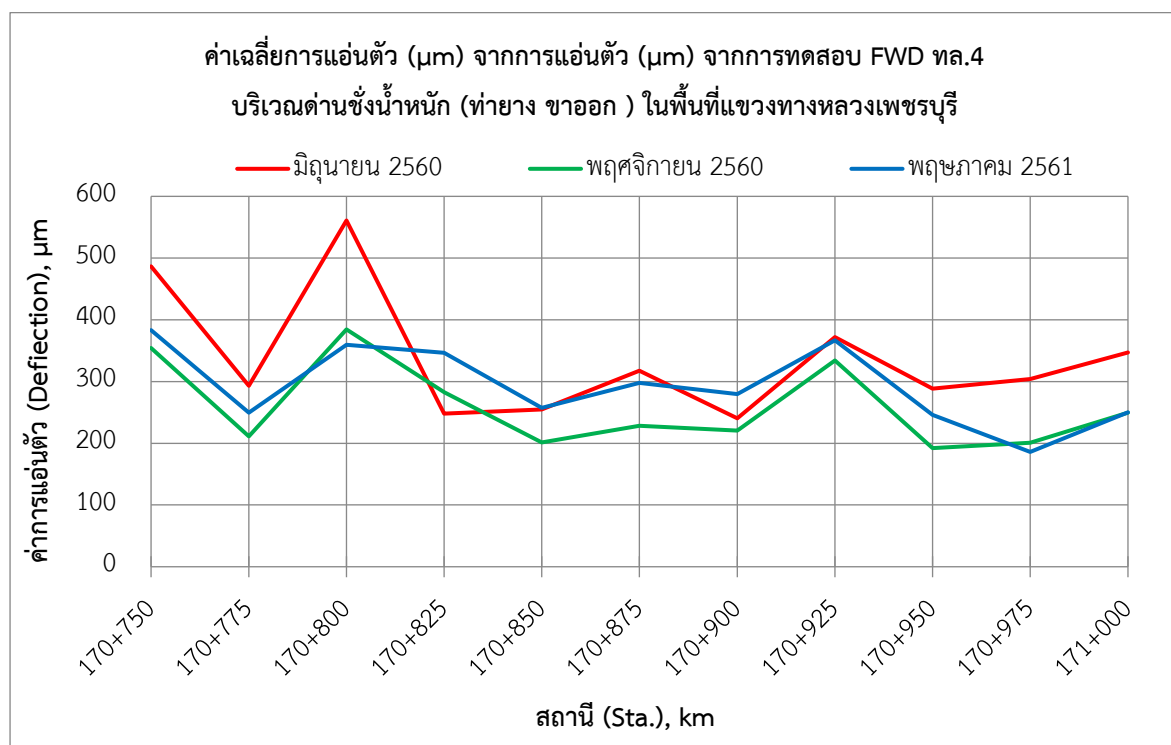
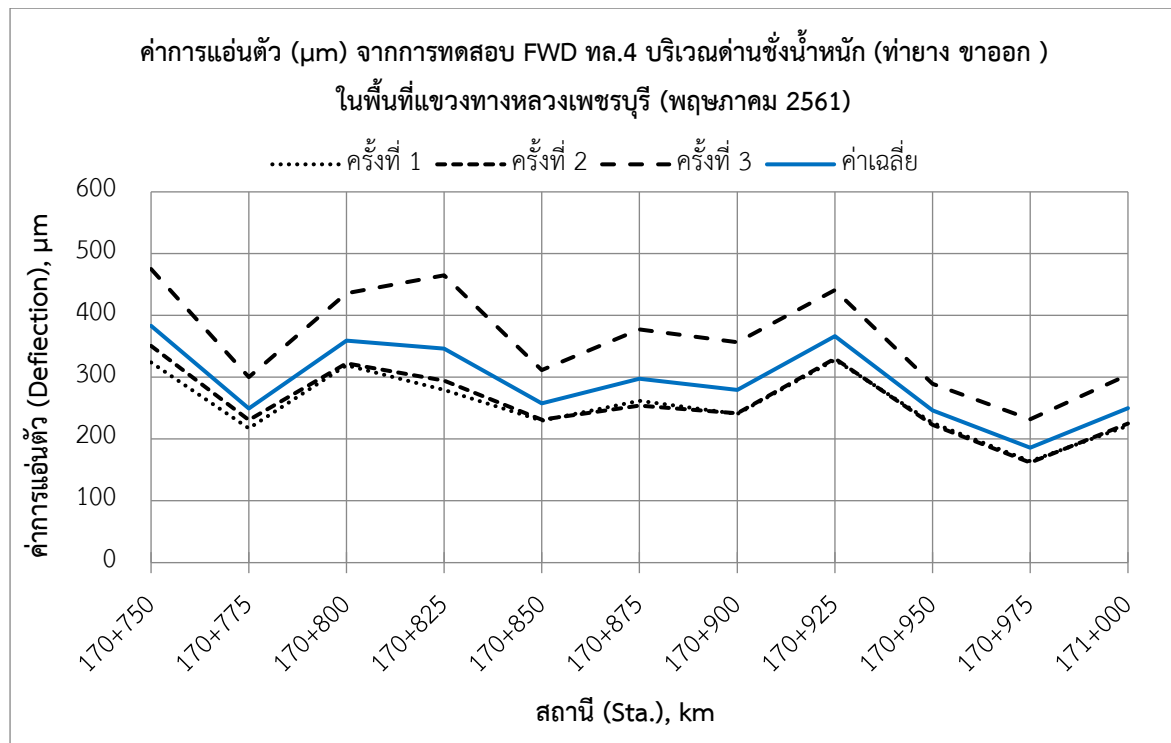


5.6 เพชรบุรี (ท่ายาง ขาออก)

ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.4 บริเวณด้านข้างน้ำหนัก (ท่ายาง ขาออก) ในพื้นที่แขวงทางหลวงเพชรบุรี (มิถุนายน 2560)											
Sta.	170 +750	170 +775	170 +800	170 +825	170 +850	170 +875	170 +900	170 +925	170 +950	170 +975	171 +000
ครั้งที่ 1	442.40	268.40	553.60	224.90	238.60	302.10	222.10	371.80	257.00	290.10	344.90
ครั้งที่ 2	458.50	277.20	577.00	273.50	262.40	303.20	259.80	371.80	284.50	320.30	365.80
ครั้งที่ 3	559.10	333.50	552.00	245.50	263.80	347.20	239.40	372.10	324.30	302.10	330.00
ค่าเฉลี่ย	486.67	293.03	560.87	247.97	254.93	317.50	240.43	371.90	288.60	304.17	346.90
ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.4 บริเวณด้านข้างน้ำหนัก (ท่ายาง ขาออก) ในพื้นที่แขวงทางหลวงเพชรบุรี (พฤศจิกายน 2560)											
Sta.	170 +750	170 +775	170 +800	170 +825	170 +850	170 +875	170 +900	170 +925	170 +950	170 +975	171 +000
ครั้งที่ 1	359.50	195.00	320.30	279.80	192.20	250.60	205.00	313.60	180.40	187.20	241.60
ครั้งที่ 2	339.80	204.60	434.70	311.80	198.90	228.50	219.70	350.80	188.30	198.60	236.30
ครั้งที่ 3	363.70	233.60	398.30	257.00	212.80	206.50	237.20	337.80	207.80	216.50	271.30
ค่าเฉลี่ย	354.33	211.07	384.43	282.87	201.30	228.53	220.63	334.07	192.17	200.77	249.73
ค่าการแอ่นตัว (μm) จากการทดสอบ FWD ทล.4 บริเวณด้านข้างน้ำหนัก (ท่ายาง ขาออก) ในพื้นที่แขวงทางหลวงเพชรบุรี (พฤษภาคม 2561)											
Sta.	170 +750	170 +775	170 +800	170 +825	170 +850	170 +875	170 +900	170 +925	170 +950	170 +975	171 +000
ครั้งที่ 1	323.80	217.50	319.50	279.50	229.60	262.00	240.50	328.30	226.30	164.10	221.60
ครั้งที่ 2	350.80	230.80	322.70	294.70	231.30	254.00	241.50	330.20	223.10	161.90	224.90
ครั้งที่ 3	475.20	300.10	436.00	465.20	311.70	377.50	356.90	441.20	289.20	232.00	304.10
ค่าเฉลี่ย	383.27	249.47	359.40	346.47	257.53	297.83	279.63	366.57	246.20	186.00	250.20

ค่าเฉลี่ยการแอ่นตัว (μm) จากการทดสอบ FWD ทล.4 บริเวณด้านข้างน้ำหนัก (ท่ายาง ขาออก) ในพื้นที่แขวงทางหลวงเพชรบุรี												
Sta.	170 +750	170 +775	170 +800	170 +825	170 +850	170 +875	170 +900	170 +925	170 +950	170 +975	171 +000	ค่าเฉลี่ย
มิ.ย. 60	486.67	293.03	560.87	247.97	254.93	317.50	240.43	371.90	288.60	304.17	346.90	337.54
พ.ย. 60	354.33	211.07	384.43	282.87	201.30	228.53	220.63	334.07	192.17	200.77	249.73	259.99
พ.ค. 60	383.27	249.47	359.40	346.47	257.53	297.83	279.63	366.57	246.20	186.00	250.20	292.96
ค่าเฉลี่ย	408.09	251.19	434.90	292.43	237.92	281.29	246.90	357.51	242.32	230.31	282.28	296.83



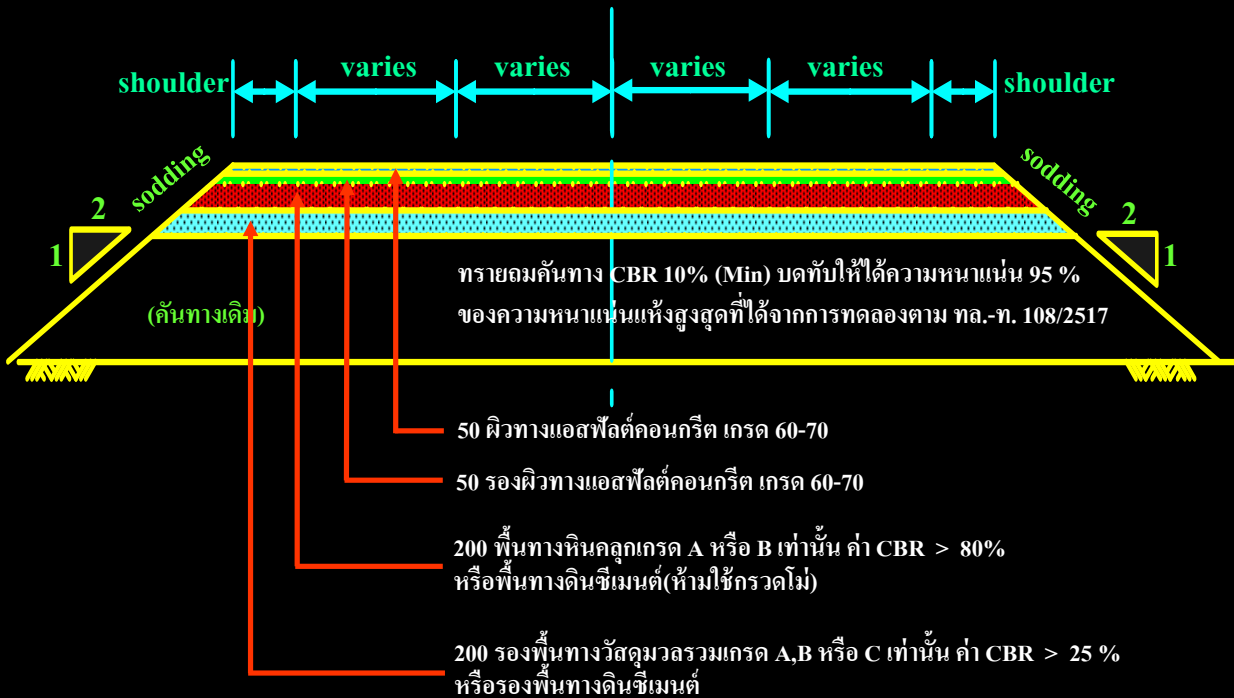


ภาคผนวก ข
แบบรูปตัดทั่วไปของโครงสร้างถนนลาดยางของกรมทางหลวง

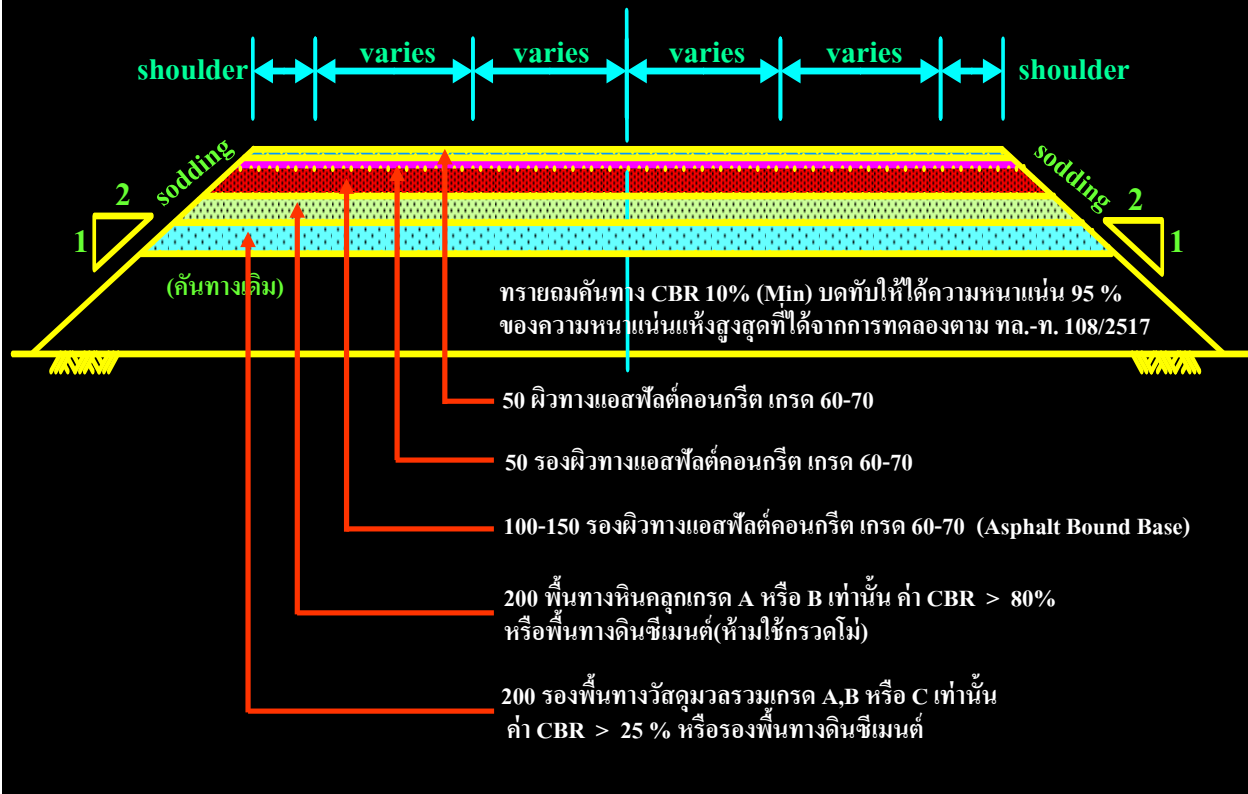
แบบรูปตัดทั่วไปของโครงสร้างถนนลาดยางกรมทางหลวง

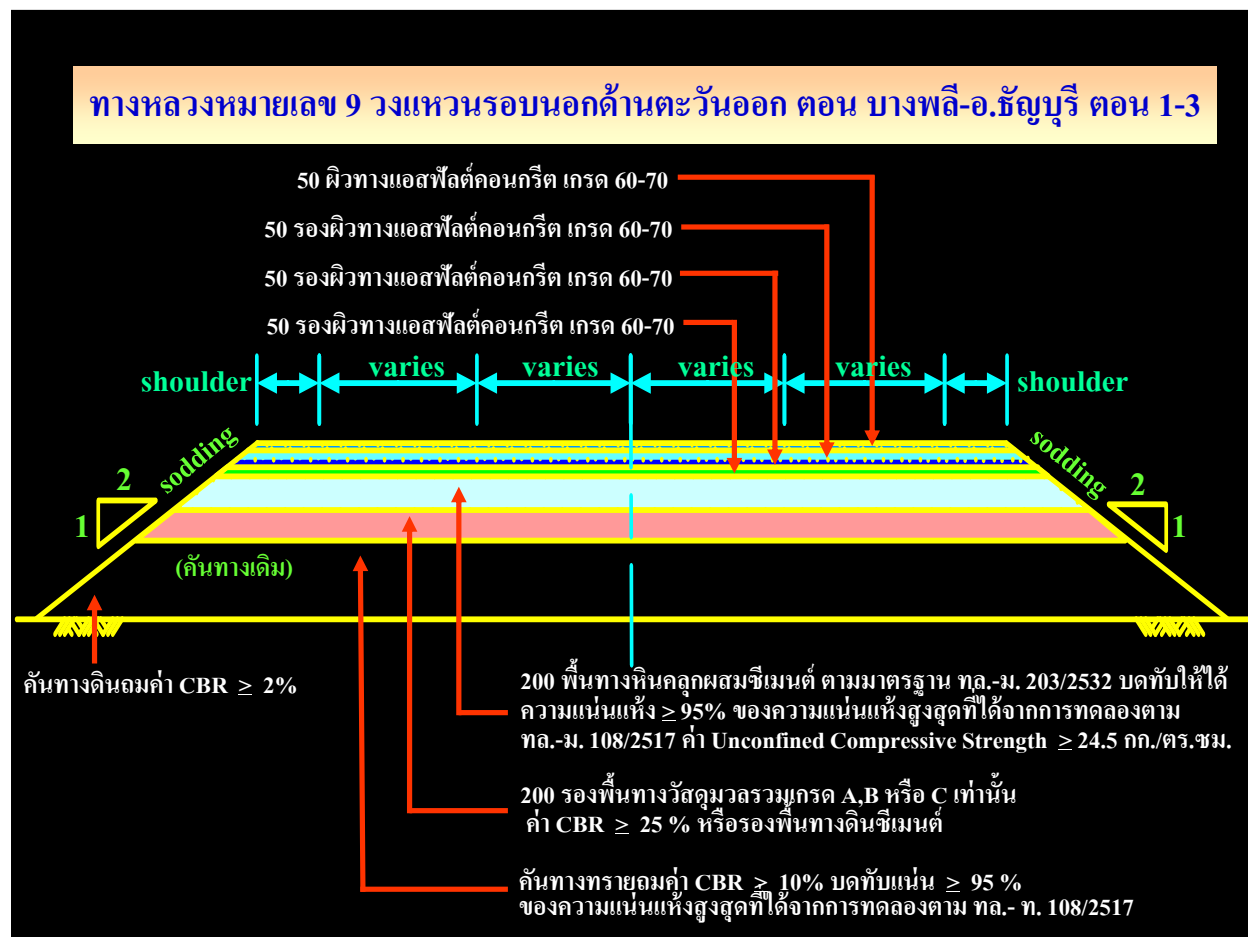
1. ทางหลวงหมายเลข 7 ท่าอากาศยานสุวรรณภูมิ-ชลบุรี ตอนที่ 1-15
2. ทางหลวงหมายเลข 32 สาย บางปะอิน-นครสวรรค์ ตอนที่ 1-14
3. ทางหลวงหมายเลข 9 วงแหวนรอบนอกด้านตะวันออก ตอน บางพลี-อ.ธัญบุรี ตอน 1-3
4. ทางหลวงหมายเลข 35 สาย สมุทรสาคร - ปากท่อ ตอนที่ 1-5
5. ทางหลวงหมายเลข 4 สาย เพชรบุรี-ชะอำ ส่วนที่ 1-3

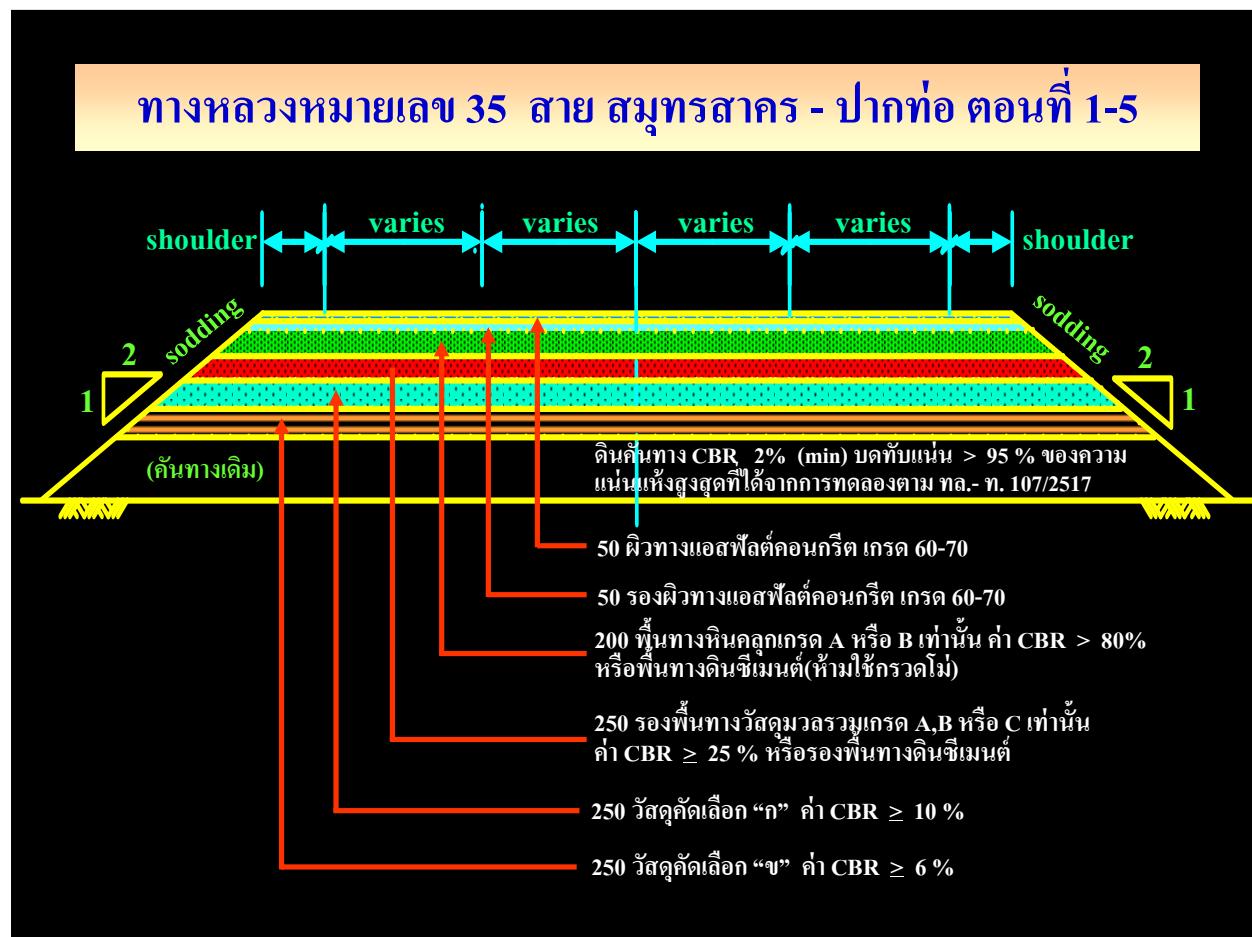
ทางหลวงหมายเลข 7 ท่าอากาศยานสุวรรณภูมิ-ชลบุรี ตอนที่ 1-15



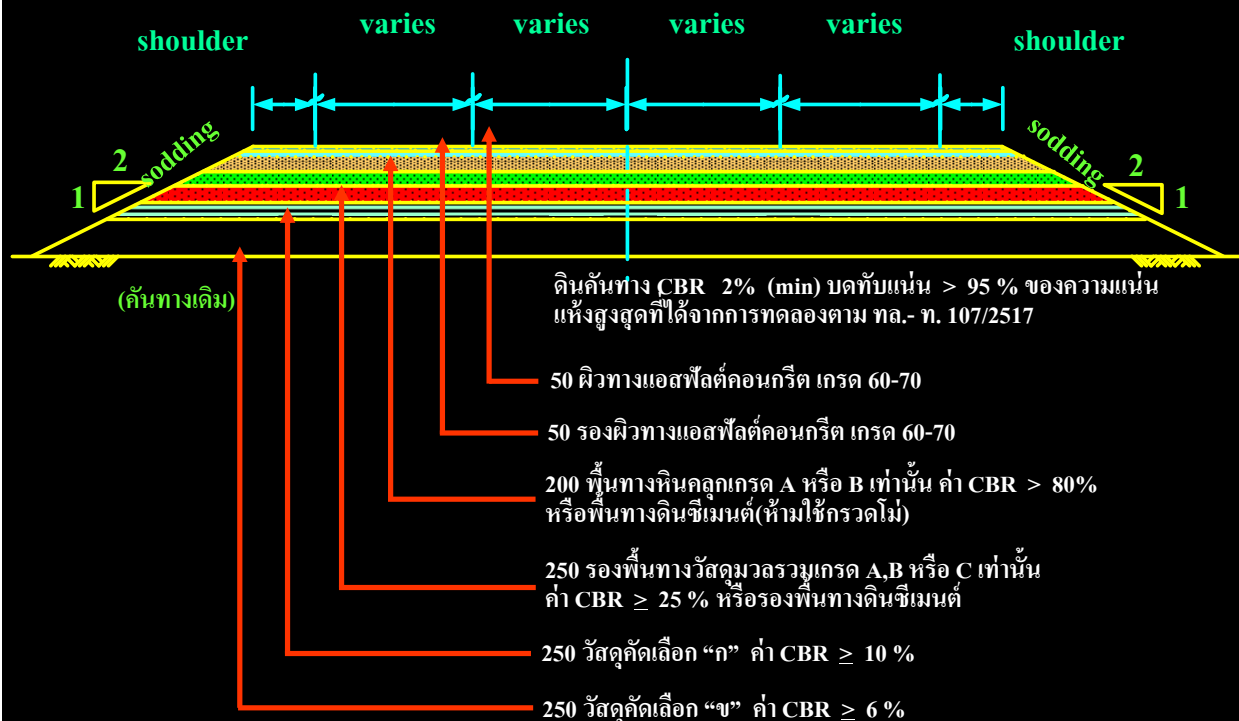
ทางหลวงหมายเลข 32 สาย บางปะอิน-นครสวรรค์ ตอนที่ 1-14







ทางหลวงหมายเลข 4 สาย เพชรบุรี-ชะอำ ส่วนที่ 1-3



แบบรูปตัดทั่วไปของโครงสร้างถนนลาดยาง ซึ่งมีข้อมูลการวิเคราะห์และทดสอบด้วยเครื่องมือ FWD ของ
สำนักวิจัยและพัฒนาทาง ตั้งแต่ปี พ.ศ. 2560 จนถึงปัจจุบัน จำนวนทั้งสิ้น 21 แปลงเก็บข้อมูล

พื้นที่ทดสอบ FWD	ช่วงกม. ทดสอบ FWD	แบบรูปตัด Typical Cross-Section	หมายเหตุ
ภาคกลาง			
1.1 จ.ชัยนาท (สรพยา ขาเข้า)	ทล. 32 กม. 119+800 ถึง กม. 120+050	ผิวทางแอสฟัลต์คอนกรีต 200 มม. พื้นทางหิน คลุก 200 มม. รองพื้นทางวัสดุมวลรวม 200 มม.	แปลงทดสอบโครงการศึกษา สจ.
1.2 จ.สมุทรสาคร (สมุทรสาคร ขาออก)	ทล. 35 กม. 54+000 ถึง กม. 54+250	ทล.35 ตอน นาโคก – แพรกหนามแดง กม. 53+875 ถึง กม. 80+856	ภาคผนวก ก1 ของรายงานการ วิเคราะห์และประเมินสมรรถนะ ด้านความแข็งแรงของโครงสร้าง ถนนลาดยาง สจ. ปีพ.ศ. 2565
2. ภาคเหนือ			
2.1 จ.กำแพงเพชร (กำแพงเพชร ขาออก)	ทล.1 กม. 440+000 ถึง กม. 440+250	ทล.1 ตอน ปากดง – นครชุม กม. 439+400 ถึง กม. 441+600	ภาคผนวก ก8 ของรายงานการ วิเคราะห์และประเมินสมรรถนะ ด้านความแข็งแรงของโครงสร้าง ถนนลาดยาง สจ. ปีพ.ศ. 2565
2.2 จ.กำแพงเพชร (กำแพงเพชร ขาเข้า)	ทล.1 กม. 440+750 ถึง กม. 441+000		
2.3 จ.นครสวรรค์ (เก้าเลี้ยว ขาเข้า)	ทล.117 กม. 25+000 ถึง กม. 24+750	ทล.117 ตอน นครสวรรค์ – คลองพลึงด้านใต้ ที่ กม. 23+855	ภาคผนวก ก5 ของรายงานการ วิเคราะห์และประเมินสมรรถนะ ด้านความแข็งแรงของโครงสร้าง ถนนลาดยาง สจ. ปีพ.ศ. 2565
2.4 จ.นครสวรรค์ (พยุหะคีรี ขาออก)	ทล.1 กม. 308+300 ถึง กม. 308+550	ทล.1 ตอน ทางน้ำหนองแขม – บ้านห้วย ที่ กม. 307+125	ภาคผนวก ก6 ของรายงานการ วิเคราะห์และประเมินสมรรถนะ ด้านความแข็งแรงของโครงสร้าง ถนนลาดยาง สจ. ปีพ.ศ. 2565
2.5 จ.นครสวรรค์ (บรรพตพิสัย ขาเข้า)	ทล.1 กม. 379+950 ถึง กม. 380+200	ทล.1 ตอน วังไผ่ – โนนโปแตง ที่ กม. 378+232	ภาคผนวก ก7 ของรายงานการ วิเคราะห์และประเมินสมรรถนะ ด้านความแข็งแรงของโครงสร้าง ถนนลาดยาง สจ. ปีพ.ศ. 2565
3. ภาคตะวันออกเฉียงเหนือ			
3.1 จ.ขอนแก่น (พล ขาออก)	ทล.2 กม. 268+100 ถึง กม. 268+350	ทล.2 ตอน พล – บ้านไผ่ กม. 268+100 ถึง กม. 268+350	ภาคผนวก ก11 ของรายงานการ วิเคราะห์และประเมินสมรรถนะ ด้านความแข็งแรงของโครงสร้าง ถนนลาดยาง สจ. ปีพ.ศ. 2565
3.2 จ.บุรีรัมย์ (หนองกี่ ขาเข้า)	ทล.24 กม. 98+750 ถึง กม. 99+000	ทล.24 ตอน หนองกี่ – นางรอง กม. 43+800 ถึง กม. 50+000	ภาคผนวก ก12 ของรายงานการ วิเคราะห์และประเมินสมรรถนะ ด้านความแข็งแรงของโครงสร้าง ถนนลาดยาง สจ. ปีพ.ศ. 2565
3.3 จ.สระบุรี (แก่งคอย ขาเข้า)	ทล.2 กม. 17+750 ถึง กม. 18+000	ทล.2 ตอน สระบุรี – ตาลเดี่ยว – ชับบอน กม. 21+260 ถึง กม. 23+070	ภาคผนวก ก9 ของรายงานการ วิเคราะห์และประเมินสมรรถนะ ด้านความแข็งแรงของโครงสร้าง ถนนลาดยาง สจ. ปีพ.ศ. 2565

พื้นที่ทดสอบ FWD	ช่วงกม. ทดสอบ FWD	แบบรูปตัด Typical Cross-Section	หมายเหตุ
3.4 จ.นครราชสีมา (โนนสูง ขาเข้า)	ทล.2 กม. 168+750 ถึง กม. 169+000	ทล.2 ตอน นครราชสีมา – ดอนห้วย – บ้าน วัด กม.155+000 กม. 197+000	ภาคผนวก ก10 ของรายงานการ วิเคราะห์และประเมินสมรรถนะ ด้านความแข็งแรงของโครงสร้าง ถนนลาดยาง สจ. ปีพ.ศ. 2565
3.5 จ.นครราชสีมา (สีคิ้ว ขาเข้า)	ทล.2 กม. 95+200 ถึง กม. 94+950	ไม่มีข้อมูล	
4. ภาคตะวันออก			
4.1 จ.ชลบุรี (ชลบุรี ขาเข้า)	ทล.3 กม. 54+250 ถึง กม. 54+500	ทล.3 ตอน บางตำหรุ – คลองด่าน กม. 54+000 ถึง กม. 54+500	ภาคผนวก ก2 ของรายงานการ วิเคราะห์และประเมินสมรรถนะ ด้านความแข็งแรงของโครงสร้าง ถนนลาดยาง สจ. ปีพ.ศ. 2565
4.2 จ.ชลบุรี (ศรีราชา ขาเข้า)	ทล.331 กม. 47+300 ถึง กม. 47+060	ทล.331 ตอน พันเสด็จนอก – หนองปรือ	ภาคผนวก ก4 ของรายงานการ วิเคราะห์และประเมินสมรรถนะ ด้านความแข็งแรงของโครงสร้าง ถนนลาดยาง สจ. ปีพ.ศ. 2565
4.3 จ.สระแก้ว (วัฒนานคร ขาออก)	ทล.33 กม. 267+000 ถึง กม. 267+250	ไม่มีข้อมูล	
4.4 จ.ระยอง (ระยอง ขาเข้า)	ทล.36 กม. 28+575 ถึง กม. 28+825	ทล.36 ตอน มะขามคู่ – ฆาป่า กม.23+740 ถึง กม. 29+290	ภาคผนวก ก3 ของรายงานการ วิเคราะห์และประเมินสมรรถนะ ด้านความแข็งแรงของโครงสร้าง ถนนลาดยาง สจ. ปีพ.ศ. 2565
5. ภาคใต้			
5.1 จ.ราชบุรี (บ้านโป่ง ขาเข้า)	ทล.323 กม. 4+900 ถึง กม. 5+150	ทล.323 ตอน หนองตะเครง – ลูกแก กม. 3+540 ถึง กม. 18+592	ภาคผนวก ก14 ของรายงานการ วิเคราะห์และประเมินสมรรถนะ ด้านความแข็งแรงของโครงสร้าง ถนนลาดยาง สจ. ปีพ.ศ. 2565
5.2 จ.ชุมพร (ท่าแซะ ขาออก)	ทล.4 กม. 473+500 ถึง กม. 473+750	ทล.4 ตอน วังครก – เสียบญวน กม. 477+100 ถึง กม. 477+950	ภาคผนวก ก16 ของรายงานการ วิเคราะห์และประเมินสมรรถนะ ด้านความแข็งแรงของโครงสร้าง ถนนลาดยาง สจ. ปีพ.ศ. 2565
5.3 โพธาราม (โพธาราม ขาเข้า) (ล้อซ้าย)	ทล.4 กม. 88+570 ถึง กม. 88+770	ผิวทางแอสฟัลต์คอนกรีต 200 มม. พื้นทางหิน คลุก 200 มม. รองพื้นทางวัสดุมวลรวม 200 มม. วัสดุคัดเลือก 250 มม.	แปลงทดสอบโครงการศึกษา สจ.
5.4 โพธาราม (โพธาราม ขาเข้า) (ล้อขวา)	ทล.4 กม. 88+570 ถึง กม. 88+770		
5.5 ประจวบคีรีขันธ์ (ประจวบคีรีขันธ์ ขาเข้า)	ทล.4 กม. 304+750 ถึง กม. 305+000	ทล.4 ตอน หนองหมู – ห้วยยาง กม. 298+940 ถึง กม. 299+400	ภาคผนวก ก15 ของรายงานการ วิเคราะห์และประเมินสมรรถนะ ด้านความแข็งแรงของโครงสร้าง ถนนลาดยาง สจ. ปีพ.ศ. 2565
5.6 เพชรบุรี (ท่ายาง ขาออก)	ทล.4 กม. 170+750 ถึง กม. 171+000	ทล.4 ตอน เขาวัง – ชะอำ กม. 162+217 ถึง กม. 176+294	ภาคผนวก ก13 ของรายงานการ วิเคราะห์และประเมินสมรรถนะ ด้านความแข็งแรงของโครงสร้าง ถนนลาดยาง สจ. ปีพ.ศ. 2565

ภาคผนวก ค

ผลการวิเคราะห์ Pavement Response

รายงานขั้นสุดท้าย
(Final Report)

โครงการวิจัยเพื่อจัดทำข้อกำหนดและวิธีการออกแบบ
โครงสร้างถนนลาดยางสำหรับประเทศไทย

Section - 001 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1708	1708	1710		
Radial/Tangential Strain at Bottom of AC (microstrain)	-358	-358	+358		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-985	-985	+985		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-1177	-1177	+1180		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+2869	+2869	-2870		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 002 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1566	1566	1570		
Radial/Tangential Strain at Bottom of AC (microstrain)	-340	-340	+340		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-887	-887	+887		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-800	-800	+800		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-809	-809	+809		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+1933	+1327	-1930		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 003 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1470	1470	1470
Radial/Tangential Strain at Bottom of AC (microstrain)	-336	-335	+336
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-851	-851	+850
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-718	-718	+719
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-564	-564	+564
Vertical Compressive Strain at Top of Subgrade (microstrain)	+1351	+927	-1350

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 004 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1402	1402	1400
Radial/Tangential Strain at Bottom of AC (microstrain)	-335	-335	+335
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-834	-834	+834
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-690	-690	+690
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-414	-414.00	+414
Vertical Compressive Strain at Top of Subgrade (microstrain)	+994	+682	-995

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 005 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1352	1352	1350
Radial/Tangential Strain at Bottom of AC (microstrain)	-335	-355	+335
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-825	-825	+825
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-678	-678	+678
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-317	-317.00	+317
Vertical Compressive Strain at Top of Subgrade (microstrain)	+762	+523	-762

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 006 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1507	1507	1510
Radial/Tangential Strain at Bottom of AC (microstrain)	-332	-332	+332
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-844	-844	+844
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-764	-764	+764
Vertical Compressive Strain at Top of Subgrade (microstrain)	+1850	+1850	-1850

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 007 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1417	1417	1420
Radial/Tangential Strain at Bottom of AC (microstrain)	-328	-328	+328
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-812	-812	+812
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-537	-537	+537
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-558	-558	+558
Vertical Compressive Strain at Top of Subgrade (microstrain)	+1328	+913	-1330

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 008 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1352	1352	1350
Radial/Tangential Strain at Bottom of AC (microstrain)	-328	-327	+328
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-798	-798	+797
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-477	-477	+477
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-409	-409	+409
Vertical Compressive Strain at Top of Subgrade (microstrain)	+976	+671	-976

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 009 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1304	1304	1300
Radial/Tangential Strain at Bottom of AC (microstrain)	-328	-328	+328
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-790	-790	+790
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-455	-455	+455
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-312	-312	+312
Vertical Compressive Strain at Top of Subgrade (microstrain)	+746	+512	-746

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 010 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1267	1267	1270
Radial/Tangential Strain at Bottom of AC (microstrain)	-329	-329	+329
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-786	-786	+785
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-445	-445	+445
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-246	-246	+246
Vertical Compressive Strain at Top of Subgrade (microstrain)	+589	+404	-589

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 011 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1379	1379	1380		
Radial/Tangential Strain at Bottom of AC (microstrain)	-326	-326	+326		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-798	-798	+798		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-527	-527	+527		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+1274	+1274	-1270		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 012 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1318	1318	1320		
Radial/Tangential Strain at Bottom of AC (microstrain)	-326	-326	+326		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-785	-785	+785		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-383	-383	+383		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-405	-405	+405		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+962	+661	-962		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 013 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1272	1272	1270
Radial/Tangential Strain at Bottom of AC (microstrain)	-327	-326	+327
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-778	-778	+778
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-338	-338	+338
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-309	-309	+309
Vertical Compressive Strain at Top of Subgrade (microstrain)	+736	+506	-736

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 014 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1236	1236	1230
Radial/Tangential Strain at Bottom of AC (microstrain)	-328	-328	+328
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-774	-774	+774
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-320	-320	+320
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-243	-243	+243
Vertical Compressive Strain at Top of Subgrade (microstrain)	+580	+399	-580

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 015 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1207	1207	1210
Radial/Tangential Strain at Bottom of AC (microstrain)	-329	-329	+329
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-772	-772	+772
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-312	-312	+312
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-196	-196	+196
Vertical Compressive Strain at Top of Subgrade (microstrain)	+469	+322	-469

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 016 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1292	1292	1290
Radial/Tangential Strain at Bottom of AC (microstrain)	-326	-325	+325
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-779	-779	+779
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-383	-383	+383
Vertical Compressive Strain at Top of Subgrade (microstrain)	+925	+925	-925

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 017 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1248	1248	1250
Radial/Tangential Strain at Bottom of AC (microstrain)	-326	-326	+326
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-773	-773	+772
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-286	-286	+286
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-306	-306	+306
Vertical Compressive Strain at Top of Subgrade (microstrain)	+726	+499	-726

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 018 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1213	1213	1210
Radial/Tangential Strain at Bottom of AC (microstrain)	-328	-327	+328
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-769	-769	+769
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-252	-252	+252
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-241	-241	+241
Vertical Compressive Strain at Top of Subgrade (microstrain)	+573	+394	-573

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 019 / FWD		Stress Load = 800 kPa	Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1185	1185	1180
Radial/Tangential Strain at Bottom of AC (microstrain)	-329	-328	+329
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-767	-767	+767
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-237	-237	+237
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-195	-194	+194
Vertical Compressive Strain at Top of Subgrade (microstrain)	+463	+318	-463

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1162	1162	1160
Radial/Tangential Strain at Bottom of AC (microstrain)	-330	-329	+330
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-766	-766	+766
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-230	-230	+230
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-160	-160	+160
Vertical Compressive Strain at Top of Subgrade (microstrain)	+382	+262	-382

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 021 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1229	1229	1230		
Radial/Tangential Strain at Bottom of AC (microstrain)	-327	-326	+327		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-770	-769	+769		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-290	-290	+290		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+699	+699	-699		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 022 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1196	1196	1190		
Radial/Tangential Strain at Bottom of AC (microstrain)	-328	-328	+328		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-766	-766	+766		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-222	-222	+222		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-238	-238	+238		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+566	+389	-566		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 023 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1169	1169	1170
Radial/Tangential Strain at Bottom of AC (microstrain)	-329	-329	+329
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-764	-765	+764
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-195	-195	+195
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-193	-193	+193
Vertical Compressive Strain at Top of Subgrade (microstrain)	+459	+315	-458

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 024 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1146	1147	1140
Radial/Tangential Strain at Bottom of AC (microstrain)	-330	-330	+330
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-763	-764	+763
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-183	-183	+183
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-159	-159	+159
Vertical Compressive Strain at Top of Subgrade (microstrain)	+378	+260	-378

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 025 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1127	1128	1130
Radial/Tangential Strain at Bottom of AC (microstrain)	-331	-331	+331
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-763	-763	+763
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-176	-176	+176
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-133	-133	+133
Vertical Compressive Strain at Top of Subgrade (microstrain)	+317	+218	-317

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 026 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1498	1498	1500
Radial/Tangential Strain at Bottom of AC (microstrain)	-294	-294	+294
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-783	-783	+783
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-895	-895	+895
Vertical Compressive Strain at Top of Subgrade (microstrain)	+2156	+2156	-2160

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 027 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1396	1396	1400
Radial/Tangential Strain at Bottom of AC (microstrain)	-289	-288	+289
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-710	-710	+710
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-630	-630	+630
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-633	-633	+633
Vertical Compressive Strain at Top of Subgrade (microstrain)	+1503	+1034	-1500

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 028 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1323	1323	1320
Radial/Tangential Strain at Bottom of AC (microstrain)	-288	-288	+288
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-681	-681	+681
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-566	-566	+566
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-454	-454	+454
Vertical Compressive Strain at Top of Subgrade (microstrain)	+1082	+743	-1080

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 029 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1270	1266	1270
Radial/Tangential Strain at Bottom of AC (microstrain)	-289	-288	+289
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-667	-666	+667
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-543	-541	+543
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-341	-332	+341
Vertical Compressive Strain at Top of Subgrade (microstrain)	+815	+551	-815

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 030 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1229	1229	1230
Radial/Tangential Strain at Bottom of AC (microstrain)	-290	-290	+290
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-660	-660	+660
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-532	-532	+532
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-266	-266	+266
Vertical Compressive Strain at Top of Subgrade (microstrain)	+637	+437	-637

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 031 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1352	1353	1350		
Radial/Tangential Strain at Bottom of AC (microstrain)	-285	-285	+286		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-677	-677	+677		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-601	-601	+601		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+1446	+1443	-1450		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 032 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1284	1284	1280		
Radial/Tangential Strain at Bottom of AC (microstrain)	-285	-285	+285		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-652	-652	+652		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-434	-434	+434		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-451	-451	+451		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+1068	+733	-1070		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 033 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1232	1232	1230
Radial/Tangential Strain at Bottom of AC (microstrain)	-286	-286	+286
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-639	-639	+639
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-386	-386	+386
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-338	-338	+338
Vertical Compressive Strain at Top of Subgrade (microstrain)	+804	+553	-804

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 034 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1193	1193	1190
Radial/Tangential Strain at Bottom of AC (microstrain)	-288	-287	+288
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-632	-632	+632
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-367	-367	+367
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-263	-263	+263
Vertical Compressive Strain at Top of Subgrade (microstrain)	+627	+431	-627

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 035 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1161	1162	1160
Radial/Tangential Strain at Bottom of AC (microstrain)	-289	-289	+289
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-628	-628	+628
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-358	-358	+358
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-210	-210	+210
Vertical Compressive Strain at Top of Subgrade (microstrain)	+503	+345	-503

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 036 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1254	1255	1250
Radial/Tangential Strain at Bottom of AC (microstrain)	-285	-285	+285
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-640	-640	+640
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-427	-427	+427
Vertical Compressive Strain at Top of Subgrade (microstrain)	+1028	+1028	-1030

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 037 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1206	1206	1200
Radial/Tangential Strain at Bottom of AC (microstrain)	-286	-286	+286
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-629	-629	+629
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-317	-317	+317
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-335	-335	+335
Vertical Compressive Strain at Top of Subgrade (microstrain)	+794	+546	-794

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 038 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1168	1168	1170
Radial/Tangential Strain at Bottom of AC (microstrain)	-287	-287	+287
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-622	-622	+623
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-280	-280	+280
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-261	-261	+261
Vertical Compressive Strain at Top of Subgrade (microstrain)	+620	+426	-620

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 039 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1137	1137	1130
Radial/Tangential Strain at Bottom of AC (microstrain)	-289	-289	+289
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-619	-619	+619
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-264	-264	+264
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-209	-209	+209
Vertical Compressive Strain at Top of Subgrade (microstrain)	+497	+341	-497

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 040 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1112	1112	1110
Radial/Tangential Strain at Bottom of AC (microstrain)	-290	-290	+290
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-616	-616	+616
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-257	-257	+257
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-171	-170	+170
Vertical Compressive Strain at Top of Subgrade (microstrain)	+407	+280	-407

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 041 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1185	1185	1180		
Radial/Tangential Strain at Bottom of AC (microstrain)	-286	-286	+286		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-623	-623	+623		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-318	-318	+318		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+765	+765	-765		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 042 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1148	1148	1150		
Radial/Tangential Strain at Bottom of AC (microstrain)	-288	-288	+288		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-618	-618	+618		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-242	-242	+242		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-258	-258	+258		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+612	+421	-612		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 043 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1119	1119	1120
Radial/Tangential Strain at Bottom of AC (microstrain)	-289	-289	+289
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-614	-614	+614
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-213	-213	+213
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-207	-207	+207
Vertical Compressive Strain at Top of Subgrade (microstrain)	+492	+338	-492

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 044 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1095	1095	1090
Radial/Tangential Strain at Bottom of AC (microstrain)	-290	-290	+290
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-612	-612	+612
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-200	-200	+200
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-169	-169	+169
Vertical Compressive Strain at Top of Subgrade (microstrain)	+403	+277	-403

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 045 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1075	1075	1070
Radial/Tangential Strain at Bottom of AC (microstrain)	-291	-291	+291
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-611	-611	+611
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-193	-193	+193
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-141	-141	+141
Vertical Compressive Strain at Top of Subgrade (microstrain)	+336	+231	-336

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 046 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1132	1132	1130
Radial/Tangential Strain at Bottom of AC (microstrain)	-288	-288	+288
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-615	-615	+615
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-245	-245	+245
Vertical Compressive Strain at Top of Subgrade (microstrain)	+591	+591	-591

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 047 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1104	1104	1100
Radial/Tangential Strain at Bottom of AC (microstrain)	-289	-289	+290
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-612	-612	+612
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-191	-191	+191
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-205	-205	+205
Vertical Compressive Strain at Top of Subgrade (microstrain)	+486	+334	-486

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 048 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1081	1081	1080
Radial/Tangential Strain at Bottom of AC (microstrain)	-291	-291	+291
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-610	-610	+610
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-168	-168	+168
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-168	-168	+168
Vertical Compressive Strain at Top of Subgrade (microstrain)	+399	+275	-399

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 049 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1061	1061	1060
Radial/Tangential Strain at Bottom of AC (microstrain)	-292	-292	+292
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-608	-608	+608
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-157	-157	+157
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-140	-140	+140
Vertical Compressive Strain at Top of Subgrade (microstrain)	+333	+229	-333

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 050 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1044	1045	1040
Radial/Tangential Strain at Bottom of AC (microstrain)	-293	-293	+293
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-608	-608	+608
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-151	-151	+151
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-119	-118	+118
Vertical Compressive Strain at Top of Subgrade (microstrain)	+283	+194	-282

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 051 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1348	1348	1350		
Radial/Tangential Strain at Bottom of AC (microstrain)	-269	-269	+269		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-621	-621	+621		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-699	-699	+699		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+167	+1671	-1670		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 052 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1272	1272	1270		
Radial/Tangential Strain at Bottom of AC (microstrain)	-268	-268	+268		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-565	-565	+565		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-505	-505	+506		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-509	-509	+509		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+1202	+828	-1200		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 053 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1215	1215	1210
Radial/Tangential Strain at Bottom of AC (microstrain)	-269	-269	+269
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-542	-542	+542
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-455	-455	+455
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-374	-374	+374
Vertical Compressive Strain at Top of Subgrade (microstrain)	+888	+611	-888

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 054 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1172	1172	1170
Radial/Tangential Strain at Bottom of AC (microstrain)	-270	-270	+271
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-530	-530	+530
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-435	-435	+435
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-286	-286	+286
Vertical Compressive Strain at Top of Subgrade (microstrain)	+683	+469	-683

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 055 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1138	1138	1140
Radial/Tangential Strain at Bottom of AC (microstrain)	-272	-272	+272
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-523	-523	+523
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-425	-425	+425
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-226	-226	+226
Vertical Compressive Strain at Top of Subgrade (microstrain)	+542	+372	-542

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 056 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1239	1235	1240
Radial/Tangential Strain at Bottom of AC (microstrain)	-267	-266	+267
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-539	-536	+539
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-485	-475	+485
Vertical Compressive Strain at Top of Subgrade (microstrain)	+1161	+1203	-1160

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 057 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1185	1185	1180
Radial/Tangential Strain at Bottom of AC (microstrain)	-268	-268	+268
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-518	-518	+518
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-358	-358	+358
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-372	-372	+372
Vertical Compressive Strain at Top of Subgrade (microstrain)	+879	+605	-879

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 058 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1143	1143	1140
Radial/Tangential Strain at Bottom of AC (microstrain)	-270	-270	+270
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-508	-508	+508
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-318	-318	+319
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-285	-285	+285
Vertical Compressive Strain at Top of Subgrade (microstrain)	+676	+465	+676

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 059 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1110	1110	1110
Radial/Tangential Strain at Bottom of AC (microstrain)	-271	-271	+271
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-501	-501	+501
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-302	-302	+302
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-225	-225	+225
Vertical Compressive Strain at Top of Subgrade (microstrain)	+535	+368	-535

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 060 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1083	1083	1080
Radial/Tangential Strain at Bottom of AC (microstrain)	-273	-273	+273
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-498	-498	+498
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-294	-294	+294
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-182	-182	+182
Vertical Compressive Strain at Top of Subgrade (microstrain)	+435	+299	-435

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 061 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1161	1161	1160		
Radial/Tangential Strain at Bottom of AC (microstrain)	-269	-268	+269		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-509	-509	+509		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-354	-354	+354		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+848	+848	-848		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 062 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1121.4	1121.48	1120		
Radial/Tangential Strain at Bottom of AC (microstrain)	-270.1	-270.11	+270		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-498.9	-498.95	+499		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-267.1	-267.09	+267		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-282.3	-282.32	+282		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+668.1	+459.85	-668		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 063 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1089	1089	1090		
Radial/Tangential Strain at Bottom of AC (microstrain)	-272	-272	+272		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-493	-493	+493		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-236	-236	+236		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-224	-224	+224		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+531	+365	-531		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 064 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1063	1063	1060		
Radial/Tangential Strain at Bottom of AC (microstrain)	-273	-273	+273		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-490	-490	+490		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-223	-223	+223		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-181	-181	+181		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+431	+296	-431		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 065 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1042	1042	1040		
Radial/Tangential Strain at Bottom of AC (microstrain)	-274	-274	+274		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-487	-487	+487		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-216	-216	+216		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-150	-150	+150		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+358	+246	-357		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 066 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1104	1104	1100		
Radial/Tangential Strain at Bottom of AC (microstrain)	-271	-271	+271		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-494	-494	+494		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-269	-269	+269		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+645	+654	-645		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 067 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1073	1074	1070		
Radial/Tangential Strain at Bottom of AC (microstrain)	-272	-272	+272		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-489	-489	+489		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-207	-207	+207		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-221	-221	+221		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+525	+361	-524		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 068 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1048	1048	1040		
Radial/Tangential Strain at Bottom of AC (microstrain)	-274	-274	+274		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-486	-486	+486		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-183	-183	+183		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-180	-180	+180		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+427	+294	-427		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 069 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1027	1027	1020
Radial/Tangential Strain at Bottom of AC (microstrain)	-275	-275	+275
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-484	-484	+484
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-172	-171	+172
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-149	-149	+149
Vertical Compressive Strain at Top of Subgrade (microstrain)	+355	+244	-354

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 070 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1009	1010	1010
Radial/Tangential Strain at Bottom of AC (microstrain)	-276	-276	+276
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-482	-482	+482
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-165	-165	+165
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-125	-125	+125
Vertical Compressive Strain at Top of Subgrade (microstrain)	+299	+205	-299

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 071 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1060	1060	1060		
Radial/Tangential Strain at Bottom of AC (microstrain)	-273	-273	+273		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-487	-487	+487		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-211	-211	+211		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+507	+507	-507		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 072 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1036	1036	1030		
Radial/Tangential Strain at Bottom of AC (microstrain)	-274	-274	+274		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-484	-484	+484		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-166	-166	+166		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-178	-178	+178		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+423	+290	-422		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 073 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1015	1016	1010
Radial/Tangential Strain at Bottom of AC (microstrain)	-275	-275	+276
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-482	-482	+482
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-147	-146	+146
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-148	-148	+148
Vertical Compressive Strain at Top of Subgrade (microstrain)	+352	+242	-351

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 074 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	998	998	994
Radial/Tangential Strain at Bottom of AC (microstrain)	-276	-276	+277
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-480	-480	+480
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-137	-137	+137
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-125	-125	+125
Vertical Compressive Strain at Top of Subgrade (microstrain)	+297	+204	-296

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 075 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	983	984	980
Radial/Tangential Strain at Bottom of AC (microstrain)	-277	-277	+277
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-479	-479	+479
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-131	-131	+131
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-106	-106	+106
Vertical Compressive Strain at Top of Subgrade (microstrain)	+253	+174	-253

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 076 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1237	1237	1230
Radial/Tangential Strain at Bottom of AC (microstrain)	-259	-259	+259
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-498	-498	+498
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-558	-558	+558
Vertical Compressive Strain at Top of Subgrade (microstrain)	+1328	+1329	-1330

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 077 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1178	1178	1180
Radial/Tangential Strain at Bottom of AC (microstrain)	-260	-260	+260
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-454	-454	+454
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-413	-413	+413
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-417	-417	+417
Vertical Compressive Strain at Top of Subgrade (microstrain)	+983	+677	-983

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 078 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1132	1132	1130
Radial/Tangential Strain at Bottom of AC (microstrain)	-262	-262	+262
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-435	-435	+435
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-372	-372	+372
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-313	-313	+313
Vertical Compressive Strain at Top of Subgrade (microstrain)	+742	+511	-742

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 079 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1096	1096	1090
Radial/Tangential Strain at Bottom of AC (microstrain)	-263	-263	+263
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-425	-425	+425
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-355	-355	+355
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-244	-244	+244
Vertical Compressive Strain at Top of Subgrade (microstrain)	+581	+399	-581

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 080 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1068	1068	1060
Radial/Tangential Strain at Bottom of AC (microstrain)	-265	-265	+265
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-419	-419	+419
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-346	-346	+346
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-196	-196	+196
Vertical Compressive Strain at Top of Subgrade (microstrain)	+468	+321	-468

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 081 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1152	1152	1150		
Radial/Tangential Strain at Bottom of AC (microstrain)	-260	-260	+260		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-433	-433	+433		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-399	-399	+399		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+952	+952	-952		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 082 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1108	1108	1110		
Radial/Tangential Strain at Bottom of AC (microstrain)	-262	-262	+262		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-416	-416	+416		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-300	-300	+300		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-312	-312	+312		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+736	+507	-736		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 083 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1073	1073	1070
Radial/Tangential Strain at Bottom of AC (microstrain)	-264	-264	+264
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-406	-406	+406
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-267	-267	+267
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-243	-243	+243
Vertical Compressive Strain at Top of Subgrade (microstrain)	+576	+397	-576

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 084 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1045	1045	1040
Radial/Tangential Strain at Bottom of AC (microstrain)	-265	-265	+265
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-401	-401	+401
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-253	-253	+253
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-195	-195	+195
Vertical Compressive Strain at Top of Subgrade (microstrain)	+463	+319	-463

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 085 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1022	1023	1020
Radial/Tangential Strain at Bottom of AC (microstrain)	-266	-266	+267
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-397	-397	+397
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-246	-246	+246
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-160	-196	+160
Vertical Compressive Strain at Top of Subgrade (microstrain)	+381	+262	-381

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 086 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1089	1089	1090
Radial/Tangential Strain at Bottom of AC (microstrain)	-262	-262	+263
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-407	-407	+407
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-298	-298	+298
Vertical Compressive Strain at Top of Subgrade (microstrain)	+712	+712	-712

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 087 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1056	1056	1050
Radial/Tangential Strain at Bottom of AC (microstrain)	-264	-264	+264
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-399	-399	+399
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-228	-228	+228
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-241	-241	+241
Vertical Compressive Strain at Top of Subgrade (microstrain)	+571	+393	-571

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 088 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1029	1029	+1030
Radial/Tangential Strain at Bottom of AC (microstrain)	-266	-266	+266
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-394	-394	+394
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-202	-202	+202
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-194	-194	+194
Vertical Compressive Strain at Top of Subgrade (microstrain)	+460	+316	-460

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 089 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1006	1006	1000
Radial/Tangential Strain at Bottom of AC (microstrain)	-267	-267	+267
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-391	-391	+391
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-190	-190	+190
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-159	-159	+159
Vertical Compressive Strain at Top of Subgrade (microstrain)	+378	+260	-378

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 090 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	987	987	983
Radial/Tangential Strain at Bottom of AC (microstrain)	-268	-268	+268
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-388	-388	+388
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-184	-184	+184
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-133	-133	+133
Vertical Compressive Strain at Top of Subgrade (microstrain)	+317	+218	-317

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 091 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1041	1041	1040		
Radial/Tangential Strain at Bottom of AC (microstrain)	-265	-265	+265		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-395	-395	+395		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-230	-230	+230		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+552	+552	-552		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 092 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1015	1015	1010		
Radial/Tangential Strain at Bottom of AC (microstrain)	-266	-266	+267		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-390	-390	+390		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-180	-180	+180		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-192	-192	+192		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+455	+313	-455		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 093 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	993	994	989
Radial/Tangential Strain at Bottom of AC (microstrain)	-268	-268	+268
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-387	-387	+387
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-159	-159	+159
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-158	-158	+158
Vertical Compressive Strain at Top of Subgrade (microstrain)	+375	+258	-375

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 094 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	975	975	971
Radial/Tangential Strain at Bottom of AC (microstrain)	-269	-269	+269
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-385	-385	+385
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-149	-149	+149
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-132	-132	+132
Vertical Compressive Strain at Top of Subgrade (microstrain)	+315	+216	-314

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 095 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	959	959	955
Radial/Tangential Strain at Bottom of AC (microstrain)	-270	-270	+270
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-384	-384	+384
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-144	-144	+144
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-112	-112	+112
Vertical Compressive Strain at Top of Subgrade (microstrain)	+268	+184	-267

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 096 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1003	1004	1000
Radial/Tangential Strain at Bottom of AC (microstrain)	-267	-267	+267
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-388	-388	+388
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-183	-183	+183
Vertical Compressive Strain at Top of Subgrade (microstrain)	+441	+441	-441

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 097 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	983	983	979
Radial/Tangential Strain at Bottom of AC (microstrain)	-268	-268	+268
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-385	-385	+385
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-146	-146	+146
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-157	-156	+156
Vertical Compressive Strain at Top of Subgrade (microstrain)	+371	+255	-371

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 098 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	965	965	961
Radial/Tangential Strain at Bottom of AC (microstrain)	-269	-270	+270
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-383	-383	+383
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-129	-129	+129
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-132	-132	+132
Vertical Compressive Strain at Top of Subgrade (microstrain)	+312	+215	-312

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 099 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	949	950	945
Radial/Tangential Strain at Bottom of AC (microstrain)	-270	-270	+271
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-382	-382	+382
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-121	-120	+120
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-112	-112	+112
Vertical Compressive Strain at Top of Subgrade (microstrain)	+266	+183	-265

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 100 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	936	937	932
Radial/Tangential Strain at Bottom of AC (microstrain)	-271	-271	+271
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-381	-381	+381
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-116	-115	+116
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-96	-96	+959
Vertical Compressive Strain at Top of Subgrade (microstrain)	+229	+157	-229

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 101 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1152	1152	1150		
Radial/Tangential Strain at Bottom of AC (microstrain)	-256	-256	+256		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-405	-405	+405		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-454	-454	+454		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+1078	+1078	-1080		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 102 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1104	1105	1100		
Radial/Tangential Strain at Bottom of AC (microstrain)	-258	-257	+258		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-370	-370	+370		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-343	-343	+343		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-348	-348	+348		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+818	+564	-818		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 103 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1067	1067	1060
Radial/Tangential Strain at Bottom of AC (microstrain)	-260	-259	+260
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-354	-354	+354
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-309	-309	+309
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-267	-267	+267
Vertical Compressive Strain at Top of Subgrade (microstrain)	+630	+434	-630

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 104 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1037	1037	1030
Radial/Tangential Strain at Bottom of AC (microstrain)	-261	-261	+261
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-345	-345	+345
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-294	-294	+294
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-211	-211	+211
Vertical Compressive Strain at Top of Subgrade (microstrain)	+501	+344	-501

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 105 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1012	1012	1010
Radial/Tangential Strain at Bottom of AC (microstrain)	-263	-263	+263
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-340	-340	+340
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-287	-287	+287
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-171	-171	+171
Vertical Compressive Strain at Top of Subgrade (microstrain)	+409	+281	-409

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 106 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1083	1083	1080
Radial/Tangential Strain at Bottom of AC (microstrain)	-258	-258	+258
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-352	-352	+352
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-334	-334	+334
Vertical Compressive Strain at Top of Subgrade (microstrain)	+794	+794	-794

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 107 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1048	1048	1040
Radial/Tangential Strain at Bottom of AC (microstrain)	-260	-260	+260
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-338	-338	+338
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-255	-255	+255
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-266	-266	+266
Vertical Compressive Strain at Top of Subgrade (microstrain)	+626	+431	-626

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 108 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1018	1018	1010
Radial/Tangential Strain at Bottom of AC (microstrain)	-262	-262	+262
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-330	-330	+330
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-227	-227	+227
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-211	-211	+211
Vertical Compressive Strain at Top of Subgrade (microstrain)	+498	+343	-498

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 109 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	994	994	990
Radial/Tangential Strain at Bottom of AC (microstrain)	-263	-263	+264
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-325	-325	+325
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-215	-215	+215
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-171	-171	+171
Vertical Compressive Strain at Top of Subgrade (microstrain)	+406	+279	-405

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 110 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	974	974	970
Radial/Tangential Strain at Bottom of AC (microstrain)	-265	-265	+265
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-322	-322	+322
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-209	-209	+209
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-142	-141	+141
Vertical Compressive Strain at Top of Subgrade (microstrain)	+337	+232	-337

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 111 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1031	1032	1030		
Radial/Tangential Strain at Bottom of AC (microstrain)	-261	-261	+261		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-331	-331	+331		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-254	-254	+254		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+607	+607	-607		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 112 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1004	1004	999		
Radial/Tangential Strain at Bottom of AC (microstrain)	-263	-263	+263		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-323	-323	+323		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-198	-198	+198		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-209	-209	+209		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+494	+340	-494		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 113 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	980	980	976
Radial/Tangential Strain at Bottom of AC (microstrain)	-264	-264	+264
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-319	-319	+319
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-176	-175	+175
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-170	-170	+170
Vertical Compressive Strain at Top of Subgrade (microstrain)	+403	+277	-403

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 114 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	960	961	956
Radial/Tangential Strain at Bottom of AC (microstrain)	-265	-265	+265
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-316	-316	+316
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-165	-165	+165
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-141	-141	+141
Vertical Compressive Strain at Top of Subgrade (microstrain)	+335	+230	-335

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 115 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	944	944	939
Radial/Tangential Strain at Bottom of AC (microstrain)	-266	-266	+267
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-314	-314	+314
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-159	-159	+159
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-119	-119	+119
Vertical Compressive Strain at Top of Subgrade (microstrain)	+283	+194	-283

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 116 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	991	991	987
Radial/Tangential Strain at Bottom of AC (microstrain)	-263	-263	+263
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-320	-320	+320
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-200	-200	+200
Vertical Compressive Strain at Top of Subgrade (microstrain)	+478	+478	-478

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 117 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	969	969	964
Radial/Tangential Strain at Bottom of AC (microstrain)	-265	-265	+265
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-316	-316	+316
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-158	-158	+158
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-169	-169	+169
Vertical Compressive Strain at Top of Subgrade (microstrain)	+399	+274	-399

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 118 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	949	950	945
Radial/Tangential Strain at Bottom of AC (microstrain)	-266	-266	+266
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-313	-313	+313
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-140	-140	+140
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-141	-140	+140
Vertical Compressive Strain at Top of Subgrade (microstrain)	+333	+229	-333

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 119 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	933	933	929
Radial/Tangential Strain at Bottom of AC (microstrain)	-267	-267	+267
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-311	-311	+311
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-131	-131	+131
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-119	-118	+118
Vertical Compressive Strain at Top of Subgrade (microstrain)	+281	+193	-281

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 120 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	919	919	915
Radial/Tangential Strain at Bottom of AC (microstrain)	-268	-268	+268
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-310	-310	+310
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-126	-126	+126
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-101	-101	+101
Vertical Compressive Strain at Top of Subgrade (microstrain)	+241	+166	-241

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 121 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	958	959	954		
Radial/Tangential Strain at Bottom of AC (microstrain)	-265	-265	+265		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-314	-314	+314		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-161	-161	+161		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+387	+387	-387		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 122 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	940	940	936		
Radial/Tangential Strain at Bottom of AC (microstrain)	-267	-267	+267		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-311	-311	+311		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-130	-130	+130		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-139	-139	+139		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+329	+226	-329		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 123 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	924	925	920
Radial/Tangential Strain at Bottom of AC (microstrain)	-268	-268	+268
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-309	-309	+309
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-115	-115	+115
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-118	-118	+118
Vertical Compressive Strain at Top of Subgrade (microstrain)	+279	+192	-279

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 124 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	910	911	906
Radial/Tangential Strain at Bottom of AC (microstrain)	-269	-269	+269
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-308	-308	+308
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-107	-107	+107
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-101	-101	+101
Vertical Compressive Strain at Top of Subgrade (microstrain)	+240	+165	-239

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 125 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	898	899	894
Radial/Tangential Strain at Bottom of AC (microstrain)	-269	-269	+270
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-307	-307	+307
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-103	-103	+103
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-87	-87	+872
Vertical Compressive Strain at Top of Subgrade (microstrain)	+208	+143	-208

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 126 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1306	1306	1300
Radial/Tangential Strain at Bottom of AC (microstrain)	-430	-430	+430
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-630	-630	+630
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-729	-729	+729
Vertical Compressive Strain at Top of Subgrade (microstrain)	+1772	+1772	-1770

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 127 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1217	1217	1210
Radial/Tangential Strain at Bottom of AC (microstrain)	-409	-409	+409
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-571	-751	+571
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-526	-526	+526
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-541	-541	+541
Vertical Compressive Strain at Top of Subgrade (microstrain)	+1294	+888	-1290

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 128 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1150	1150	1140
Radial/Tangential Strain at Bottom of AC (microstrain)	-399	-399	+399
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-546	-546	+546
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-470	-470	+470
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-402	-402	+402
Vertical Compressive Strain at Top of Subgrade (microstrain)	+964	+661	-964

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 129 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1100	1100	1090
Radial/Tangential Strain at Bottom of AC (microstrain)	-394	-394	+394
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-532	-532	+532
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-448	-448	+448
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-310	-310	+310
Vertical Compressive Strain at Top of Subgrade (microstrain)	+745	+511	-744

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 130 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1061	1061	1050
Radial/Tangential Strain at Bottom of AC (microstrain)	-391	-391	+391
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-524	-524	+524
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-437	-437	+436
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-247	-247	+247
Vertical Compressive Strain at Top of Subgrade (microstrain)	+592	+406	-592

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 131 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1178	1179	1170		
Radial/Tangential Strain at Bottom of AC (microstrain)	-399	-399	+399		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-544	-544	+544		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-516	-516	+516		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+1248	+1248	-1250		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 132 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1116	1116	1100		
Radial/Tangential Strain at Bottom of AC (microstrain)	-390	-390	+390		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-521	-521	+521		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-379	-379	+379		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-400	-400	+400		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+952	+655	-952		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 133 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1067	1067	1060
Radial/Tangential Strain at Bottom of AC (microstrain)	-385	-385	+385
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-509	-509	+509
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-335	-335	+335
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-309	-309	+309
Vertical Compressive Strain at Top of Subgrade (microstrain)	+735	+505	-735

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 134 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1029	1029	1020
Radial/Tangential Strain at Bottom of AC (microstrain)	-382	-382	+382
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-501	-501	+501
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-317	-317	+317
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-244	-244	+244
Vertical Compressive Strain at Top of Subgrade (microstrain)	+584	+401	-584

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 135 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	998	999	987
Radial/Tangential Strain at Bottom of AC (microstrain)	-381	-381	+381
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-497	-497	+497
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-308	-308	+308
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-198	-198	+198
Vertical Compressive Strain at Top of Subgrade (microstrain)	+474	+326	-474

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 136 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1088	1088	1080
Radial/Tangential Strain at Bottom of AC (microstrain)	-385	-385	+385
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-510	-510	+510
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-380	-380	+380
Vertical Compressive Strain at Top of Subgrade (microstrain)	+918	+918	-918

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 137 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1042	1042	1030
Radial/Tangential Strain at Bottom of AC (microstrain)	-381	-381	+381
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-499	-499	+499
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-286	-286	+286
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-306	-306	+306
Vertical Compressive Strain at Top of Subgrade (microstrain)	+726	+499	-726

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 138 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1006	1006	994
Radial/Tangential Strain at Bottom of AC (microstrain)	-378	-378	+378
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-492	-492	+492
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-252	-252	+252
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-243	-243	+243
Vertical Compressive Strain at Top of Subgrade (microstrain)	+577	+397	-577

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 139 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	976	976	964
Radial/Tangential Strain at Bottom of AC (microstrain)	-377	-377	+377
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-488	-488	+488
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-237	-237	+237
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-197	-197	+197
Vertical Compressive Strain at Top of Subgrade (microstrain)	+469	+322	-469

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 140 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	952	952	940
Radial/Tangential Strain at Bottom of AC (microstrain)	-376	-376	+376
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-485	-485	+485
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-229	-229	+229
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-163	-163	+163
Vertical Compressive Strain at Top of Subgrade (microstrain)	+388	+267	-388

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 141 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1022	1022	1010		
Radial/Tangential Strain at Bottom of AC (microstrain)	-379	-379	+379		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-494	-494	+494		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-291	-291	+291		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+701	+701	-701		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 142 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	987	987	975		
Radial/Tangential Strain at Bottom of AC (microstrain)	-376	-376	+376		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-488	-488	+488		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-224	-224	+224		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-240	-240	+240		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+570	+392	-570		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 143 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	959	959	947
Radial/Tangential Strain at Bottom of AC (microstrain)	-375	-375	+375
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-484	-484	+484
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-197	-197	+197
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-196	-196	+196
Vertical Compressive Strain at Top of Subgrade (microstrain)	+464	+319	-464

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 144 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	935	935	+923
Radial/Tangential Strain at Bottom of AC (microstrain)	-374	-374	+375
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-481	-481	+481
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-184	-184	+184
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-162	-162	+162
Vertical Compressive Strain at Top of Subgrade (microstrain)	+384	+264	-384

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 145 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	915	916	903
Radial/Tangential Strain at Bottom of AC (microstrain)	-374	-374	+374
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-479	-479	+479
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-177	-177	+177
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-136	-136	+136
Vertical Compressive Strain at Top of Subgrade (microstrain)	+323	+222	-323

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 146 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	978	972	960
Radial/Tangential Strain at Bottom of AC (microstrain)	-375	-375	+375
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-485	-485	+485
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-229	-229	+229
Vertical Compressive Strain at Top of Subgrade (microstrain)	+551	+551	-551

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 147 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	945	945	932
Radial/Tangential Strain at Bottom of AC (microstrain)	-374	-374	+374
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-481	-481	+481
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-180	-179	+180
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-193	-193	+193
Vertical Compressive Strain at Top of Subgrade (microstrain)	+459	+315	-459

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 148 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	922	922	909
Radial/Tangential Strain at Bottom of AC (microstrain)	-373	-373	+374
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-479	-479	+479
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-158	-158	+158
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-161	-161	+161
Vertical Compressive Strain at Top of Subgrade (microstrain)	+381	+262	-381

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 149 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	902	903	890
Radial/Tangential Strain at Bottom of AC (microstrain)	-373	-373	+373
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-477	-477	+477
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-147	-147	+147
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-135	-135	+135
Vertical Compressive Strain at Top of Subgrade (microstrain)	+320	+220	-320

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 150 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	886	887	874
Radial/Tangential Strain at Bottom of AC (microstrain)	-373	-373	+373
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-476	-476	+476
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-141	-141	+141
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-115	-115	+115
Vertical Compressive Strain at Top of Subgrade (microstrain)	+273	+187	-273

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 151 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1180	1180	1170		
Radial/Tangential Strain at Bottom of AC (microstrain)	-379	-379	+380		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-518	-518	+519		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-592	-591	+592		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+1422	+1423	-1420		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 152 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1111	1111	1100		
Radial/Tangential Strain at Bottom of AC (microstrain)	-368	-368	+368		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-471	-471	+471		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-437	-437	+437		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-448	-448	+448		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+1061	+730	-1060		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 153 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1057	1057	1050
Radial/Tangential Strain at Bottom of AC (microstrain)	-362	-362	+362
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-449	-449	+449
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-391	-391	+391
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-338	-338	+338
Vertical Compressive Strain at Top of Subgrade (microstrain)	+804	+553	-804

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 154 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1016	1016	1000
Radial/Tangential Strain at Bottom of AC (microstrain)	-359	-359	+359
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-438	-438	+438
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-372	-372	+372
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-264	-264	+264
Vertical Compressive Strain at Top of Subgrade (microstrain)	+630	+433	-630

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 155 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	983	983	971
Radial/Tangential Strain at Bottom of AC (microstrain)	-357	-357	+357
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-431	-431	+431
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-363	-363	+363
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-212	-212	+212
Vertical Compressive Strain at Top of Subgrade (microstrain)	+508	+349	-508

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 156 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1080	1080	1070
Radial/Tangential Strain at Bottom of AC (microstrain)	-362	-362	+362
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-448	-448	+448
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-428	-428	+428
Vertical Compressive Strain at Top of Subgrade (microstrain)	+1026	+1026	-1030

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 157 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1030	1030	1020
Radial/Tangential Strain at Bottom of AC (microstrain)	-356	-356	+356
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-429	-429	+429
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-321	-321	+321
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-337	-337	+337
Vertical Compressive Strain at Top of Subgrade (microstrain)	+796	+548	-797

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 158 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	990	990	978
Radial/Tangential Strain at Bottom of AC (microstrain)	-353	-353	+354
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-418	-418	+418
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-284	-284	+284
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-263	-263	+263
Vertical Compressive Strain at Top of Subgrade (microstrain)	+624	+429	-624

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 159 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	958	958	946
Radial/Tangential Strain at Bottom of AC (microstrain)	-352	-352	+352
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-412	-412	+412
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-269	-269	+269
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-211	-211	+211
Vertical Compressive Strain at Top of Subgrade (microstrain)	+502	+345	-502

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 160 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	932	932	920
Radial/Tangential Strain at Bottom of AC (microstrain)	-351	-351	+351
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-408	-408	+408
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-261	-260	+261
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-173	-173	+173
Vertical Compressive Strain at Top of Subgrade (microstrain)	+412	+283	-412

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 161 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1008	1008	996		
Radial/Tangential Strain at Bottom of AC (microstrain)	-354	-354	+354		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-420	-420	+420		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-321	-321	+321		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+770	+769	-769		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 162 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	970	970	958		
Radial/Tangential Strain at Bottom of AC (microstrain)	-351	-351	+351		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-410	-410	+410		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-245	-245	+245		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-261	-261	+261		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+617	+425	-617		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 163 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	939	939	926
Radial/Tangential Strain at Bottom of AC (microstrain)	-350	-350	+350
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-404	-404	+404
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-217	-217	+217
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-210	-210	+210
Vertical Compressive Strain at Top of Subgrade (microstrain)	+497	+342	-497

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 164 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	913	914	901
Radial/Tangential Strain at Bottom of AC (microstrain)	-349	-349	+349
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-400	-400	+400
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-203	-203	+203
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-172	-172	+172
Vertical Compressive Strain at Top of Subgrade (microstrain)	+408	+281	-408

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 165 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	892	893	880
Radial/Tangential Strain at Bottom of AC (microstrain)	-349	-349	+349
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-398	-398	+398
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-197	-196	+197
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-143	-143	+143
Vertical Compressive Strain at Top of Subgrade (microstrain)	+341	+234	-341

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 166 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	953	953	941
Radial/Tangential Strain at Bottom of AC (microstrain)	-350	-350	+350
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-405	-405	+405
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-249	-249	+249
Vertical Compressive Strain at Top of Subgrade (microstrain)	+597	+597	-597

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 167 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	923	924	911
Radial/Tangential Strain at Bottom of AC (microstrain)	-348	-348	+349
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-400	-400.00	+400
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-194	-194	+194
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-208	-208	+208
Vertical Compressive Strain at Top of Subgrade (microstrain)	+492	+338	-492

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 168 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	899	899	886
Radial/Tangential Strain at Bottom of AC (microstrain)	-348	-348	+348
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-397	-396	+396
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-171	-171	+171
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-171	-171	+171
Vertical Compressive Strain at Top of Subgrade (microstrain)	+405	+278	-405

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 169 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	878	879	866
Radial/Tangential Strain at Bottom of AC (microstrain)	-347	-347	+347
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-394	-394	+394
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-160	-160	+160
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-143	-143	+143
Vertical Compressive Strain at Top of Subgrade (microstrain)	+338	+233	-338

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 170 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	861	861	849
Radial/Tangential Strain at Bottom of AC (microstrain)	-347	-347	+347
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-392	-392	+392
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-154	-154	+154
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-121	-121	+121
Vertical Compressive Strain at Top of Subgrade (microstrain)	+287	+197	-287

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 171 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	910	910	898		
Radial/Tangential Strain at Bottom of AC (microstrain)	-348	-348	+348		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-397	-397	+397		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-198	-198	+198		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+476	+466	-476		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 172 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	887	887	874		
Radial/Tangential Strain at Bottom of AC (microstrain)	-347	-347	+347		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-394	-394	+394		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-157	-157	+157		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-169	-169	+169		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+400	+275	-400		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 173 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	867	867	854
Radial/Tangential Strain at Bottom of AC (microstrain)	-347	-347	+347
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-392	-392	+392
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-139	-139	+139
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-142	-142	+142
Vertical Compressive Strain at Top of Subgrade (microstrain)	+336	+231	-335

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 174 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	850	850	837
Radial/Tangential Strain at Bottom of AC (microstrain)	-347	-347	+347
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-390	-390	+390
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-129	-129	+129
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-120	-120	+120
Vertical Compressive Strain at Top of Subgrade (microstrain)	+285	+196	-284

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 175 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	835	836	823
Radial/Tangential Strain at Bottom of AC (microstrain)	-347	-347	+347
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-389	-389	+389
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-124	-124	+124
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-103	-103	+103
Vertical Compressive Strain at Top of Subgrade (microstrain)	+244	+168	-244

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 176 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1081	1082	1070
Radial/Tangential Strain at Bottom of AC (microstrain)	-351	-351	+351
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-428	-428	+428
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-486	-485	+486
Vertical Compressive Strain at Top of Subgrade (microstrain)	+1160	+1160	-1160

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 177 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	1027	1027	1020
Radial/Tangential Strain at Bottom of AC (microstrain)	-344	-344	+344
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-389	-389	+389
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-366	-366	+366
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-375	-375	+375
Vertical Compressive Strain at Top of Subgrade (microstrain)	+883	+609	-883

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 178 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	983	983	971
Radial/Tangential Strain at Bottom of AC (microstrain)	-341	-341	+341
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-371	-371	+371
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-328	-328	+328
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-288	-288	+288
Vertical Compressive Strain at Top of Subgrade (microstrain)	+681	+469	-681

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 179 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	949	949	937
Radial/Tangential Strain at Bottom of AC (microstrain)	-339	-339	+339
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-361	-361	+361
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-312	-312	+312
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-228	-228	+212
Vertical Compressive Strain at Top of Subgrade (microstrain)	+541	+372	-399

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 180 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	921	921	909
Radial/Tangential Strain at Bottom of AC (microstrain)	-338	-338	+338
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-355	-355	+355
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-303	-303	+303
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-185	-185	+183
Vertical Compressive Strain at Top of Subgrade (microstrain)	+441	+303	-384

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 181 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	1002	1002	990		
Radial/Tangential Strain at Bottom of AC (microstrain)	-341	-341	+341		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-370	-370	+370		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-359	-359	+359		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+856	+856	-856		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 182 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	961	961	949		
Radial/Tangential Strain at Bottom of AC (microstrain)	-338	-338	+338		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-354	-354	+354		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-274	-274	+274		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-287	-287	+287		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+676	+465	-676		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 183 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	928	928	915
Radial/Tangential Strain at Bottom of AC (microstrain)	-336	-336	+336
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-345	-345	+345
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-243	-243	+243
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-227	-227	+227
Vertical Compressive Strain at Top of Subgrade (microstrain)	+537	+370	-537

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 184 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	900	901	888
Radial/Tangential Strain at Bottom of AC (microstrain)	-335	-335	+335
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-339	-339	+339
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-230	-230	+230
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-184	-184	+184
Vertical Compressive Strain at Top of Subgrade (microstrain)	+437	+300	-436

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 185 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	878	878	865
Radial/Tangential Strain at Bottom of AC (microstrain)	-335	-335	+335
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-336	-336	+335
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-222	-222	+222
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-152	-152	+152
Vertical Compressive Strain at Top of Subgrade (microstrain)	+362	+249	-362

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 186 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	943	943	930
Radial/Tangential Strain at Bottom of AC (microstrain)	-336	-336	+336
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-346	-346	+346
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-274	-274	+274
Vertical Compressive Strain at Top of Subgrade (microstrain)	+654	+654	-654

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 187 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	911	911	898
Radial/Tangential Strain at Bottom of AC (microstrain)	-335	-335	+335
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-338	-338	+338
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-213	-213	+213
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-225	-225	+225
Vertical Compressive Strain at Top of Subgrade (microstrain)	+532	+366	-532

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 188 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	884	885	872
Radial/Tangential Strain at Bottom of AC (microstrain)	-334	-334	+334
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-333	-333	+332
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-188	-188	+188
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-183	-183	+183
Vertical Compressive Strain at Top of Subgrade (microstrain)	+433	+298	-433

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 189 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	863	863	850
Radial/Tangential Strain at Bottom of AC (microstrain)	-333	-333	+333
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-329	-329	+329
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-177	-177	+177
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-152	-152	+152
Vertical Compressive Strain at Top of Subgrade (microstrain)	+359	+274	-359

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 190 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	844	845	831
Radial/Tangential Strain at Bottom of AC (microstrain)	-333	-333	+333
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-327	-327	+327
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-170	-170	+170
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-128	-127	+127
Vertical Compressive Strain at Top of Subgrade (microstrain)	+303	+208	-303

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 191 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	897	897	884		
Radial/Tangential Strain at Bottom of AC (microstrain)	-334	-334	+334		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-334	-334	+334		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-215	-215	+215		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+515	+515	-515		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 192 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Pavement Response	Kenlayer	Everstress	Bisar		
Surface Deflection (micron)	871	872	859		
Radial/Tangential Strain at Bottom of AC (microstrain)	-333	-333	+333		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-329	-329	+329		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-170	-170	+170		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-182	-181	+182		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+429	+295	-429		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 193 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	850	851	837
Radial/Tangential Strain at Bottom of AC (microstrain)	-333	-333	+333
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-326	-326	+326
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-150	-150	+150
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-151	-151	151'+
Vertical Compressive Strain at Top of Subgrade (microstrain)	+357	+245	-356

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 194 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	832	833	819
Radial/Tangential Strain at Bottom of AC (microstrain)	-333	-333	+333
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-324	-324	+323
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-141	-140	+140
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-127	-127	+127
Vertical Compressive Strain at Top of Subgrade (microstrain)	+301	+207	-300

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 195 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	817	817	804
Radial/Tangential Strain at Bottom of AC (microstrain)	-333	-333	+333
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-322	-322	+322
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-135	-135	+135
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-108	-108	+108
Vertical Compressive Strain at Top of Subgrade (microstrain)	+257	+177	-257

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 196 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	860	860	847
Radial/Tangential Strain at Bottom of AC (microstrain)	-333	-333	+333
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-327	-327	+327
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-173	-173	+173
Vertical Compressive Strain at Top of Subgrade (microstrain)	+416	+415	-415

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 197 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	840	840	827
Radial/Tangential Strain at Bottom of AC (microstrain)	-332	-332	+332
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-324	-324	+324
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-139	-139	+139
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-149	-149	+149
Vertical Compressive Strain at Top of Subgrade (microstrain)	+353	+243	-353

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 198 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	822	823	810
Radial/Tangential Strain at Bottom of AC (microstrain)	-332	-332	+332
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-322	-322	+321
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-123	-123	+123
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-126	-126	+126
Vertical Compressive Strain at Top of Subgrade (microstrain)	+298	+205	-298

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 199 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	807	808	795
Radial/Tangential Strain at Bottom of AC (microstrain)	-332	-332	+332
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-320	-320	+320
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-115	-115	+115
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-108	-108	+108
Vertical Compressive Strain at Top of Subgrade (microstrain)	+255	+175	-255

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 200 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Pavement Response	Kenlayer	Everstress	Bisar
Surface Deflection (micron)	794	795	781
Radial/Tangential Strain at Bottom of AC (microstrain)	-332	-332	+332
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-319	-319	+319
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-110	-110	+110
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-93	-93	+929
Vertical Compressive Strain at Top of Subgrade (microstrain)	+220	+152	-220

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 201 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	1003	1003	991		
Radial/Tangential Strain at Bottom of AC (microstrain)	-335	-335	+335		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-356	-356	+356		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-404	-404	+404		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+960	+960	-960		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 202 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	959	959	947		
Radial/Tangential Strain at Bottom of AC (microstrain)	-331	-331	+331		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-324	-324	+324		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-309	-309	+309		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-317	-317	+317		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+746	+514	-746		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 203 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	923	923	911		
Radial/Tangential Strain at Bottom of AC (microstrain)	-329	-329	+329		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-309	-309	+309		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-278	-278	+278		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-248	-248	+248		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+584	+402	-584		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 204 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	894	894	882		
Radial/Tangential Strain at Bottom of AC (microstrain)	-328	-328	+328		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-301	-301	+301		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-264	-264	+264		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-198	-198	+198		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+470	+323	-470		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 205 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	870	871	858		
Radial/Tangential Strain at Bottom of AC (microstrain)	-327	-327	+327		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-296	-295	+296		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-257	-256	+257		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-163	-163	+163		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+387	+266	-387		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 206 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	939	939	927		
Radial/Tangential Strain at Bottom of AC (microstrain)	-329	-329	+329		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-309	-309	+309		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-305	-305	+305		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+724	+724	-724		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 207 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	905	905	892		
Radial/Tangential Strain at Bottom of AC (microstrain)	-327	-329	+327		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-295	-309	+295		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-236	-305	+236		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-247	-724	+247		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+580	+400	-580		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 208 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	877	877	864		
Radial/Tangential Strain at Bottom of AC (microstrain)	-326	-329	+326		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-287	-309	+287		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-210	-305	+210		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-198	-724	+198		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+467	+322	-467		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 209 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	853	854	840		
Radial/Tangential Strain at Bottom of AC (microstrain)	-325	-329	+325		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-282	-309	+282		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-198	-305	+198		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-162	-724	+162		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+384	+264	-383		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 210 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	834	834	821		
Radial/Tangential Strain at Bottom of AC (microstrain)	-325	-325	+325		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-279	-279	+279		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-192	-192	+192		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-135	-135	+135		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+321	+221	-321		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 211 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	889	890	877		
Radial/Tangential Strain at Bottom of AC (microstrain)	-326	-326	+326		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-288	-288	+288		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-236	-236	+236		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+563	+562	-562		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 212 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	863	863	850		
Radial/Tangential Strain at Bottom of AC (microstrain)	-325	-325	+325		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-281	-281	+281		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-186	-186	+186		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-197	-197	+197		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+463	+319	-463		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 213 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	840	840	827		
Radial/Tangential Strain at Bottom of AC (microstrain)	-325	-325	+325		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-276	-281	+276		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-165	-186	+165		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-162	-197	+162		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+381	+319	-381		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 214 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	821	821	808		
Radial/Tangential Strain at Bottom of AC (microstrain)	-324	-325	+324		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-273	-281	+273		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-155	-186	+155		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-135	-197	+135		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+319	+319	-319		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 215 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	804	805	791		
Radial/Tangential Strain at Bottom of AC (microstrain)	-324	-325	+324		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-271	-281	+271		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-149	-186	+149		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-114	-197	+114		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+271	+319	-271		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 216 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	850	850	837		
Radial/Tangential Strain at Bottom of AC (microstrain)	-324	-326	+325		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-277	-288	+277		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-188	-236	+188		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+449	+562	-449		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 217 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	829	829	816		
Radial/Tangential Strain at Bottom of AC (microstrain)	-324	-324	+324		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-273	-273	+273		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-150	-150	+150		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-160	-160	+160		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+378	+260	-377		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 218 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	810	810	797		
Radial/Tangential Strain at Bottom of AC (microstrain)	-324	-324	+324		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-270	-273	+270		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-133	-150	+133		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-134	-160	+134		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+317	+260	-317		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 219 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	794	795	781		
Radial/Tangential Strain at Bottom of AC (microstrain)	-324	-324	+324		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-268	-273	+268		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-125	-150	+124		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-114	-160	+114		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+269	+260	-269		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 220 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	780	781	767		
Radial/Tangential Strain at Bottom of AC (microstrain)	-324	-324	+324		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-267	-273	+267		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-120	-150	+120		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-98	-160	+976		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+232	+260	-231		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 221 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	819	819	806		
Radial/Tangential Strain at Bottom of AC (microstrain)	-324	-324	+324		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-271	-271	+271		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-153	-153	+153		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+366	+366	-366		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 222 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	801	801	788		
Radial/Tangential Strain at Bottom of AC (microstrain)	-324	-324	+324		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-268	-268	+268		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-124	-124	+124		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-133	-133	+133		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+314	+216	-313		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 223 / FWD		Stress Load = 800 kPa	Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	785	786	772
Radial/Tangential Strain at Bottom of AC (microstrain)	-324	-324	+324
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-266	-268	+266
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-110	-124	+110
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-113	-133	+113
Vertical Compressive Strain at Top of Subgrade (microstrain)	+267	+216	-267

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 224 / FWD		Stress Load = 800 kPa	Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	772	773	759
Radial/Tangential Strain at Bottom of AC (microstrain)	-324	-324	+324
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-265	-268	+265
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-103	-124	+103
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-97	-133	+97.3
Vertical Compressive Strain at Top of Subgrade (microstrain)	+230	+216	-230

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 225 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	760	761	747		
Radial/Tangential Strain at Bottom of AC (microstrain)	-324	-324	+324		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-264	-268	+264		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-98	-124	+98.3		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-84	-133	+84.4		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+200	+216	-200		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 226 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	940	940	928		
Radial/Tangential Strain at Bottom of AC (microstrain)	-325	-324	+325		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-300	-271	+300		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-340	-153	+340		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+805	+366	-805		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 227 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	904	904	891		
Radial/Tangential Strain at Bottom of AC (microstrain)	-323	-323	+323		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-273	-273	+273		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-264	-264	+264		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-272	-272	+272		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+637	+439	-637		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 228 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	874	874	861		
Radial/Tangential Strain at Bottom of AC (microstrain)	-321	-323	+321		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-261	-273	+261		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-238	-264	+238		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-215	-272	+215		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+506	+439	-506		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 229 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	849	849	836		
Radial/Tangential Strain at Bottom of AC (microstrain)	-321	-323	+321		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-253	-273	+253		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-226	-264	+226		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-174	-272	+174		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+412	+439	-412		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 230 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	828	829	815		
Radial/Tangential Strain at Bottom of AC (microstrain)	-321	-323	+321		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-249	-273	+249		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-219	-264	+219		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-144	-272	+144		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+342	+439	-342		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 231 / FWD		Stress Load = 800 kPa	Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	887	887	874
Radial/Tangential Strain at Bottom of AC (microstrain)	-321	-321	+321
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-260	-260	+260
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-261	-261	+261
Vertical Compressive Strain at Top of Subgrade (microstrain)	+620	+619	-619

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 232 / FWD		Stress Load = 800 kPa	Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	858	859	845
Radial/Tangential Strain at Bottom of AC (microstrain)	-320	-320	+320
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-248	-248	+248
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-205	-205	+205
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-215	-215	+215
Vertical Compressive Strain at Top of Subgrade (microstrain)	+503	+247	-503

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 233 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	834	834	821		
Radial/Tangential Strain at Bottom of AC (microstrain)	-320	-320	+320		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-241	-248	+241		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-183	-205	+183		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-174	-215	+174		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+410	+247	-410		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 234 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	814	814	801		
Radial/Tangential Strain at Bottom of AC (microstrain)	-319	-320	+320		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-237	-248	+237		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-173	-205	+172		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-144	-215	+144		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+340	+247	-340		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 235 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	797	797	784		
Radial/Tangential Strain at Bottom of AC (microstrain)	-319	-320	+320		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-234	-248	+234		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-167	-205	+167		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-121	-215	+121		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+287	+247	-287		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 236 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	845	845	832		
Radial/Tangential Strain at Bottom of AC (microstrain)	-320	-321	+320		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-242	-260	+242		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-206	-261	+206		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+489	+619	-489		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 237 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	822	822	809		
Radial/Tangential Strain at Bottom of AC (microstrain)	-319	-319	+319		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-236	-236	+236		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-164	-164	+164		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-173	-173	+173		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+407	+280	-406		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 238 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	802	803	789		
Radial/Tangential Strain at Bottom of AC (microstrain)	-319	-319	+319		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-232	-236	+232		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-146	-164	+146		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-144	-173	+144		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+338	+280	-338		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 239 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	786	786	772		
Radial/Tangential Strain at Bottom of AC (microstrain)	-319	-319	+319		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-229	-236	+229		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-137	-164	+137		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-121	-173	+121		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+285	+280	-285		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 240 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	771	772	758		
Radial/Tangential Strain at Bottom of AC (microstrain)	-319	-319	+319		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-227	-236	+227		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-132	-164	+131		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-103	-173	+103		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+244	+280	-244		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 241 / FWD		Stress Load = 800 kPa	Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	812	812	798
Radial/Tangential Strain at Bottom of AC (microstrain)	-319	-319	+319
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-233	-233	+233
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-166	-166	+166
Vertical Compressive Strain at Top of Subgrade (microstrain)	+395	+395	-395

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 242 / FWD		Stress Load = 800 kPa	Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	793	793	779
Radial/Tangential Strain at Bottom of AC (microstrain)	-319	-319	+319
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-229	-229	+229
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-134	-134	+134
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-142	-142	+142
Vertical Compressive Strain at Top of Subgrade (microstrain)	+335	+231	-335

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 243 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	776	777	763		
Radial/Tangential Strain at Bottom of AC (microstrain)	-319	-319	+319		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-227	-229	+227		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-119	-134	+119		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-121	-142	+120		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+284	+231	-283		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 244 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	762	763	749		
Radial/Tangential Strain at Bottom of AC (microstrain)	-319	-319	+319		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-225	-229	+225		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-111	-134	+111		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-103	-142	+103		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+243	+231	-243		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 245 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	750	751	736		
Radial/Tangential Strain at Bottom of AC (microstrain)	-319	-319	+319		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-223	-229	+223		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-107	-134	+107		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-89	-142	+88.6		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+210	+231	-210		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 246 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	784	784	771		
Radial/Tangential Strain at Bottom of AC (microstrain)	-319	-319	+319		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-227	-233	+227		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-136	-166	+136		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+326	+395	-325		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 247 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	768	769	755		
Radial/Tangential Strain at Bottom of AC (microstrain)	-319	-319	+319		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-225	-225	+225		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-112	-112	+112		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-119	-119	+119		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+281	+193	-281		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 248 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	754	755	741		
Radial/Tangential Strain at Bottom of AC (microstrain)	-319	-319	+319		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-223	-225	+223		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-99	-112	+99.2		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-102	-119	+102		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+241	+193	-241		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 249 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	742	743	729		
Radial/Tangential Strain at Bottom of AC (microstrain)	-319	-319	+319		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-222	-225	+222		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-93	-112	+92.4		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-88	-119	+88.4		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+209	+193	-209		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 250 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	732	733	719		
Radial/Tangential Strain at Bottom of AC (microstrain)	-319	-319	+319		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-221	-225	+221		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-88	-112	+88.4		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-77	-119	+77.1		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+182	+193	-183		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 251 / FWD		Stress Load = 800 kPa	Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	1042	1043	1020
Radial/Tangential Strain at Bottom of AC (microstrain)	-341	-340	+341
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-423	-423	+423
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-479	-479	+479
Vertical Compressive Strain at Top of Subgrade (microstrain)	+1167	+1167	-1170

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 252 / FWD		Stress Load = 800 kPa	Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	985	986	965
Radial/Tangential Strain at Bottom of AC (microstrain)	-326	-326	+326
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-387	-387	+387
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-363	-363	+363
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-375	-375	+375
Vertical Compressive Strain at Top of Subgrade (microstrain)	+900	+618	-900

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 253 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	939	939	919		
Radial/Tangential Strain at Bottom of AC (microstrain)	-317	-326	+317		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-370	-387	+370		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-325	-363	+325		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-292	-375	+292		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+703	+618	-703		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 254 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	902	902	881		
Radial/Tangential Strain at Bottom of AC (microstrain)	-312	-326	+312		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-360	-387	+360		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-308	-363	+308		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-234	-375	+234		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+564	+618	-564		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 255 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	871	871	851		
Radial/Tangential Strain at Bottom of AC (microstrain)	-309	-326	+309		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-353	-387	+353		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-299	-363	+299		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-192	-375	+192		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+463	+618	-463		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 256 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	960	960	940		
Radial/Tangential Strain at Bottom of AC (microstrain)	-319	-340	+319		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-370	-423	+370		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-360	-479	+360		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+874	+1167	-874		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 257 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	916	916	895		
Radial/Tangential Strain at Bottom of AC (microstrain)	-311	-311	+311		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-354	-354	+354		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-275	-275	+275		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-292	-292	+292		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+697	+479	-698		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 258 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	879	880	859		
Radial/Tangential Strain at Bottom of AC (microstrain)	-306	-311	+306		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-344	-354	+344		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-244	-275	+244		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-234	-292	+234		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+559	+479	-559		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 259 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	850	850	829		
Radial/Tangential Strain at Bottom of AC (microstrain)	-303	-311	+303		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-339	-354	+339		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-229	-275	+229		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-191	-292	+191		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+458	+479	-458		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 260 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	825	825	804		
Radial/Tangential Strain at Bottom of AC (microstrain)	-301	-311	+301		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-335	-354	+335		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-222	-275	+222		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-159	-292	+159		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+382	+479	-382		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 261 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	896	896	876		
Radial/Tangential Strain at Bottom of AC (microstrain)	-307	-307	+307		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-346	-346	+346		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-279	-279	+279		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+675	+675	-675		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 262 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	862	862	841		
Radial/Tangential Strain at Bottom of AC (microstrain)	-302	-302	+302		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-338	-337	+338		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-217	-217	+217		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-232	-232	+232		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+554	+381	-554		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 263 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	833	833	812		
Radial/Tangential Strain at Bottom of AC (microstrain)	-300	-302	+299		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-332	-337	+332		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-191	-217	+191		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-191	-232	+191		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+455	+381	-454		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 264 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	809	809	788		
Radial/Tangential Strain at Bottom of AC (microstrain)	-298	-302	+298		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-328	-337	+328		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-179	-217	+179		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-159	-232	+159		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+379	+381	-379		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 265 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	788	789	767		
Radial/Tangential Strain at Bottom of AC (microstrain)	-296	-302	+296		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-326	-337	+326		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-172	-217	+172		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-134	-232	+134		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+320	+381	-320		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 266 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results			
Surface Deflection (micron)	846	846			
Radial/Tangential Strain at Bottom of AC (microstrain)	-300	-307			
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-333	-346			
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-222	-279			
Vertical Compressive Strain at Top of Subgrade (microstrain)	+536	+675			

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 267 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	819	819	798		
Radial/Tangential Strain at Bottom of AC (microstrain)	-297	-297	+297		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-328	-328	+328		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-175	-175	+175		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-189	-189	+189		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+450	+309	-450		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 268 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	795	795	774		
Radial/Tangential Strain at Bottom of AC (microstrain)	-296	-297	+296		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-325	-328	+325		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-154	-175	+154		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-158	-189	+158		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+376	+309	-376		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 269 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	775	776	754		
Radial/Tangential Strain at Bottom of AC (microstrain)	-294	-297	+294		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-322	-328	+322		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-144	-175	+144		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-134	-189	+134		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+318	+309	-318		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 270 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	759	759	738		
Radial/Tangential Strain at Bottom of AC (microstrain)	-294	-297	+294		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-321	-328	+321		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-138	-175	+138		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-114	-189	+114		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+272	+309	-272		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 271 / FWD		Stress Load = 800 kPa	Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	
Surface Deflection (micron)	806	806	
Radial/Tangential Strain at Bottom of AC (microstrain)	-296	-296	
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-326	-326	
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-180	-180	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+436	+435	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 272 / FWD		Stress Load = 800 kPa	Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	784	784	763
Radial/Tangential Strain at Bottom of AC (microstrain)	-294	-294	+294
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-323	-322	+323
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-145	-145	+145
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-156	-156	+156
Vertical Compressive Strain at Top of Subgrade (microstrain)	+372	+255	-371

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 273 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	765	765	744		
Radial/Tangential Strain at Bottom of AC (microstrain)	-293	-294	+293		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-320	-322	+320		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-128	-145	+128		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-133	-156	+133		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+315	+255	-315		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 274 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	748	749	727		
Radial/Tangential Strain at Bottom of AC (microstrain)	-293	-294	+292		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-319	-322	+319		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-119	-145	+119		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-114	-156	+114		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+270	+255	-270		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 275 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	734	735	713		
Radial/Tangential Strain at Bottom of AC (microstrain)	-292	-294	+292		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-318	-322	+318		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-113	-145	+113		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-98	-156	+98.2		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+234	+255	-234		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 276 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	964	964	944		
Radial/Tangential Strain at Bottom of AC (microstrain)	-309	-296	+309		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-359	-326	+359		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-406	-180	+406		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+980	+435	-980		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 277 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	916	916	896		
Radial/Tangential Strain at Bottom of AC (microstrain)	-299	-299	+299		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-328	-328	+328		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-313	-313	+313		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-323	-323	+323		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+768	+528	-768		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 278 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	877	877	856		
Radial/Tangential Strain at Bottom of AC (microstrain)	-293	-299	+293		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-312	-328	+312		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-280	-313	+280		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-254	-323	+254		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+606	+416	-606		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 279 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	845	846	825		
Radial/Tangential Strain at Bottom of AC (microstrain)	-290	-299	+290		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-303	-328	+303		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-266	-313	+266		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-205	-323	+205		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+491	+416	-491		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 280 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	819	819	798		
Radial/Tangential Strain at Bottom of AC (microstrain)	-287	-299	+287		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-298	-328	+298		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-258	-313	+258		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-169	-323	+169		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+406	+416	-406		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 281 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	895	895	874		
Radial/Tangential Strain at Bottom of AC (microstrain)	-294	294	+294		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-312	312	+312		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-310	310	+310		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+746	746	-746		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 282 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	858	858	837		
Radial/Tangential Strain at Bottom of AC (microstrain)	-289	-289	+289		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-298	-298	+298		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-240	-240	+240		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-254	-254	+254		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+602	+414	-602		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 283 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	827	827	806		
Radial/Tangential Strain at Bottom of AC (microstrain)	-285	-289	+285		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-290	-298	+290		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-213	-240	+213		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-205	-254	+205		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+488	+414	-488		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 284 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	801	801	780		
Radial/Tangential Strain at Bottom of AC (microstrain)	-283	-289	+283		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-285	-298	+285		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-201	-240	+201		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-169	-254	+169		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+403	+414	-403		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 285 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	779	780	758		
Radial/Tangential Strain at Bottom of AC (microstrain)	-282	-289	+282		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-281	-298	+281		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-194	-240	+194		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-142	-254	+142		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+338	+414	-338		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 286 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	841	841	820		
Radial/Tangential Strain at Bottom of AC (microstrain)	-286	-286	+286		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-291	-291	+291		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-243	-243	+243		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+584	+584	-584		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 287 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	811	811	790		
Radial/Tangential Strain at Bottom of AC (microstrain)	-283	-283	+283		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-284	-284	+284		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-191	-191	+191		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-204	-204	+204		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+483	+332	-483		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 288 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	786	787	765		
Radial/Tangential Strain at Bottom of AC (microstrain)	-281	-283	+281		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-279	-284	+279		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-169	-191	+169		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-169	-204	+169		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+400	+332	-400		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 289 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	765	766	744		
Radial/Tangential Strain at Bottom of AC (microstrain)	-280	-283	+280		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-276	-284	+276		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-158	-191	+158		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-141	-204	+141		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+336	+332	-336		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 290 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	748	748	726		
Radial/Tangential Strain at Bottom of AC (microstrain)	-279	-283	+279		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-273	-284	+273		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-152	-191	+152		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-120	-204	+120		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+286	+332	-286		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 291 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	798	798	777		
Radial/Tangential Strain at Bottom of AC (microstrain)	-281	-286	+281		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-280	-291	+280		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-195	-243	+195		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+468	+584	-468		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 292 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	774	774	753		
Radial/Tangential Strain at Bottom of AC (microstrain)	-280	-279	+280		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-276	-275	+276		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-156	-156	+156		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-167	-167	+167		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+396	+272	-396		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 293 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	754	754	733		
Radial/Tangential Strain at Bottom of AC (microstrain)	-278	-279	+278		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-272	-275	+272		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-138	-156	+138		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-141	-167	+141		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+333	+272	-333		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 294 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	736	737	715		
Radial/Tangential Strain at Bottom of AC (microstrain)	-277	-279	+277		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-270	-275	+270		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-128	-156	+128		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-120	-167	+120		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+284	+272	-284		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 295 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	721	722	700		
Radial/Tangential Strain at Bottom of AC (microstrain)	-277	-279	+277		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-269	-275	+269		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-123	-156	+123		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-103	-167	+103		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+245	+272	-244		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 296 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	763	764	742		
Radial/Tangential Strain at Bottom of AC (microstrain)	-279	-278	+279		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-273	-273	+273		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-160	-160	+160		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+384	+384	-384		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 297 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	744	744	723		
Radial/Tangential Strain at Bottom of AC (microstrain)	-277	-277	+277		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-270	-270	+270		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-130	-129	+129		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-139	-139	+139		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+330	+227	-330		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 298 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	727	727	706		
Radial/Tangential Strain at Bottom of AC (microstrain)	-277	-277	+277		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-268	-270	+268		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-115	-129	+114		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-119	-139	+119		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+282	+227	-282		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 299 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	712	713	691		
Radial/Tangential Strain at Bottom of AC (microstrain)	-276	-277	+276		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-267	-270	+267		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-107	-129	+106		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-103	-139	+102		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+243	+227	-243		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 300 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	699	700	678		
Radial/Tangential Strain at Bottom of AC (microstrain)	-276	-277	+276		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-266	-270	+266		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-102	-129	+102		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-89	-139	+89.0		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+211	+227	+211		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 301 / FWD		Stress Load = 800 kPa	Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	898	898	877
Radial/Tangential Strain at Bottom of AC (microstrain)	-288	-278	+288
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-305	-273	+305
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-346	-160	+346
Vertical Compressive Strain at Top of Subgrade (microstrain)	+829	+384	-829

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 302 / FWD		Stress Load = 800 kPa	Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	858	858	837
Radial/Tangential Strain at Bottom of AC (microstrain)	-282	-282	+282
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-279	-279	+279
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-270	-270	+270
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-279	-279	+279
Vertical Compressive Strain at Top of Subgrade (microstrain)	+660	+454	-660

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 303 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	825	825	804		
Radial/Tangential Strain at Bottom of AC (microstrain)	-278	-282	+278		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-265	-279	+265		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-242	-270	+242		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-222	-279	+222		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+527	+454	-527		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 304 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	798	798	777		
Radial/Tangential Strain at Bottom of AC (microstrain)	-275	-282	+275		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-257	-279	+257		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-229	-270	+229		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-181	-279	+181		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+431	+454	-431		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 305 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	775	775	754		
Radial/Tangential Strain at Bottom of AC (microstrain)	-274	-282	+274		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-252	-279	+252		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-222	-270	+222		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-151	-279	+151		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+359	+454	-359		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 306 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	840	840	819		
Radial/Tangential Strain at Bottom of AC (microstrain)	-279	-279	+279		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-265	-265	+265		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-269	-269	+269		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+642	+642	-642		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 307 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	808	808	787		
Radial/Tangential Strain at Bottom of AC (microstrain)	-275	-275	+275		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-253	-253	+253		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-211	-211	+211		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-222	-222	+222		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+524	+361	-524		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 308 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	782	782	760		
Radial/Tangential Strain at Bottom of AC (microstrain)	-272	-275	+272		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-246	-253	+246		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-188	-211	+188		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-181	-222	+181		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+429	+361	-429		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 309 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	759	760	738		
Radial/Tangential Strain at Bottom of AC (microstrain)	-271	-275	+271		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-241	-253	+241		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-176	-211	+176		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-150	-222	+150		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+357	+361	-357		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 310 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	741	741	719		
Radial/Tangential Strain at Bottom of AC (microstrain)	-270	-275	+270		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-238	-253	+238		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-170	-211	+170		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-127	-222	+127		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+302	+361	-302		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 311 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	794	794	773		
Radial/Tangential Strain at Bottom of AC (microstrain)	-273	-279	+273		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-247	-265	+247		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-213	-269	+213		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+509	+642	-509		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 312 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	769	769	747		
Radial/Tangential Strain at Bottom of AC (microstrain)	-271	-271	+271		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-240	-240	+240		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-169	-169	+169		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-180	-180	+180		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+425	+293	-425		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 313 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	747	747	725		
Radial/Tangential Strain at Bottom of AC (microstrain)	-269	-271	+269		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-236	-240	+236		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-150	-169	+150		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-150	-180	+150		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+355	+293	-355		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 314 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	728	729	707		
Radial/Tangential Strain at Bottom of AC (microstrain)	-268	-271	+268		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-233	-240	+233		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-140	-169	+140		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-127	-180	+127		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+300	+293	-300		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 315 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	713	713	691		
Radial/Tangential Strain at Bottom of AC (microstrain)	-268	-271	+268		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-231	-240	+231		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-135	-169	+135		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-108	-180	+108		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+257	+293	-257		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 316 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	757	757	736		
Radial/Tangential Strain at Bottom of AC (microstrain)	-270	-270	+270		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-237	-237	+237		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-172	-172	+172		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+413	+412	-412		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 317 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	736	737	715		
Radial/Tangential Strain at Bottom of AC (microstrain)	-268	-268	+268		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-233	-233	+233		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-139	-139	+139		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-149	-148	+149		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+351	+242	-351		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 318 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	718	719	697		
Radial/Tangential Strain at Bottom of AC (microstrain)	-267	-268	+267		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-230	-233	+230		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-123	-139	+123		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-126	-148	+126		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+298	+242	-298		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 319 / FWD		Stress Load = 800 kPa	Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	703	703	681
Radial/Tangential Strain at Bottom of AC (microstrain)	-267	-268	+267
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-228	-233	+228
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-115	-139	+115
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-108	-148	+108
Vertical Compressive Strain at Top of Subgrade (microstrain)	+255	+242	-255

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 320 / FWD		Stress Load = 800 kPa	Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	689	690	668
Radial/Tangential Strain at Bottom of AC (microstrain)	-267	-268	+267
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-226	-233	+226
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-110	-139	+110
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-93	-148	+93.2
Vertical Compressive Strain at Top of Subgrade (microstrain)	+221	+242	-221

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 321 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	727	727	705		
Radial/Tangential Strain at Bottom of AC (microstrain)	-268	-270	+268		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-231	-237	+231		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-142	-172	+142		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+341	+412	-341		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 322 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	710	710	688		
Radial/Tangential Strain at Bottom of AC (microstrain)	-267	-267	+267		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-228	-228	+228		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-117	-116	+116		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-125	-125	+125		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+295	+203	-295		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 323 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	694	695	673		
Radial/Tangential Strain at Bottom of AC (microstrain)	-266	-267	+266		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-226	-228	+226		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-103	-116	+103		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-107	-125	+107		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+254	+203	-253		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 324 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	681	682	660		
Radial/Tangential Strain at Bottom of AC (microstrain)	-266	-267	+266		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-225	-228	+225		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-96	-116	+96.0		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-93	-125	+92.9		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+220	+203	-220		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 325 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	670	671	648		
Radial/Tangential Strain at Bottom of AC (microstrain)	-266	-267	+266		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-224	-228	+224		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-92	-116	+91.7		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-81	-125	+81.1		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+192	+203	-192		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 326 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	842	842	821		
Radial/Tangential Strain at Bottom of AC (microstrain)	-275	-275	+275		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-261	-261	+261		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-297	-297	+297		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+708	+708	-708		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 327 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	809	809	788		
Radial/Tangential Strain at Bottom of AC (microstrain)	-270	-270	+270		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-239	-239	+239		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-235	-235	+235		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-243	-243	+243		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+572	+394	-572		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 328 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	781	781	759		
Radial/Tangential Strain at Bottom of AC (microstrain)	-268	-270	+268		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-227	-239	+227		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-211	-235	+211		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-196	-243	+196		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+462	+394	-462		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 329 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	757	757	736		
Radial/Tangential Strain at Bottom of AC (microstrain)	-266	-270	+266		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-220	-239	+220		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-200	-235	+200		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-161	-243	+161		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+382	+394	-381		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 330 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	737	737	716		
Radial/Tangential Strain at Bottom of AC (microstrain)	-265	-270	+265		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-216	-239	+216		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-193	-235	+193		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-135	-243	+135		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+321	+394	-320		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 331 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	794	794	772		
Radial/Tangential Strain at Bottom of AC (microstrain)	-268	-275	+268		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-227	-261	+227		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-234	-297	+234		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+557	+708	-557		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 332 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	767	767	745		
Radial/Tangential Strain at Bottom of AC (microstrain)	-266	-266	+266		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-216	-216	+216		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-186	-186	+186		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-195	-195	+195		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+460	+317	-460		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 333 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	743	744	722		
Radial/Tangential Strain at Bottom of AC (microstrain)	-264	-266	+264		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-210	-216	+210		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-166	-186	+166		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-161	-195	+161		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+380	+317	-380		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 334 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	724	724	702		
Radial/Tangential Strain at Bottom of AC (microstrain)	-263	-266	+263		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-206	-216	+206		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-156	-186	+156		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-135	-195	+135		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+319	+317	-318		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 335 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	707	708	686		
Radial/Tangential Strain at Bottom of AC (microstrain)	-262	-266	+262		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-203	-216	+203		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-150	-186	+150		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-114	-195	+114		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+271	+317	-271		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 336 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	754	754	733		
Radial/Tangential Strain at Bottom of AC (microstrain)	-264	-264	+264		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-211	-211	+211		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-188	-187	+187		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+447	+447	-447		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 337 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	732	732	710		
Radial/Tangential Strain at Bottom of AC (microstrain)	-263	-263	+263		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-205	-205	+205		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-151	-151	+151		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-160	-160	+160		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+377	+259	-377		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 338 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	713	713	691		
Radial/Tangential Strain at Bottom of AC (microstrain)	-262	-263	+262		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-201	-205	+201		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-134	-151	+134		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-135	-160	+134		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+317	+259	-317		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 339 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	697	697	675		
Radial/Tangential Strain at Bottom of AC (microstrain)	-261	-263	+261		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-198	-205	+198		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-126	-151	+125		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-114	-160	+114		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+270	+259	-270		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 340 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	683	683	661		
Radial/Tangential Strain at Bottom of AC (microstrain)	-261	-263	+261		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-196	-205	+196		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-121	-151	+121		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-98	-160	+98.0		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+232	+259	-232		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 341 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	722	722	700		
Radial/Tangential Strain at Bottom of AC (microstrain)	-262	-264	+262		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-202	-211	+202		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-153	-187	+153		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+366	+447	-366		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 342 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	704	704	682		
Radial/Tangential Strain at Bottom of AC (microstrain)	-261	-261	+261		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-198	-198	+198		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-125	-125	+125		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-133	-133	+133		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+314	+216	-314		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 343 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	688	688	666		
Radial/Tangential Strain at Bottom of AC (microstrain)	-260	-261	+260		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-196	-198	+196		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-111	-125	+111		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-114	-133	+114		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+268	+216	-268		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 344 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	674	675	652		
Radial/Tangential Strain at Bottom of AC (microstrain)	-260	-261	+260		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-194	-198	+194		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-104	-125	+104		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-98	-133	+97.8		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+231	+216	-231		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 345 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	662	663	640		
Radial/Tangential Strain at Bottom of AC (microstrain)	-260	-261	+260		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-193	-198	+193		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-99	-125	+99.1		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-85	-133	+84.9		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+201	+216	-201		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 346 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	695	696	674		
Radial/Tangential Strain at Bottom of AC (microstrain)	-261	-260	+261		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-197	-196	+196		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-128	-128	+128		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+305	+305	-305		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 347 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	680	681	659		
Radial/Tangential Strain at Bottom of AC (microstrain)	-260	-260	+260		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-194	-194	+194		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-105	-105	+105		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-113	-112	+112		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+265	+183	-265		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 348 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	667	667	645		
Radial/Tangential Strain at Bottom of AC (microstrain)	-260	-260	+260		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-192	-194	+192		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-94	-105	+93.6		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-97	-112	+97.3		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+230	+183	-230		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 349 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	655	656	633		
Radial/Tangential Strain at Bottom of AC (microstrain)	-259	-260	+259		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-191	-194	+191		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-87	-105	+87.1		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-85	-112	+84.7		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+200	+183	-200		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 350 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	644	645	623		
Radial/Tangential Strain at Bottom of AC (microstrain)	-259	-260	+259		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-190	-194	+190		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-83	-105	+83.2		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-74	-112	+74.3		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+176	+183	-176		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 351 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	795	795	774		
Radial/Tangential Strain at Bottom of AC (microstrain)	-266	-260	+266		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-226	-196	+226		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-256	-128	+256		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+610	+305	-610		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 352 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	767	767	745		
Radial/Tangential Strain at Bottom of AC (microstrain)	-263	-263	+263		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-206	-206	+206		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-205	-205	+205		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-213	-213	+213		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+499	+344	-499		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 353 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	743	743	721		
Radial/Tangential Strain at Bottom of AC (microstrain)	-261	-263	+261		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-196	-206	+196		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-185	-205	+185		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-173	-213	+173		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+408	+344	-408		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 354 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	722	722	701		
Radial/Tangential Strain at Bottom of AC (microstrain)	-260	-263	+260		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-190	-206	+190		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-175	-205	+175		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-144	-213	+144		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+340	+344	-340		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 355 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	705	705	683		
Radial/Tangential Strain at Bottom of AC (microstrain)	-259	-263	+259		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-186	-206	+186		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-169	-205	+169		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-121	-213	+121		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+288	+344	-287		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 356 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	754	754	732		
Radial/Tangential Strain at Bottom of AC (microstrain)	-261	-261	+261		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-196	-196	+196		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-205	-205	+205		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+487	+487	-487		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 357 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	731	731	709		
Radial/Tangential Strain at Bottom of AC (microstrain)	-259	-259	+259		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-187	-187	+187		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-165	-165	+165		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-173	-173	+173		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+406	+280	-406		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 358 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	711	711	689		
Radial/Tangential Strain at Bottom of AC (microstrain)	-258	-259	+258		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-181	-187	+181		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-147	-165	+147		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-144	-173	+144		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+339	+280	-338		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 359 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	693	694	672		
Radial/Tangential Strain at Bottom of AC (microstrain)	-257	-259	+257		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-177	-187	+177		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-139	-165	+138		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-121	-173	+121		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+286	+280	-286		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 360 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	678	679	657		
Radial/Tangential Strain at Bottom of AC (microstrain)	-257	-259	+257		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-175	-187	+175		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-134	-165	+133		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-104	-173	+103		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+245	+280	-245		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 361 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	720	720	698		
Radial/Tangential Strain at Bottom of AC (microstrain)	-258	-261	+258		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-182	-196	+182		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-166	-205	+166		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+395	+487	-395		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 362 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	701	701	679		
Radial/Tangential Strain at Bottom of AC (microstrain)	-257	-257	+257		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-177	-177	+177		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-135	-135	+135		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-143	-143	+143		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+336	+231	-336		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 363 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	684	684	662		
Radial/Tangential Strain at Bottom of AC (microstrain)	-257	-257	+257		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-173	-177	+173		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-121	-135	+120		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-121	-143	+121		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+285	+231	-285		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 364 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	669	670	648		
Radial/Tangential Strain at Bottom of AC (microstrain)	-256	-257	+256		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-171	-177	+171		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-113	-135	+113		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-104	-143	+103		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+244	+231	-244		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 365 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	657	657	635		
Radial/Tangential Strain at Bottom of AC (microstrain)	-256	-257	+256		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-169	-177	+169		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-108	-135	+108		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-89	-143	+89.3		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+211	+231	-211		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 366 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	692	692	670		
Radial/Tangential Strain at Bottom of AC (microstrain)	-257	-257	+257		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-174	-174	+174		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-137	-137	+137		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+327	+327	-327		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 367 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	676	676	654		
Radial/Tangential Strain at Bottom of AC (microstrain)	-256	-256	+256		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-171	-171	+171		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-113	-113	+113		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-120	-120	+120		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+282	+194	-282		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 368 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	661	662	640		
Radial/Tangential Strain at Bottom of AC (microstrain)	-256	-256	+256		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-169	-171	+168		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-101	-113	+101		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-103	-120	+103		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+243	+194	-242		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 369 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	649	650	627		
Radial/Tangential Strain at Bottom of AC (microstrain)	-255	-256	+255		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-167	-171	+167		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-94	-113	+93.7		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-89	-120	+89.1		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+210	+194	-210		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 370 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	638	639	616		
Radial/Tangential Strain at Bottom of AC (microstrain)	-255	-256	+255		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-166	-171	+166		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-90	-113	+89.7		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-78	-120	+77.8		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+184	+194	-184		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 371 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	668	669	646		
Radial/Tangential Strain at Bottom of AC (microstrain)	-256	-257	+256		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-169	-174	+169		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-115	-137	+115		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+275	+327	-274		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 372 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	654	655	633		
Radial/Tangential Strain at Bottom of AC (microstrain)	-255	-255	+255		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-167	-167	+167		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-96	-96	+95.6		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-102	-102	+102		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+240	+165	-240		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 373 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	642	643	621		
Radial/Tangential Strain at Bottom of AC (microstrain)	-255	-255	+255		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-165	-167	+165		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-85	-96	+85.3		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-89	-102	+88.7		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+209	+165	-209		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 374 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	632	633	610		
Radial/Tangential Strain at Bottom of AC (microstrain)	-255	-255	+255		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-164	-167	+164		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-80	-96	+79.4		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-78	-102	+77.6		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+183	+165	-183		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 375 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	622	623	601		
Radial/Tangential Strain at Bottom of AC (microstrain)	-255	-255	+255		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-163	-167	+163		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-76	-96	+75.8		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-68	-102	+68.3		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+161	+165	-161		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 376 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	867	867	838		
Radial/Tangential Strain at Bottom of AC (microstrain)	-259	-259	+259		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-301	-301	+301		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-336	-335	+336		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+819	+819	-819		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 377 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	828	828	800		
Radial/Tangential Strain at Bottom of AC (microstrain)	-249	-249	+249		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-278	-278	+278		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-263	-263	+263		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-273	-273	+273		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+656	+450	-656		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 378 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	795	795	766		
Radial/Tangential Strain at Bottom of AC (microstrain)	-242	-249	+242		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-266	-278	+266		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-237	-263	+237		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-220	-273	+222		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+530	+450	-529		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 379 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	767	767	738		
Radial/Tangential Strain at Bottom of AC (microstrain)	-238	-249	+238		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-259	-278	+259		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-225	-263	+225		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-181	-273	+181		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+437	+450	-437		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 380 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	743	744	714		
Radial/Tangential Strain at Bottom of AC (microstrain)	-236	-249	+236		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-254	-278	+254		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-218	-263	+218		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-152	-273	+152		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+367	+450	-367		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 381 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	811	811	782		
Radial/Tangential Strain at Bottom of AC (microstrain)	-244	-259	+244		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-267	-301	+267		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-264	-335	+264		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+641	+819	-641		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 382 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	779	779	750		
Radial/Tangential Strain at Bottom of AC (microstrain)	-238	-238	+238		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-255	-255	+255		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-207	-207	+208		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-220	-220	+220		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+528	+362	-528		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 383 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	752	752	722		
Radial/Tangential Strain at Bottom of AC (microstrain)	-234	-238	+234		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-248	-255	+248		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-185	-207	+185		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-181	-220	+181		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+435	+362	-435		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 384 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	728	728	699		
Radial/Tangential Strain at Bottom of AC (microstrain)	-231	-238	+231		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-244	-255	+244		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-173	-207	+173		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-152	-220	+152		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+365	+362	-365		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 385 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	708	708	679		
Radial/Tangential Strain at Bottom of AC (microstrain)	-229	-238	+229		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-241	-255	+241		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-167	-207	+167		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-129	-220	+129		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+311	+362	-310		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 386 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	765	765	736		
Radial/Tangential Strain at Bottom of AC (microstrain)	-235	-235	+235		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-250	-250	+250		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-211	-211	+211		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+513	+513	-513		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 387 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	738	738	709		
Radial/Tangential Strain at Bottom of AC (microstrain)	-231	-231	+231		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-243	-243	+243		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-168	-168	+168		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-180	-180	+180		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+432	+296	-432		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 388 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	715	716	686		
Radial/Tangential Strain at Bottom of AC (microstrain)	-229	-231	+229		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-239	-243	+239		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-149	-168	+149		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-152	-180	+152		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+363	+296	-363		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 389 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	696	696	667		
Radial/Tangential Strain at Bottom of AC (microstrain)	-227	-231	+227		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-236	-243	+236		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-139	-168	+139		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-129	-180	+129		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+309	+296	-309		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 390 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	679	679	650		
Radial/Tangential Strain at Bottom of AC (microstrain)	-225	-231	+225		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-234	-243	+234		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-133	-168	+133		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-111	-180	+111		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+266	+296	-266		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 391 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	726	727	697		
Radial/Tangential Strain at Bottom of AC (microstrain)	-229	-235	+229		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-240	-250	+240		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-173	-211	+173		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+420	+513	-419		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 392 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	705	705	675		
Radial/Tangential Strain at Bottom of AC (microstrain)	-227	-227	+227		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-236	-236	+236		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-140	-140	+140		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-150	-150	+150		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+360	+247	-359		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 393 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	686	686	656		
Radial/Tangential Strain at Bottom of AC (microstrain)	-225	-227	+225		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-233	-236	+233		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-124	-140	+124		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-129	-150	+129		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+307	+247	-307		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 394 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	669	669	640		
Radial/Tangential Strain at Bottom of AC (microstrain)	-224	-227	+224		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-231	-236	+231		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-115	-140	+115		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-111	-150	+111		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+264	+247	-264		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 395 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	655	655	626		
Radial/Tangential Strain at Bottom of AC (microstrain)	-223	-227	+223		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-230	-236	+230		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-110	-140	+110		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-96	-150	+96.1		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+230	+247	-230		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 396 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	695	695	665		
Radial/Tangential Strain at Bottom of AC (microstrain)	-226	-226	+226		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-234	-234	+234		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-144	-144	+144		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+349	+349	-349		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 397 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	676	677	647		
Radial/Tangential Strain at Bottom of AC (microstrain)	-224	-224	+224		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-231	-231	+231		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-118	-118	+118		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-127	-127	+127		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+304	+208	-304		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 398 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	660	661	631		
Radial/Tangential Strain at Bottom of AC (microstrain)	-223	-224	+223		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-229	-231	+229		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-105	-118	+104		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-110	-127	+110		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+263	+208	-262		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 399 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	646	647	617		
Radial/Tangential Strain at Bottom of AC (microstrain)	-222	-224	+222		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-228	-231	+228		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-97	-118	+96.9		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-96	-127	+95.8		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+228	+208	-228		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 400 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	634	635	605		
Radial/Tangential Strain at Bottom of AC (microstrain)	-221	-224	+221		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-227	-231	+227		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-92	-118	+92.4		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-84	-127	+83.9		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+200	+208	-200		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 401 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	815	815	786		
Radial/Tangential Strain at Bottom of AC (microstrain)	-238	-238	+238		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-261	-261	+261		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-293	-293	+293		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+710	+710	-710		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 402 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	781	781	752		
Radial/Tangential Strain at Bottom of AC (microstrain)	-231	-231	+231		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-241	-240	+241		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-233	-233	+233		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-241	-241	+241		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+575	+395	-575		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 403 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	752	752	723		
Radial/Tangential Strain at Bottom of AC (microstrain)	-226	-226	+226		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-229	-229	+229		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-210	-210	+210		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-196	-196	+196		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+468	+321	-468		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 404 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	727	727	698		
Radial/Tangential Strain at Bottom of AC (microstrain)	-223	-223	+223		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-223	-223	+223		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-199	-199	+199		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-162	-162	+162		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+389	+267	-389		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 405 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	706	706	677		
Radial/Tangential Strain at Bottom of AC (microstrain)	-221	-221	+221		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-218	-218	+218		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-192	-192	+192		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-137	-137	+137		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+329	+225	-328		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 406 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	766	766	737		
Radial/Tangential Strain at Bottom of AC (microstrain)	-227	-227	+227		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-230	-230	+230		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-233	-233	+233		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+562	+562	-562		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 407 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	738	738	709		
Radial/Tangential Strain at Bottom of AC (microstrain)	-223	-223	+223		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-220	-220	+220		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-185	-185	+186		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-196	-196	+196		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+466	+320	-466		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 408 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	713	714	684		
Radial/Tangential Strain at Bottom of AC (microstrain)	-220	-220	+220		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-213	-213	+213		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-165	-165	+165		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-163	-162	+163		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+387	+266	-387		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 409 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	693	693	664		
Radial/Tangential Strain at Bottom of AC (microstrain)	-218	-218	+218		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-209	-209	+209		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-155	-155	+155		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-137	-137	+137		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+327	+224	-327		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 410 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	675	675	646		
Radial/Tangential Strain at Bottom of AC (microstrain)	-216	-216	+216		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-206	-206	+206		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-149	-149	+149		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-117	-117	+117		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+280	+192	-279		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 411 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	725	725	696		
Radial/Tangential Strain at Bottom of AC (microstrain)	-221	-221	+221		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-214	-214	+214		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-188	-188	+188		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+454	+453	-453		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 412 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	702	702	672		
Radial/Tangential Strain at Bottom of AC (microstrain)	-218	-218	+218		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-209	-209	+209		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-152	-151	+151		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-162	-161	+161		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+384	+264	-384		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 413 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	682	682	652		
Radial/Tangential Strain at Bottom of AC (microstrain)	-216	-216	+216		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-205	-205	+205		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-135	-134	+135		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-137	-137	+137		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+325	+223	-325		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 414 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	664	665	635		
Radial/Tangential Strain at Bottom of AC (microstrain)	-215	-215	+215		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-202	-202	+202		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-126	-126	+126		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-117	-117	+117		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+278	+191	-278		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 415 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	649	650	620		
Radial/Tangential Strain at Bottom of AC (microstrain)	-214	-214	+214		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-200	-200	+200		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-120	-120	+120		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-101	-101	+101		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+240	+165	-240		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 416 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	691	691	662		
Radial/Tangential Strain at Bottom of AC (microstrain)	-217	-216	+217		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-206	-206	+206		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-155	-155	+155		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+374	+373	-374		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 417 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	672	672	643		
Radial/Tangential Strain at Bottom of AC (microstrain)	-215	-215	+215		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-202	-202	+202		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-126	-126	+126		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-135	-135	+135		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+322	+221	-322		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 418 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	655	655	626		
Radial/Tangential Strain at Bottom of AC (microstrain)	-213	-213	+213		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-199	-199	+199		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-112	-112	+112		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-116	-116	+116		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+276	+190	-276		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 419 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	640	641	611		
Radial/Tangential Strain at Bottom of AC (microstrain)	-212	-212	+212		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-197	-197	+197		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-104	-104	+104		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-101	-100	+101		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+239	+164	-239		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 420 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	627	628	598		
Radial/Tangential Strain at Bottom of AC (microstrain)	-212	-212	+212		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-196	-196	+196		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-100	-100	+100		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-88	-88	+88		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+209	+143	-209		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 421 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	663	663	634		
Radial/Tangential Strain at Bottom of AC (microstrain)	-214	-214	+214		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-200	-200	+200		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-130	-130	+130		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+313	+313	-313		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 422 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	647	647	617		
Radial/Tangential Strain at Bottom of AC (microstrain)	-212	-212	+212		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-198	-198	+198		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-107	-107	+107		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-115	-115	+115		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+274	+188	-273		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 423 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	632	633	603		
Radial/Tangential Strain at Bottom of AC (microstrain)	-212	-212	+212		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-196	-196	+196		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-95	-95	+95		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-100	-100	+100		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+238	+163	-237		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 424 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	620	620	590		
Radial/Tangential Strain at Bottom of AC (microstrain)	-211	-211	+211		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-194	-194	+194		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-88	-88	+88		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-87	-87	+87		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+208	+143	-207		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 425 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	608	609	579		
Radial/Tangential Strain at Bottom of AC (microstrain)	-210	-210	+210		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-193	-193	+193		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-84	-84	+84		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-77	-77	+77		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+183	+126	-183		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 426 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	768	768	739		
Radial/Tangential Strain at Bottom of AC (microstrain)	-224	-224	+224		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-227	-227	+227		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-256	-256	+256		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+617	+617	-617		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 427 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	739	739	710		
Radial/Tangential Strain at Bottom of AC (microstrain)	-219	-219	+219		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-209	-209	+209		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-206	-206	+206		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-213	-213	+213		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+506	+348	-506		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 428 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	714	714	684		
Radial/Tangential Strain at Bottom of AC (microstrain)	-215	-215	+215		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-199	-199	+199		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-185	-185	+185		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-175	-175	+175		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+416	+286	-416		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 429 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	692	692	663		
Radial/Tangential Strain at Bottom of AC (microstrain)	-213	-213	+213		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-193	-193	+193		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-175	-175	+175		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-146	-146	+146		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+348	+239	-348		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 430 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	673	674	644		
Radial/Tangential Strain at Bottom of AC (microstrain)	-211	-211	+211		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-189	-189	+189		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-170	-170	+170		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-124	-123	+123		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+296	+203	-295		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 431 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	726	726	697		
Radial/Tangential Strain at Bottom of AC (microstrain)	-216	-216	+216		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-199	-199	+199		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-206	-206	+206		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+494	+494	-494		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 432 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	701	701	672		
Radial/Tangential Strain at Bottom of AC (microstrain)	-213	-213	+213		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-190	-190	+190		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-166	-166	+166		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-175	-175	+175		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+414	+285	-414		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 433 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	680	680	651		
Radial/Tangential Strain at Bottom of AC (microstrain)	-211	-211	+211		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-184	-184	+184		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-148	-148	+148		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-146	-146	+146		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+347	+238	-346		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 434 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	662	662	632		
Radial/Tangential Strain at Bottom of AC (microstrain)	-209	-209	+209		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-180	-180	+180		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-139	-139	+139		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-124	-124	+124		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+294	+202	-294		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 435 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	646	646	616		
Radial/Tangential Strain at Bottom of AC (microstrain)	-208	-208	+208		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-178	-178	+178		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-134	-134	+134		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-106	-106	+106		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+253	+174	-253		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 436 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	690	690	661		
Radial/Tangential Strain at Bottom of AC (microstrain)	-211	-211	+211		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-185	-185	+185		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-168	-168	+168		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+403	+403	-403		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 437 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	670	670	640		
Radial/Tangential Strain at Bottom of AC (microstrain)	-209	-209	+209		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-180	-180	+180		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-137	-137	+137		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-145	-145	+145		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+344	+237	-344		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 438 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	652	652	622		
Radial/Tangential Strain at Bottom of AC (microstrain)	-208	-208	+208		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-176	-176	+176		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-122	-122	+122		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-124	-123	+124		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+293	+201	-293		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 439 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	636	637	607		
Radial/Tangential Strain at Bottom of AC (microstrain)	-207	-206	+207		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-174	-174	+174		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-114	-114	+114		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-106	-106	+106		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+252	+173	-251		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 440 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	622	623	593		
Radial/Tangential Strain at Bottom of AC (microstrain)	-206	-206	+206		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-172	-172	+172		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-109	-109	+109		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-92	-92	+92		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+219	+150	-218		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 441 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	660	660	631		
Radial/Tangential Strain at Bottom of AC (microstrain)	-208	-208	+208		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-177	-177	+177		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-140	-139	+139		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+335	+334	-335		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 442 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	643	643	614		
Radial/Tangential Strain at Bottom of AC (microstrain)	-207	-207	+207		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-174	-174	+174		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-115	-115	+115		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-122	-122	+122		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+290	+199	-290		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 443 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	628	628	598		
Radial/Tangential Strain at Bottom of AC (microstrain)	-206	-206	+206		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-171	-171	+171		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-102	-102	+102		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-106	-106	+106		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+250	+172	-250		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 444 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	614	615	585		
Radial/Tangential Strain at Bottom of AC (microstrain)	-205	-205	+205		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-170	-170	+170		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-95	-95	+95		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-92	-92	+92		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+218	+150	-217		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 445 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	603	604	573		
Radial/Tangential Strain at Bottom of AC (microstrain)	-204	-204	+204		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-168	-168	+168		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-91	-91	+91		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-80	-80	+80		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+191	+131	-191		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 446 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	635	636	606		
Radial/Tangential Strain at Bottom of AC (microstrain)	-206	-206	+206		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-172	-172	+172		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-118	-117	+117		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+282	+282	-282		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 447 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	621	621	591		
Radial/Tangential Strain at Bottom of AC (microstrain)	-205	-205	+205		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-170	-170	+170		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-98	-98	+98		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-105	-104	+104		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+248	+170	-248		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 448 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	608	608	578		
Radial/Tangential Strain at Bottom of AC (microstrain)	-204	-204	+204		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-168	-168	+168		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-87	-87	+87		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-91	-91	+91		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+216	+149	-216		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 449 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	596	597	567		
Radial/Tangential Strain at Bottom of AC (microstrain)	-204	-204	+204		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-167	-167	+167		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-81	-81	+81		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-80	-80	+80		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+190	+130	-190		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 450 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	586	587	557		
Radial/Tangential Strain at Bottom of AC (microstrain)	-203	-203	+203		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-166	-166	+166		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-77	-77	+77		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-71	-71	+71		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+166	+115	-168		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 451 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	728	728	699		
Radial/Tangential Strain at Bottom of AC (microstrain)	-214	-214	+214		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-199	-199	+199		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-225	-225	+225		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+539	+539	-539		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 452 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	702	703	673		
Radial/Tangential Strain at Bottom of AC (microstrain)	-210	-210	+210		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-183	-183	+183		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-182	-182	+182		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-189	-189	+189		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+448	+308	-447		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 453 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	680	680	651		
Radial/Tangential Strain at Bottom of AC (microstrain)	-207	-207	+207		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-174	-174	+174		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-165	-164	+165		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-157	-157	+157		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+371	+255	-371		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 454 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	661	661	632		
Radial/Tangential Strain at Bottom of AC (microstrain)	-206	-206	+206		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-168	-168	+168		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-156	-155	+155		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-132	-132	+132		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+313	+215	-312		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 455 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	645	645	615		
Radial/Tangential Strain at Bottom of AC (microstrain)	-205	-204	+205		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-164	-164	+164		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-150	-150	+150		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-112	-112	+112		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+267	+183	-267		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 456 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	691	691	661		
Radial/Tangential Strain at Bottom of AC (microstrain)	-208	-208	+208		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-174	-174	+174		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-183	-183	+183		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+437	+437	-437		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 457 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	669	669	640		
Radial/Tangential Strain at Bottom of AC (microstrain)	-206	-206	+206		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-166	-166	+166		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-149	-149	+149		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-157	-157	+157		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+370	+254	-369		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 458 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	650	651	621		
Radial/Tangential Strain at Bottom of AC (microstrain)	-204	-204	+204		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-161	-160	+160		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-133	-133	+133		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-132	-132	+132		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+312	+214	-311		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 459 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	634	634	605		
Radial/Tangential Strain at Bottom of AC (microstrain)	-203	-203	+203		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-157	-157	+157		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-125	-125	+125		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-112	-112	+112		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+266	+183	-266		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 460 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	620	620	590		
Radial/Tangential Strain at Bottom of AC (microstrain)	-202	-202	+202		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-155	-154	+155		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-120	-120	+120		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-97	-97	+97		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+230	+158	-230		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 461 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	659	660	630		
Radial/Tangential Strain at Bottom of AC (microstrain)	-204	-204	+204		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-161	-161	+161		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-151	-151	+151		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+360	+360	-360		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 462 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	641	642	612		
Radial/Tangential Strain at Bottom of AC (microstrain)	-203	-203	+203		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-157	-157	+157		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-124	-124	+124		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-131	-131	+131		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+309	+213	-309		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 463 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	625	626	596		
Radial/Tangential Strain at Bottom of AC (microstrain)	-202	-202	+202		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-153	-153	+153		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-110	-110	+110		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-112	-112	+112		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+265	+182	-265		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 464 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	611	612	582		
Radial/Tangential Strain at Bottom of AC (microstrain)	-201	-201	+201		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-151	-151	+151		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-103	-103	+103		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-97	-97	+97		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+229	+157	-229		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 465 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	599	600	570		
Radial/Tangential Strain at Bottom of AC (microstrain)	-200	-200	+200		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-149	-149	+149		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-99	-99	+99		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-84	-84	+84		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+200	+137	-200		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 466 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	633	633	603		
Radial/Tangential Strain at Bottom of AC (microstrain)	-202	-202	+202		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-154	-154	+154		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-126	-126	+126		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+301	+301	-301		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 467 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	618	618	588		
Radial/Tangential Strain at Bottom of AC (microstrain)	-201	-201	+201		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-151	-151	+151		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-105	-104	+104		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-111	-111	+111		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+263	+181	-262		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 468 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	604	605	574		
Radial/Tangential Strain at Bottom of AC (microstrain)	-200	-200	+200		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-149	-149	+149		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-93	-93	+93		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-97	-96	+96		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+228	+157	-227		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 469 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	592	593	563		
Radial/Tangential Strain at Bottom of AC (microstrain)	-200	-200	+200		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-147	-147	+147		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-87	-87	+87		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-84	-84	+84		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+199	+137	-199		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 470 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	581	583	552		
Radial/Tangential Strain at Bottom of AC (microstrain)	-199	-199	+199		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-146	-146	+146		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-83	-83	+83		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-74	-74	+74		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+175	+120	-175		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 471 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	610	611	581		
Radial/Tangential Strain at Bottom of AC (microstrain)	-200	-200	+200		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-149	-149	+149		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-107	-107	+107		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+256	+255	-255		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 472 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	597	598	568		
Radial/Tangential Strain at Bottom of AC (microstrain)	-200	-200	+200		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-147	-147	+147		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-90	-89	+89		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-95	-95	+95		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+225	+155	-225		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 473 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	586	587	556		
Radial/Tangential Strain at Bottom of AC (microstrain)	-199	-199	+199		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-146	-146	+146		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-80	-80	+80		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-84	-84	+84		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+198	+136	-197		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 474 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	575	576	546		
Radial/Tangential Strain at Bottom of AC (microstrain)	-199	-199	+199		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-145	-145	+145		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-74	-74	+74		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-74	-74	+74		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+174	+120	-174		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 475 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	566	567	537		
Radial/Tangential Strain at Bottom of AC (microstrain)	-198	-198	+198		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-144	-144	+144		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-71	-71	+71		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-65	-65	+65		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+154	+106	-154		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 476 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	692	692	663		
Radial/Tangential Strain at Bottom of AC (microstrain)	-207	-206	+207		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-175	-175	+175		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-198	-198	+198		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+473	+473	-473		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 477 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	670	670	641		
Radial/Tangential Strain at Bottom of AC (microstrain)	-204	-204	+204		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-161	-161	+161		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-162	-162	+162		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-169	-169	+169		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+398	+274	-398		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 478 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	651	651	621		
Radial/Tangential Strain at Bottom of AC (microstrain)	-202	-202	+202		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-153	-153	+153		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-147	-147	+147		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-141	-141	+141		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+333	+229	-333		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 479 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	634	634	604		
Radial/Tangential Strain at Bottom of AC (microstrain)	-200	-200	+200		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-148	-148	+148		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-139	-138	+138		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-119	-119	+119		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+282	+194	-282		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 480 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	619	619	589		
Radial/Tangential Strain at Bottom of AC (microstrain)	-200	-200	+200		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-145	-144	+144		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-134	-134	+134		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-102	-102	+102		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+243	+167	-242		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 481 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	660	660	630		
Radial/Tangential Strain at Bottom of AC (microstrain)	-202	-202	+202		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-153	-153	+153		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-164	-163	+164		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+389	+389	-389		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 482 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	641	641	611		
Radial/Tangential Strain at Bottom of AC (microstrain)	-200	-200	+200		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-146	-146	+146		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-134	-134	+134		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-141	-141	+141		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+331	+228	-331		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 483 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	624	625	595		
Radial/Tangential Strain at Bottom of AC (microstrain)	-199	-199	+199		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-141	-141	+141		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-120	-120	+120		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-120	-119	+120		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+282	+194	-281		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 484 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	610	610	580		
Radial/Tangential Strain at Bottom of AC (microstrain)	-198	-198	+198		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-138	-138	+138		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-113	-113	+113		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-102	-102	+102		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+242	+166	-241		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 485 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	597	598	567		
Radial/Tangential Strain at Bottom of AC (microstrain)	-198	-198	+198		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-136	-136	+136		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-109	-108	+108		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-89	-89	+89		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+210	+144	-210		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 486 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	632	633	603		
Radial/Tangential Strain at Bottom of AC (microstrain)	-200	-199	+200		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-142	-142	+142		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-136	-136	+136		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+323	+323	-323		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 487 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	616	617	586		
Radial/Tangential Strain at Bottom of AC (microstrain)	-198	-198	+198		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-138	-137	+137		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-112	-112	+112		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-119	-119	+119		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+280	+192	-279		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 488 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	602	602	572		
Radial/Tangential Strain at Bottom of AC (microstrain)	-197	-197	+197		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-134	-134	+134		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-101	-100	+100		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-102	-102	+102		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+241	+166	-241		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 489 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	589	590	560		
Radial/Tangential Strain at Bottom of AC (microstrain)	-197	-197	+197		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-132	-132	+132		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-94	-94	+94		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-89	-89	+89		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+209	+144	-209		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 490 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	578	579	549		
Radial/Tangential Strain at Bottom of AC (microstrain)	-196	-196	+196		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-131	-131	+131		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-90	-90	+90		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-78	-77	+77		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+183	+126	-183		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 491 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	609	609	579		
Radial/Tangential Strain at Bottom of AC (microstrain)	-198	-198	+198		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-135	-135	+135		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-114	-114	+114		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+273	+272	-272		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 492 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	595	596	565		
Radial/Tangential Strain at Bottom of AC (microstrain)	-197	-197	+197		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-132	-132	+132		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-95	-95	+95		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-101	-101	+101		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+239	+164	-238		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 493 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	583	584	553		
Radial/Tangential Strain at Bottom of AC (microstrain)	-196	-196	+196		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-130	-130	+130		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-85	-85	+85		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-88	-88	+88		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+208	+143	-208		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 494 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	572	573	542		
Radial/Tangential Strain at Bottom of AC (microstrain)	-196	-196	+196		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-129	-129	+129		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-80	-79	+79		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-77	-77	+77		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+182	+126	-182		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 495 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	562	563	533		
Radial/Tangential Strain at Bottom of AC (microstrain)	-196	-195	+196		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-128	-128	+128		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-76	-76	+76		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-68	-68	+68		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+161	+111	-161		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 496 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	589	589	559		
Radial/Tangential Strain at Bottom of AC (microstrain)	-196	-196	+196		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-131	-131	+131		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-98	-97	+97		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+233	+232	-232		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 497 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	577	578	547		
Radial/Tangential Strain at Bottom of AC (microstrain)	-196	-196	+196		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-129	-129	+129		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-82	-82	+82		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-87	-87	+87		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+206	+142	-206		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 498 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	566	567	536		
Radial/Tangential Strain at Bottom of AC (microstrain)	-195	-195	+195		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-128	-128	+128		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-74	-73	+74		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-77	-77	+77		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+181	+125	-181		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 499 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	557	558	527		
Radial/Tangential Strain at Bottom of AC (microstrain)	-195	-195	+195		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-126	-126	+126		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-68	-68	+68		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-68	-68	+68		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+160	+110	-161		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 500 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	548	549	519		
Radial/Tangential Strain at Bottom of AC (microstrain)	-195	-195	+195		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-126	-126	+126		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-65	-65	+65		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-60	-60	+60		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+143	+98	-143		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 501 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	743	743	707		
Radial/Tangential Strain at Bottom of AC (microstrain)	-198	-198	+198		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-224	-224	+224		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-247	-247	+247		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+605	+605	-605		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 502 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	716	716	680		
Radial/Tangential Strain at Bottom of AC (microstrain)	-191	-191	+191		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-208	-208	+208		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-199	-199	+199		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-206	-206	+206		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+498	+341	-498		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 503 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	692	692	656		
Radial/Tangential Strain at Bottom of AC (microstrain)	-186	-186	+186		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-200	-200	+200		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-181	-181	+181		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-170	-170	+170		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+412	+282	-412		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 504 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	670	670	634		
Radial/Tangential Strain at Bottom of AC (microstrain)	-183	-183	+183		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-195	-195	+195		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-172	-172	+172		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-143	-143	+133		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+347	+273	-247		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 505 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	652	652	615		
Radial/Tangential Strain at Bottom of AC (microstrain)	-181	-181	+181		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-191	-191	+191		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-166	-166	+166		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-122	-122	+116		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+297	+203	-237		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 506 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	704	704	668		
Radial/Tangential Strain at Bottom of AC (microstrain)	-188	-188	+188		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-201	-201	+201		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-200	-200	+200		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+488	+488	-488		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 507 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	680	680	644		
Radial/Tangential Strain at Bottom of AC (microstrain)	-183	-183	+183		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-193	-193	+193		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-162	-162	+162		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-171	-171	+171		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+411	+282	-411		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 508 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	659	659	623		
Radial/Tangential Strain at Bottom of AC (microstrain)	-180	-180	+180		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-187	-187	+187		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-145	-145	+145		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-144	-144	+144		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+347	+238	-347		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 509 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	640	641	604		
Radial/Tangential Strain at Bottom of AC (microstrain)	-178	-178	+178		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-184	-184	+184		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-136	-136	+136		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-123	-123	+123		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+296	+203	-296		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 510 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	624	624	588		
Radial/Tangential Strain at Bottom of AC (microstrain)	-176	-176	+176		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-181	-181	+181		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-131	-131	+131		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-106	-106	+106		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+256	+175	-256		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 511 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	669	669	633		
Radial/Tangential Strain at Bottom of AC (microstrain)	-181	-181	+181		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-189	-189	+189		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-165	-165	+165		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+401	+401	-401		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 512 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	649	649	613		
Radial/Tangential Strain at Bottom of AC (microstrain)	-178	-178	+178		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-184	-184	+184		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-134	-134	+134		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-143	-143	+143		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+345	+236	-344		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 513 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	631	631	594		
Radial/Tangential Strain at Bottom of AC (microstrain)	-176	-176	+176		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-180	-180	+180		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-120	-119	+119		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-123	-123	+123		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+295	+202	-295		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 514 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	615	615	579		
Radial/Tangential Strain at Bottom of AC (microstrain)	-174	-174	+174		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-178	-178	+178		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-112	-111	+112		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-106	-106	+106		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+255	+175	-255		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 515 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	601	601	565		
Radial/Tangential Strain at Bottom of AC (microstrain)	-173	-173	+173		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-176	-176	+176		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-107	-107	+107		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-93	-93	+93		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+223	+153	-223		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 516 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	640	640	603		
Radial/Tangential Strain at Bottom of AC (microstrain)	-176	-176	+176		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-181	-181	+181		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-138	-138	+138		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+336	+336	-336		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 517 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	622	622	586		
Radial/Tangential Strain at Bottom of AC (microstrain)	-174	-174	+174		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-178	-178	+178		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-114	-113	+114		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-122	-122	+122		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+293	+201	-292		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 518 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	606	607	570		
Radial/Tangential Strain at Bottom of AC (microstrain)	-173	-173	+173		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-176	-176	+176		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-101	-101	+101		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-106	-106	+106		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+254	+174	-254		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 519 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	593	593	557		
Radial/Tangential Strain at Bottom of AC (microstrain)	-172	-171	+172		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-174	-174	+174		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-94	-94	+94		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-93	-93	+93		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+222	+152	-222		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 520 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	580	581	544		
Radial/Tangential Strain at Bottom of AC (microstrain)	-171	-171	+171		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-173	-173	+173		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-90	-90	+90		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-82	-81	+81		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+195	+134	-195		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 521 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	614	614	578		
Radial/Tangential Strain at Bottom of AC (microstrain)	-173	-173	+173		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-176	-176	+176		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-117	-117	+117		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+285	+285	-285		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 522 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	599	600	563		
Radial/Tangential Strain at Bottom of AC (microstrain)	-172	-172	+172		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-174	-174	+174		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-98	-97	+98		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-105	-105	+105		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+252	+172	-251		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 523 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	586	586	550		
Radial/Tangential Strain at Bottom of AC (microstrain)	-171	-171	+171		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-173	-172	+173		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-87	-87	+87		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-92	-92	+92		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+221	+151	-220		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 524 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	574	574	538		
Radial/Tangential Strain at Bottom of AC (microstrain)	-170	-170	+170		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-171	-171	+171		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-81	-80	+81		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-81	-81	+81		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+194	+133	-194		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 525 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	563	564	527		
Radial/Tangential Strain at Bottom of AC (microstrain)	-169	-169	+169		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-170	-170	+170		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-77	-77	+77		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-72	-72	+72		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+172	+118	-172		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 526 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	707	707	671		
Radial/Tangential Strain at Bottom of AC (microstrain)	-184	-184	+184		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-198	-198	+198		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-221	-221	+221		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+536	+536	-536		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 527 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	682	682	646		
Radial/Tangential Strain at Bottom of AC (microstrain)	-179	-179	+179		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-184	-184	+184		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-180	-180	+180		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-186	-186	+186		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+445	+306	-445		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 528 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	660	660	624		
Radial/Tangential Strain at Bottom of AC (microstrain)	-175	-175	+175		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-176	-176	+176		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-163	-163	+163		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-155	-154	+155		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+371	+254	-371		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 529 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	641	641	605		
Radial/Tangential Strain at Bottom of AC (microstrain)	-172	-172	+173		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-171	-170	+170		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-154	-154	+154		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-131	-130	+130		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+314	+215	-314		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 530 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	624	624	588		
Radial/Tangential Strain at Bottom of AC (microstrain)	-171	-171	+171		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-167	-167	+167		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-149	-149	+149		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-112	-112	+112		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+270	+185	-270		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 531 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	671	671	635		
Radial/Tangential Strain at Bottom of AC (microstrain)	-176	-176	+176		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-176	-176	+176		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-181	-181	+181		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+436	+436	-436		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 532 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	650	650	613		
Radial/Tangential Strain at Bottom of AC (microstrain)	-173	-173	+173		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-169	-169	+169		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-147	-147	+147		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-155	-155	+155		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+370	+254	-370		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 533 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	630	631	594		
Radial/Tangential Strain at Bottom of AC (microstrain)	-170	-170	+170		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-164	-164	+164		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-132	-132	+132		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-131	-131	+131		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+314	+215	-313		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 534 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	614	614	577		
Radial/Tangential Strain at Bottom of AC (microstrain)	-168	-168	+168		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-160	-160	+160		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-124	-124	+124		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-112	-112	+112		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+269	+184	-269		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 535 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	599	599	563		
Radial/Tangential Strain at Bottom of AC (microstrain)	-167	-167	+167		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-158	-158	+158		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-119	-119	+119		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-97	-97	+97		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+233	+160	-233		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 536 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	640	640	603		
Radial/Tangential Strain at Bottom of AC (microstrain)	-171	-171	+171		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-165	-165	+165		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-149	-149	+149		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+361	+361	-361		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 537 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	621	621	585		
Radial/Tangential Strain at Bottom of AC (microstrain)	-168	-168	+168		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-160	-160	+160		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-123	-123	+123		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-131	-130	+130		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+312	-214	-311		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 538 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	605	605	569		
Radial/Tangential Strain at Bottom of AC (microstrain)	-167	-167	+167		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-157	-157	+157		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-110	-109	+109		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-112	-112	+112		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+268	+184	-268		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 539 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	590	591	554		
Radial/Tangential Strain at Bottom of AC (microstrain)	-165	-165	+165		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-155	-154	+154		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-102	-102	+102		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-97	-97	+97		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+233	+160	-232		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 540 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	578	578	541		
Radial/Tangential Strain at Bottom of AC (microstrain)	-164	-164	+164		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-153	-153	+153		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-98	-98	+98		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-85	-85	+85		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+204	+140	-204		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 541 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	613	613	577		
Radial/Tangential Strain at Bottom of AC (microstrain)	-167	-167	+167		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-158	-158	+158		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-126	-125	+126		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+304	+303	-303		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 542 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	597	597	561		
Radial/Tangential Strain at Bottom of AC (microstrain)	-166	-166	+166		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-155	-155	+155		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-104	-104	+104		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-111	-111	+111		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+266	+182	-265		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 543 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	583	583	547		
Radial/Tangential Strain at Bottom of AC (microstrain)	-164	-164	+164		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-153	-152	+153		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-93	-93	+93		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-97	-97	+97		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+232	+159	-231		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 544 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	570	571	534		
Radial/Tangential Strain at Bottom of AC (microstrain)	-163	-163	+163		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-151	-151	+151		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-87	-86	+86		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-85	-85	+85		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+203	+139	-203		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 545 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	559	560	523		
Radial/Tangential Strain at Bottom of AC (microstrain)	-163	-163	+163		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-150	-150	+150		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-83	-82	+82		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-75	-75	+75		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+179	+123	-179		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 546 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	590	590	554		
Radial/Tangential Strain at Bottom of AC (microstrain)	-165	-165	+165		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-153	-153	+153		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-107	-107	+107		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+259	259	-259		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 547 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	576	577	540		
Radial/Tangential Strain at Bottom of AC (microstrain)	-164	-164	+164		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-151	-151	+151		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-90	-90	+90		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-96	-96	+96		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+229	+157	-229		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 548 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	564	565	528		
Radial/Tangential Strain at Bottom of AC (microstrain)	-163	-163	+163		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-150	-149	+150		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-80	-80	+80		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-85	-85	+85		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+202	+139	-202		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 549 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	553	554	517		
Radial/Tangential Strain at Bottom of AC (microstrain)	-162	-162	+162		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-148	-148	+148		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-74	-74	+74		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-75	-75	+75		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+178	+122	-178		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 550 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	543	544	507		
Radial/Tangential Strain at Bottom of AC (microstrain)	-162	-161	+162		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-147	-147	+147		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-71	-71	+71		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-67	-67	+67		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+159	+109	-159		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 551 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	673	673	637		
Radial/Tangential Strain at Bottom of AC (microstrain)	-174	-174	+174		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-176	-176	+176		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-197	-197	+197		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+475	+475	-475		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 552 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	651	651	615		
Radial/Tangential Strain at Bottom of AC (microstrain)	-170	-170	+170		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-162	-162	+162		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-161	-161	+161		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-168	-167	+168		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+399	+274	-399		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 553 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	631	632	595		
Radial/Tangential Strain at Bottom of AC (microstrain)	-167	-167	+167		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-155	-155	+155		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-146	-146	+146		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-140	-140	+140		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+335	+230	-335		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 554 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	614	614	578		
Radial/Tangential Strain at Bottom of AC (microstrain)	-165	-165	+165		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-150	-150	+150		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-139	-138	+138		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-119	-119	+119		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+285	+195	-285		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 555 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	599	599	562		
Radial/Tangential Strain at Bottom of AC (microstrain)	-164	-163	+164		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-147	-146	+147		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-134	-134	+134		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-103	-102	+102		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+246	+169	-246		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 556 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	641	641	605		
Radial/Tangential Strain at Bottom of AC (microstrain)	-168	-168	+168		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-155	-155	+155		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-163	-163	+163		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+391	+391	-391		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 557 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	622	622	585		
Radial/Tangential Strain at Bottom of AC (microstrain)	-165	-165	+165		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-148	-148	+148		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-134	-133	+133		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-140	-140	+140		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+334	+229	-334		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 558 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	605	605	568		
Radial/Tangential Strain at Bottom of AC (microstrain)	-163	-163	+163		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-144	-144	+144		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-120	-120	+120		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-120	-120	+120		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+285	+195	-284		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 559 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	590	590	553		
Radial/Tangential Strain at Bottom of AC (microstrain)	-162	-162	+162		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-141	-140	+140		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-113	-112	+112		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-103	-103	+103		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+245	+168	-245		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 560 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	576	577	540		
Radial/Tangential Strain at Bottom of AC (microstrain)	-161	-161	+161		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-138	-138	+138		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-108	-108	+108		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-90	-89	+89		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+214	+147	-213		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 561 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	613	613	577		
Radial/Tangential Strain at Bottom of AC (microstrain)	-164	-164	+164		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-145	-145	+145		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-136	-135	+136		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+326	+326	-326		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 562 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	596	597	560		
Radial/Tangential Strain at Bottom of AC (microstrain)	-162	-162	+162		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-140	-140	+140		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-112	-112	+112		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-119	-119	+119		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+283	+194	-282		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 563 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	582	582	545
Radial/Tangential Strain at Bottom of AC (microstrain)	-160	-160	+160
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-137	-137	+137
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-100	-100	+100
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-103	-103	+103
Vertical Compressive Strain at Top of Subgrade (microstrain)	+244	+168	-244

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 564 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	568	569	532
Radial/Tangential Strain at Bottom of AC (microstrain)	-159	-159	+159
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-135	-135	+135
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-94	-94	+94
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-90	-89	+89
Vertical Compressive Strain at Top of Subgrade (microstrain)	+213	+146	-213

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 565 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	557	558	521
Radial/Tangential Strain at Bottom of AC (microstrain)	-159	-159	+159
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-134	-133	+133
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-90	-90	+90
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-79	-78	+79
Vertical Compressive Strain at Top of Subgrade (microstrain)	+187	+128	-187

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 566 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	589	589	552
Radial/Tangential Strain at Bottom of AC (microstrain)	-161	-161	+161
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-138	-138	+138
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-115	-114	+114
Vertical Compressive Strain at Top of Subgrade (microstrain)	+276	+275	-275

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 567 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	574	575	538
Radial/Tangential Strain at Bottom of AC (microstrain)	-160	-160	+160
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-135	-135	+135
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-96	-96	+96
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-102	-102	+102
Vertical Compressive Strain at Top of Subgrade (microstrain)	+242	+166	-242

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 568 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	562	562	525
Radial/Tangential Strain at Bottom of AC (microstrain)	-159	-159	+159
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-133	-133	+133
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-86	-85	+86
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-89	-89	+89
Vertical Compressive Strain at Top of Subgrade (microstrain)	+212	+146	-212

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 569 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	550	551	514
Radial/Tangential Strain at Bottom of AC (microstrain)	-158	-158	+158
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-132	-132	+132
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-80	-80	+80
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-79	-78	+78
Vertical Compressive Strain at Top of Subgrade (microstrain)	+186	+128	-186

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 570 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	540	541	504
Radial/Tangential Strain at Bottom of AC (microstrain)	-157	-157	+157
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-131	-130	+130
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-76	-76	+76
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-69	-69	+69
Vertical Compressive Strain at Top of Subgrade (microstrain)	+165	+113	-165

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 571 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	568	568	532
Radial/Tangential Strain at Bottom of AC (microstrain)	-159	-159	+159
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-134	-134	+134
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-98	-98	+98
Vertical Compressive Strain at Top of Subgrade (microstrain)	+236	+236	-236

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 572 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	555	556	519
Radial/Tangential Strain at Bottom of AC (microstrain)	-158	-158	+158
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-132	-132	+132
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-83	-83	+83
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-88	-88	+88
Vertical Compressive Strain at Top of Subgrade (microstrain)	+210	+144	-210

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 573 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	544	545	508
Radial/Tangential Strain at Bottom of AC (microstrain)	-157	-157	+157
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-130	-130	+130
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-74	-74	+74
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-78	-78	+78
Vertical Compressive Strain at Top of Subgrade (microstrain)	+185	+127	-185

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 574 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	534	535	498
Radial/Tangential Strain at Bottom of AC (microstrain)	-157	-157	+157
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-129	-129	+129
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-69	-69	+69
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-69	-69	+69
Vertical Compressive Strain at Top of Subgrade (microstrain)	+164	+113	-164

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 575 / FWD		Stress Load = 800 kPa	Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	525	527	489
Radial/Tangential Strain at Bottom of AC (microstrain)	-156	-156	+156
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-128	-128	+128
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-66	-65	+66
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-62	-62	+62
Vertical Compressive Strain at Top of Subgrade (microstrain)	+147	+101	-147

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 576 / FWD		Stress Load = 800 kPa	Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	643	643	607
Radial/Tangential Strain at Bottom of AC (microstrain)	-166	-166	+166
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-156	-156	+156
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-176	-176	+176
Vertical Compressive Strain at Top of Subgrade (microstrain)	+422	+422	-422

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 577 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	623	623	587
Radial/Tangential Strain at Bottom of AC (microstrain)	-163	-163	+163
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-144	-144	+144
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-145	-145	+145
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-151	-151	+151
Vertical Compressive Strain at Top of Subgrade (microstrain)	+358	+246	-358

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 578 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	606	606	569
Radial/Tangential Strain at Bottom of AC (microstrain)	-161	-161	+161
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-137	-137	+137
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-132	-132	+132
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-128	-128	+128
Vertical Compressive Strain at Top of Subgrade (microstrain)	+303	+208	-303

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 579 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	590	590	553
Radial/Tangential Strain at Bottom of AC (microstrain)	-159	-159	+159
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-133	-133	+133
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-125	-124	+125
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-109	-109	+109
Vertical Compressive Strain at Top of Subgrade (microstrain)	+259	+178	-259

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 580 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	576	576	540
Radial/Tangential Strain at Bottom of AC (microstrain)	-158	-158	+158
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-130	-130	+130
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-120	-120	+120
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-94	-94	+94
Vertical Compressive Strain at Top of Subgrade (microstrain)	+225	+154	-225

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 581 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	614	614	578		
Radial/Tangential Strain at Bottom of AC (microstrain)	-162	-162	+162		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-138	-138	+138		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-147	-147	+147		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+351	+351	-351		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 582 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	597	597	560		
Radial/Tangential Strain at Bottom of AC (microstrain)	-160	-159	+160		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-131	-131	+131		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-121	-121	+121		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-128	-128	+128		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+302	+208	-302		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 583 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	581	582	545
Radial/Tangential Strain at Bottom of AC (microstrain)	-158	-158	+158
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-127	-127	+127
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-109	-109	+109
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-109	-109	+109
Vertical Compressive Strain at Top of Subgrade (microstrain)	+259	+178	-259

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 584 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	568	568	531
Radial/Tangential Strain at Bottom of AC (microstrain)	-157	-157	+157
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-124	-124	+124
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-103	-102	+102
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-95	-94	+94
Vertical Compressive Strain at Top of Subgrade (microstrain)	+224	+154	-224

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 585 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	555	556	519
Radial/Tangential Strain at Bottom of AC (microstrain)	-156	-156	+156
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-122	-122	+122
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-98	-98	+98
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-83	-82	+82
Vertical Compressive Strain at Top of Subgrade (microstrain)	+196	+135	-196

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 586 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	589	589	552
Radial/Tangential Strain at Bottom of AC (microstrain)	-158	-158	+158
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-128	-128	+128
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-123	-123	+123
Vertical Compressive Strain at Top of Subgrade (microstrain)	+295	+295	-295

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 587 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	574	574	537
Radial/Tangential Strain at Bottom of AC (microstrain)	-157	-157	+157
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-124	-124	+124
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-103	-103	+103
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-109	-109	+109
Vertical Compressive Strain at Top of Subgrade (microstrain)	+257	+177	-257

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 588 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	560	561	524
Radial/Tangential Strain at Bottom of AC (microstrain)	-156	-156	+156
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-121	-121	+121
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-92	-92	+92
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-95	-94	+94
Vertical Compressive Strain at Top of Subgrade (microstrain)	+224	+154	-223

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 589 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	548	549	512
Radial/Tangential Strain at Bottom of AC (microstrain)	-155	-155	+155
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-119	-119	+119
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-86	-86	+86
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-83	-82	+82
Vertical Compressive Strain at Top of Subgrade (microstrain)	+196	+134	-195

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 590 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	538	539	502
Radial/Tangential Strain at Bottom of AC (microstrain)	-154	-154	+154
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-118	-118	+118
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-82	-82	+82
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-73	-73	+73
Vertical Compressive Strain at Top of Subgrade (microstrain)	+172	+118	-172

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 591 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	567	567	531
Radial/Tangential Strain at Bottom of AC (microstrain)	-156	-156	+156
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-122	-122	+122
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-105	-105	+105
Vertical Compressive Strain at Top of Subgrade (microstrain)	+251	+251	-251

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 592 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	554	555	518
Radial/Tangential Strain at Bottom of AC (microstrain)	-155	-155	+155
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-119	-119	+119
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-88	-88	+88
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-94	-93	+93
Vertical Compressive Strain at Top of Subgrade (microstrain)	+222	+152	-221

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 593 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	542	543	506
Radial/Tangential Strain at Bottom of AC (microstrain)	-154	-154	+154
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-117	-117	+117
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-79	-79	+79
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-82	-82	+82
Vertical Compressive Strain at Top of Subgrade (microstrain)	+195	+134	-194

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 594 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	532	533	496
Radial/Tangential Strain at Bottom of AC (microstrain)	-154	-154	+154
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-116	-116	+116
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-74	-74	+74
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-73	-72	+73
Vertical Compressive Strain at Top of Subgrade (microstrain)	+172	+118	-172

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 595 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	523	524	487
Radial/Tangential Strain at Bottom of AC (microstrain)	-153	-153	+153
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-115	-115	+115
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-70	-70	+70
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-64	-64	+64
Vertical Compressive Strain at Top of Subgrade (microstrain)	+153	+105	-153

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 596 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	548	549	512
Radial/Tangential Strain at Bottom of AC (microstrain)	-155	-155	+155
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-118	-118	+118
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-90	-90	+90
Vertical Compressive Strain at Top of Subgrade (microstrain)	+216	+216	-216

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 597 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	537	538	501
Radial/Tangential Strain at Bottom of AC (microstrain)	-154	-153	+154
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-116	-116	+116
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-77	-76	+76
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-81	-81	+81
Vertical Compressive Strain at Top of Subgrade (microstrain)	+193	+132	-193

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 598 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	527	528	490
Radial/Tangential Strain at Bottom of AC (microstrain)	-153	-153	+153
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-115	-115	+115
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-69	-69	+69
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-73	-72	+72
Vertical Compressive Strain at Top of Subgrade (microstrain)	+171	+118	-171

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 599 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	518	519	481
Radial/Tangential Strain at Bottom of AC (microstrain)	-153	-153	+153
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-114	-114	+114
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-64	-64	+64
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-64	-65	+64
Vertical Compressive Strain at Top of Subgrade (microstrain)	+152	+105	-152

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 600 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	509	511	473
Radial/Tangential Strain at Bottom of AC (microstrain)	-153	-153	+153
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-113	-113	+113
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-61	-61	+61
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-57	-57	+57
Vertical Compressive Strain at Top of Subgrade (microstrain)	+136	+94	-136

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 601 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	616	616	579		
Radial/Tangential Strain at Bottom of AC (microstrain)	-161	-161	+161		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-140	-140	+140		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-157	-157	+157		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+377	+376	-376		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 602 / FWD		Stress Load = 800 kPa		Contact Radius = 15 cm	
Description	Kenlayer Results	Everstress Results	Bisar Results		
Surface Deflection (micron)	598	598	562		
Radial/Tangential Strain at Bottom of AC (microstrain)	-158	-158	+158		
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-129	-129	+129		
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-131	-131	+131		
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-137	-136	+137		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+323	+222	-323		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 603 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	582	582	546
Radial/Tangential Strain at Bottom of AC (microstrain)	-156	-156	+156
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-122	-122	+122
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-119	-119	+119
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-116	-116	+116
Vertical Compressive Strain at Top of Subgrade (microstrain)	+275	+189	-275

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 604 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	568	568	532
Radial/Tangential Strain at Bottom of AC (microstrain)	-155	-155	+155
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-118	-118	+118
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-112	-112	+112
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-100	-100	+100
Vertical Compressive Strain at Top of Subgrade (microstrain)	+237	+163	-237

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 605 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	555	556	519
Radial/Tangential Strain at Bottom of AC (microstrain)	-154	-154	+154
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-116	-116	+116
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-108	-108	+108
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-87	-87	+87
Vertical Compressive Strain at Top of Subgrade (microstrain)	+206	+142	-206

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 606 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	590	590	553
Radial/Tangential Strain at Bottom of AC (microstrain)	-157	-157	+157
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-123	-123	+123
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-133	-133	+133
Vertical Compressive Strain at Top of Subgrade (microstrain)	+317	+316	-316

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 607 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	574	575	538
Radial/Tangential Strain at Bottom of AC (microstrain)	-155	-155	+155
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-117	-117	+117
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-111	-111	+111
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-116	-116	+116
Vertical Compressive Strain at Top of Subgrade (microstrain)	+274	+189	-274

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 608 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	560	561	524
Radial/Tangential Strain at Bottom of AC (microstrain)	-154	-154	+154
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-113	-113	+113
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-100	-100	+100
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-100	-100	+100
Vertical Compressive Strain at Top of Subgrade (microstrain)	+237	+163	-236

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 609 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	548	549	512
Radial/Tangential Strain at Bottom of AC (microstrain)	-153	-153	+153
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-111	-110	+110
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-94	-93	+93
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-87	-87	+87
Vertical Compressive Strain at Top of Subgrade (microstrain)	+206	+141	-206

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 610 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	537	538	501
Radial/Tangential Strain at Bottom of AC (microstrain)	-153	-153	+153
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-109	-108	+109
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-90	-90	+90
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-76	-76	+76
Vertical Compressive Strain at Top of Subgrade (microstrain)	+181	+124	-180

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 611 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	567	567	531
Radial/Tangential Strain at Bottom of AC (microstrain)	-154	-154	+154
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-114	-114	+114
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-112	-112	+112
Vertical Compressive Strain at Top of Subgrade (microstrain)	+268	+268	-268

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 612 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	554	554	517
Radial/Tangential Strain at Bottom of AC (microstrain)	-153	-153	+153
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-110	-110	+110
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-94	-94	+94
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-100	-99	+99
Vertical Compressive Strain at Top of Subgrade (microstrain)	+235	+162	-235

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 613 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	541	542	505
Radial/Tangential Strain at Bottom of AC (microstrain)	-152	-152	+152
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-108	-108	+108
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-85	-85	+85
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-87	-87	+87
Vertical Compressive Strain at Top of Subgrade (microstrain)	+205	+141	-205

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 614 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	531	531	494
Radial/Tangential Strain at Bottom of AC (microstrain)	-152	-152	+152
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-106	-106	+106
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-79	-79	+79
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-76	-76	+76
Vertical Compressive Strain at Top of Subgrade (microstrain)	+180	+124	-180

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 615 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	521	522	484
Radial/Tangential Strain at Bottom of AC (microstrain)	-151	-151	+151
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-104	-104	+104
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-76	-76	+76
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-67	-67	+67
Vertical Compressive Strain at Top of Subgrade (microstrain)	+159	+110	-159

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 616 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	547	548	511
Radial/Tangential Strain at Bottom of AC (microstrain)	-153	-153	+153
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-108	-108	+108
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-96	-96	+96
Vertical Compressive Strain at Top of Subgrade (microstrain)	+229	+229	-229

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 617 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	536	536	499
Radial/Tangential Strain at Bottom of AC (microstrain)	-152	-152	+152
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-106	-106	+106
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-81	-81	+81
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-86	-86	+86
Vertical Compressive Strain at Top of Subgrade (microstrain)	+203	+140	-203

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 618 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	525	526	489
Radial/Tangential Strain at Bottom of AC (microstrain)	-151	-151	+151
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-104	-104	+104
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-73	-73	+73
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-76	-76	+76
Vertical Compressive Strain at Top of Subgrade (microstrain)	+179	+123	-179

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 619 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	515	517	479
Radial/Tangential Strain at Bottom of AC (microstrain)	-151	-151	+151
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-103	-103	+103
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-68	-68	+68
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-67	-67	+67
Vertical Compressive Strain at Top of Subgrade (microstrain)	+159	+109	-159

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 620 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	507	508	471
Radial/Tangential Strain at Bottom of AC (microstrain)	-150	-150	+150
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-102	-102	+102
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-65	-65	+65
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-60	-60	+60
Vertical Compressive Strain at Top of Subgrade (microstrain)	+142	+97	-142

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 621 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	530	531	494
Radial/Tangential Strain at Bottom of AC (microstrain)	-151	-151	+151
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-105	-105	+105
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-83	-83	+83
Vertical Compressive Strain at Top of Subgrade (microstrain)	+199	+198	-198

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 622 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	520	521	483
Radial/Tangential Strain at Bottom of AC (microstrain)	-151	-151	+151
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-103	-103	+103
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-71	-71	+71
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-75	-75	+75
Vertical Compressive Strain at Top of Subgrade (microstrain)	+178	+122	-177

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

Section - 623 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	510	512	475
Radial/Tangential Strain at Bottom of AC (microstrain)	-150	-150	+150
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-102	-102	+102
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-64	-64	+64
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-67	-67	+67
Vertical Compressive Strain at Top of Subgrade (microstrain)	+158	+109	-158

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 624 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	502	503	467
Radial/Tangential Strain at Bottom of AC (microstrain)	-150	-150	+150
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-101	-101	+101
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-59	-59	+59
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-60	-60	+60
Vertical Compressive Strain at Top of Subgrade (microstrain)	+141	+97	-141

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 625 / FWD	Stress Load = 800 kPa		Contact Radius = 15 cm
Description	Kenlayer Results	Everstress Results	Bisar Results
Surface Deflection (micron)	495	496	459
Radial/Tangential Strain at Bottom of AC (microstrain)	-150	-150	+150
Radial/Tangential Strain at Bottom of Crush Rock Base (microstrain)	-100	-100	+100
Radial/Tangential Strain at Bottom of Laterite Subbase (microstrain)	-56	-56	+56
Radial/Tangential Strain at Bottom of Selected Material (microstrain)	-53	-54	+54
Vertical Compressive Strain at Top of Subgrade (microstrain)	+126	+87	-127

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.

Section - 001 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	1069	1069	1050	1516	1516	1490	1043	1043	1020	1537*	1537	1510	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+24	+24	-24	-241	-241	+237	+23	+22	-22	-339*	-339	+339	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-153	-153	+150	-685	-685	+671	-134	-132	+129	-688*	-687	+678	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-296	+296	+291	-849*	-849	+834	-261	-258	+253	-793	-793	+780	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+178	+178	-174	+1775*	+1775	-1740	+159	+160	-156	+1753	+1753	-1720	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 002 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	1032	1032	1010	1409	1409	1390	1010	1010	991	1439*	1439	1410	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+25	+25	-25	-228	-228	+224	+24	+24	-24	-327.1*	-327	+327	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-117	-117	+115	-610	-610	+599	-105	-101	+99	-619*	-619	+610	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-227	-226	+222	-572*	-572	+561	-205	-199	+196	-536	-535	+526	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-315	-315	+309	-584*	-584	+573	-285	-280	+274	-541	-540	+530	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+274	+162	-268	+1350*	+917	-1330	+253	+148	-248	+1248	+847	-1230	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 003 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	986	986	968	1332	1332	1310	966	966	949	1367*	1368	1340	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+30	+30	-29	-225	-225	+221	+28	+28	-28	-324*	-324	+324	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-92	-92	+91	-584	-584	+574	-85	-80	+78	-595*	-595	+586	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-177	-177	+174	-514*	-514	+504	-166	-157	+154	-481	-480	+472	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-300	-300	+295	-410*	-410	+402	-274	-270	+265	-383	-377	+369	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+323	+203	-317	+1023*	+695	-1000	+303	+189	-297	+935	+633	-917	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 004 / Truck				Stress Load = 690 kPa				Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	939	939	922	1273	1274	1250	922	922	905	1312*	1313	1290
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+31	+31	-31	-224	-224	+220	+30	+30	-29	-323*	-323	+323
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-77	-77	+75	-574	-574	+564	-73	-66	+64	-584*	-584	+576
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-147	-147	+145	-497*	-497	+488	-142	-130	+127	-464	-464	+456
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-276	-276	+271	-339*	-339	+333	-254	-251	+246	-308	-299	+293
Vertical Compressive Strain at Top of Subgrade (microstrain)	+344	+222	-337	+798*	+542	-783	+325	+209	-319	+734	+497	-720

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 005 / Truck				Stress Load = 690 kPa				Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	896	896	880	1227	1228	1210	881	881	865	1268*	1268	1240
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+31	+31	-31	-223	-223	+219	+30	+30	-30	-322*	-322	+322
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-67	-67	+66	-568	-568	+558	-65	-57	+56	-579*	-579	+571
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-129	-129	+127	-491*	-491	+482	-127	-113	+111	-458	-457	+450
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-250	-250	+245	-283*	-283	+278	-232	-230	+225	-259	-253	+248
Vertical Compressive Strain at Top of Subgrade (microstrain)	+349	+229	-342	+640*	+434	-628	+332	+217	-325	+595	+403	-583

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 006 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm			
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Kenlayer	Everstress	Radius =	Kenlayer	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	1018	1018	999	1365	1365	1340	997	997	979	1399*	1399	1370
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+29	+29	-29	-222	-222	+218	+28	+28	-27	-322*	-322	+321
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-101	-101	+100	-577	-577	+567	-93	-88	+86	-589*	-589	+580
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-299	-299	+293	-551*	-551	+541	-268	-266	+260	-511	-509	+500
Vertical Compressive Strain at Top of Subgrade (microstrain)	+276	+276	-271	+1292*	+1292	-1270	+257	+257	-252	+1196	+1196	-1170

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 007 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	973	973	956	1292	1292	1270	955	955	938	1331*	1332	1300
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+33	+33	-32	-219	-219	+215	+31	+31	-31	-319*	-319	+319
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-79	-79	+78	-555	-555	+545	-76	-69	+67	-568*	-568	+560
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-230	-230	+226	-386*	-386	+379	-211	-206	+203	-360	-358	+351
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-293	-293	+287	-403*	-403	+395	-268	-264	+259	-379	-373	+366
Vertical Compressive Strain at Top of Subgrade (microstrain)	+318	+200	-312	+1005*	+683	-986	+299	+187	-294	+918	+623	-900

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 008 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	928	928	911	1236	1236	1220	912	912	895	1278*	1278	1250
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+34	+34	-33	-218	-218	+214	+33	+33	-32	-318*	-318	+318
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-65	-65	+64	-545	-545	+536	-65	-56	+55	-558*	-558	+550
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-186	-186	+182	-347*	-347	+340	-174	-167	+164	-321	-320	+314
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-271	-271	+266	-334*	-334	+328	-250	-247	+242	-303	-295	+289
Vertical Compressive Strain at Top of Subgrade (microstrain)	+340	+219	-333	+784*	+533	-769	+322	+207	-316	+721	+489	-707

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 009 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	886	886	870	1191	1191	1170	871	871	856	1235*	1235	1210
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+34	+34	-34	-218	-218	+214	+33	+33	-32	-318*	-318	+318
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-56	-56	+55	-540	-540	+531	-58	-48	+47	-554*	-554	+546
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-159	-159	+156	-335*	-334	+328	-152	-142	+140	-309	-308	+302
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-246	-246	+241	-279*	-279	+273	-228	-226	+222	-255	-249	+245
Vertical Compressive Strain at Top of Subgrade (microstrain)	+344	+226	-338	+628*	+427	-616	+328	+214	-322	+584	+396	-573

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 010 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	848	848	833	1154	1154	1140	835	835	820	1199*	1200	1180	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+34	+34	-33	-218	-218	+214	+32	+32	-32	-318*	-318	+318	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-51	-51	+50	-537	-537	+528	-55	-42	+42	-551*	-551	+543	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-144	-144	+141	-330*	-330	+323	-138	-127	+125	-304	-303	+297	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-221	-221	+217	-235*	-235	+231	-207	-205	+201	-218	-214	+210	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+339	+224	-332	+516*	+350	-506	+324	+214	-318	+485	+328	-475	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 011 / Truck		Stress Load = 690 kPa							Contact Radius = 11 cm			
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	956	956	938	1261	1262	1240	938	938	921	1303*	1303	1280
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+35	+35	-34	-217	-217	+214	+33	+33	-33	-317*	-317	+317
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-69	-69	+68	-544	-544	+535	-68	-60	+59	-558*	-558	+550
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-277	-277	+271	-381*	-381	+374	-251	-250	+245	-359	-353	+347
Vertical Compressive Strain at Top of Subgrade (microstrain)	+309	+309	-303	+967*	+967	-949	+292	+292	-286	+883	+883	-867

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 012 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	913	913	897	1208	1208	1190	897	898	881	1253*	1253	1230	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+36	+36	-35	-217	-217	+213	+34	+34	-34	-317*	-316	+316	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-57	-57	+56	-536	-536	+527	-60	-48	+47	-550*	-550	+542	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-218	-218	+214	-287*	-287	+282	-201	-198	+194	-270	257	+253	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-264	-264	+259	-329*	-329	+323	-244	-241	+236	-299	-290	+284	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+330	+212	-323	+773*	+526	-759	+313	+201	-307	+710	+482	-697	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 013 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	872	872	857	1165	1165	1150	858	858	843	1211*	1211	1190	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+36	+36	-35	-217	-217	+213	+34	+34	-34	-317*	-316	+316	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-48	-48	+48	-531	-531	+522	-55	-41	+40	-545*	-545	+538	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-180	-180	+177	-248*	-247	+242	-169	+164	+161	-236	-230	+225	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-242	-242	+237	-276*	-276	+270	-225	-222	+218	-252	-246	+242	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+337	+221	-331	+621*	+422	-609	+321	+210	-315	+577	+391	-565	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 014 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	835	836	821	1129	1129	1110	823	823	808	1176*	1176	1150	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+35	+35	-34	-217	-217	+213	+34	+34	+33	-317*	-317	+317	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-43	-43	+43	-529	-529	+520	-52	-36	+35	-543*	-543	+535	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-158	-158	+155	-238*	-236	+232	-150	-143	+140	-221	-219	+215	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-218	-218	+214	-233*	-233	+228	-204	-202	+198	-216	-211	+207	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+333	+220	-326	+510*	+346	-500	+318	+211	-312	+479	+325	-469	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 015 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	803	803	789	1098	1099	1080	791	791	777	1146*	1147	1120	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+34	+34	-33	-217	-217	+213	+33	+33	-32	-317*	-317	+317	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-40	-40	+40	-527	-527	+518	-50	-33	+32	-541*	-541	+534	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-145	-145	+142	-233*	-232	+227	-138	-130	+127	-216	-215	+211	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-196	-196	+192	-199*	-199	+195	-184	-183	+179	-187	-184	+180	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+321	+214	-314	+428*	+290	-419	+308	+205	-302	+405	+275	-397	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 016 / Truck	Stress Load = 690 kPa									Contact Radius = 11 cm		
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	895	895	879	1185	1186	1170	881	881	865	1231*	1231	1210
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+37	+37	-36	-216	-216	+213	+35	+35	-34	-316*	-316	+316
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-51	-51	+50	-532	-532	+532	-56	-43	+42	-546*	-546	+538
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-251	-251	+246	-312*	-312	+306	-230	-228	+224	-282	-275	+270
Vertical Compressive Strain at Top of Subgrade (microstrain)	+319	+319	-313	+746*	+746	-732	+303	+303	-297	+686	+685	-672

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 017 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	857	857	842	1144	1144	1130	844	844	829	1191*	1192	1170	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+36	+36	-36	-216	-216	+213	+35	+35	+34	-316*	-316	+316	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-43	-43	+42	-528	-528	+519	-53	-36	+35	-542*	-542	+534	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-201	-201	+197	-241*	-241	+237	-187	-184	+180	-224	-214	+210	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-236	-236	+232	-271*	-271	+266	-220	-217	+213	-248	-242	+238	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+328	+215	-322	+612*	+417	-601	+313	+204	-306	+569	+386	-558	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 018 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	821	821	807	1109	1109	1090	809	809	795	1157*	1158	1130	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+36	+36	-35	-217	-217	+213	+34	+34	-34	-316*	-316	+316	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-39	-39	+38	-525	-525	+516	-51	-32	+31	-539*	-539	+532	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-170	-170	+166	-209*	-209	+205	-160	-155	+152	-196	-185	+181	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-215	-215	+211	-230*	-230	+226	-201	-199	+195	-213	-209	+205	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+326	+216	-320	+504*	+343	-494	+312	+206	-306	+473	+321	-464	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 019 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	790	790	776	1080	1080	1060	778	778	764	1128*	1129	1111	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+35	+35	-34	-217	-217	+213	+33	+33	-33	-317*	-316	+316	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-39	-36	+35	-524	-524	+515	-50	-29	+28	-538*	-538	+530	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-151	-151	+148	-192*	-192	+188	-143	-137	+135	-180	-169	+166	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-193	-193	+189	-197*	-197	+193	-182	-181	+177	-185	-182	+178	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+315	+211	-309	+423*	+287	-415	+303	+202	-297	+401	+272	-393	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 020 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	761	761	748	1054	1054	1040	751	751	737	1103*	1104	1080		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+33	+34	-33	-217	-217	+213	+32	+32	-32	-317*	-317	+317		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-40	-34	+33	-523	-523	+525	-49	-27	+27	-537*	-537	+529		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-139	-139	+136	-182*	-182	+179	-133	-126	+124	-171	-160	+157		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-173*	-173	+170	-171	-171	+167	-164	-163	+160	-162	-159	+156		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+300	+201	-294	+362*	+245	-354	+289	+194	-284	+345	+234	-339		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 021 / Truck		Stress Load = 690 kPa							Contact Radius = 11 cm			
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	840	841	826	1126	1127	1110	828	828	813	1174*	1175	1150
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+37	+36	-36	-216	-216	+213	+35	+35	-34	-316*	-316	+316
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-40	-40	+39	-526	-526	+517	-52	-33	+32	-540*	-540	+532
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-225	-225	+220	-258*	-258	+253	-208	-207	+203	-234	-230	+226
Vertical Compressive Strain at Top of Subgrade (microstrain)	+318	+318	-312	+592*	+592	-581	+303	+303	-297	+550	+550	-539

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 022 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	807	807	793	1093	1093	1080	795	795	781	1142*	1143	1120
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+36	+36	-35	-217	-217	+213	+34	+34	-34	-316*	-316	+316
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-39	-35	+35	-524	-524	+515	-51	-29	+28	-538*	-538	+530
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-183	-183	+179	-204*	-204	+200	-171	-169	+166	-190	-183	+180
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-210	-210	+206	-227*	-227	+222	-197	-195	+191	-210	-206	+202
Vertical Compressive Strain at Top of Subgrade (microstrain)	+319	+211	-312	+497*	+338	-488	+305	+201	-299	+467	+317	-458

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 023 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	776	776	763	1064	1065	1050	762	765	752	1114*	1114	1090
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+35	+35	-34	-217	-217	+213	+33	+33	-33	-317*	-316	+316
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-41	-33	+32	-522	-522	+513	-50	-26	+26	-536*	-536	+529
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-157	-157	+154	-177*	-177	+174	-148	-145	+142	-167	-159	+156
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-191	-191	+187	-195*	-195	+191	-180	-178	+175	-183	-180	+176
Vertical Compressive Strain at Top of Subgrade (microstrain)	+310	+207	-304	+419*	+285	-410	+298	+199	-292	+397	+269	-389

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 024 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	749	749	736	1039	1040	1020	738	738	725	1089*	1090	1070
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+34	+34	-33	-217	-217	+213	+32	+32	-32	-317*	-317	+317
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-42	-31	+31	-521	-521	+512	-50	-25	+24	-535*	-535	+528
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-140	-140	+138	-163*	-163	+160	-134	-129	+127	-153	-146	+143
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-171*	-171	+168	-169	-169	+166	-163	-161	+158	-160	-158	+155
Vertical Compressive Strain at Top of Subgrade (microstrain)	+296	+198	-290	+358*	+243	-351	+285	+191	-280	+342	+232	-335

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 025 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	725	725	712	1017	1018	1000	715	715	702	1068*	1068	1050		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+33	+33	-32	-218	-218	+214	+31	+31	-31	-317*	-317	+317		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-43	-30	+30	-521	-521	+512	-49	-24	+23	-535*	+535	+527		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-130	-130	+128	-154*	-154	+151	-125	-120	+117	-145	-137	+135		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-154*	-154	+151	-148	-148	+145	-147	-146	+143	-141	-140	+137		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+278	+187	-273	+311*	+211	-305	+269	+181	-264	+299	-203	-293		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 026 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	1045	1045	1030	1370	1370	1350	1023	1023	1000	1403*	1403	1380	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+32	+32	-31	-196	-196	+193	+30	+30	-29	-297*	-297	+243	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-178	-178	+174	-548*	-548	+538	-158	-156	+153	-528	-528	+519	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-294	-294	+288	-643*	-643	+631	-262	-259	+254	-597	-596	+585	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+258	+258	-253	+1422*	+1422	-1400	+239	+239	-234	+1356	+1357	-1330	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 027 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	1002	1002	984	1290	1290	1270	983	983	965	1329*	1329	1300		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+36	+36	-35	-192	-192	+188	+34	+34	-33	-293*	-293	+238		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-141	-141	+139	-495*	-495	+486	-127	-125	+122	-479	-479	+471		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-229	-229	+224	-450*	-450	+442	-209	-204	+200	-419	-418	+411		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-299	-299	+293	-454*	-454	+445	-272	-268	+263	-424	-421	+413		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+317	+195	-310	+1098*	-747	-1080	+297	+182	-291	+1010	+686	-991		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 028 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	956	956	939	1228	1228	1210	939	939	922	1271*	1271	1250	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+38	+38	-37	-191	-191	+188	+36	+36	-35	-292*	-292	+237	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-117	-117	+115	-476*	-476	+468	-106	-103	+101	-461	-461	+453	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-184	-184	+181	-407*	-407	+399	-172	-165	+161	-378	-377	+370	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-280	-280	+275	-355*	-355	+348	-258	-254	+249	-324	-313	+307	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+344	+220	-337	+849*	+577	-833	+326	+208	-319	+780	+529	-765	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 029 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	912	912	895	1180	1180	1160	896	896	880	1225*	1225	1200	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+38	+38	-37	-191	-191	+188	+36	+36	-35	-292*	-292	+237	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-102	-102	+100	-468*	-468	+460	-93	-88	+87	-453	-452	+445	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-157	-157	+154	-394*	-394	+386	-150	-140	+137	-365	-364	+358	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-255	-255	+250	-295*	-295	+290	-237	-234	+230	-270	-263	+258	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+351	+229	-344	+675*	+458	-662	+334	+217	-328	+626	+424	-613	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 030 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	872	872	856	1140	1140	1120	858	858	842	1187*	1187	1160	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+37	+37	-37	-191	-191	+188	+36	+35	-35	-293*	-292	+293	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-92	-92	+90	-464*	-463	+455	-84	-79	+78	-448	-299	+441	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-141	-141	+138	-389*	-388	+381	-136	+124	+122	-359	-358	+352	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-230	-230	+226	-249*	-249	+244	-215	-213	+209	-230	-225	+221	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+347	+229	-340	+551*	+374	-540	+332	+219	-325	+516	+349	-506	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 031 / Truck	Stress Load = 690 kPa									Contact Radius = 11 cm		
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	985	985	967	1256	1256	1240	967	967	949	1298*	1298	1270
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+39	+39	-38	-190	-190	+186	+36	+36	-36	-291*	-291	+236
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-125	-125	+123	-471*	-471	+462	-114	-110	+108	-456	-456	449
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-284	-284	+278	-432*	-431	+423	-257	-255	+250	-403	-400	+392
Vertical Compressive Strain at Top of Subgrade (microstrain)	+311	+311	-305	+1058*	+1058	-1040	+293	+293	-287	+973	+973	-955

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 032 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	941	941	924	1197	1198	1180	925	925	908	1243*	1243	1220	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-189	-189	+186	+38	+38	-37	-291*	-291	+291	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-103	-103	+101	-454*	-454	+446	-95	-91	+89	-440	-440	+433	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-223	-223	+218	-311*	-311	+305	-205	-201	+198	-295	-289	+284	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-273	-273	+268	-350*	-350	+343	-252	-248	+244	-320	-308	+302	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+336	+215	-329	+838*	+570	-822	+318	+203	-312	+769	+522	-754	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 033 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	898	898	882	1150	1151	1130	884	884	868	1198*	1198	1170	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-189	-189	+186	+38	+38	-37.0	-291*	-291	+291	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-89	-89	+87	-447*	-447	+439	-83	-78	+76.0	-433	-433	+426	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-184	-184	+180	-281*	-280	+275	-172	-166	+163	-262	-259	+255	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-251	-251	+246	-292*	-292	+287	-233	-230	+226	-267	-260	+255	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+345	+225	-338	+666*	+453	-654	+328	+214	-322	+617	-419	-605	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 034 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	859	860	844	1112	1112	1100	846	846	831	1160*	1161	1140		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+39	+39	-38	-189	-189	+186	+37	+37	-37	-291*	-291	+291		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-80	-80	+78	-443*	-443	+435	-75	-69	+68	-429	-429	+422		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-160	-160	+157	-270*	-269	+264	-152	-144	+141	-250	-249	+244		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-227	-227	+222	-246*	-246	+241	-212	-210	+206	-227	-223	+218		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+341	+225	-334	+543*	+369	-533	+326	+215	-320	+509	+345	-499		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 035 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	825	825	810	1079	1080	1060	812	812	798	1129*	1129	1110		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+38	+38	-37	-190	-190	+186	+36	+36	-36	-291*	-291	+291		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-74	-74	+73	-440*	-440	+432	-70	-64	+62	-426	-426	+419		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-146	-146	+143	-266*	-264	+260	-139	-131	+128	-245	-244	+240		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-204	-204	+200	-210*	-210	+206	-192	-190	+186	-196	-193	+189		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+330	+220	-323	+453*	+308	-444	+317	+211	-311	+429	+290	-420		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 036 / Truck		Stress Load = 690 kPa							Contact Radius = 11 cm			
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	923	923	907	1173	1173	1150	908	908	891	1220*	1220	1190
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-40	-189	-189	+185	+39	+39	-38	-290*	-290	+290
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-93	-93	+91	-446*	-446	+439	-87	-82	+80	-433	-433	+426
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-259	-259	+254	-332*	-332	+326	-237	-236	+231	-302	-293	+287
Vertical Compressive Strain at Top of Subgrade (microstrain)	+324	+324	-318	+809*	+809	-794	+308	+308	-302	+743	+743	-729

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 037 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	883	883	867	1128	1128	1110	869	869	853	1177*	1177	1150
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-40	-189	-189	+185	+39	+39	-38	-290*	-290	+234
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-80	-80	+78	-440*	-440	+432	-76	-70	+68	-426	-426	+419
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-207	-207	+203	-256*	-256	+251	-192	-189	+186	-238	-227	+223
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-245	-245	+241	-288*	-288	+283	-227	-225	+221	-263	-256	+252
Vertical Compressive Strain at Top of Subgrade (microstrain)	+335	+218	-328	+659*	+448	-646	+319	+207	-312	+610	+414	-598

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 038 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	845	845	830	1090	1091	1070	832	832	817	1140*	1141	1120
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-189	-189	+186	+38	+38	-37	-291*	-290	+291
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-72	-72	+70	-436*	-436	+428	-69	-62	+61	-422	-422	+416
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-174	-174	+171	-221*	-221	+217	-164	-159	+156	-209	-196	+192
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-223	-223	+219	-244*	-244	+239	-209	-207	+203	-225	-220	+216
Vertical Compressive Strain at Top of Subgrade (microstrain)	+334	+221	-327	+538*	+366	-528	+319	+211	-313	+503	+341	-494

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 039 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	811	811	797	1059	1059	1040	799	799	785	1109*	1110	1090
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+39	+39	-38	-189	-189	+186	+37	+37	-36	-291*	-291	+291
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-66	-66	+65	-434*	-433	+426	-64	-57	+55	-420	-420	+413
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-154	-154	+151	-203*	-203	+200	-146	-140	+137	-192	-182	+178
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-201	-201	+197	-208*	-208	+204	-189	-188	+184	-194	-191	+187
Vertical Compressive Strain at Top of Subgrade (microstrain)	+324	+216	-318	+449*	+305	-440	+311	+207	-305	+424	+288	-416

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 040 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	782	782	768	1031	1032	1020	770	770	757	1082*	1083	1060		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+38	+38	-37	-190	-190	+186	+36	+36	-35	-291*	-291	+237		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-63	-63	+61	-432*	-432	+424	-61	-53	+52	-418	-418	+412		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-142	-142	+139	-193*	-193	+190	-135	-128	+126	-182	-177	+174		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-180*	-180	+177	-179	-179	+176	-171	-169	+166	-169	-167	+164		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+309	+207	-303	+381*	+259	-374	+298	+199	-292	+363	+246	-356		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 041 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	866	865	850	1109	1109	1090	852	852	837	1158*	1159	1130	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-40	-189	-189	+185	+39	+39	-38	-290*	-290	+234	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-74	-74	+72	-436*	-436	+429	-71	-64	+63	-423	-423	+416	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-233	-233	+229	-274*	-274	+269	-215	-214	+210	-249	-244	+239	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+324	+324	-317	+637*	+637	-625	+308	+309	-302	+590	+590	-578	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 042 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm			
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	830	830	815	1073	1073	1060	818	818	803	1124*	1124	1100
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-189	-189	+186	+38	+38	-37	-291*	-290	+291
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-66	-66	+65	-433*	-433	+425	-65	-57	+56	-419	-419	+413
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-189	-189	+185	-215*	-215	+211	-177	-174	+171	-200	-193	+190
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-219	-219	+214	-240*	-240	+235	-204	-202	+198	-221	-217	+213
Vertical Compressive Strain at Top of Subgrade (microstrain)	+325	+215	-319	+531*	+361	-521	+311	+205	-305	+497	+337	-487

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 043 / Truck				Stress Load = 690 kPa				Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	797	798	783	1042	1042	1030	786	786	772	1093*	1094	1070
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+39	+39	-38	-189	-189	+186	+37	+37	-36	-291*	-291	+291
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-61	-61	+60	-431*	-431	+423	-61	-52	+51	-417	-417	+411
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-161	-161	+158	-187*	-187	+184	-153	-149	+146	-176	-168	+164
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-199	-199	+195	-206*	-206	+202	-187	-185	+182	-192	-189	+185
Vertical Compressive Strain at Top of Subgrade (microstrain)	+318	+212	-312	+444*	+302	-436	+305	+203	-299	+420	+285	-412

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 044 / Truck				Stress Load = 690 kPa				Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	768	768	755	1015	1016	1000	758	758	744	1067*	1068	1050
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+38	+38	-37	-190	-190	+187	+36	+36	-35	-291*	-291	+237
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-58	-58	+57	-429*	-429	+422	-58	-49	+48	-416	-416	+409
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-144	-144	+142	-172*	-172	+169	-137	-133	+130	-162	-153	+150
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-178*	-178	+175	-178	-178	+174	-169	-168	+164	-168	-165	+162
Vertical Compressive Strain at Top of Subgrade (microstrain)	+304	+204	-298	+378*	+257	-370	+293	+196	-287	+360	+244	-353

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 045 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	743	743	730	992	993	977	732	732	719	1045*	1045	1020		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+36	+36	-36	-190	-190	+187	+35	+35	-34.3	-292*	-292	+292		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-56	-56	+55	-428*	-428	+421	-56	-47	+45.7	-415	-414	+408		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-134	-134	+131	-163*	-163	+160	-128	-122	+120	-153	-144	+142		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-160*	-160	+157	-155	-155	+152	-152	-151	+148	-148	-146	+143		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+287	+193	-281	+327*	+222	-320	+278	+187	-272	+313	+213	-307		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 046 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	815	815	800	1057	1058	1040	803	803	789	1108*	1109	1090
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-189	-189	+186	+38	+38	-37	-291*	-291	+291
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-62	-62	+61	-431*	-431	+424	-62	-53	+52	-418	-418	+411
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-209	-209	+204	-229*	-229	+224	-194	-193	+189	-210	-207	+203
Vertical Compressive Strain at Top of Subgrade (microstrain)	+316	+316	-309	+514*	+514	-505	+302	+302	-296	+482	+481	-472

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 047 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	784	784	770	1028	1028	1010	773	773	759	1080*	1081	1060
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+39	+39	-38	-190	-190	+186	+37	+37	-36	-291*	-291	+291
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-58	-58	+57	-429*	-429	+422	-59	-49	+48	-416	-416	+409
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-171	-171	+168	-183*	-183	+180	-161	-159	+156	-172	-167	+164
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-195	-195	+191	-203*	-203	+199	-183	-181	+178	-189	-186	+182
Vertical Compressive Strain at Top of Subgrade (microstrain)	+311	+207	-305	+439*	+298	-430	+299	+198	-293	+414	+281	-406

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 048 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	756	756	742	1002	1002	987	745	745	732	1054*	1055	1030
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+37	+37	-37	-190	-190	+187	+36	+36	-35	-291*	-291	+237
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-55	-55	+54	-428*	-428	+420	-56	-46	+45	-414	-414	+408
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-148	-148	+145	-160*	-160	+157	-140	-137	+135	-151	-145	+143
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-176*	-176	+173	-176	-176	+173	-167	-166	+162	-166	-164	+160
Vertical Compressive Strain at Top of Subgrade (microstrain)	+299	+201	-293	+374*	+254	-367	+289	+193	-283	+356	+242	-349

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 049 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	731	731	718	979	980	964	721	721	708	1032*	1033	1010	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+36	+36	-35	-190	-190	+187	+35	+35	-34	-292*	-292	+292	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-53	-53	+52	-427*	-427	+419	-54	-44	+43	-413	-413	+407	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-133	-133	+131	-147*	-147	+144	-127	-123	+121	-139	-133	+130	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-159*	-159	+156	-154	-154	+151	-151	-150	+147	-147	-145	+142	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+283	+190	-278	+324*	+220	-317	+274	+184	-269	+310	+211	-304	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 050 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	708	708	696	959	960	945	699	699	686	1012*	1013	991	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+35	+35	-34	-191	-191	+187	+34	+34	-33	-292*	-292	+292	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-51	-51	+50	-426*	-426	+419	-53	-43	+42	-412	-412	+406	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-124	-124	+122	-139*	-139	+136	-119	-115	+112	-131	-125	+123	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-143*	-143	+140	-136	-136	+133	-136	-136	+133	-130	-129	+126	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+265	+179	-260	+284*	+193	-278	+257	+174	-252	+273	+186	-268	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 051 / Truck	Stress Load = 690 kPa									Contact Radius = 11 cm		
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	1008	1008	990	1260	1260	1240	989	989	971	1303*	1303	1280
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-178	-178	+175	+39	+39	-38	-281*	-281	+281
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-185	-185	+182	-438*	-438	+430	-166	-165	+162	-412	-412	+405
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-280	-279	+274	-501*	-501	+492	-252	-250	+245	-465	-463	+455
Vertical Compressive Strain at Top of Subgrade (microstrain)	+296	+296	-290	+1166*	+1166	-1140	+278	+278	-272	+1088	+1089	-1070

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 052 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	965	965	948	1197	1197	1180	948	948	931	1244*	1244	1220	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-43	-177	-177	+174	+41	+41	-40	-280*	-280	+280	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-152	-152	+149	-399*	-399	+392	-138	-135	+133	-376	-375	+369	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-222	-222	+218	-362*	-361	+355	-204	-200	+196	-337	-335	+329	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-278	-278	+273	-371*	-371	+363	-255	-252	+247	-347	-338	+332	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+333	+210	-326	+915*	+622	-897	+315	+198	-309	+841	+571	-825	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 053 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	921	921	905	1146	1146	1130	906	906	890	1195*	1195	1170	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-43	-177	-177	+174	+41	+41	-40	-280*	-280	+280	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-129	-129	+127	-385*	-385	+378	-118	-115	+113	-362	-362	+355	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-183	-183	+179	-328*	-328	+322	-171	-165	+162	-304	-303	+298	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-259	-259	+254	-310*	-310	+304	-239	-237	+232	-283	-275	+270	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+347	+225	-341	+720*	+490	-706	+331	+214	-324	+665	+451	-652	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 054 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	881	881	865	1105	1105	1090	867	867	851	1156*	1156	1130	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-42	-178	-178	+174	+41	+41	-40	-280*	-280	+228	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-115	-115	+113	-378*	-378	+371	-105	-102	+100	-355	-355	+349	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-159	-159	+156	-317*	-317	+311	-151	-143	+140	-293	-236	+287	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-235	-235	+230	-260*	-260	+255	-219	-217	+213	-240	234	+230	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+347	+228	-340	+582*	+395	-571	+331	+217	-325	+543	+368	-533	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 055 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	844	845	+830	1070	1071	1050	831	831	817	1122*	1122	1100
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41.0	-178	-178	+175	+40	+40	-39	-280*	-280	+229
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-106	-106	+104	-374*	-374	+368	-96	-93	+91	-351	-351	+345
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-144	-144	+142	-312*	-312	+306	-138	-129	+126	-288	-287	+282
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-211	-211	+207	-221*	-221	+217	-199	-197	+193	-206	-202	+198
Vertical Compressive Strain at Top of Subgrade (microstrain)	+337	+224	-331	+482*	+327	-473	+324	+214	-317	+455	+308	-446

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 056 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	947	948	931	1170	1170	1150	931	931	915	1218*	1218	1190
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-176	-176	+173	+42	+42	-41.3	-279*	-279	+227
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-136	-136	+134	-381*	-381	+374	-125	-122	+119	-359	-358	+352
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-265	-265	+260	-353*	-353	+346	-242	-240	+235	-331	-323	+317
Vertical Compressive Strain at Top of Subgrade (microstrain)	+324	+324	-318	+885*	+885	-868	+307	+307	-301	+813	+813	-798

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 057 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	906	906	890	1121	1122	1100	891	891	876	1172*	1173	1150
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-177	-177	+173	+42	+42	-41	-279*	-279	+227
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-116	-116	+114	-368*	-368	+361	-107	-103	+101	-346	-346	+340
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-212	-211	+207	-271*	-271	+266	-196	-193	+189	-255	-242	+237
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-253	-253	+248	-307*	-307	+301	-234	-231	+227	-280	-272	+267
Vertical Compressive Strain at Top of Subgrade (microstrain)	+338	+219	-331	+713*	+485	-699	+322	+208	-316	+658	+446	-645

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 058 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	867	867	851	1081	1081	1060	853	853	838	1134*	1134	1110
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-43	-177	-177	+174	+42	+42	-41	-280*	-280	+227
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-102	-102	+100	-362*	-362	+355	-95	-91	+89	-340	-340	+334
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-177	-177	+174	-235*	-235	+230	-167	-161	+158	-225	-215	+211
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-231	-231	+227	-258*	-258	+253	-216	-214	+210	-237	-232	+228
Vertical Compressive Strain at Top of Subgrade (microstrain)	+340	+223	-333	+577*	+392	-566	+325	+213	-318	+538	+365	-527

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 059 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	831	831	816	1047	1048	1030	819	819	804	1101*	1101	1080
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-42	-178	-178	+174	+41	+40	-40	-280*	-280	+228
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-94	-94	+92	-358*	-358	+352	-87	-82	+81	-336	-336	+330
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-156	-156	+153	-223*	-222	+217	-148	-142	+139	-209	-206	+202
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-209	-209	+205	-219*	-219	+215	-196	-194	+190	-204	-200	+196
Vertical Compressive Strain at Top of Subgrade (microstrain)	+331	+220	-325	+477*	+324	-468	+318	+211	-312	+450	+305	-441

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 060 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	800	800	+786	1018	1019	1000	788	788	774	1072*	1073	1050
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-41	-178	-178	+175	+39	+39	-39	-280*	-280	+229
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-88	-88	+86	-356*	-356	+349	-81	-77	+75	-334	-333	+328
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-144	-144	+141	-218*	-217	+213	-137	-130	+127	-203	-201	+197
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-187	-187	+184	-189*	-189	+185	-177	-176	+172	-177	-175	+171
Vertical Compressive Strain at Top of Subgrade (microstrain)	+317	+212	-311	+403*	+274	-395	+305	+204	-299	+383	+260	-376

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 061 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	888	888	873	1101	1101	1080	875	875	859	1153*	1153	1130
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-177	-177	+173	+43	+42	-42	-279*	-279	+227
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-106	-106	+104	-362*	-362	355	-98	-94	+92	-340	-340	+334
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-241	-241	+236	-292*	-292	+286	-221	-220	+216	-265	-259	+254
Vertical Compressive Strain at Top of Subgrade (microstrain)	+327	+327	-320	+690*	+690	-677	+311	+311	-305	+637	+637	-625

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 062 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	851	851	836	1062	1062	1050	838	839	824	1116*	1116	1090
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-43.2	-177	-177	+174	+42	+42	-41.0	-280*	-280	+280
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-94	-94	+92.0	-356*	-356	+350	-88	-83	+81.2	-334	-334	+329
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-195	-195	+191	-229*	-229	+224	-182	-179	+176	-213	-204	+200
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-226	-226	+222	-255*	-255	+250	-211	-209	+205	-234	-229	+225
Vertical Compressive Strain at Top of Subgrade (microstrain)	+330	+217	-324	+570*	+388	-560	+316	+207	-310	+532	+361	-521

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 063 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	817	817	803	1029	1030	1010	805	805	791	1083*	1084	1060
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-42	-178	-178	+174	+41	+41	-40	-280*	-280	+228
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-86	-86	+84	-353*	-353	+347	-80	-75	+74	-331	-331	+325
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-166	-165	+162	-199*	-199	+195	-156	-152	+149	-187	-177	+174
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-206	-206	+202	-217*	-217	+213	-193	-192	+188	-202	-199	+195
Vertical Compressive Strain at Top of Subgrade (microstrain)	+324	+215	-318	+473*	+322	-464	+311	+207	-305	+446	+302	-437

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 064 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	786	786	772	1001		986	775	775	761	1056*	1056	1030	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-178	-178	+175	+40	+39	-39	-280*	-280	+229	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-80	-80	+79	-351*	-350	+344	-75	-70	+69	-329	-329	+323	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-148	-148	+145	-183*		+180	-141	-135	+133	-173	-162	+159	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-185	-185	+182	-187*	-187	+183	-175	-174	+170	-176	-173	+170	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+311	+208	-305	+400*	+271	-392	+300	+200	-294	+380	+258	-372	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 065 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	759	759	746	976	976	961	748	748	735	1031*	1032	1010	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-178	-178	+175	+38	+38	-38	-281*	-281	+281	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-77	-77	+75.4	-349*	-349	+343	-72	-67	+65	-327	-327	+321	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-137	-137	+134	-174*	-174	+170	-130	-125	+122	-163	-153	+150	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-166*	-166	+163	-163	-163	+160	-158	-157	+154	-154	-152	+149	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+295	198	-289	+344*	+977	-337	+285	+191	-279	+329	+223	-323	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 066 / Truck		Stress Load = 690 kPa							Contact Radius = 11 cm			
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	835	835	821	1046	1046	1030	823	823	809	1099*	1100	1080
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-43	-177	-177	+174	+42	+42	-41	-280*	-280	+280
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-88	-88	+86	-354*	-353	+347	-83	-77	+76	-332	-331	+326
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-216	-216	+212	-243*	-243	+238	-200	-199	+195	-222	-218	+214
Vertical Compressive Strain at Top of Subgrade (microstrain)	+320	+320	-314	+553*	+553	-542	+306	+306	-300	+515	+515	-505

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 067 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	803	803	789	1014	1014	999	791	791	777	1069*	1069	1050
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-42	-178	-178	+175	+41	+41	-40	-280*	-280	+228
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-81	-81	+79	-351*	-350	+344	-76	-70	+69	-329	-328	+323
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-177	-177	+173	-194*	-194	+190	-166	-164	+161	-181	-175	+172
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-202	-202	-198	-214*	-214	+210	-189	-188	+184	-199	-195	+192
Vertical Compressive Strain at Top of Subgrade (microstrain)	+317	+210	-310	+467*	+318	-459	+304	+201	-298	+440	+299	-432

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 068 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	773	773	759	987	987	971	762	762	749	1042*	1043	1020
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-41	-178	-178	+175	+39	+39	-39	-281*	-281	+281
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-76	-76	+74	-348*	-348	+342	-71	-65	+64	-326	-326	+321
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-152	-152	+149	-169*	-169	+166	-144	-141	+138	-160	-153	+150
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-183	-183	+180	-185*	-185	+182	-173	-172	+168	-174	-172	+168
Vertical Compressive Strain at Top of Subgrade (microstrain)	+306	+205	-300	+396*	+269	-388	+295	+197	-289	+376	+255	-369

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 069 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	746	746	733	963	963	948	736	736	723	1018*	1019	997
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-179	-179	+175	+38	+38	-38	-281*	-281	+230
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-72	-72	+71	-347*	-347	+341	-68	-62	+61	-325	-325	+319
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-137	-137	+134	-156*	-156	+153	-131	-127	+124	-147	-140	+137
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-165*	-165	+162	-162	-162	+158	-157	-155	+152	-153	-151	+148
Vertical Compressive Strain at Top of Subgrade (microstrain)	+290	+195	-285	+341*	+231	-334	+281	+189	-275	+326	+221	-320

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 070 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	723	723	710	941	941	927	713	713	701	997*	998	976	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+39	+39	-38	-179	-179	+176	+37	+37	-36	-282*	-281	+282	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-70	-70	+69	-346*	-345	+339	-66	-60	+59	-324	-323	+318	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-127	-127	+125	-147*	-147	+145	-122	-117	+115	-139	-132	+129	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-148*	-148	+145	-142	-141	+139	-141	-141	+138	-136	-134	+131	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+273	+184	-267	+297*	+202	-291	+265	+178	-259	+286	+194	-281	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 071 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	788	788	775	1001	1001	985	777	777	764	1055*	1056	1030
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-178	-178	+175	+40	+40	-40	-280*	-280	+229
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-77	-77	+75	-349*	-349	+343	-73	-67	+66	-327	-327	+321
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-193	-193	+189	-205*	-205	+201	-180	-179	+176	-189	-187	+183
Vertical Compressive Strain at Top of Subgrade (microstrain)	+308	+308	-302	+453*	+453	-445	+295	+295	-290	+427	+427	-419

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 072 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	760	760	747	974	974	959	750	750	737	1030*	1030	1010	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-40	-178	-178	+175	+39	+39	-38	-281*	-281	+281	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-72	-72	+71	-347*	-347	+341	-68	-62	+61	-325	-325	+319	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-160	-160	+157	-166*	-166	+163	-151	-149	+146	-156	-152	+149	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-180	-180	+176	-183*	-183	+179	-170	-168	+165	-171	-169	+165	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+300	+200	-294	+391*	+974	-384	+289	+193	-283	+371	+252	-364	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 073 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	734	734	722	951	951	936	725	725	712	1007*	1008	985
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-179	-179	+176	+38	+38	-37	-281*	-281	+231
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-69	-69	+68	-346*	-345	+339	-65	-59	+58	-324	-323	+318
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-139	-139	+136	-146*	-146	+143	-132	-130	+127	-138	-133	+131
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-163*	-163	+160	-160	-160	+157	-155	-154	+151	-152	-150	+147
Vertical Compressive Strain at Top of Subgrade (microstrain)	+286	+192	-281	+338*	+229	-331	+277	+186	-271	+323	+219	-317

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 074 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	711	711	699	930	930	916	702	702	690	986*	987	965
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+38	+38	-38	-179	-179	+176	+37	+37	-36	-282*	-282	+282
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-67	-67	+66	-344*	-344	+338	-63	-57	+56	-322	-322	+317
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-126	-126	+123	-134*	-134	+131	-120	-117	+115	-127	-122	+120
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-147*	-147	+144	-141	-141	+138	-140	-139	+137	-135	-133	+131
Vertical Compressive Strain at Top of Subgrade (microstrain)	+269	+182	-264	+295*	+200	-289	+261	+176	-256	+284	+193	-278

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 075 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	691	691	679	911	912	898	682	682	670	968*	969	947
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+37	+37	-37	-180	-180	+176	+36	+36	-35	-282*	-282	+233
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-65	-65	+64	-344*	-343	+337	-62	-56	+55	-322	-321	+316
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-117	-117	+115	-126*	-126	+124	-113	-109	+107	-120	-115	+113
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-132*	-132	+130	-125	-125	+123	-127	-126	+124	-120	-119	+117
Vertical Compressive Strain at Top of Subgrade (microstrain)	+252	+170	-247	+261*	+177	-255	+245	+165	-240	+252	+171	-247

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 076 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	966	966	949	1174	1174	1160	949	949	932	1223*	1224	1200
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+48	-47	-171	-171	+168	+45	+45	-44	-274*	-274	+223
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-184	-184	+181	-354*	-354	+347	-167	-166	+162	-330	-329	+323
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-262	-262	+257	-400*	-400	+393	-238	-236	+231	-374	-371	+364
Vertical Compressive Strain at Top of Subgrade (microstrain)	+310	+310	-303	+973*	+973	-955	+293	+293	-287	+899	+899	-882

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 077 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	925	925	909	1122	1122	1110	910	910	894	1175*	1175	1150
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+48	-47	-171	-171	+168	+45	+45	-44	-274*	-274	+222
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-154	-154	+151	-324*	-324	+318	-141	-139	+136	-302	-301	+296
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-211	-211	+207	-296*	-296	+290	-195	-192	+188	-280	-275	+270
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-257	-257	+252	-325*	-325	+319	-237	-235	+230	-298	-288	+283
Vertical Compressive Strain at Top of Subgrade (microstrain)	+334	+214	-328	+776*	+528	-761	+318	+203	-312	+715	+485	-701

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 078 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	885	885	869	1080	1080	1060	871	871	856	1134*	1134	1110
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+47	+47	-46	-172	-172	+169	+45	+45	-44	-275*	-275	+275
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-134	-134	+131	-313*	-313	+307	-123	-120	+118	-290	-290	+285
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-177	-177	+174	-270*	-269	+264	-166	-161	+158	-251	-249	+245
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-238	-238	+233	-274*	-274	+268	-221	-219	+215	-251	-245	+240
Vertical Compressive Strain at Top of Subgrade (microstrain)	+341	+223	-335	+621*	+422	-609	+326	+213	-320	+577	+391	-566

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 079 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	848	848	833	1044	1044	1030	835	836	821	1099*	1099	1080	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+46	+46	-45	-172	-172	+169	+44	+43	-43	-275*	-275	+224	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-121	-121	+119	-307*	-307	+301	-111	-108	+106	-285	-284	+279	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-156	-156	+153	-260*	-259	+254	-148	-141	+139	-241	-240	+235	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-216	-216	+211	-232*	-232	+227	-202	-200	+196	-215	-210	+206	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+336	+222	-329	+510*	+346	-500	+322	+213	-316	+479	+324	-469	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 080 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	815	815	801	1013	1013	998	803	803	789	1069*	1070	1050	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-173	-173	+170	+42	+42	-42	-276*	-276	+276	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-112	-112	+110	-303*	-303	+298	-103	-100	+98	-28	-281	+276	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-143	-143	+141	-256*	-254	+250	-136	-129	+126	-236	-235	+231	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-194	-194	+190	-198*	-198	+195	-183	-182	+178	-186	-183	+179	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+323	+216	-317	+428*	+290	-420	+311	+207	-305	+406	+275	-398	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 081 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	908	908	892	1100	1100	1080	894	894	878	1154*	1154	1130	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+49	+49	-48	-171	-171	+168	+46	+46	-45	-274*	-274	+222	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-140	-140	+137	-310*	-310	+304	-128	-126	+124	-288	-288	+282	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-246	-246	+241	-311*	-311	+305	-226	-224	+220	-284	-276	+271	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+324	+324	-318	+753*	+753	-739	+309	+309	-303	+694	+694	-680	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 082 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	870	870	855	1059	1059	1040	857	857	842	1114*	1115	1090
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+48	-47	-172	-172	+169	+45	+45	-44.1	-275*	-275	+275
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-122	-122	+119	-299*	-299	+294	-112	-109	+107	-278	-277	+272
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-199	-199	+195	-243*	-243	+238	-185	-183	+179	-227	-217	+213
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-233	-233	+229	-271*	-271	+266	-217	-215	+211	-248	-242	+238
Vertical Compressive Strain at Top of Subgrade (microstrain)	+332	+217	-326	+616*	+419	-604	+317	+207	-311	+572	+388	-561

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 083 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	834	834	819	1024	1024	1010	822	822	808	1080*	1081	1060
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+46	+46	-45	-172	-172	+169	+44	+44	-43	-275*	-275	+224
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-109	-109	+107	-294*	-294	+289	-101	-98	+96	-272	-272	+267
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-169	-169	+166	-212*	-212	+208	-159	-155	+152	-200	-189	+185
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-213	-213	+209	-230*	-230	+226	-200	-198	+194	-213	-209	+205
Vertical Compressive Strain at Top of Subgrade (microstrain)	+329	+218	-322	+506*	+344	-496	+316	+208	-309	+475	+322	-465

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 084 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	802	802	788	994	994	979	790	791	777	1051*	1052	1030
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-173	-173	+170	+43	+43	-42	-276*	-276	+276
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-101	-101	+99	-291*	-291	+285	-93	-90	+88	-269	-269	+264
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-150	-150	+148	-196*	-196	+192	-143	-137	+135	-185	-174	+170
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-192	-192	+188	-197*	-197	+193	-181	-180	+176	-185	-181	+178
Vertical Compressive Strain at Top of Subgrade (microstrain)	+318	+212	-311	+424*	+288	-416	+306	+204	-300	+402	+272	-394

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 085 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	773	773	760	968	968	953	762	763	749	1025*	1026	1000
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-43	-173	-173	+170	+41	+41	-41	-276*	-276	+226
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-96	-96	+94	-288*	-288	+283	-88	-85	+83	-267	-266	+262
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-139	-139	+136	-186*	-186	+183	-132	-126	+124	-176	-169	+166
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-172*	-172	+169	-171	-171	+167	-164	-163	+159	-161	-159	+156
Vertical Compressive Strain at Top of Subgrade (microstrain)	+302	+202	-296	+362*	+246	-355	+292	+195	-286	+346	+235	-340

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 086 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	853	853	838	1041	1041	1030	841	841	826	1097*	1098	1070
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+47	-47	-172	-172	+169	+45	+45	-44	-275*	-275	+275
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-113	-113	+110	-294*	-294	+289	-104	-101	+99	-273	-272	+268
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-223	-223	+218	-259*	-259	+254	-206	-205	+201	-236	-231	+227
Vertical Compressive Strain at Top of Subgrade (microstrain)	+321	+321	-315	+598*	+598	-586	+307	+308	-301	+555	+555	-544

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 087 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	819	819	805	1008	1008	992	808	808	794	1065*	1065	1040
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+46	+46	-45	-172	-172	+169	+44	+44	-43	-275*	-275	+224
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-101	-101	+99	-290*	-290	+284	-94	-90	+89	-268	-268	+263
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-182	-182	+179	-206*	-206	+202	-171	-168	+165	-192	-185	+182
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-209	-209	+205	-227*	-227	+223	-196	-194	+190	-210	-206	+202
Vertical Compressive Strain at Top of Subgrade (microstrain)	+320	+212	-314	+501*	+341	-491	+307	+203	-301	+470	+319	-460

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 088 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	788	788	774	979	979	963	777	777	764	1036*	1037	1010
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-173	-173	+170	+43	+42	-42	-276*	-276	+276
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-94	-94	+92	-287*	-286	+281	-87	-83	+82	-265	-264	+260
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-156	-156	+153	-180*	-180	+176	-148	-145	+142	-169	-161	+158
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-190	-190	+186	-196*	-196	+192	-179	-178	+174	-183	-180	+177
Vertical Compressive Strain at Top of Subgrade (microstrain)	+312	+208	-306	+421*	+286	-413	+300	+200	-294	+399	+270	-391

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 089 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	760	760	747	953	953	938	750	750	737	1011*	1012	989
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-42	-173	-173	+170	+41	+41	-40	-276*	-276	+226
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-89	-89	+87	-284*	-284	+279	-82	-78	+77	-262	-262	+258
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-140	-140	+138	-166*	-166	+162	-134	-130	+127	-156	-148	+145
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-171*	-171	+168	-170	-170	+166	-162	-161	+158	-160	-158	+155
Vertical Compressive Strain at Top of Subgrade (microstrain)	+297	+199	-291	+360*	+244	-353	+287	+192	-281	+343	+233	-337

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 090 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	735	736	723	931	931	917	726	726	713	989*	990	968
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-174	-174	+171	+40	+40	-39	-277*	-277	+277
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-85	-85	+84	-283*	-282	+277	-79	-75	+73	-261	-260	+256
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-131	-131	+128	-157*	-157	+154	-125	-120	+118	-148	-140	+137
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-154*	-154	+151	-149	-148	+146	-147	-146	+143	-142	-140	+137
Vertical Compressive Strain at Top of Subgrade (microstrain)	+280	+188	-274	+312*	+212	-306	+271	+182	-266	+300	+204	-294

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 091 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	804	805	791	993	993	978	793	793	780	1050*	1051	1030
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+46	+46	-45	-173	-173	+170	+44	+43	-43	-276*	-275	+276
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-96	-96	+94	-287*	-287	+282	-89	-85	+84	-265	-265	+260
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-200	-200	+196	-217*	-217	+213	-186	-185	+182	-200	-197	+193
Vertical Compressive Strain at Top of Subgrade (microstrain)	+311	+311	-305	+486*	+486	-477	+298	+298	-293	+456	+456	-447

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 092 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	775	775	761	965	966	950	764	765	751	1023*	1024	1000
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-43	-173	-173	+170	+42	+42	-41	-276*	-276	+226
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-89	-89	+87	-284*	-284	+279	-83	-79	+77	-263	-262	+258
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-165	-165	+162	-175*	-175	+172	-156	-154	+151	-165	-160	+157
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-186	-186	+183	-193*	-193	+189	-176	-174	+171	-180	-177	+174
Vertical Compressive Strain at Top of Subgrade (microstrain)	+305	+203	-299	+416*	+283	-408	+293	+195	-288	+394	+267	-386

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 093 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	748	748	735	941	941	926	738	738	725	999*	1000	977
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-42	-174	-174	+171	+41	+41	-40	-277*	-276	+277
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-84	-84	+83	-282*	-282	+277	-78	-74	+72	-261	-260	+256
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-143	-143	+140	-154*	-154	+151	-136	-133	+131	-145	-140	+137
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-169*	-169	+166	-168	-168	+165	-160	-159	+156	-159	-157	+154
Vertical Compressive Strain at Top of Subgrade (microstrain)	+292	+196	-287	+357*	+242	-350	+282	+189	-277	+340	+231	-334

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 094 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	724	724	711	919	919	905	714	714	702	977*	978	956	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-174	-174	+171	+40	+40	-39	-277*	-277	+228	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-81	-81	+79	-281*	-280	+275	-75	-71	+69	-259	-259	+254	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-129	-129	+127	-142*	-142	+139	-124	-120	+118	-134	-128	+126	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-152*	-152	+149	-148	-147	+145	-145	-144	+142	-140	-139	+136	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+276	+186	-271	+310*	+210	-304	+268	+180	-262	+297	+202	-292	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 095 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	702	702	690	899	900	885	693	693	681	958*	959	938	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-40	-175	-175	+171	+39	+38	-38	-277*	-277	+229	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-79	-79	+77	-279*	-279	+274	-73	-68	+67	-258	-257	+253	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-121	-121	+118	-134*	-134	+131	-116	-112	+110	-127	-121	+119	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-137*	-137	+134	-131	-130	+128	-131	-131	+128	-125	-124	+121	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+258	+175	-253	+273*	+185	-267	+251	+170	-246	+263	+179	-258	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 096 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	762	762	749	953	953	938	752	752	739	1011*	1012	989
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-43	-173	-173	+170	+42	+42	-41	-276*	-276	+226
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-85	-85	+84	-283*	-283	+278	-80	-75	+74	-261	-261	+256
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-178	-178	+175	-184*	-184	+181	-167	-167	+163	-172	-170	+166
Vertical Compressive Strain at Top of Subgrade (microstrain)	+296	+296	-291	+404*	+404	-396	+285	+285	-280	+383	+382	-375

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 097 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	736	736	723	929	930	915	726	727	714	988*	989	967
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-42	-174	-174	+171	+41	+40	-40	-277*	-277	+277
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-81	-81	+79	-281*	-281	+276	-75	-71	+70	-259	-259	+254
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-149	-149	+146	-151*	-151	+148	-141	-140	+137	-143	-140	+137
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-166*	-166	+163	-166	-166	+162	-157	-156	+153	-156	-154	+151
Vertical Compressive Strain at Top of Subgrade (microstrain)	+287	+192	-281	+352*	+239	-345	+277	+185	-272	+336	+228	-330

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 098 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	721	713	700	908	908	894	703	703	691	967*	968	946
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-40	-174	-174	+171	+39	+39	-38	-277*	-277	+228
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-78	-78	+76	-280*	-279	+274	-72	-68	+67	-258	-257	+253
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-130	-130	+127	-133*	-133	+131	-124	-122	+120	-127	-123	+121
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-151*	-151	+148	-146	-146	+143	-144	-143	+140	-139	-138	+135
Vertical Compressive Strain at Top of Subgrade (microstrain)	+272	+183	-267	+307*	+209	-301	+264	+178	-259	+295	+200	-289

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 099 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	691	692	679	889	890	875	683	683	671	948*	949	928
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-175	-175	+172	+38	+38	-37	-278*	-278	+278
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-76	-76	+74	-278*	-278	+273	-70	-66	+64	-257	-256	+252
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-118	-118	+116	-122*	-122	+120	-113	-111	+109	-117	-113	+111
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-136*	-136	+133	-130	-130	+127	-130	-130	+127	-124	-123	+121
Vertical Compressive Strain at Top of Subgrade (microstrain)	+256	+173	-251	+270*	+184	-265	+248	+168	-244	+261	+177	-256

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 100 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	673	673	661	872	873	859	664	664	652	932*	932	911	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+39	+39	-38	-175	-175	+172	+37	+37	-36	-278*	-278	+230	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-74	-74	+73	-277*	-277	+272	-68	-64	+63	-256	-255	+251	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-111	-111	+108	-116*	-116	+113	-106	-103	+101	-110	-106	+104	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-123*	-123	+120	-116	-116	+113	-118	-118	+115	-111	-110	+108	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+238	+161	-234	+241*	+163	-236	+232	+157	-228	+233	+159	-229	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 101 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	923	923	907	1104	1104	1090	908	908	892	1159*	1159	1130	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+51	+51	-50	-168	-168	+165	+48	+48	-47	-272*	-272	+272	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-179	-179	+175	-290*	-290	+285	-163	-162	+159	-271	-269	+264	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-243	-243	+239	-328*	-328	+321	-222	-221	+217	-310	-304	+298	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+311	+311	-304	+825*	+825	-809	+296	+296	-290	+759	+759	-745	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 102 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	885	885	870	1061	1061	1040	872	872	857	1118*	1118	1090
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+50	+50	-49	-169	-169	+166	+48	+48	-47	-272*	-272	+220
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-152	-152	+149	-267*	-266	+262	-140	-138	+135	-248	-247	+242
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-199	-199	+196	-257*	-257	+253	-185	-182	+179	-243	-230	+226
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-238	-237	+233	-288*	-288	+282	-220	-218	+214	-263	-256	+251
Vertical Compressive Strain at Top of Subgrade (microstrain)	+328	+212	-321	+668*	+455	-655	+313	+202	-307	+618	+419	-606

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 103 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	848	849	834	1024	1025	1010	836	836	822	1082*	1082	1060
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+49	+49	-48	-170	-170	+167	+47	+46	-46	-273*	-273	+273
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-134	-134	+132	-257*	-257	+252	-123	-121	+119	-238	-237	+233
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-170	-170	+167	-226*	-226	+221	-160	-155	+152	-217	-209	+205
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-219	-219	+215	-243*	-243	+239	-205	-203	+199	-224	-220	+215
Vertical Compressive Strain at Top of Subgrade (microstrain)	+330	+217	-324	+543*	+369	-533	+316	+208	-310	+507	+344	-498

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 104 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	815	815	801	993	993	977	804	804	790	1051*	1052	1030
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+48	-47	-170	-170	+167	+45	+45	-44	-273*	-273	+222
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-123	-123	+120	-252*	-252	+247	-113	-110	+108	-233	-232	+228
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-151	-151	+148	-217*	-216	+212	-144	-138	+135	-203	-200	+197
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-198	-198	+194	-208*	-208	+204	-187	-185	+181	-194	-190	+186
Vertical Compressive Strain at Top of Subgrade (microstrain)	+322	+214	-315	+452*	+307	-443	+309	+205	-303	+427	+289	-418

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 105 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	785	785	772	966	966	951	775	775	761	1024*	1025	1000
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+46	+46	-45	-171	-171	+168	+44	+44	-42.9	-274*	-274	+224
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-115	-115	+113	-249*	-248	+244	-105	-103	+101	-229	-229	+225
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-140	-140	+137	-213*	-211	+207	-133	-127	+124	-197	-196	+192
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-179	-179	+175	-179*	-179	+176	-169	-168	+165	-169	-166	+163
Vertical Compressive Strain at Top of Subgrade (microstrain)	+308	+206	-302	+384*	+260	-376	+297	+198	-291	+365	+248	-358

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 106 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	869	869	854	1042	1042	1030	856	856	842	1099*	1100	1080
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+50	+50	-49	-169	-169	+166	+48	+48	-47	-272*	-272	+220
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-140	-140	+137	-255*	-255	+250	-129	-127	+124	-237	-236	+231
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-228	-228	+223	-276*	-276	+271	-210	-209	+205	-251	-245	+241
Vertical Compressive Strain at Top of Subgrade (microstrain)	+318	+318	-312	+650*	+650	-638	+304	+304	-298	+601	+601	-589

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 107 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	834	834	820	1007	1007	991	822	822	808	1065*	1066	1040
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+49	+49	-48	-170	-170	+167	+47	+46	-46	-273*	-273	+221
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-123	-123	+121	-246*	-246	+242	-114	-111	+109	-228	-227	+223
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-187	-187	+183	-219*	-219	+215	-174	-172	+169	-204	-196	+192
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-215	-215	+211	-241*	-241	+237	-201	-199	+195	-222	-217	+213
Vertical Compressive Strain at Top of Subgrade (microstrain)	+322	+212	-315	+539*	+367	-529	+309	+203	-303	+503	+341	-493

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 108 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	801	802	788	976	976	961	791	791	777	1035*	1036	1010
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+47	-47	-171	-171	+168	+45	+45	-44	-274*	-274	+274
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-112	-112	+110	-241*	-241	+237	-103	-101	+99	-223	-222	+218
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-160	-160	+157	-192*	-192	+188	-151	-148	+145	-181	-171	+168
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-196	-196	+192	-207*	-207	+203	-185	-183	+180	-192	-189	+185
Vertical Compressive Strain at Top of Subgrade (microstrain)	+316	+210	-309	+449*	+305	-440	+304	+202	-298	+423	+287	-415

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 109 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	772	772	759	949	950	935	762	762	749	1009*	1010	987
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+46	+46	-45	-171	-171	+168	+44	+44	-43	-274*	-274	+224
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-105	-105	+103	-238*	-238	+234	-96	-94	+92	-220	-219	+215
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-144	-144	+141	-177*	-177	+174	-137	-132	+129	-167	-158	+155
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-177	-177	+173	-178*	-178	+175	-168	-166	+163	-168	-165	+162
Vertical Compressive Strain at Top of Subgrade (microstrain)	+303	+202	-297	+381*	+259	-373	+292	+195	-286	+362	+246	-355

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 110 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	746	747	734	926	926	911	737	737	724	986*	987	965
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-172	-172	+169	+42	+42	-42	-275*	-275	+275
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-100	-100	+98	-236*	-236	+231	-92	-89	+87	-217	-217	+213
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-133	-133	+131	-169*	-169	+165	-127	-122	+120	-159	-149	+146
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-159*	-159	+156	-155	-155	+152	-152	-151	+148	-148	-146	+143
Vertical Compressive Strain at Top of Subgrade (microstrain)	+286	+192	-281	+329*	+223	-322	+277	+186	-272	+315	+214	-309

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 111 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	819	819	805	991	992	976	808	808	794	1050*	1051	1030
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+49	+49	-48	-170	-170	+167	+46	+46	-45	-273*	-273	+222
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-115	-115	+113	-242*	-242	+237	-107	-104	+102	-223	-223	+219
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-206	-206	+202	-231*	-231	+227	-191	-191	+187	-211	-208	+204
Vertical Compressive Strain at Top of Subgrade (microstrain)	+312	+312	-306	+524*	+524	-514	+299	+299	-294	+489	+489	-480

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 112 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	788	788	774	962	962	947	778	778	764	1021*	1022	999
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+47	+47	-46	-171	-171	+168	+45	+45	-44	-274*	-274	+274
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-105	-105	+103	-238*	-237	+233	-97	-94	+92	-219	-218	+215
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-170	-170	+167	-186*	-186	+182	-160	-158	+155	-174	-169	+165
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-193	-193	+189	-204*	-204	+200	-181	-180	+176	-190	-186	+183
Vertical Compressive Strain at Top of Subgrade (microstrain)	+308	+205	-302	+445*	+302	-436	+296	+197	-291	+419	+284	-411

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 113 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	760	760	747	936	936	921	750	750	737	996*	997	974
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+46	+46	-45	-171	-171	+168	+43	+43	-43	-274*	-274	+224
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-98	-98	+96	-235*	-234	+230	-91	-87	+86	-216	-215	+212
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-147	-147	+144	-163*	-163	+160	-140	-137	+134	-154	-148	+145
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-175	-175	+172	-177*	-177	+174	-166	-165	+161	-167	-164	+161
Vertical Compressive Strain at Top of Subgrade (microstrain)	+297	+199	-292	+378*	+257	-371	+287	+192	-282	+360	+244	-353

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 114 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	734	734	722	913	913	899	725	725	722	973*	974	952
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-43	-172	-172	+169	+42	+42	-43	-275*	-275	+225
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-93	-93	+91	-233*	-232	+228	-86	-83	+91	-214	-213	+209
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-133	-133	+130	-151*	-151	+148	-127	-123	+130	-142	-136	+133
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-158*	-158	+155	-155	-155	+152	-150	-149	+155	-147	-145	+142
Vertical Compressive Strain at Top of Subgrade (microstrain)	+282	+190	-277	+326*	+222	-320	+273	+184	-277	+313	+212	-307

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 115 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	712	712	699	892	893	879	703	703	691	953*	954	932	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-42	-172	-172	+169	+41	+41	-40	-275*	-275	+226	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-90	-90	+88	-231*	-230	+226	-83	-80	+78	-212	-212	+208	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-124	-124	+122	-143*	-143	+140	-119	-115	+112	-135	-128	+126	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-142*	-142	+139	-136	-136	+134	-136	-135	+133	-130	-129	+126	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+265	+179	-260	+286*	+194	-280	+257	+173	-252	+275	+187	-270	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 116 / Truck		Stress Load = 690 kPa							Contact Radius = 11 cm			
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	774	774	761	949	949	934	764	764	751	1009*	1009	987
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+47	+47	-46	-171	-171	+168	+44	+44	-44	-274*	-274	+223
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-100	-100	+98	-235*	-235	+231	-93	-89	+88	-217	-216	+212
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-185	-185	+181	-195*	-195	+192	-173	-172	+169	-181	-179	+175
Vertical Compressive Strain at Top of Subgrade (microstrain)	+299	+299	-294	+432*	+432	-424	+288	+288	-283	+407	+407	-399

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 117 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	747	747	735	924	924	910	738	738	725	984*	985	963	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-172	-172	+169	+43	+43	-42	-275*	-275	+275	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-93	-93	+91	-233*	-232	+228	-87	-83	+81	-214	-214	+210	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-154	-154	+151	-160*	-159	+156	-146	-144	+141	-150	-147	+144	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-172	-172	+169	-175*	-175	+171	-163	-162	+158	-164	-162	+159	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+291	+195	-286	+374*	+254	-367	+281	+188	-276	+356	+241	-349	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 118 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	723	723	710	902	902	888	714	714	701	962*	963	941
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-43	-172	-172	+169	+42	+42	-41	-275*	-275	+226
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-89	-89	+87	-231*	-230	+226	-82	-79	+77	-212	-211	+208
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-134	-134	+132	-141*	-140	+138	-128	-126	+123	-133	-129	+127
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-156*	-156	+153	-153	-153	+150	-149	-148	+145	-146	-144	+141
Vertical Compressive Strain at Top of Subgrade (microstrain)	+278	+187	-273	+324*	+220	-317	+269	+181	-264	+310	+210	-304

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 119 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	701	701	689	882	882	868	692	692	680	943*	944	922
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-42	-173	-173	+170	+40	+40	-40	-276*	-276	+276
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-86	-86	+84	-229*	-229	+225	-79	-76	+74	-210	-210	+206
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-122	-122	+119	-129*	-129	+127	-117	-114	+112	-123	-118	+116
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-141*	-141	+138	-135	-135	+133	-135	-134	+132	-129	-128	+126
Vertical Compressive Strain at Top of Subgrade (microstrain)	+262	+177	-257	+283*	+193	-278	+254	+171	-249	+273	+186	-268

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 120 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	681	681	669	864	864	850	672	672	661	925*	926	905
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-40	-173	-173	+170	+39	+39	-39	-276*	-276	+228
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-83	-83	+82	-228*	-228	+223	-77	-73	+72	-209	-209	+205
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-114	-114	+112	-122*	-122	+120	-109	-106	+104	-116	-112	+109
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-127*	-127*	+125	-120	-120	+118	-122	-122	+119	-116	-115	+112
Vertical Compressive Strain at Top of Subgrade (microstrain)	+244	+165	-240	+251*	+171	-246	+238	+161	-233	+243	+165	-239

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 121 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	735	735	723	913	913	899	726	726	714	973*	974	952
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+44	-44	-172	-172	+169	+42	+42	-42	-275*	-275	+275
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-90	-90	+88	-231*	-231	+227	-84	-80	+78	-213	-212	+208
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-165	-165	+162	-167*	-167	+164	-156	-155	+152	-157	-155	+152
Vertical Compressive Strain at Top of Subgrade (microstrain)	+284	+284	-278	+363*	+363	-356	+274	+274	-269	+346	+346	-339

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 122 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	712	712	700	891	892	878	703	703	691	952*	953	932
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-42	-172	-172	+169	+41	+41	-40	-275*	-275	+226
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-86	-86	+84	-230*	-229	+225	-80	-76	+74	-211	-210	+207
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-139*	-139	+136	-139	-138	+136	-132	-131	+128	-132	-129	+127
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-154*	-154	+151	-151	-151	+148	-146	-145	+142	-143	-141	+139
Vertical Compressive Strain at Top of Subgrade (microstrain)	+273	+183	-268	+320*	+217	-313	+264	+177	-259	+306	+208	-300

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 123 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	690	690	679	872	872	858	682	682	670	933*	934	913
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-173	-173	+170	+40	+40	-39	-276*	-276	+276
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-83	-83	+81	-228*	-228	+224	-77	-73	+72	-209	-209	+205
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-122	-122	+119	-122*	-122	+120	-117	-115	+113	-117	-114	+112
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-140*	-140	+137	-134	-134	+132	-134	-133	+130	-128	-127	+124
Vertical Compressive Strain at Top of Subgrade (microstrain)	+258	+174	-253	+281*	+169	-275	+251	+169	-246	+271	+184	-266

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 124 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	671	671	660	854	855	841	663	663	651	916*	917	896
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-40	-173	-173	+170	+39	+39	-38	-276*	-276	+228
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-81	-81	+79	-227*	-226	+222	-74	-71	+70	-208	-208	+204
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-111	-111	+109	-113*	-113	+110	-107	-104	+102	-108	-105	+103
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-126*	-126	+124	-120	-120	+117	-121	-121	+118	-115	-114	+112
Vertical Compressive Strain at Top of Subgrade (microstrain)	+242	+164	-237	+249*	+169	-244	+236	+159	-231	+241	+164	-237

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 125 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	654	654	642	839	839	826	646	646	635	901*	901	881	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-174	-174	+171	+38	+38	-37	-277*	-277	+277	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-79	-79	+78	-226*	-225	+221	-73	-69	+68	-207	-207	+203	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-104	-104	+102	-106*	-106	+104	-100	-98	+96	-102	-98	+96.5	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-114*	-114	+112	-107	-107	+105	-110	-110	+108	-103	-103	+101	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+225*	+153	-221	+223	+152	-219	+220	+149	-216	+217	+148	-213	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 126 / Truck		Stress Load = 690 kPa							Contact Radius = 11 cm			
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	1052	1052	1030	1294*	1294	1270	1030	1030	1010	1284	1285	1250
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+72	+72	-71	-296	-296	+291	+66	+66	-65	-325*	-325	+322
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-182	-182	+179	-447*	-447	+439	-162	-160	+157	-426	-425	+418
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-294	-294	+289	-522*	-522	+512	-264	-261	+256	-487	-485	+476
Vertical Compressive Strain at Top of Subgrade (microstrain)	+294	+295	-289	+1241*	+1241	-1220	+273	+273	-268	+1161	+1161	-1140

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 127 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	1006	1006	988	1223*	1223	1200	987	987	969	1218	1218	1180
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+64	+64	-63	-281	-281	+276	+59	+59	-57	-311*	-311	+308
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-149	-149	+146	-405*	-405	+398	-134	-132	+129	-386	-386	+380
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-232	-232	+228	-376*	-376	+368	-213	-207	+204	-352	-350	+343
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-299	-299	+293	-396*	-396	+388	-273	-269	+264	-369	-358	+352
Vertical Compressive Strain at Top of Subgrade (microstrain)	+346	+216	-339	+983*	+667	-964	+324	+202	-318	+903	+612	-886

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 128 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	958	958	941	1165*	1165	1150	941	941	924	1163	1163	1130
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+62	+62	-61	-274	-273	+269	+57	+57	-56	-304*	-304	+301
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-126	-126	+124	-389*	-388	+382	-115	-111	+109	-371	-370	+364
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-190	-190	+186	-339*	-339	+332	-178	-170	+167	-316	-315	+309
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-279	-279	+274	-334*	-334	+327	-257	-254	+249	-304	-296	+290
Vertical Compressive Strain at Top of Subgrade (microstrain)	+198	+236	-358	+565*	+527	-762	+187	+222	-339	+519	+486	-703

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 129 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	913	913	897	1119*	1119	1100	897	897	882	1118	1119	1090
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+62	+62	-61	-270	-270	+265	+57	+57	-56	-301*	-301	+298
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-112	-112	+110	-381*	-381	+374	-102	-98	+96	-363	-363	+357
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-164	-164	+161	-327*	-326	+320	-156	-147	+144	-303	-302	+297
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-254	-253	+249	-281*	-281	+275	-236	-233	+229	-258	-253	+248
Vertical Compressive Strain at Top of Subgrade (microstrain)	+366	+240	-359	+629*	+427	-617	+348	+228	-341	+586	+397	-575

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 130 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	873	873	858	1080	1063	858	858	843	1081*	1081	1050		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+63	+63	-62	-268	-268	+263	+57	+57	-56	-299*	-299	+296	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-102	-102	+100	-376*	-376	+370	-93	-89	+87	-359	-358	+352	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-149	-149	+146	-322*	-321	+315	-143	-132	+129	-298	-297	+292	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-228	-228	+228	-239*	-239	+234	-214	-212	+208	-222	-218	+214	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+356	+236	-349	+521*	+353	-511	+341	+225	-334	+490	+332	-481	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 131 / Truck		Stress Load = 690 kPa							Contact Radius = 11 cm			
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	987	987	970	1192*	1192	1170	969	969	952	1189	1189	1160
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+61	+61	-59	-274	-273	+269	+55	+55	-54	-304*	-304	+301
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-134	-134	+132	-385*	-385	+378	-122	-119	+116	-368	-368	+362
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-285	-285	+279	-377*	-377	+370	-259	-257	+252	-351	-342	+336
Vertical Compressive Strain at Top of Subgrade (microstrain)	+337	+337	-330	+950*	+950	-932	+317	+317	-311	+873	+873	-856

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 132 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	942	942	925	1138*	1138	1120	925	925	909	1137	1137	1110
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+59	+59	-57	-267	-267	+262	+53	+53	-52	-298*	-298	+295
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-114	-114	+111	-371*	-370	+364	-105	-100	+98	-354	-354	+348
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-225	-225	+221	-288*	-288	+282	-208	-204	+200	-271	-256	+252
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-273	-273	+268	-330*	-330	+324	-252	-249	+244	-300	-292	+287
Vertical Compressive Strain at Top of Subgrade (microstrain)	+355	+229	-348	+768*	+522	-753	+337	+217	-330	+708	+480	-695

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 133 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	898	898	882	1092	1092	1080	883	883	868	1094*	1094	1060	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+59	+59	-57	-263	-263	+259	+53	+53	-52	-295*	-295	+292	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-100	-100	+98	-363*	-363	+357	-93	-88	+86	-347	-346	+341	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-188	-187	+184	-248*	-248	+243	-176	-170	+167	-238	-226	+222	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-250	-250	+245	-278*	-278	+273	-232	-230	+225	-256	-250	+245	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+358	+235	-351	+622*	+423	-610	+341	+223	-334	+579	+393	-568	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 134 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	859	859	844	1054	1055	1040	845	845	830	1057*	1057	1030	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+59	+59	-58	-262	-261	+257	+54	+54	-53	-293*	-293	+290	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-91	-91	+89	-359*	-359	+353	-85	-79	+78	-343	-342	+337	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-165	-165	+162	-234*	-232	+228	-156	-149	+146	-220	-216	+212	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-225	-225	+221	-237*	-236	+232	-211	-209	+205	-220	-216	+212	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+349	+232	-342	+514*	+349	-504	+334	+221	-328	+484	+328	-474	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 135 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	824	824	810	1022	1023	1010	811	811	797	1026*	1026	996	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+60	+60	-59	-260	-260	+256	+55	+55	-54	-292*	-292	+289	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-85	-85	+84	-357*	-356	+350	-79	-74	+72	-340	-340	+334	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-151	-151	+148	-229*	-227	+223	-144	-136	+133	-213	-211	+208	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-202	-202	+198	-203*	-203	+199	-190	-189	+185	-191	-188	+184	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+334	+223	-328	+433*	+294	-425	+321	+214	-315	+412	+279	-403	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 136 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	922	922	906	1114	1114	1100	907	907	891	1115*	1115	1080
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+58	+58	-57	-264	-264	+259	+53	+53	-52	-295*	-295	+292
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-104	-104	+102	-364*	-363	+357	-97	-92	+90	-347	-347	+341
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-259	-259	+254	-314*	-314	+308	-238	-237	+232	-284	-278	+273
Vertical Compressive Strain at Top of Subgrade (microstrain)	+343	+343	-336	+743*	+743	-729	+325	+325	-319	+685	+685	-672

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 137 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	881	881	866	1071	1071	1050	867	867	852	1074*	1074	1040
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+58	+58	-56	-260	-260	+256	+53	+53	-52	-292*	-292	+289
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-92	-92	+90	-357*	-357	+351	-86	-80	+79	-341	-340	+335
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-208	-208	+204	-244*	-244	+240	-194	-191	+187	-227	-218	+214
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-244	-244	+240	-275*	-275	+269	-227	-225	+220	-252	-246	+242
Vertical Compressive Strain at Top of Subgrade (microstrain)	+347	+228	-341	+615*	+418	-603	+331	+217	-325	+573	+388	-561

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 138 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	843	843	829	1034	1034	1020	830	830	816	1038*	1038	1010
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+58	58	-57	-259	-259	+254	+53	+53	-52	-290*	-290	+287
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-83	-83	+82	-353*	-353	+347	-79	-73	+71	-337	-337	+331
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-176	-176	+173	-212*	-212	+208	-166	-162	+158	-199	-189	+185
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-222	-222	+218	-234*	-234	+230	-208	-206	+202	-218	-214	+210
Vertical Compressive Strain at Top of Subgrade (microstrain)	+342	+227	-335	+509*	+509	-499	+327	+217	-321	+479	+325	-470

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 139 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	809	809	796	1003	1003	987	797	797	783	1007*	1008	978	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+59	+59	-58	-258	-258	+253	+54	+54	-53	-289*	-289	+286	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-78	-78	+76	-351*	-350	+344	-74	-67	+66	-334	-334	+329	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-157	-157	+154	-195*	-195	+191	-149	-143	+140	-184	-172	+169	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-199	-199	+195	-201*	-201	+198	-188	-186	+183	-189	-186	+182	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+328	+219	-321	+429*	+292	-421	+315	+210	-309	+407	+276	-399	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 140 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	780	780	766	976	976	961	768	768	755	981*	981	952	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+59	+59	-58	-257	-257	+252	+54	+54	-53	-288*	-288	+285	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-74	-74	+73	-349*	-349	+343	-70	-64	+62	-332	-332	+327	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-145	-145	+142	-185*	-185	+181	-138	-132	+129	-174	-162	+159	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-178*	-178	+175	-175	-175	+171	-169	-168	+165	-166	-163	+160	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+310	+208	-304	+368*	+250	-360	+299	+201	-293	+351	+239	-345	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 141 / Truck		Stress Load = 690 kPa							Contact Radius = 11 cm			
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	863	863	849	1052	1052	1040	850	850	835	1056*	1056	1030
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+58	+58	-56	-259	-259	+254	+53	+53	-52	-290*	-290	+287
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-86	-86	+84	-354*	-354	+348	-82	-75	+74	-337	-337	+332
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-232	-232	+228	-262*	-262	+257	-215	-214	+210	-239	-235	+230
Vertical Compressive Strain at Top of Subgrade (microstrain)	+336	+336	-329	+595*	+595	-584	+320	+320	-314	+554	+554	-544

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 142 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	828	828	813	1017	1017	1000	815	815	801	1022*	1022	992
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+58	+58	-57	-257	-257	+253	+53	+53	-52	-289*	-289	+286
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-78	-78	+77	-350*	-350	+344	-75	-68	+66	-334	-334	+328
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-189	-189	+186	-208*	-208	+204	-178	-175	+172	-194	-188	+184
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-217	-217	+213	-231*	-231	+226	-203	-201	+198	-214	-210	+206
Vertical Compressive Strain at Top of Subgrade (microstrain)	+333	+221	-326	+503*	+342	-493	+319	+211	-312	+473	+321	-464

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 143 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	795	795	781	987	987	971	783	783	770	992*	992	963
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+59	+59	-57	-256	-256	+252	+54	+54	-53	-288*	-288	+285
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-73	-73	+71	-348*	-348	+342	-70	-63	+62	-332	-331	+326
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-162	-162	+159	-181*	-181	+177	-154	-150	+147	-171	-163	+160
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-197	-197	+193	-200*	-200	+196	-186	-184	+180	-187	-184	+181
Vertical Compressive Strain at Top of Subgrade (microstrain)	+322	+215	-315	+425*	+289	-417	+309	+206	-303	+403	+274	-395

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 144 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	766	766	753	960	961	945	755	755	742	966*	966	937
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+59	+59	-58	-255	-255	+251	+54	+54	-53.0	-287*	-287	+284
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-69	-69	+68	-346*	-346	+340	-67	-59	+58.2	-330	-330	+324
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-146	-146	+143	-166*	-166	+163	-139	-134	+132	-157	-149	+146
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-177*	-177	+173	-173	-173	+170	-168	-166	+163	-164	-162	+159
Vertical Compressive Strain at Top of Subgrade (microstrain)	+305	+205	-299	+364*	+248	-357	+294	+198	-289	+348	+236	-341

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 145 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	740	740	728	937	938	923	730	730	717	943*	944	915
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+59	+59	-58	-255	-255	+251	+54	+54	-53	-287*	-287	+284
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-67	-67	+66	-345*	-345	+339	-64	-57	+56	-329	-328	+323
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-136	-135	+133	-157*	-157	+154	-130	-124	+122	-148	-140	+138
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-158*	-158	+155	-152	-152	+149	-151	-150	+147	-145	-143	+141
Vertical Compressive Strain at Top of Subgrade (microstrain)	+286	+193	-281	+317*	+215	-310	+277	+187	-272	+304	+207	-299

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 146 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	812	812	798	1002	1002	986	800	800	786	1007*	1007	977
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+58	+58	-57	-256	-256	+252	+53	+53	-52	-288*	-288	+285
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-74	-74	+73	-349*	-348	+342	-72	-64	+63	-332	-332	+327
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-207	-207	+203	-220*	-220	+216	-193	-192	+189	-203	-201	+197
Vertical Compressive Strain at Top of Subgrade (microstrain)	+323	+323	-316	+487*	+487	-478	+309	+309	-303	+459	+458	-450

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 147 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	781	781	768	973	973	958	770	770	757	978*	979	949
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+59	+59	-58	-255	-255	+251	+54	+54	-53	-287*	-287	+284
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-70	-70	+68	-346*	-346	+340	-67	-60	+59	-330	-330	+324
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-171	-171	+168	-178*	-178	+175	-161	-159	+156	-167	-163	+160
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-193	-193	+189	-197*	-196	+193	-182	-180	+177	-184	-181	+178
Vertical Compressive Strain at Top of Subgrade (microstrain)	+315	+210	-308	+420*	+285	-411	+302	+202	-296	+398	+270	-390

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 148 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	753	753	740	947	947	932	742	742	729	953*	954	925
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+59	+59	-58	-255	-255	+250	+54	+54	-53	-286*	-286	+283
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-66	-66	+65	-345*	-345	+339	-64	-56	+55	-328	-328	+323
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-148	-148	+145	-156*	-156	+153	-141	-138	+135	-148	-143	+140
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-175*	-175	+171	-172	-172	+169	-166	-164	+161	-163	-160	+157
Vertical Compressive Strain at Top of Subgrade (microstrain)	+300	+202	-294	+361*	+245	-354	+290	+194	-284	+345	+234	-338

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 149 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	728	728	715	925	925	910	717	717	705	931*	932	903
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+59	+59	-58	-254	-254	+250	+54	+54	-53	-286*	-286	+283
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-64	-64	+63	-344*	-343	+337	-62	-54	+53	-327	-327	+322
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-134	-134	+131	-143*	-143	+140	-128	-124	+122	-136	-130	+128
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-157*	-157	+154	-151	-151	+148	-150	-149	+146	-144	-142	+139
Vertical Compressive Strain at Top of Subgrade (microstrain)	+282	+191	-277	+314*	+213	-307	+273	+184	-268	+301	+205	-296

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 150 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	706	706	694	905	905	891	696	696	684	911*	912	884
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+60	+60	-58	-254	-254	+250	+55	+55	-54	-286*	-286	+283
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-62	-62	+61	-343*	-342	+337	-60	-53	+52	-326	-326	+321
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-125	-125	+123	-135*	-135	+133	-120	-116	+114	-128	-123	+120
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-141*	-141	+138	-134	-133	+131	-135	-134	+132	-128	-127	+124
Vertical Compressive Strain at Top of Subgrade (microstrain)	+263	+178	-258	+276*	+188	-271	+256	+173	-251	+266	+181	-262

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 151 / Truck	Stress Load 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	t Radius =	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	1010	1010	992	1198*	1199	1180	991	991	973	1196	1196	1160
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+54	+54	-53	-258	-258	+254	+49	+49	-48	-291*	-291	+288
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-192	-192	+189	-368*	-368	+361	-173	-172	+168	-346	-345	+339
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-282	-282	+277	-422*	-421	+386	-255	-253	+248	-395	-392	+385
Vertical Compressive Strain at Top of Subgrade (microstrain)	+324	+324	-318	+1040*	+1040	-1020	+304	+304	-298	+963	+963	-945

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 152 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	964	964	947	1140	1140	1120	947	947	931	1141*	1141	1110	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+51	+51	-50	-250	-250	+246	+46	+46	-45	-283*	-283	+280	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-160	-160	+157	-335*	-335	+329	-146	-143	+141	-315	-314	+309	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-226	-226	+221	-312*	-311	+305	-208	-204	+200	-296	-290	+285	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-279	-279	+273	-349*	-349	+343	-256	-253	+248	-320	-309	+304	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+354	+226	-347	+833*	+566	-817	+335	+213	-329	+767	+520	-753	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 153 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	919	919	904	1092	1092	1080	904	904	888	1095*	1095	1060	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+50	+50	-49	-246	-246	+241	+46	+46	-45	-279*	-279	+276	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-139	-139	+136	-323*	-323	+317	-127	-124	+122	-302	-302	+296	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-189	-188	+185	-282*	-282	+276	-177	-170	+167	-265	-262	+257	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-257	-257	+252	-295*	-295	+289	-239	-236	+232	-270	-263	+258	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+362	+236	-355	+668*	+454	-655	+345	+225	-338	+620	+420	-608	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 154 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm			
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	878	878	863	1052	1052	1040	864	864	849	1056*	1056	1030
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+51	+51	-50	-243	-243	+239	+47	+47	-46	-277*	-277	+274
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-125	-125	+123	-316*	-316	+311	-114	-111	+109	-296	-295	+290
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-165	-165	+162	-272*	-272	+266	-157	-149	+146	-253	-252	+247
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-233	-233	+228	-249*	-249	+245	-218	-216	+211	-231	-226	+222
Vertical Compressive Strain at Top of Subgrade (microstrain)	+356	+235	-349	+548*	+372	-537	+340	+225	-334	+514	+348	-504

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 155 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm			
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	842	842	828	1018	1018	1000	829	829	815	1023*	1023	993
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+51	+51	-50	-242	-242	+238	+47	+47	-46	-276*	-275	+273
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-116	-116	+114	-313*	-312	+307	-106	-102	+100	-292	-292	+286
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-151	-151	+148	-267*	-266	+261	-144	-135	+133	-248	-246	+242
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-209	-209	+205	-213*	-213	+209	-197	-195	+191	-200	-196	+193
Vertical Compressive Strain at Top of Subgrade (microstrain)	+342	+228	-335	+459*	+311	-450	+329	+219	-322	+434	+294	-426

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 156 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm			
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	945	945	929	1115	1115	1100	929	929	913	1117*	1117	1090
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+49	+49	-48	-246	-246	+242	+45	+45	-44	-279*	-279	+276
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-146	-146	+143	-320*	-320	+314	-133	-130	+128	-300	-299	+294
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-266	-266	+261	-334*	-334	+327	-243	-242	+237	-304	-296	+290
Vertical Compressive Strain at Top of Subgrade (microstrain)	+344	+344	-337	+808*	+808	-792	+326	+326	-319	+744	+744	-730

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 157 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm			
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	903	903	887	1068	1069	1050	888	888	873	1073*	1073	1040
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+49	+49	-48	-242	-242	+238	+45	+45	-44	-275*	-275	+273
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-126	-126	+124	-308*	-308	+303	-116	-113	+110	-289	-288	+283
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-214	-213	+209	-260*	-260	+255	-199	-195	+191	-242	-231	+227
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-252	-252	+247	-292*	-292	+286	-234	-231	+227	-267	-260	+255
Vertical Compressive Strain at Top of Subgrade (microstrain)	+352	+229	-345	+661*	+450	-649	+335	+218	-329	+614	+416	-602

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 158 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm			
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	863	863	848	1029	1029	1010	850	850	835	1035*	1035	1010
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+49	+49	-48	-240	-240	+236	+45	+45	-44	-273*	-273	+271
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-113	-113	+111	-303*	-302	+297	-104	-100	+98	-283	-282	+277
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-180	-180	+177	-225*	-225	+221	-170	-165	+162	-213	-201	+197
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-229	-229	+225	-248*	-248	+243	-215	-213	+209	-229	-224	+220
Vertical Compressive Strain at Top of Subgrade (microstrain)	+348	+230	-341	+543*	+369	-532	+333	+220	-326	+509	+345	-499

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 159 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm			
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	827	827	813	996	996	981	815	815	801	1003*	1003	973
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+50	+50	-49	-238	-238	+234	+46	+46	-45	-272*	-272	+269
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-104	-104	+102	-299*	-299	+293	-96	-92	+90	-279	-279	+274
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-160	-160	+157	-208*	-208	+204	-152	-146	+143	-197	-184	+180
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-206	-206	+202	-212*	-212	+208	-194	-193	+189	-198	-195	+191
Vertical Compressive Strain at Top of Subgrade (microstrain)	+335	+224	-329	+454*	+308	-445	+322	+215	-316	+430	+291	-421

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 160 / Truck				Stress Load = 690 kPa				Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	796	796	782	968	968	952	784	784	771	975*	975	946
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+50	+50	-49	-238	-238	+234	+46	+46	-45	-271*	-271	-269
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-99	-99	+97	-296*	-296	+291	-91	-87	+85	-277	-276	+271
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-148	-148	+145	-197*	-197	+194	-141	-134	+131	-187	-179	+176
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-185*	-185	+181	-183	-183	+179	-175	-174	+171	-173	-170	+167
Vertical Compressive Strain at Top of Subgrade (microstrain)	+318	+213	-312	+387*	+263	-379	+307	+206	-301	+369	+250	-362

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 161 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	884	884	869	1048	1049	1030	871	871	856	1054*	1054	1020	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+49	+49	-48	-240	-240	+236	+44	+44	-44	-273*	-273	+271	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-117	-117	+115	-303*	-303	+297	-108	-104	+102	-283	-283	+278	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-240	-240	+235	-278*	-278	+273	-222	-220	+216	-253	-248	+244	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+340	+340	-333	+641*	+641	-629	+324	+324	-318	+595	+595	-583	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 162 / Truck				Stress Load = 690 kPa				Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	847	847	832	1011	1011	995	834	834	820	1018*	1018	988
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+49	+49	-48	-238	-238	+234	+45	+45	-44	-272*	-271	+269
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-105	-105	+103	-298*	-298	+292	-97	-93	+91	-278	-277	+273
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-195	-195	+191	-220*	-220	+216	-183	-180	+177	-205	-198	+194
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-225	-225	+220	-244*	-244	+240	-210	-208	+204	-226	-221	+217
Vertical Compressive Strain at Top of Subgrade (microstrain)	+338	+223	-332	+537*	+365	-527	+324	+213	-317	+503	+341	-493

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 163 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	812	812	799	979	979	963	800	800	787	986*	987	957
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+50	+50	-49	-237	-237	+233	+46	+46	-45	-270*	-270	+268
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-97	-97	+95	-294*	-294	+289	-90	-85	+84	-274	-274	+269
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-167	-167	+164	-192*	-192	+188	-158	-154	+151	-181	-172	+169
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-204	-204	+200	-210*	-210	+206	-192	-190	+187	-196	-193	+189
Vertical Compressive Strain at Top of Subgrade (microstrain)	+328	+219	-322	+450*	+306	-441	+316	+210	-309	+426	+289	-417

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 164 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	782	782	768	951	951	936	770	770	757	959*	959	930
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+50	+50	-49	-236	-236	+232	+46	+46	-45	-270*	-270	+267
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-91	-91	+89	-292*	-291	+286	-85	-80	+78	-272	-272	+267
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-150	-150	+147	-177*	-176	+173	-143	-138	+135	-166	-158	+155
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-183*	-183	+179	-182	-182	+178	-173	-172	+169	-172	-169	+166
Vertical Compressive Strain at Top of Subgrade (microstrain)	+312	+210	-306	+383*	+261	-376	+301	+202	-295	+366	+248	-358

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 165 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	755	755	742	926	927	912	744	744	731	935*	935	907
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+50	+50	-49	-236	-236	+232	+46	+46	-45	-269*	-269	+267
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-87	-87	+86	-290*	-290	+285	-81	-76	+75	-270	-270	+265
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-139	-139	+136	-167*	-167	+164	-133	-127	+125	-157	-149	+146
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-164*	-164	+161	-159	-159	+156	-156	-155	+152	-151	-149	+146
Vertical Compressive Strain at Top of Subgrade (microstrain)	+294	+198	-288	+332*	+225	-325	+284	+191	-279	+318	+216	-312

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 166 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	830	830	816	995	995	979	818	818	804	1002*	1002	973
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+49	+49	-48	-237	-237	+233	+45	+45	-44	-271*	-270	+268
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-99	-99	+97	-295*	-295	+289	-92	-88	+86	-275	-275	+270
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-214	-214	+210	-233*	-233	+229	-200	-199	+195	-214	-211	+207
Vertical Compressive Strain at Top of Subgrade (microstrain)	+327	+327	-321	+521*	+521	-511	+314	+314	-307	+488	+488	-478

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 167 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	798	798	784	964	964	949	786	786	773	972*	972	943
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+50	+50	-49	-236	-236	+232	+46	+46	-45	-269*	-269	+267
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-92	-92	+90	-292*	-292	+286	-86	-80	+79	-272	-272	+267
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-176	-176	+173	-188*	-188	+184	-166	-164	+161	-176	-171	+168
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-200	-200	+196	-207*	-207	+203	-188	-186	+183	-193	-190	+186
Vertical Compressive Strain at Top of Subgrade (microstrain)	+321	+214	-314	+445*	+303	-436	+308	+205	-302	+421	+285	-412

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 168 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	768	768	755	937	937	922	757	757	745	945*	946	917
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+50	+50	-49	-235	-235	+231	+46	+46	-45	-269*	-269	+266
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-86	-86	+85	-290*	-289	+284	-81	-75	+74	-270	-269	+265
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-153	-153	+150	-164*	-164	+161	-145	-142	+139	-155	-149	+147
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-181*	-181	+177	-180	-180	+177	-171	-170	+167	-170	-167	+164
Vertical Compressive Strain at Top of Subgrade (microstrain)	+307	+206	-301	+380*	+258	-372	+296	+198	-290	+362	+246	-355

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 169 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	742	742	729	913	913	899	731	731	719	922*	922	894		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+50	+50	-50	-235	-235	+231	+46	+46	-46	-268*	-268	+266		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-83	-83	+81	-288*	-288	+282	-77	-72	+71	-268	-268	+263		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-138	-138	+135	-151*	-151	+148	-132	-128	+125	-143	-137	+134		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-163*	-163	+159	-158	-158	+154	-155	-154	+151	-150	-148	+145		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+290	+195	-284	+329*	+224	-322	+280	+189	-275	+315	+214	-309		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 170 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	718	718	706	892	892	878	708	708	696	901*	902	874		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+51	+51	-50	-234	-234	+230	+47	+47	-46	-268*	-268	+266		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-80	-80	+79	-287*	-286	+281	-75	-70	+68	-267	-266	+262		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-128	-128	+126	-143*	-143	+140	-123	-119	+116	-135	-129	+126		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-146*	-146	+143	-139	-139	+136	-140	-139	+136	-133	-132	+129		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+271	+183	-265	+288*	+196	-283	+263	+177	-258	+278	+189	-273		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 171 / Truck		Stress Load = 690 kPa							Contact Radius = 11 cm			
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	783	783	770	950	950	935	772	772	759	958*	959	930
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+50	+50	-49	-235	-235	+231	+46	+46	-45	-269*	-269	+266
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-88	-88	+86	-290*	-290	+285	-82	-77	+76	-270	-270	+265
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-191	-191	+187	-198*	-198	+194	-179	-178	+175	-184	-182	+178
Vertical Compressive Strain at Top of Subgrade (microstrain)	+311	+311	-305	+432*	+431	-423	+299	+299	-293	+408	+408	-400

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 172 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	755	755	742	924	925	910	745	745	732	933*	934	905
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+50	+50	-49	-235	-235	+231	+46	+46	-46	-268*	-268	+266
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-83	-83	+82	-288*	-288	+283	-78	-72	+71	-268	-268	+263
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-159	-159	+156	-162*	-222	+158	-151	-149	+146	-153	-149	+146
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-178*	-178	+174	-177	-277	+174	-168	-167	+164	-167	-165	+162
Vertical Compressive Strain at Top of Subgrade (microstrain)	+301	+202	-295	+375*	+255	-368	+290	+194	-284	+357	+243	-351

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 173 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	729	730	717	901	901	887	719	720	707	910*	911	883
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+51	+51	-50	-234	-234	+230	+47	+47	-46	-268*	-268	+265
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-80	-80	+78	-287*	-286	+281	-74	-69	+68	-267	-266	+262
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-138	-138	+136	-142*	-142	+139	-132	-130	+127	-135	-131	+129
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-161*	-161	+158	-156	-156	+153	-153	-152	+149	-149	-147	+144
Vertical Compressive Strain at Top of Subgrade (microstrain)	+285	+192	-280	+326*	+222	-319	+276	+186	-271	+312	+212	-306

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 174 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	707	707	695	880	881	867	697	697	685	890*	891	863
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+51	+51	-50	-234	-234	+230	+47	+47	-46	-268*	-268	+265
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-77	-77	+76	-285*	-285	+280	-72	-67	+65	-266	-265	+261
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-126	-126	+123	-131*	-131	+128	-121	-118	+115	-124	-120	+118
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-145*	-145	+142	-138	-138	+135	-139	-138	+135	-132	-131	+128
Vertical Compressive Strain at Top of Subgrade (microstrain)	+267	+181	-262	+286*	+194	-280	+259	+175	-254	+275	+187	-270

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 175 / Truck				Stress Load = 690 kPa				Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	686	686	675	862	863	849	677	677	666	872*	873	845
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+51	+51	-50	-234	-234	+230	+47	+47	-46	-268*	-268	+265
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-75	-76	+74	-284*	-284	+279	-70	-65	+64	-265	-264	+260
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-118	-118	+115	-123*	-123	+121	-113	-110	+108	-117	-113	+111
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-130*	-130	+128	-123	-123	+120	-125	-125	+122	-118	-117	+115
Vertical Compressive Strain at Top of Subgrade (microstrain)	+249	+169	-244	+253*	+172	-248	+242	+164	-237	+245	+167	-241

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 176 / Truck							Stress Load = 690 kPa						Contact Radius = 11 cm		
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Contact Radius =		Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)					
Surface Deflection (micron)	963	963	946	1120	1120	1100	946	946	930	1123*	1124	1090			
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-238	-238	+234	+41	+41	-40	-272*	-272	+269			
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-191	-191	+187	-304*	-304	+299	-173	-172	+169	-286	-283	+278			
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-264	-264	+259	-351*	-351	+344	-240	-239	+234	-330	-322	+317			
Vertical Compressive Strain at Top of Subgrade (microstrain)	+331	+330	-324	+882*	+882	-866	+313	+313	-307	+814	+814	-798			

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 177 / Truck				Stress Load = 690 kPa				Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	920	920	905	1071	1071	1060	906	906	890	1077*	1077	1050
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-43	-233	-233	+229	+40	+40	-39	-267*	-267	+265
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-162	-162	+159	-279*	-279	+274	-148	-146	+143	-261	-259	+255
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-215	-214	+210	-275*	-275	+269	-199	-195	+192	-260	-246	+241
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-257	-257	+252	-309*	-309	+303	-238	-235	+230	-282	-275	+269
Vertical Compressive Strain at Top of Subgrade (microstrain)	+349	+226	-342	+716*	+487	-702	+332	+214	-326	+662	+449	-649

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 178 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	879	879	865	1030	1030	1010	866	866	851	1037*	1037	1010
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-43	-230	-230	+226	+40	+40	-39	-265*	-265	+262
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-143	-143	+140	-269*	-268	+263	-131	-128	+126	-250	-249	+245
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-182	-182	+178	-240*	-240	+235	-171	-166	+162	-231	-221	+217
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-236	-236	+231	-262*	-262	+257	-220	-218	+214	-241	-236	+231
Vertical Compressive Strain at Top of Subgrade (microstrain)	+350	+230	-343	+582*	+396	-571	+335	+220	-328	+543	+368	-533

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 179 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	842	842	828	995	995	950	830	830	816	1003*	1003	974
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-44	-229	-229	+224	+41	+41	-40	-263*	-263	+261
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-130	-130	+127	-263*	-263	+255	-119	-116	+114	-244	-244	+239
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-162	-162	+158	-229*	-228	+219	-153	-147	+144	-215	-212	+208
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-213	-213	+209	-223*	-223	+188	-200	-199	+195	-208	-204	+200
Vertical Compressive Strain at Top of Subgrade (microstrain)	+340	+226	-334	+483*	+328	-401	+327	+217	-320	+456	+309	-447

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 180 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	810	810	796	965	965	950	798	798	784	973*	974	945
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-228	-228	+224	+41	+41	-41	-262*	-262	+260
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-121	-121	+119	-260*	-259	+255	-111	-108	+106	-241	-240	+236
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-149	-149	+146	-224*	-223	+219	-142	-134	+132	-209	-207	+203
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-191	-191	+188	-192*	-192	+169	-181	-180	+176	-181	-178	+175
Vertical Compressive Strain at Top of Subgrade (microstrain)	+325	+217	-318	+409*	+278	-321	+313	+209	-307	+389	+264	-381

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Pavement Response	Stress Load = 690 kPa									Contact Radius = 11 cm		
	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	902	902	887	1050	1050	1030	888	888	873	1057*	1057	1030
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-42	-230	-230	+226	+39	+39	-39	-265*	-265	+262
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-148	-148	+146	-267*	-266	+261	-136	-134	+131	-249	-247	+243
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-246	-246	+241	-296*	-296	+291	-226	-225	+221	-269	-263	+258
Vertical Compressive Strain at Top of Subgrade (microstrain)	+338	+338	-331	+696*	+696	-683	+322	+322	-316	+643	+643	-631

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Pavement Response	Stress Load = 690 kPa									Contact Radius = 11 cm		
	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	863	863	849	1010	1010	994	851	851	836	1018*	1019	989
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-42	-228	-228	+224	+40	+40	-39	-262*	-262	+260
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-130	-130	+128	-257*	-257	+252	-120	-117	+115	-239	-238	+234
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-200	-200	+196	-234*	-234	+229	-187	-184	+181	-218	-209	+206
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-232	-232	+227	-259*	-259	+254	-216	-214	+210	-238	-233	+229
Vertical Compressive Strain at Top of Subgrade (microstrain)	+341	+224	-334	+577*	+393	-566	+326	+214	-320	+538	+365	-528

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Pavement Response	Stress Load = 690 kPa									Contact Radius = 11 cm		
	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	827	827	814	976	976	961	816	816	802	985*	985	956
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-43	-226	-226	+222	+40	+40	-39	-261*	-261	+259
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-118	-118	+116	-252*	-252	+247	-109	-106	+104	-234	-233	+229
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-171	-171	+168	-205*	-205	+201	-162	-157	+154	-193	-183	+179
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-211	-211	+207	-222*	-222	+217	-198	-196	+192	-206	-203	+199
Vertical Compressive Strain at Top of Subgrade (microstrain)	+333	+221	-327	+479*	+326	-470	+320	+212	-314	+452	+307	-443

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 184 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm			
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	795	795	782	947	947	932	784	784	771	956*	957	928
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-43	-226	-226	+222	+41	+41	-40	-260*	-260	+258
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-110	-110	+108	-249*	-248	+244	-102	-98	+97	-230	-230	+226
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-153	-153	+150	-189*	-189	+185	-146	-140	+138	-178	-168	+165
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-189	-189	+186	-191*	-191	+187	-179	-178	+174	-179	-177	+173
Vertical Compressive Strain at Top of Subgrade (microstrain)	+319	+213	-312	+405*	+276	-397	+307	+205	-301	+385	+262	-378

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 185 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm			
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	767	767	754	921	921	907	756	756	744	931*	931	903
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-225	-225	+221	+41	+41	-40	-260*	-260	+257
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-105	-105	+103	-246*	-246	+241	-97	-93	+91	-228	-227	+223
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-142	-142	+139	-179*	-179	+176	-135	-130	+127	-169	-159	+156
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-170*	-170	+167	-166	-166	+163	-162	-160	+157	-158	-155	+152
Vertical Compressive Strain at Top of Subgrade (microstrain)	+301	+202	-295	+349*	+237	-342	+291	+195	-285	+334	+227	-327

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 186 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm			
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	846	846	832	993	993	977	834	834	820	1002*	1002	972
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-43	-226	-226	+223	+40	+40	-39	-261*	-261	+259
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-122	-122	+119	-252*	-252	+247	-113	-110	+107	-234	-234	+229
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-221	-221	+217	-248*	-248	+243	-206	-204	+201	-227	-223	+219
Vertical Compressive Strain at Top of Subgrade (microstrain)	+329	+329	-323	+560*	+560	-549	+315	+315	-309	+523	+522	-512

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 187 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	812	812	799	960	960	945	801	801	788	970*	970	941	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-43	-225	-225	+221	+40	+40	-40	-260*	-260	+258	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-111	-111	+109	-248*	-247	+243	-103	-99	+97	-229	-229	+225	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-182	-182	+179	-199*	-199	+195	-171	-169	+166	-186	-180	+177	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-207	-207	+203	-219*	-219	+215	-194	-192	+189	-203	-200	+196	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+325	+216	-318	+474*	+323	-465	+312	+207	-306	+447	+303	-438	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 188 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	781	781	768	931	932	917	771	771	758	941*	942	913	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-43	-224	-224	+221	+41	+41	-40	-259*	-259	+257	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-103	-103	+101	-245*	-244	+240	-96	-92	+90	-226	-226	+222	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-157	-157	+154	-174*	-174	+171	-149	-146	+143	-164	-158	+155	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-187	-187	+184	-189*	-189	+186	-177	-176	+172	-178	-175	+172	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+313	+209	-306	+402*	+274	-394	+301	+201	-295	+382	+260	-375	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 189 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	754	754	741	906	906	892	743	743	731	917*	917	889	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-224	-224	+220	+41	+41	-40	-259*	-259	+256	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-98	-98	+96	-242*	-242	+238	-91	-87	+85	-224	-223	+219	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-142	-142	+139	-161*	-161	+157	-135	-131	+129	-152	-145	+142	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-168*	-168	+165	-165	-165	+162	-160	-159	+156	-156	-154	+151	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+296	+199	-290	+346*	+235	-339	+286	+192	-281	+331	+225	-325	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 190 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	729	729	717	884	884	871	719	719	707	895*	896	868
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-224	-224	+220	+41	+41	-41	-259*	-258	+256
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-94	-94	+93	-241*	-240	+236	-87	-83	+82	-222	-222	+218
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-132	-132	+129	-152*	-152	+149	-126	-122	+119	-143	-136	+134
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-151*	-151	+148	-145	-145	+142	-144	-143	+141	-138	-137	+134
Vertical Compressive Strain at Top of Subgrade (microstrain)	+277	+187	-272	+302*	+205	-296	+269	+181	-264	+290	+197	-285

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 191 / Truck		Stress Load = 690 kPa							Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Contact Radius =		Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	797	797	784	946	946	931	786	786	773	955*	956	927	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-43	-225	-224	+221	+41	+41	-40	-259*	-259	+257	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-105	-105	+103	-245*	-245	+241	-98	-94	+92	-227	-227	+222	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-198	-198	+194	-209*	-209	+205	-185	-184	+180	-194	-191	+187	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+315	+315	-309	+461*	+461	-452	+302	+302	-296	+434	+434	-425	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 192 / Truck				Stress Load = 690 kPa				Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	768	768	755	918	918	904	757	757	745	929*	929	901
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-224	-224	+220	+41	+41	-40	-259*	-259	+256
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-98	-98	+96	-243*	-242	+238	-91	-87	+86	-224	-224	+220
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-164	-164	+161	-170*	-170	+167	-155	-153	+150	-161	-157	+154
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-184	-184	+180	-187*	-187	+183	-174	-172	+169	-175	-173	+169
Vertical Compressive Strain at Top of Subgrade (microstrain)	+306	+205	-300	+398*	+270	-390	+295	+197	-289	+378	+256	-370

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 193 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	741	741	729	894	894	880	731	731	719	905*	905	877
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-223	-223	+220	+41	+41	-41	-258*	-258	+256
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-93	-93	+92	-241*	-240	+236	-87	-83	+81	-222	-222	+218
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-143	-143	+140	-150*	-150	+147	-136	-134	+131	-142	-137	+135
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-167*	-167	+163	-164	-164	+160	-158	-157	+154	-155	-153	+150
Vertical Compressive Strain at Top of Subgrade (microstrain)	+291	+196	-285	+343*	+233	-336	+282	+189	-276	+328	+223	-322

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 194 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	717	717	705	872	872	859	707	708	696	883*	884	856
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-223	-223	+219	+42	+42	-41	-258*	-258	+256
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-90	-90	+88	-239*	-238	+234	-83	-79	+78	-220	-220	+216
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-130	-130	+127	-138*	-138	+135	-124	-121	+119	-131	-126	+124
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-150*	-150	+147	-144	-144	+141	-143	-142	+140	-137	-136	+133
Vertical Compressive Strain at Top of Subgrade (microstrain)	+274	+185	-268	+299*	+204	-293	+265	+179	-260	+288	+196	-283

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 195 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	696	696	684	853	853	840	687	687	675	865*	865	838
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-223	-223	+219	+42	+42	-41	-258*	-258	+256
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-87	-87	+86	-237*	-237	+233	-81	-77	+75	-219	-219	+215
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-121	-121	+119	-130*	-130	+128	-116	-113	+110	-124	-119	+116
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-135*	-135	+132	-128	-127	+125	-129	-129	+126	-123	-121	+119
Vertical Compressive Strain at Top of Subgrade (microstrain)	+255	+173	-250	+264*	+180	-259	+248	+168	-243	+255	+174	-251

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 196 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	755	755	742	906	906	892	744	745	732	917*	917	889
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-223	-223	+220	+41	+41	-41	-258*	-258	+256
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-95	-95	+93	-241*	-241	+236	-88	-84	+82	-223	-222	+218
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-176	-176	+173	-179*	-179	+175	-166	-165	+162	-167	-165	+162
Vertical Compressive Strain at Top of Subgrade (microstrain)	+297	+297	-291	+386*	+386	-379	+287	+286	-281	+367	+367	-360

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 197 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	729	729	717	883	883	869	719	719	708	894*	895	867
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-223	-223	+219	+42	+42	-41	-258*	-258	+256
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-90	-90	+89	-239*	-239	+235	-84	-80	+78	-221	-220	+216
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-148	-148	+145	-148*	-147	+145	-140	-139	+136	-140	-137	+135
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-164*	-164	+160	-161	-161	+158	-155	-154	+151	-153	-151	+148
Vertical Compressive Strain at Top of Subgrade (microstrain)	+286	+192	-280	+339*	+230	-332	+276	+185	-271	+324	+220	-318

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 198 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	706	706	694	862	862	848	697	697	685	873*	874	846
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-223	-223	+219	+42	+42	-41	-258*	-258	+255
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-87	-87	+85	-238*	-237	+233	-80	-76	+75	-219	-219	+215
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-129	-129	+127	-130*	-130	+128	-124	-122	+119	-124	-121	+119
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-148*	-148	+146	-143	-143	+140	-142	-141	+138	-136	-135	+132
Vertical Compressive Strain at Top of Subgrade (microstrain)	+270	+182	-265	+297*	+202	-291	+262	+177	-257	+285	+194	-280

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 199 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm			
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	685	685	674	843	843	830	676	676	665	855*	855	828
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-223	-223	+219	+42	+42	-41	-258*	-257	+255
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-85	-85	+83	-236*	-236	+232	-78	-74	+73	-218	-217	+214
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-118	-118	+116	-120*	-120	+117	-113	-111	+109	-114	-111	+109
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-134*	-134	+131	-127	-127	+124	-128	-128	+125	-122	-120	+118
Vertical Compressive Strain at Top of Subgrade (microstrain)	+252	+171	-247	+262*	+178	-257	+245	+166	-241	+253	+172	-249

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 200 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm			
Pavement Response	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	666	666	655	826	826	813	658	658	647	838*	839	812
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-223	-223	+219	+42	+42	-41	-258*	-257	+255
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-83	-83	+81	-235*	-235	+231	-76	-72	+71	-217	-216	+213
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-110	-110	+108	-113*	-113	+111	-106	-103	+102	-108	-105	+103
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-121*	-121	+118	-113	-113	+111	-116	-116	+114	-109	-108	+106
Vertical Compressive Strain at Top of Subgrade (microstrain)	+234*	+159	-230	+234	+159	-229	+229	+155	-224	+227	+155	-223

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 201 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm			
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	916	916	900	1055	1055	1040	902	902	886	1062*	1062	1030
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-40	-226	-226	+217	+37	+37	-36	-261*	-261	+237
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-184	-184	+180	-255*	-255	+248	-168	-167	+164	-242	-237	+231
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-244	-244	+240	-312*	-312	+305	-224	-223	+218	-285	-277	+270
Vertical Compressive Strain at Top of Subgrade (microstrain)	+325	+325	-319	+758*	+758	-740	+310	+310	-304	+698	+698	-682

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 202 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	877	877	863	1013	1013	997	864	864	850	1022*	1022	992
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-222	-222	+219	+37	+37	-36	-258*	-258	+255
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-159	-159	+156	-234*	-234	+230	-146	-144	+141	-220	-218	+214
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-202	-202	+198	-248*	-248	+243	-188	-185	+181	-232	-221	+217
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-236	-236	+232	-275*	-275	+269	-220	-217	+213	-251	-245	+241
Vertical Compressive Strain at Top of Subgrade (microstrain)	+337	+220	-330	+623*	+424	-611	+322	+210	-316	+578	+393	-567

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 203 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	840	840	826	977	977	962	828	828	815	987*	988	958
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-40	-221	-221	+217	+37	+37	-37	-256*	-256	+254
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-141	-141	+139	-226*	-225	+221	-130	-128	+126	-210	-209	+205
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-173	-173	+170	-218*	-218	+214	-163	-159	+156	-207	-195	+191
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-217	-217	+212	-234*	-234	+230	-203	-201	+197	-217	-212	+208
Vertical Compressive Strain at Top of Subgrade (microstrain)	+335	+221	-328	+513*	+349	-503	+321	+212	-315	+481	+326	-472

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 204 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	807	807	794	946	947	932	796	796	783	957*	958	929
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-40	-220	-220	+216	+38	+38	-37	-255*	-255	+253
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-130	-130	+127	-221*	-220	+216	-119	-117	+115	-205	-204	+200
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-155	-155	+152	-203*	-203	+199	-147	-142	+139	-192	-181	+177
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-195	-195	+192	-201*	-201	+197	-184	-183	+179	-188	-185	+181
Vertical Compressive Strain at Top of Subgrade (microstrain)	+323	+215	-317	+430*	+292	-422	+311	+207	-305	+408	+277	-400

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 205 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	778	778	765	920	920	905	767	767	754	931*	931	903
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-41	-219	-219	+216	+38	+38	-38	-255*	-255	+252
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-122	-122	+120	-217*	-217	+213	-121	-110	+108	-202	-201	+197
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-144	-144	+141	-193*	-193	+189	-137	-131	+128	-183	-176	+173
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-176*	-176	+172	-174	-174	+170	-167	-166	+162	-164	-162	+159
Vertical Compressive Strain at Top of Subgrade (microstrain)	+307	+206	-301	+368*	+250	-361	+296	+199	-290	+351	+238	-345

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 206 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	860	860	846	995	995	979	848	848	834	1005*	1005	975
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-221	-221	+217	+37	+37	-36	-256*	-256	+254
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-146	-146	+143	-224*	-224	+220	-135	-133	+130	-210	-208	+204
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-227	-227	+222	-264*	-264	+259	-210	-209	+205	-240	-236	+232
Vertical Compressive Strain at Top of Subgrade (microstrain)	+327	+327	-321	+607*	+607	-595	+313	+313	-307	+563	+563	-552

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 207 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	825	825	812	960	961	945	814	814	800	971*	972	942
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-40	-219	-219	+216	+37	+37	-37	-255*	-255	+252
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-130	-130	+128	-216*	-216	+212	-120	-118	+116	-201	-200	+196
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-187	-187	+183	-211*	-211	+207	-175	-173	+170	-197	-190	+187
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-213	-213	+209	-232*	-232	+228	-200	-198	+194	-215	-210	+206
Vertical Compressive Strain at Top of Subgrade (microstrain)	+326	+216	-320	+509*	+346	-499	+313	+207	-307	+477	+324	-468

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 208 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	793	793	780	930	930	916	782	782	769	942*	942	913
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-40	-218	-218	+215	+38	+38	-37	-254*	-254	+251
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-119	-119	+117	-211*	-211	+207	-110	-108	+106	-196	-195	+192
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-161	-161	+158	-186*	-186	+182	-153	-149	+146	-175	-167	+164
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-194	-194	+190	-200*	-200	+196	-183	-181	+178	-187	-184	+180
Vertical Compressive Strain at Top of Subgrade (microstrain)	+317	+211	-310	+427*	+291	-419	+305	+203	-299	+405	+275	-397

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 209 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	764	764	751	904	904	890	754	754	742	916*	916	888
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-40	-218	-218	+214	+38	+38	-37	-253*	-253	+251
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-112	-112	+110	-208*	-208	+204	-104	-101	+99	-193	-192	+189
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-145	-145	+143	-172*	-172	+169	-139	-134	+132	-162	-154	+151
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-174*	-174	+171	-173	-173	+170	-165	-164	+161	-164	-161	+158
Vertical Compressive Strain at Top of Subgrade (microstrain)	+301	+202	-295	+365*	+248	-358	+291	+195	-285	+349	+237	-342

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 210 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	738	738	726	881	881	867	729	729	717	893*	894	866
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-41	-218	-218	+214	+38	+38	-38	-253*	-253	+251
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-107	-107	+105	-206*	-206	+202	-99	-96	+94	-190	-190	+186
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-135	-135	+133	-163*	-163	+160	-129	-124	+122	-154	-145	+142
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-156*	-156	+153	-151	-151	+148	-149	-148	+145	-144	-142	+140
Vertical Compressive Strain at Top of Subgrade (microstrain)	+283	+191	-278	+317*	+215	-310	+275	+185	-269	+304	+207	-298

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 211 / Truck				Stress Load = 690 kPa				Contact Radius = 11 cm				
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	810	810	797	945	945	930	799	799	786	956*	957	928
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-40	-219	-218	+215	+37	+37	-37	-254*	-254	+252
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-122	-122	+120	-212*	-212	+208	-114	-111	+109	-197	-196	+192
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-204	-204	+200	-222*	-222	+218	-190	-189	+186	-205	-202	+198
Vertical Compressive Strain at Top of Subgrade (microstrain)	+316	+316	-310	+495*	+495	-485	+304	+304	-298	+464	+464	-455

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 212 / Truck				Stress Load = 690 kPa				Contact Radius = 11 cm				
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	779	779	766	916	916	902	769	769	756	928*	929	900
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-40	-218	-218	+214	+38	+38	-37	-253*	-253	+251
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-112	-112	+110	-208*	-207	+204	-104	-101	+99	-192	-192	+188
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-169	-169	+166	-180*	-180	+177	-160	-158	+155	-169	-165	+162
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-190	-190	+186	-197*	-197	+193	-179	-178	+174	-184	-181	+178
Vertical Compressive Strain at Top of Subgrade (microstrain)	+309	+206	-303	+423*	+288	-415	+298	+198	-292	+401	+272	-393

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 213 / Truck				Stress Load = 690 kPa				Contact Radius = 11 cm				
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	751	751	739	891	891	877	741	741	729	903*	903	875
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-41	-217	-217	+214	+38	+38	-38	-253*	-252	+250
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-105	-105	+103	-205*	-204	+201	-98	-95	+93	-189	-189	+185
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-147	-147	+144	-159*	-159	+156	-140	-137	+135	-150	-145	+142
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-172*	-172	+169	-172	-172	+168	-164	-162	+159	-162	-160	+157
Vertical Compressive Strain at Top of Subgrade (microstrain)	+296	+199	-290	+362*	+247	-355	+286	+192	-280	+346	+235	-339

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 214 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)		Position (3)		Position (4)					
Surface Deflection (micron)	726	726	714	868	868	854	717	717	705	880*	881	853
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-217	-217	+213	+38	+38	-38	-252*	-252	+250
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-101	-101	+99	-203*	-202	+199	-93	-90	+88	-187	-187	+183
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-134	-134	+131	-147*	-147	+144	-128	-124	+122	-139	-133	+130
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-155*	-155	+152	-151	-150	+148	-148	-147	+144	-143	-142	+139
Vertical Compressive Strain at Top of Subgrade (microstrain)	+279	+188	-274	+314*	+214	-308	+271	+182	-265	+302	+205	-296

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 215 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)		Position (3)		Position (4)					
Surface Deflection (micron)	704	704	692	848	848	835	695	695	683	861*	861	834
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-217	-217	+213	+39	+39	-38	-252*	-252	+250
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-97	-97	+95	-201*	-201	+197	-90	-87	+85	-185	-185	+181
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-125	-125	+122	-139*	-139	+136	-120	-116	+113	-131	-125	+123
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-139*	-139	+137	-133	-133	+130	-134	-133	+130	-127	-126	+124
Vertical Compressive Strain at Top of Subgrade (microstrain)	+261	+177	-256	+276*	+188	-271	+254	+172	-249	+267	+181	-262

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 216 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)		Position (3)		Position (4)					
Surface Deflection (micron)	765	765	753	903	903	889	755	755	743	915*	916	888
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-41	-217	-217	+214	+38	+38	-37	-253*	-253	+250
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-107	-107	+105	-206*	-205	+202	-100	-97	+95	-190	-190	+186
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-182	-182	+179	-189*	-189	+185	-171	-170	+167	-176	-174	+170
Vertical Compressive Strain at Top of Subgrade (microstrain)	+300	+300	-294	+412*	+411	-404	+289	+289	-284	+390	+389	-382

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 217 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	738	738	726	879	879	865	729	729	717	891*	892	864
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-217	-217	+213	+39	+38	-38	-252*	-252	+250
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-101	-101	+99	-203*	-203	+199	-94	-90	+89	-188	-187	+184
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-153	-153	+150	-155*	-155	+152	-145	-143	+140	-147	-144	+141
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-169	-169	+166	-169*	-169	+166	-161	-159	+156	-160	-158	+155
Vertical Compressive Strain at Top of Subgrade (microstrain)	+290	+195	-284	+358*	+244	-351	+280	+188	-275	+342	+232	-335

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 218 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	714	714	703	857	857	843	705	705	694	870*	870	843
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-217	-217	+213	+39	+39	-38	-252*	-252	+250
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-96	-96	+95	-201*	-201	+197	-89	-86	+84	-185	-185	+181
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-134	-134	+131	-137*	-137	+135	-128	-125	+123	-131	-127	+124
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-154*	-154	+151	-149	-149	+146	-147	-146	+143	-142	-140	+138
Vertical Compressive Strain at Top of Subgrade (microstrain)	+275	+186	-270	+312*	+212	-306	+267	-180	-261	+299	+204	-294

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 219 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	692	692	681	837	837	824	684	684	673	850*	851	824
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-216	-216	+213	+39	+39	-38	-252*	-252	+250
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-93	-93	+91	-199*	-199	+195	-86	-83	+81	-184	-183	+180
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-122	-122	+119	-127*	-126	+124	-117	-114	+112	-120	-116	+114
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-138*	-138	+136	-132	-132	+130	-133	-132	+129	-127	-125	+123
Vertical Compressive Strain at Top of Subgrade (microstrain)	+258	+175	-253	+274*	+186	-269	+251	+170	-246	+264	+180	-260

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 220 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	673	673	662	819	820	807	665	665	654	833*	834	807
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-216	-216	+213	+39	+39	-38	-252*	-252	+250
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-91	-91	+89	-198*	-198	+194	-84	-80	+79	-182	-182	+179
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-114	-114	+112	-120*	-120	+117	-110	-106	+104	-114	-110	+108
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-125*	-125	+122	-118	-118	+115	-120	-119	+117	-113	-112	+110
Vertical Compressive Strain at Top of Subgrade (microstrain)	+240	+163	-236	+244*	+166	-239	+234	+159	-230	+236	+161	-232

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 221 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	726	726	715	868	868	854	717	717	706	880*	881	853
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-217	-217	+213	+39	+39	-38	-252*	-252	+250
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-98	-98	+96	-202*	-201	+198	-91	-87	+86	-186	-186	+182
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-163	-163	+159	-163*	-162	+159	-154	-153	+150	-153	-151	+148
Vertical Compressive Strain at Top of Subgrade (microstrain)	+282	+282	-277	+348*	+348	-342	+273	+273	-268	+332	+332	-326

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 222 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	703	703	692	847	847	833	694	695	683	860*	861	833
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-216	-216	+213	+39	+39	-38	-252*	-252	+249
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-93	-93	+92	-200*	-199	+196	-86	-83	+81	-184	-184	+180
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-137*	-137	+135	-135	-135	+133	-131	-130	+127	-129	-127	+124
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-151*	-151	+148	-147	-147	+144	-144	-143	+140	-140	-138	+136
Vertical Compressive Strain at Top of Subgrade (microstrain)	+270	+182	-265	+308*	+209	-302	+262	+176	-257	+295	+201	-290

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 223 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm			
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	682	682	671	827	828	815	674	674	663	841*	842	815
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-216	-216	+213	+39	+39	-38	-252*	-251	+249
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-90	-90	+89	-198*	-198	+194	-83	-80	+79	-183	-182	+179
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-121*	-121	+119	-120	-120	+118	-116	-114	+112	-115	-112	+110
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-137*	-137	+135	-131	-131	+128	-131	-131	+128	-125	-124	+122
Vertical Compressive Strain at Top of Subgrade (microstrain)	+255	+172	-250	+272*	+185	-266	+248	+167	-243	+262	+178	-257

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 224 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm			
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	663	663	652	810	811	798	655	655	644	824*	825	798
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-216	-216	+213	+39	+39	-38	-252*	-251	+249
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-88	-88	+86	-197*	-196	+193	-81	-78	+76	-181	-181	+178
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-110	-110	+108	-110*	-110	+108	-106	-104	+102	-106	-103	+101
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-124*	-124	+122	-117	-117	+115	-119	-119	+116	-113	-112	+109
Vertical Compressive Strain at Top of Subgrade (microstrain)	+238	+161	-233	+242*	+164	-237	+232	+157	-227	+234	+160	-230

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 225 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm			
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	646	646	636	795	795	783	638	638	628	809*	809	783
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-216	-216	+213	+39	+39	-38	-252*	-251	+249
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-86	-86	+85	-196*	-195	+192	-79	-76	+75	-180	-180	+176
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-104	-104	+102	-104*	-104	+102	-100	-98	+96	-100	-97	+95
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-112*	-112	+110	-105	-105	+103	-108	-108	+106	-101	-101	+99
Vertical Compressive Strain at Top of Subgrade (microstrain)	+221	+251	-217	+217*	+148	-213	+216	+147	-212	+211	+144	-207

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 226 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	871	871	857	999	999	983	858	858	844	1009*	1009	980	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+38	+38	-38	-218	-218	+214	+35	+35	-35	-254*	-254	+251	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-175	-175	+172	-225*	-225	+221	-161	-160	+157	-211	-202	+199	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-226	-226	+222	-278*	-278	+272	-208	-207	+203	-252	-246	+242	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+315	+315	-309	+657*	+657	-645	+301	+301	-295	+607	+607	-595	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 227 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	836	836	822	963	963	948	825	825	811	975*	975	946	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+39	+38	-38	-216	-216	+213	+36	+36	-35	-252*	-252	+250	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-153	-153	+150	-201*	-201	+197	-141	-140	+137	-191	-186	+182	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-189	-189	+185	-224*	-224	+220	-176	-174	+170	-208	-200	+196	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-217	-217	+213	-245*	-245	+241	-203	-201	+197	-225	-221	+216	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+323	+212	-316	+547*	+373	-537	+309	+203	-303	+511	+347	-501	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 228 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	803	803	790	932	932	917	792	792	780	944*	945	916	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+39	+39	-38	-215	-215	+211	+36	+36	-35	-251*	-251	+248	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-138	-138	+135	-192*	-191	+188	-127	-125	+123	-181	-178	+175	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-164	-164	+160	-198*	-198	+195	-155	-151	+148	-187	-177	+174	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-199	-199	+195	-210*	-210	+206	-187	-186	+182	-196	-192	+189	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+318	+211	-312	+456*	+311	-447	+306	+203	-300	+430	+292	-421	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 229 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	773	773	761	905	905	890	763	763	751	917*	918	889
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+39	+39	-39	-215	-215	+211	+36	+36	-36	-250*	-250	+248
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-127	-127	+125	-187*	-187	+183	-118	-116	+113	-175	-173	+170
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-148	-148	+145	-184*	-184	+181	-140	-136	+133	-174	-164	+161
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-180	-180	+176	-182*	-181	+178	-170	-169	+166	-171	-168	+165
Vertical Compressive Strain at Top of Subgrade (microstrain)	+305	+204	-299	+386*	+263	-379	+295	+197	-289	+368	+250	-361

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 230 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	747	747	734	881	881	867	737	737	725	893*	894	866
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-214	-214	+211	+37	+37	-36	-250*	-250	+248
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-120	-120	+118	-184*	-184	+180	-111	-109	+107	-172	-170	+167
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-138	-138	+135	-176*	-176	+172	-131	-126	+124	-165	-155	+152
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-162*	-162	+158	-158	-158	+155	-154	-153	+150	-150	-148	+145
Vertical Compressive Strain at Top of Subgrade (microstrain)	+289	+194	-283	+333*	+226	-327	+280	+188	-274	+319	+217	-313

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 231 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	821	821	807	947	948	933	810	810	797	959*	960	931
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+39	+39	-38	-215	-215	+212	+36	+36	-35	-251*	-251	+249
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-142	-142	+139	-191*	-190	+187	-131	-130	+127	-181	-177	+174
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-209	-209	+205	-236*	-236	+232	-194	-194	+190	-216	-213	+208
Vertical Compressive Strain at Top of Subgrade (microstrain)	+314	+314	-307	+534*	+534	-523	+301	+301	-295	+498	+498	+488

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 232 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	789	789	776	917	917	903	779	779	766	930*	930	902	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+39	+39	-38	-214	-214	+211	+36	+36	-35	-250*	-250	+248	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-128	-128	+125	-183*	-183	+180	-118	-116	+114	-172	-170	+167	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-174	-174	+171	-191*	-191	+188	-164	-162	+159	-179	-174	+170	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-196	-196	+192	-209*	-209	+205	-184	-183	+179	-194	-191	+187	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+311	+206	-304	+452*	+308	-444	+299	+198	-293	+426	+290	-418	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 233 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	760	760	748	890	891	876	750	750	738	903*	904	876	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+39	+39	-39	-214	-214	+210	+37	+36	-36	-249*	-249	+247	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-118	-118	+116	-179*	-179	+176	-109	-107	+105	-167	-166	+163	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-152	-152	+149	-169*	-169	+166	-144	-141	+138	-160	-153	+150	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-178	-178	+175	-181*	-181	+177	-169	-167	+164	-170	-167	+164	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+300	+201	-294	+384*	+261	-377	+289	+194	-284	+365	+248	-358	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 234 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	734	734	722	867	867	853	725	725	713	880*	881	853	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-213	-213	+210	+37	+37	-36	-249*	-249	+247	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-111	-111	+109	-176*	-176	+173	-103	-101	+99	-164	-163	+160	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-137	-137	+135	-157*	-157	+154	-131	-127	+125	-148	-141	+138	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-160*	-160*	+157	-158	-158	+155	-153	-152	+149	-150	-148	+145	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+284	+191	-279	+331*	+225	-324	+275	+185	-270	+317	+216	-311	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 235 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	711	711	699	846	846	833	702	702	691	860*	860	833	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-213	-213	+210	+37	+37	-36	-249*	-249	+247	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-107	-107	+104	-174*	-174	+170	-98	-96	+94	-162	-161	+158	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-128	-128	+126	-149*	-149	+146	-123	-119	+116	-140	-133	+131	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-144*	-144	+141	-139	-139	+136	-138	-137	+135	-133	-131	+129	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+267	+180	-262	+289*	+197	-284	+259	+175	-254	+279	+189	-273	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 236 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	775	775	762	904	904	890	765	765	753	917*	917	889	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+39	+39	-39	-214	-214	+210	+36	+36	-36	-249*	-249	+247	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-120	-120	+118	-180*	-179	+176	-112	-110	+108	-168	-167	+164	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-188	-188	+185	-200*	-200	+197	-176	-176	+172	-186	-183	+180	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+302	+302	-296	+441*	+440	-432	+290	+290	-285	+415	+415	-407	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 237 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	747	747	735	878	878	864	738	738	726	891*	892	864	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-213	-213	+209	+37	+37	-36	-249*	-249	+247	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-111	-111	+109	-176*	-176	+172	-104	-101	+99	-164	-163	+160	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-158	-158	+155	-164*	-164	+161	-149	-148	+145	-155	-151	+148	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-175	-175	+172	-179*	-179	+175	-166	-165	+161	-168	-165	+162	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+293	+196	-288	+381*	+259	-373	+283	+189	-278	+362	+246	-355	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 238 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	722	722	710	855	855	841	713	713	702	869*	870	842
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-213	-213	+209	+37	+37	-36	-248*	-248	+246
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-105	-105	+103	-173*	-173	+170	-98	-95	+93	-161	-160	+157
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-138	-138	+135	-145*	-145	+142	-132	-129	+127	-138	-133	+131
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-159*	-159	+156	-157	-157	+154	-151	-150	+147	-149	-147	+144
Vertical Compressive Strain at Top of Subgrade (microstrain)	+280	+188	-274	+329*	+224	-322	+271	+182	-266	+315	+214	-309

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 239 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	699	699	688	834	835	821	691	691	680	849*	849	822
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-213	-213	+209	+37	+37	-36	-248*	-248	+246
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-101	-101	+99	-171*	-171	+167	-93	-91	+89	-159	-158	+155
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-126	-126	+123	-134*	-134	+132	-120	-117	+115	-127	-123	+120
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-143*	-143	+141	-138	-138	+135	-137	-136	+134	-132	-130	+128
Vertical Compressive Strain at Top of Subgrade (microstrain)	+263	+178	-258	+287*	+196	-282	+256	+173	-251	+277	+188	-272

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 240 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	679	679	668	816	816	803	671	671	660	831*	831	804
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-213	-213	+209	+37	+37	-36	-248*	-248	+246
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-97	-98	+96	-169*	-169	+166	-90	-88	+86	-157	-156	+153
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-118	-118	+115	-127*	-127	+125	-113	-110	+108	-121	-116	+114
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-129*	-129	+127	-122	-122	+120	-124	-123	+121	-118	-116	+114
Vertical Compressive Strain at Top of Subgrade (microstrain)	+246	+167	-241	+254*	+173	-249	+239	+162	-235	+246	+167	-241

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 241 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	735	735	723	866	867	853	726	726	714	880*	881	853
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-213	-213	+209	+37	+37	-36	-248*	-248	+246
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-107	-107	+105	-174*	-174	+170	-99	-97	+95	-162	-161	+158
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-168	-168	+165	-172*	-172	+168	-159	-158	+155	-161	-159	+156
Vertical Compressive Strain at Top of Subgrade (microstrain)	+285	+285	-280	+370*	+370	-363	+276	+276	-270	+352	+352	-345

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 242 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	710	710	699	844	845	831	702	702	691	858*	859	832
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-213	-213	+209	+37	+37	-36	-248*	-248	+246
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-101	-101	+99	-172*	-171	+168	-94	-91	+89	-159	-158	+155
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-142	-142	+139	-142*	-142	+140	-135	-134	+131	-135	-132	+130
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-156*	-156	+153	-155	-154	+152	-149	-148	+145	-146	-144	+142
Vertical Compressive Strain at Top of Subgrade (microstrain)	+275	+185	-269	+325*	+221	-319	+266	+179	-261	+311	+212	-305

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 243 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	688	688	677	824	825	811	680	680	669	839*	840	812
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-212	-212	+209	+37	+37	-36	-248*	-248	+246
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-97	-97	+95	-170*	-169	+166	-90	-87	+85	-157	-156	+153
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-125	-125	+123	-126*	-126	+124	-120	-118	+116	-120	-117	+115
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-142*	-142	+139	-137	-137	+134	-136	-135	+132	-131	-129	+127
Vertical Compressive Strain at Top of Subgrade (microstrain)	+260	+176	-255	+285*	+194	-279	+252	+170	-247	+274	+187	-269

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 244 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	669	669	658	806	807	794	661	661	650	821*	822	795
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-212	-212	+209	+37	+37	-36	-248*	-248	+246
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-94	-94	+92	-168*	-167	+164	-87	-84	+82	-155	-155	+152
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-114	-114	+112	-117*	-116	+114	-110	-107	+105	-111	-108	+106
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-128*	-128	+126	-122	-122	+119	-123	-123	+120	-117	-116	+114
Vertical Compressive Strain at Top of Subgrade (microstrain)	+243	+165	-238	+252*	+172	-247	+237	+160	-232	+244	+166	-240

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 245 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	651	651	640	790	791	778	643	643	633	805*	806	779
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-212	-212	+209	+37	+37	-36	-248*	-248	+246
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-92	-92	+90	-167*	-166	+163	-84	-82	+80	-154	-153	+150
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-107	-107	+105	-110*	-110	+108	-103	-101	+99	-105	-102	+99
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-116*	-116	+114	-109	-109	+107	-112	-111	+109	-105	-104	+102
Vertical Compressive Strain at Top of Subgrade (microstrain)	+226*	+154	-222	+226	+153	-221	+221	+150	-217	+219	+149	-215

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 246 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	699	699	688	834	835	821	691	691	680	848*	849	822
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-212	-212	+209	+37	+37	-37	-248*	-248	+246
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-98	-98	+96	-170*	-170	+167	-91	-88	+87	-158	-157	+154
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-150*	-150	+147	-149	-148	+146	-143	-142	+139	-140	-139	+136
Vertical Compressive Strain at Top of Subgrade (microstrain)	+268	+268	-262	+317*	+316	-310	+259	+259	-254	+303	+303	-297

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 247 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	678	678	667	815	815	802	670	670	660	830*	831	803
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-212	-212	+209	+37	+37	-37	-248*	-248	+246
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-94	-94	+92	-168*	-168	+165	-87	-84	+83	-156	-155	+152
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-128*	-128	+125	-125	-125	+122	-122	-121	+119	-119	-117	+115
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-140*	-140	+137	-135	-135	+132	-134	-133	+130	-129	-127	+125
Vertical Compressive Strain at Top of Subgrade (microstrain)	+255	+172	-250	+282*	+192	-276	+248	+167	-243	+271	+184	-266

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 248 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	659	659	648	797	798	785	651	651	641	813*	813	787
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-212	-212	+209	+37	+37	-37	-248*	-248	+246
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-91	-91	+90	-167*	-166	+163	-84	-82	+80	-154	-154	+151
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-113*	-113	+111	-111	-111	+109	-109	-107	+105	-106	-104	+102
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-127*	-127	+125	-121	-121	+118	-122	-121	+119	-116	-115	+113
Vertical Compressive Strain at Top of Subgrade (microstrain)	+240	+163	-236	+250*	+170	-245	+234	+158	-229	+242	+165	-238

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 249 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	642	642	631	782	782	770	634	634	624	797*	798	771
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-212	-212	+209	+37	+37	-37	-248*	-248	+246
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-89	-89	+87	-166*	-165	+162	-82	-79	+78	-153	-152	+149
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-104*	-104	+102	-102	-102	+100	-100	-98	+96	-98	-96	+94
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-115*	-115	+113	-108	-108	+106	-111	-111	+108	-104	-104	+102
Vertical Compressive Strain at Top of Subgrade (microstrain)	+224	+152	-220	+224*	+152	-219	+219	+148	-214	+217	+148	-213

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 250 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	626	626	616	767	768	756	619	619	609	783*	784	757	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-212	-212	+209	+37	+37	-36	-248*	-248	+246	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-87	-88	+86	-165*	-164	+161	-81	-78	+76	-152	-151	+148	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-97*	-97	+95	-97	-97	+95	-94	-92	+90	-93	-90	+89	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-104*	-104	+102	-97	-127	+96	-101	-101	+99	-94	-94	+92	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+208*	+142	-204	+202	+137	-198	+204	+138	-200	+196	+134	-193	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 251 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	1008	1008	990	1118*	1118	1100	990	990	972	1115	1115	1080		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+65	+65	-63	-235	-235	+231	+58	-66	-57	-240*	-240	+236		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-179	-179	+175	-297*	-297	+292	-162	-160	+157	-282	-280	+275		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-263	-263	+258	-340*	-340	+333	-239	-237	+233	-324	-315	+309		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+352	+351	-345	+880*	+880	-863	+332	+332	-325	+821	+821	-805		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 252 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	964	964	947	1068*	1068	1050	948	948	931	1067	1067	1030		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+61	+61	-60	-225	-225	+221	+55	+55	-54	-231*	-231	+227		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-153	-153	+150	-274*	-274	+269	-139	-137	+135	-259	-258	+254		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-214	-214	+210	-267*	-267	+262	-198	-194	+191	-257	-244	+239		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-263	-263	+258	-309*	-309	+303	-244	-241	+236	-284	-277	+272		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+374	+240	-367	+726*	+492	-713	+355	+228	-348	+675	+456	-662		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 253 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	921	921	905	1025	1025	1010	906	906	890	1025*	1026	989
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+61	+61	-60	-220	-220	+216	+55	+55	-54	-225*	-225	+222
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-135	-135	+132	-264*	-264	+259	-123	-121	+118	-249	-248	+244
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-181	-181	+177	-233*	-233	+228	-170	-164	+161	-228	-217	+213
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-245	-245	+240	-267*	-267	+262	-229	-226	+222	-246	-241	+237
Vertical Compressive Strain at Top of Subgrade (microstrain)	+375	+246	-368	+598*	+405	-586	+358	+234	-351	+559	+378	-549

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 254 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	881	881	866	987	987	970	867	867	852	989*	989	953
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+62	+62	-61	-217	-217	+213	+56	+56	-55	-222*	-222	+219
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-122	-122	+120	-258*	-258	+254	-112	-109	+107	-243	-243	+239
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-160	-160	+157	-224*	-222	+218	-152	-145	+142	-212	-208	+204
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-223	-223	+219	-230*	-230	+226	-210	-208	+204	-215	-211	+207
Vertical Compressive Strain at Top of Subgrade (microstrain)	+364	+241	-357	+500*	+339	-491	+349	+231	-342	+473	+320	-464

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 255 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	845	845	831	955	955	939	832	832	818	957*	958	922
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+63	+63	-62	-215	-215	+211	+57	+57	-56	-220*	-220	+217
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-114	-114	+112	-255*	-255	+250	-104	-101	+99	-240	-239	+235
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-147	-147	+144	-219*	-218	+214	-141	-133	+130	-205	-203	+199
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-201*	-201	+197	-200	-200	+196	-190	-189	+185	-188	-185	+182
Vertical Compressive Strain at Top of Subgrade (microstrain)	+346	+231	-339	+426*	+289	-418	+333	+222	-327	+406	+275	-398

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 256 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	946	946	929	1046	1046	1030	930	930	914	1047*	1047	1010	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+59	+59	-58	-221	-220	+217	+53	+53	+50	-226*	-226	+223	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-141	-141	+138	-263*	-262	+258	-129	-126	+124	-248	-247	+243	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-253	-253	+248	-298*	-297	+292	-233	-231	+227	-272	-266	+261	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+363	+363	-356	+708*	+708	-694	+346	+346	-339	+657	+657	-645	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 257 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	904	904	888	1004	1005	987	890	890	875	1006*	1006	970	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+59	+59	-58	-215	-215	+212	+53	+53	-52	-221*	-221	+218	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-124	-124	+121	-253*	-253	+248	-114	-111	+109	-239	-238	+234	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-205	-205	+201	-235*	-235	+231	-192	-188	+185	-220	-212	+208	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-241	-241	+237	-265*	-265	+260	-225	-223	+218	-244	-239	+235	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+365	+239	-358	+593*	+402	-582	+349	+228	-342	+555	+375	-544	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 258 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	865	865	850	968	968	951	852	852	838	971*	971	935	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+60	+60	-59	-212	-212	+209	+54	+54	-53	-218*	-218	+215	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-112	-112	+110	-248*	-248	+243	-104	-100	+98	-234	-233	+229	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-175	-175	+171	-205*	-205	+201	-165	-160	+157	-194	-184	+181	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-221	-221	+216	-229*	-229	+225	-207	-205	+201	-213	-210	+206	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+356	+236	-349	+497*	+337	-487	+342	+226	-335	+469	+318	-460	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 259 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	830	830	816	936	936	920	818	818	804	940*	940	904
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+61	+61	-60	-210	-210	+207	+55	+55	-55	-216*	-216	+213
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-104	-104	+102	-245*	-244	+240	-96	-93	+91	-230	-230	+226
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-156	-156	+153	-188*	-188	+185	-148	-143	+140	-179	-168	+165
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-199*	-199	+195	-199	-199	+195	-188	-187	+183	-187	-184	+181
Vertical Compressive Strain at Top of Subgrade (microstrain)	+340	+227	-333	+423*	+287	-415	+327.0	+218	-321	+403	+273	-395

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 260 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	799	799	786	908	909	893	788	788	775	912*	913	878
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+62	+62	-61	-209	-209	+205	+57	+57	-56	-215*	-215	+212
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-99	-99	+97	-242	-242	+238	-91	-87	+86	-228*	-227	+223
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-144	-144	+141	-178*	-178	+175	-138	-131	+129	-169	-159	+156
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-179	-179	+176	-174*	-174	+170	-170	-169	+166	-165	-163	+160
Vertical Compressive Strain at Top of Subgrade (microstrain)	+320	+215	-313	+365*	+248	-358	+309	+207	-303	+350	+237	-343

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 261 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	886	886	871	986	986	970	872	872	858	989*	989	953
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+59	+59	-58	-213	-213	+209	+53	+53	-52	-219*	-219	+216
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-116	-116	+114	-249*	-248	+244	-107	-104	+102	-234	-234	+230
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-231	-230	+226	-254*	-254	+249	-214	-213	+209	-233	-229	+225
Vertical Compressive Strain at Top of Subgrade (microstrain)	+354	+354	-347	+577*	+577	-566	+338	+338	-331	+539	+539	-529

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 262 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	849	849	835	951	951	935	836	836	822	955*	955	919
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+60	+60	-59	-210	-210	+206	+54	+54	-53	-216*	-216	+213
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-105	-105	+103	-244	-244	+239	-98	-94	+92	-230*	-229	+225
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-189	-189	+185	-203*	-203	+199	-178	-175	+172	-190	-185	+181
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-217	-217	+212	-226*	-226	+222	-203	-202	+198	-211	-207	+203
Vertical Compressive Strain at Top of Subgrade (microstrain)	+347	+230	-340	+492*	+334	-483	+333	+220	-326	+464	+314	-455

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 263 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	815	815	802	920	920	905	803	803	790	924*	925	890
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+61	+61	-60	-208	-208	+205	+55	+55	-54	-214*	-214	+211
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-98	-98	+96	-241*	-240	+236	-91	-86	+85	-226	-226	+222
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-162	-162	+159	-177*	-177	+174	-154	-150	+148	-168	-161	+158
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-197	-197	+193	-197*	-197	+193	-186	-185	+181	-186	-161	+179
Vertical Compressive Strain at Top of Subgrade (microstrain)	+333	+223	-326	+420*	+285	-411	+321	+214	-314	+399	+271	-391

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 264 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	785	785	772	893	893	878	774	774	761	898*	898	863
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+62	+62	-61	-207	-207	+203	+56	+56	-55	-213*	-213	+210
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-92	-92	+91	-239*	-238	+234	-86	-82	+80	-224	-224	+220
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-146	-146	+143	-163*	-163	+160	-139	-135	+132	-154	-147	+144
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-177*	-177	+174	-173	-173	+169	-169	-167	+164	-164	-162	+158
Vertical Compressive Strain at Top of Subgrade (microstrain)	+314	+211	-308	+362*	+246	-355	+304	+204	-298	+347	+235	-340

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 265 / Truck				Stress Load = 690 kPa				Contact Radius = 11 cm				
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)		Position (3)		Position (4)		Position (5)		Position (6)	
Surface Deflection (micron)	758	758	746	869	869	855	748	748	735	874*	875	840
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+63	+63	-62	-206	-206	+202	+57	+57	-56	-212*	-212	+209
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-89	-89	+87	-237*	-236	+232	-82	-78	+77	-222	-222	+218
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-136	-136	+133	-154*	-154	+151	-130	-125	+123	-146	-138	+136
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-159*	-159	+156	-152	-152	+149	-152	-151	+148	-145	-144	+141
Vertical Compressive Strain at Top of Subgrade (microstrain)	+294	+198	-288	+317*	+215	-310	+285	+192	-279	+305	+207	-299

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 266 / Truck				Stress Load = 690 kPa				Contact Radius = 11 cm				
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)		Position (3)		Position (4)		Position (5)		Position (6)	
Surface Deflection (micron)	833	833	819	936	936	920	821	821	807	940*	940	905
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+60	+60	-59	-209	-209	+205	+55	+55	-54	-215*	-214	+212
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-100	-100	+98	-242*	-241	+237	-93	-89	+87	-227	-227	+223
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-207	-207	+203	-216*	-216	+212	-194	-193	+189	-201	-198	+194
Vertical Compressive Strain at Top of Subgrade (microstrain)	+336	+336	-330	+478*	+478	-469	+323	+323	-316	+451	+451	-442

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 267 / Truck				Stress Load = 690 kPa				Contact Radius = 11 cm				
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)		Position (3)		Position (4)		Position (5)		Position (6)	
Surface Deflection (micron)	801	801	787	906	906	891	789	789	776	911*	911	876
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+61	+61	-60	-207	-207	+203	+55	+55	-55	-213*	-213	+210
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-93	-93	+91	-239*	-238	+234	-87	-82	+81	-224	-224	+220
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-171	-171	+168	-176*	-176	+172	-162	-160	+157	-166	-162	+159
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-193	-193	+190	-194*	-194	+191	-183	-181	+178	-183	-180	+177
Vertical Compressive Strain at Top of Subgrade (microstrain)	+326	+217	-319	+415*	+282	-407	+313	+209	-307	+394	+267	-387

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 268 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	772	772	759	880	880	865	761	761	748	885*	885	851
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+62	+62	-61	-205	-205	+202	+56	+56	-55	-212*	-211	+209
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-88	-88	+86	-237*	-236	+232	-82	-77	+76	-222	-222	+218
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-149	-149	+146	-154*	-154	+151	-142	-139	+136	-146	-142	+139
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-176*	-176	+172	-171	-171	+168	-167	-166	+162	-163	-160	+157
Vertical Compressive Strain at Top of Subgrade (microstrain)	+309	+208	-303	+359*	+244	-352	+299	+201	-293	+344	+233	-337

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 269 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	746	746	733	856	857	842	735	735	842	862*	862	828
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+63	+63	-62	-205	-205	+201	+57	+57	+31	-211*	-211	+208
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-85	-85	+83	-235*	-235	+230	-78	-74	+142	-220	-220	+216
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-134	-134	+132	-141*	-141	+139	-129	-125	+139	-135	-130	+127
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-158*	-158	+155	-151	-151	+148	-151	-150	+148	-144	-143	+140
Vertical Compressive Strain at Top of Subgrade (microstrain)	+290	+196	-284	+314*	+213	-308	+281	+189	-308	+302	+205	-297

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 270 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	722	722	711	836	836	822	712	712	701	841*	842	808
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+63	+63	-62	-204	-204	+200	+58	+58	-57	-210*	-210	+207
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-82	-82	+80	-234*	-233	+229	-76	-72	+70	-219	-219	+215
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-125	-125	+123	-134*	-133	+131	-120	-117	+114	-127	-122	+119
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-142*	-142	+140	-134	-134	+132	-137	-136	+133	-129	-128	+125
Vertical Compressive Strain at Top of Subgrade (microstrain)	+270	+183	-264	+278*	+189	-272	+262	+177	-257	+268	+182	-263

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 271 / Truck				Stress Load = 690 kPa				Contact Radius = 11 cm				
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)		Position (3)		Position (4)		Position (5)		Position (6)	
Surface Deflection (micron)	786	786	774	893	893	878	775	775	763	898*	898	864
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+62	+62	-60	-206	-206	+202	+56	+56	-55	-212*	-212	+209
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-90	-90	+88	-237*	-237	+233	-84	-79	+78	-223	-222	+218
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-185	-185	+182	-186*	-186	+183	-174	-174	+170	-175	-172	+169
Vertical Compressive Strain at Top of Subgrade (microstrain)	+316	+316	-310	+403*	+403	-395	+305	+305	-299	+383	+383	-376

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 272 / Truck				Stress Load = 690 kPa				Contact Radius = 11 cm				
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)		Position (3)		Position (4)		Position (5)		Position (6)	
Surface Deflection (micron)	759	759	746	868	868	853	748	748	736	873*	874	839
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+62	+62	-61	-205	-205	+201	+57	+57	-56	-211*	-211	+208
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-85	-85	+83	-235*	-235	+231	-79	-75	+73	-221	-220	+217
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-155*	-155	+152	-153	-153	+150	-147	-145	+143	-146	-143	+140
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-172*	-172	+169	-169	-169	+165	-164	-163	+159	-160	-158	+155
Vertical Compressive Strain at Top of Subgrade (microstrain)	+303	+204	-297	+355*	+241	-348	+293	+196	-287	+339	+230	-333

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 273 / Truck				Stress Load = 690 kPa				Contact Radius = 11 cm				
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)		Position (3)		Position (4)		Position (5)		Position (6)	
Surface Deflection (micron)	733	733	721	845	845	831	723	723	711	851*	851	883
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+63	+63	-62	-204	-204	+200	+58	+58	-57	-210*	-210	+186
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-82	-82	+80	-234*	-233	+229	-76	-71	+60	-219	-219	+178
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-135*	-135	+133	-135	-135	+132	-130	-127	+125	-129	-126	+129
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-157*	-157	+154	-150	-150	+147	-150	-149	+146	-143	-141	+144
Vertical Compressive Strain at Top of Subgrade (microstrain)	+286	+193	-280	+311*	+211	-305	+277	+187	-272	+299	+203	-306

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 274 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	711	711	699	825	825	811	701	701	690	831*	831	798
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+64	+64	+63	-203	-203	+200	+58	+58	-57	-209*	-209	+206
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-79	-79	+78	-232*	-232	+228	-73	-69	+68	-218	-218	+214
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-123	-123	+120	-124*	-124	+121	-118	-115	+113	-119	-115	+113
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-141*	-141	+139	-133	-133	+131	-136	-135	+132	-128	-127	+124
Vertical Compressive Strain at Top of Subgrade (microstrain)	+267	+180	-261	+275*	+187	-270	+259	+175	-254	+266	+181	-261

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 275 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	691	691	679	807	807	793	681	681	671	813*	814	780
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+64	+64	-63	-203	-203	+199	+59	+59	-58	-209*	-209	+206
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-77	-77	+76	-231*	-231	+227	-72	-67	+66	-217	-217	+213
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-115	-115	+113	-117*	-117	+115	-111	-108	+106	-112	-108	+106
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-127	-127	+125	-119*	-119	+117	-123	-122	+120	-115	-114	+112
Vertical Compressive Strain at Top of Subgrade (microstrain)	+247*	+168	-243	+246	+167	-241	+241	+163	-236	+238	+162	-234

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 276 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	961	961	945	1053	1053	1040	946	946	929	1054*	1054	1020
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+53	+53	-52	-212	-212	+209	+48	+48	-47	-219*	-219	+216
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-183	-183	+180	-253*	-253	+248	-167	-166	+163	-242	-237	+233
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-251	-251	+247	-311*	-311	+305	-230	-229	+224	-288	-280	+275
Vertical Compressive Strain at Top of Subgrade (microstrain)	+353	+353	-346	+767*	+767	-753	+335	+335	-329	+713	+713	-700

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 277 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	920	920	904	1010	1010	993	906	906	890	1012*	1012	976
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+52	+52	-51	-206	-206	+202	+47	+47	-46	-213*	-213	+210
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-158	-158	+155	-233*	-233	+229	-145	-143	+140	-221	-218	+214
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-207	-207	+203	-248*	-248	+243	-192	-189	+185	-234	-224	+220
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-246	-246	+241	-280*	-280	+274	-229	-226	+222	-257	-251	+247
Vertical Compressive Strain at Top of Subgrade (microstrain)	+365	+237	-358	+638*	+433	-626	+348	+226	-341	+595	+402	-583

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 278 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	880	880	865	971	971	955	867	867	852	975*	975	939
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+53	+53	-52	-202	-202	+199	+48	+48	-47	-209*	-209	+206
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-141	-141	+138	-224*	-224	+220	-129	-127	+125	-211	-209	+206
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-177	-177	+174	-218*	-218	+214	-167	-162	+159	-209	-197	+193
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-227	-227	+223	-241*	-241	+236	-213	-211	+207	-224	-220	+215
Vertical Compressive Strain at Top of Subgrade (microstrain)	+360	+238	-353	+530*	+359	-519	+345	+227	-339	+498	+337	-488

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 279 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	844	844	830	938	938	922	831	831	818	942*	943	907
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+54	+54	-53	-200	-200	+197	+49	+49	-48	-207*	-207	+204
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-129	-129	+127	-220*	-220	+215	-119	-116	+114	-206	-205	+201
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-158	-158	+155	-201*	-201	+197	-150	-144	+142	-193	-181	+178
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-206	-206	+202	-208*	-208	+204	-194	-192	+189	-195	-192	+189
Vertical Compressive Strain at Top of Subgrade (microstrain)	+346	+230	-339	+447*	+303	-439	+333	+221	-326	+425	+287	-416

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 280 / Truck		Stress Load = 690 kPa						Contact Radius = 11cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	812	812	798	909	909	894	800	800	787	914*	914	879	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+55	+55	-54	-199	-199	+195	+50	+50	-49	-205*	-205	+203	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-121	-121	+119	-216*	-216	+212	-111	-109	+107	-202	-201	+198	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-146	-146	+143	-191*	-191	+188	-140	-133	+130	-184	-175	+172	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-185*	-185	+182	-181	-181	+178	-176	-174	+171	-172	-169	+166	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+327	+219	-321	+384*	+260	-377	+316	+211	-310	+367	+249	-360	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 281 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	902	902	887	990	991	974	888	888	873	994*	994	958	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+51	+51	-51	-203	-203	+199	+46	+46	-46	-210*	-210	+207	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-146	-146	+143	-223*	-223	+219	-135	-132	+130	-211	-209	+205	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-236	-236	+232	-269*	-269	+264	-219	-218	+213	-246	-242	+237	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+354	+354	-347	+622*	+622	-610	+338	+338	-331	+580	+580	-569	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 282 / Truck		Stress Load = 690 kPa						Contact Radius = 11cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	864	864	849	954	954	937	851	851	837	958*	958	922	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+52	+52	-51	-199	-199	+196	+47	+47	-46	-206*	-206	+203	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-130	-130	+127	-215*	-215	+211	-120	-117	+115	-202	-201	+197	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-194	-194	+190	-216*	-215	+211	-182	-179	+176	-202	-195	+191	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-224	-223	+219	-239*	-239	+235	-209	-207	+203	-222	-218	+213	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+351	+232	-344	+526*	+357	-516	+336	+222	-330	+494	+335	-485	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 283 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	828	828	815	921	921	905	817	817	803	926*	926	891
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+53	+53	-52	-197	-197	+194	+48	+48	-47	-204*	-204	+201
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-119	-119	+117	-211*	-210	+206	-110	-107	+105	-197	-196	+193
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-167	-167	+164	-189*	-189	+185	-158	-154	+151	-179	-171	+167
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-204	-204	+200	-207*	-207	+203	-192	-190	+187	-194	-191	+188
Vertical Compressive Strain at Top of Subgrade (microstrain)	+339	+226	-332	+444*	+302	-436	+326	+217	-320	+422	+286	-413

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 284 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	797	797	784	892	893	877	786	786	773	898*	899	864
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+54	+54	-53	-196	-196	+192	+49	+49	-48	-203*	-203	+200
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-111	-111	+109	-208*	-207	+203	-103	-100	+98	-194	-193	+190
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-150	-150	+147	-174*	-174	+171	-143	-138	+136	-165	-156	+153
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-183*	-183	+180	-181	-181	+177	-174	-173	+169	-171	-168	+165
Vertical Compressive Strain at Top of Subgrade (microstrain)	+321	+215	-315	+381*	+259	-374	+310	+208	-304	+364	+247	-357

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 285 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	769	769	756	867	868	853	758	758	746	873*	874	839
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+55	+55	-540	-195	-195	+191	+50	+50	-49	-202*	-202	+199
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-106	-106	+104	-205*	-205	+201	-98	-95	+93	-191	-191	+187
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-139	-139	+137	-165*	-165	+162	-133	-128	+126	-156	-148	+145
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-165*	-165	+162	-159	-158	+155	-157	-156	+153	-151	-149	+146
Vertical Compressive Strain at Top of Subgrade (microstrain)	+301	+203	-295	+331*	+225	-325	+292	+196	-286	+319	+216	-313

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 286 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm			
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	847	847	833	937	937	912	835	835	821	942*	942	907
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+52	+52	-51	-198	-198	+194	+47	+47	-47	-205*	-205	+202
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-122	-122	+120	-211*	-211	+207	-113	-110	+108	-198	-197	+193
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-214	-214	+210	-229*	-229	+225	-200	-199	+195	-212	-209	+205
Vertical Compressive Strain at Top of Subgrade (microstrain)	+340	+340	-333	+511*	+511	-502	+326	+326	-320	+481	+480	-471

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 287 / Truck			Stress Load = 690 kPa						Contact Radius = 11cm			
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	813	813	800	906	906	891	802	802	789	912*	912	877
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+53	+53	-52	-196	-195	+192	+48	+48	-47	-203*	-203	+200
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-112	-112	+110	-207*	-207	+203	-104	-104	+99	-193	-193	+189
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-177	-177	+173	-186*	-186	+182	-167	-165	+162	-175	-170	+167
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-200	-200	+196	-205*	-205	+201	-189	-187	+183	-192	-189	+185
Vertical Compressive Strain at Top of Subgrade (microstrain)	+331	+220	-324	+440*	+299	-432	+318	+212	-312	+417	+283	-409

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 288 / Truck			Stress Load = 690 kPa						Contact Radius = 11cm			
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	783	783	770	878	878	863	772	772	760	884*	885	850
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+54	+54	-53	-194	-194	+191	+49	+49	-48	-201*	-201	+199
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-105	-105	+103	-204*	-204	+200	-97	-94	+92	-190	-190	+186
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-153	-153	+150	-163*	-163	+160	-146	-143	+140	-155	-149	+146
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-182*	-182	+178	-179	-179	+176	-172	-171	+168	-170	-167	+164
Vertical Compressive Strain at Top of Subgrade (microstrain)	+315	+212	-309	+378*	+257	-371	+304	+204	-299	+361	+245	-354

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 289 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	755	755	743	854	854	839	745	745	733	860*	861	826
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+55	+55	-54	-193	-193	+190	+50	+50	-49	-200*	-200	+198
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-100	-100	+98	-202*	-201	+198	-92	-89	+87	-188	-187	+184
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-139	-139	+136	-150*	-150	+147	-133	-129	+126	-142	-137	+134
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-164*	-163	+160	-158	-158	+155	-156	-155	+152	-150	-148	+146
Vertical Compressive Strain at Top of Subgrade (microstrain)	+296	+200	-291	+329*	+223	-322	+287	+193	-282	+316	+215	-310

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 290 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	731	731	719	832	832	818	722	722	710	839*	839	806
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+56	+56	-55	-192	-192	+189	+51	+51	-50	-200*	-200	+197
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-96	-96	+94	-200*	-200	+196	-89	-85	+84	-186	-186	+182
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-129	-129	+127	-142*	-142	+139	-124	-120	+118	-135	-129	+126
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-147*	-147	+144	-140	-139	+137	-141	-140	+137	-134	-132	+130
Vertical Compressive Strain at Top of Subgrade (microstrain)	+276	+187	-271	+289*	+197	-284	+269	+181	-263	+280	+190	-274

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 291 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	799	799	786	892	892	877	788	788	775	898*	899	864
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+54	+54	-53	-194	-194	+191	+49	+49	-48	-202*	-202	+199
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-107	-107	+105	-205*	-205	+201	-99	-96	+94	-191	-190	+187
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-192	-192	+188	-196*	-196	+193	-180	-179	+176	-183	-181	+177
Vertical Compressive Strain at Top of Subgrade (microstrain)	+321	+321	-315	+428*	+428	-420	+309	+309	-303	+406	+405	-398

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 292 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	769	769	757	866	866	851	759	759	747	872*	873	838
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+55	+55	-54	-193	-193	+190	+50	+50	-49	-200*	-200	+198
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-100	-100	+98	-202*	-202	+198	-93	-90	+88	-188	-188	+184
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-160	-160	+157	-161*	-161	+158	-152	-150	+147	-153	-149	+147
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-178*	-178	+175	-177	-177	+173	-169	-168	+165	-167	-165	+162
Vertical Compressive Strain at Top of Subgrade (microstrain)	+309	+207	-303	+374*	+254	-367	+298	+200	-292	+357	+242	-350

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 293 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	743	743	731	842	842	827	733	773	721	848*	849	815
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+55	+55	-54	-192	-192	+189	+50	+50	-50	-199*	-199	+197
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-95	-95	+94	-200*	-200	+196	-89	-85	+83	-186	-186	+182
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-140	-140	+137	-142*	-142	+139	-134	-131	+129	-135	-131	+129
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-162*	-162	+159	-156	-156	+153	-154	-153	+150	-149	-147	+144
Vertical Compressive Strain at Top of Subgrade (microstrain)	+292	+197	-286	+326*	+222	-320	+283	+190	-277	+313	+213	-307

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 294 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	719	719	708	820	821	807	710	710	698	828*	828	795
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+56	+56	-55	-192	-192	+188	+51	+51	-50	-199*	-199	+196
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-92	-92	+90	-199*	-198	+195	-85	-82	+80	-185	-184	+181
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-127	-127	+124	-131*	-130	+128	-122	-119	+117	-125	-120	+118
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-146*	-146	+143	-139	-139	+136	-140	-139	+136	-133	-131	+129
Vertical Compressive Strain at Top of Subgrade (microstrain)	+273	+185	-268	+287*	+195	-281	+265	+179	-260	+277	+188	-272

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 295 / Truck				Stress Load = 690 kPa				Contact Radius = 11cm				
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)		Position (3)		Position (4)		Position (5)		Position (6)	
Surface Deflection (micron)	698	698	687	801	802	788	689	689	678	809*	810	776
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+57	+57	-56	-191	-191	+188	+52	+52	-51	-198*	-198	+196
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-90	-90	+88	-197*	-197	+193	-83	-79	+78	-183	-183	+179
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-119	-119	+116	-123*	-123	+121	-114	-111	+109	-118	-113	+111
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-132*	-132	+129	-124	-124	+121	-127	-126	+124	-119	-118	+116
Vertical Compressive Strain at Top of Subgrade (microstrain)	+254	+172	-249	+255*	+174	-250	+247	+167	-242	+247	+168	-243

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 296 / Truck				Stress Load = 690 kPa				Contact Radius = 11 cm				
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)		Position (3)		Position (4)		Position (5)		Position (6)	
Surface Deflection (micron)	756	756	744	854	854	839	746	746	734	860*	861	827
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+55	+55	-54	-192	-192	+189	+50	+50	-49	-200*	-200	+197
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-97	-97	+95	-201*	-200	+197	-90	-86	+85	-187	-186	+183
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-171*	-171*	+168	-170	-170	+166	-162	-161	+158	-160	-158	+155
Vertical Compressive Strain at Top of Subgrade (microstrain)	+300	+300	-294	+364*	+363	-356	+290	+290	-287	+347	+347	-340

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 297 / Truck				Stress Load = 690 kPa				Contact Radius = 11cm				
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)		Position (3)		Position (4)		Position (5)		Position (6)	
Surface Deflection (micron)	731	731	719	831	831	817	721	721	710	838*	839	805
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+56	+56	-55	-192	-192	+188	+51	+51	-50	-199*	-199	+196
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-93	-93	+91	-199*	-199	+195	-86	-82	+81	-185	-184	+181
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-144*	-144	+141	-141	-141	+138	-137	-136	+133	-134	-132	+130
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-159*	-159	+156	-154	-154	+151	-152	-151	+148	-147	-145	+142
Vertical Compressive Strain at Top of Subgrade (microstrain)	+287	+193	-281	+322*	+219	-316	+277	+187	-272	+309	+210	-303

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 298 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	708	708	697	810	810	796	699	699	688	817*	818	785
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+56	+56	-55	-191	-191	+188	+51	+51	-51	-198*	-198	+195
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-89	-89	+88	-197*	-197	+193	-83	-79	+77	-183	-142	+180
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-127*	-127	+124	-125	-125	+122	-122	-120	+117	-119	-117	+115
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-145*	-145	+142	-138	-137	+135	-139	-138	+135	-132	-130	+128
Vertical Compressive Strain at Top of Subgrade (microstrain)	+269	+182	-264	+285*	+194	-279	+262	+177	-257	+275	+187	-269

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 299 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	688	688	676	791	792	778	679	679	668	799*	800	767
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+57	+57	-56	-191	-190	+187	+52	+52	-51	-198*	-198	+195
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-87	-87	+85	-196*	-196	+192	-80	-77	+75	-182	-182	+178
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-115*	-115	+113	-115	-114	+112	-111	-109	+107	-110	-107	+105
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-131*	-131	+128	-123	-123	+120	-126	-125	+123	-118	-117	+115
Vertical Compressive Strain at Top of Subgrade (microstrain)	+251	+170	-246	+253*	+172	-248	+244	+166	-240	+245	+167	-241

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 300 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	669	669	658	775	775	762	660	660	650	783*	784	751
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+57	+57	-56	-190	-190	+187	+52	+52	-51	-197*	-197	+195
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-85	-85	+84	-195*	-195	+191	-78	-25	+73	-181	-181	+177
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-108*	-108	+106	-108	-108	+106	-104	-102	+100	-104	-101	+99
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-118*	-118	+116	-110	-110	+108	-114	-114	+111	-107	-106	+104
Vertical Compressive Strain at Top of Subgrade (microstrain)	+233*	+158	-228	+227	+155	-223	+227	+154	-223	+221	+151	-217

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 301 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	914	914	899	996	996	979	901	901	885	1000*	1000	964
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+48	-47	-198	-198	+195	+43	+43	-42	-206*	-205	+203
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-180	-180	+176	-224*	-224	+220	-165	-164	+161	-214	-206	+202
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-236	-236	+231	-282*	-282	+277	-217	-216	+212	-258	-253	+248
Vertical Compressive Strain at Top of Subgrade (microstrain)	+344	+344	-337	+672*	+672	-659	+328	+328	-322	+625	+624	-613

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 302 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	876	876	862	958	958	942	864	864	849	963*	963	927
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+48	-47	-194	-194	+191	+43	+43	-42	-201*	-201	+199
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-156	-156	+153	-200*	-200	+196	-144	-143	+140	-194	-187	+183
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-196	-196	+192	-228*	-228	+223	-183	-180	+177	-213	-205	+201
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-228	-228	+224	-252*	-252	+248	-213	-211	+207	-233	-228	+224
Vertical Compressive Strain at Top of Subgrade (microstrain)	+349	+229	-343	+564*	+383	-554	+335	+219	-328	+528	+358	-518

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 303 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	840	840	826	924	924	908	828	828	815	930*	930	895
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+48	-48	-191	-191	+188	+44	+44	-43	-199*	-199	+196
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-141	-141	+138	-192*	-191	+188	-130	-128	+125	-182	-179	+176
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-170	-170	+166	-201*	-201	+197	-160	-156	+153	-191	-181	+178
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-209	-209	+205	-218*	-218	+214	-197	-195	+192	-204	-200	+196
Vertical Compressive Strain at Top of Subgrade (microstrain)	+342	+227	-335	+473*	+321	-464	+329	+218	-322	+447	+303	-438

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 304 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	807	807	794	894	894	879	796	796	783	901*	901	866
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+49	+49	-49	-190	-190	+186	+45	+45	-44	-197*	-197	+195
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-130	-130	+127	-187*	-187	+184	-120	-118	+116	-176	-174	+171
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-153	-153	+150	-186*	-186	+183	-145	-140	+138	-177	-167	+164
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-189*	-189	+186	-189	-189	+186	-179	-178	+175	-178	-176	+172
Vertical Compressive Strain at Top of Subgrade (microstrain)	+326	+218	-320	+403*	+273	-395	+315	+210	-309	+384	+260	-376

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 305 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	778	778	766	868	868	854	768	768	755	875*	876	841
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+50	+50	-50	-189	-188	+185	+46	+46	-45	-196*	-196	+193
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-123	-123	+120	-184*	-184	+180	-113	-111	+109	-173	-171	+168
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-142	-142	+139	-177*	-177	+174	-136	-130	+127	-168	-158	+155
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-170*	-170	+167	-166	-166	+162	-162	-161	+158	-158	-155	+152
Vertical Compressive Strain at Top of Subgrade (microstrain)	+307	+207	-301	+348*	+236	-341	+298	+200	-292	+334	+226	-328

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 306 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	859	859	845	941	941	925	847	847	834	947*	947	911
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+47	+47	-47	-192	-192	+188	+43	+43	-42	-199*	-199	+197
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-145	-145	+142	-191*	-191	+187	-134	-132	+130	-184	-178	+175
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-220	-219	+215	-243*	-243	+239	-204	-203	+199	-223	-220	+216
Vertical Compressive Strain at Top of Subgrade (microstrain)	+339	+339	-333	+551*	+551	-540	+325	+325	-319	+515	+515	-505

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 307 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	825	825	811	908	908	893	814	814	800	915*	915	880
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+48	-47	-189	-189	+186	+44	+44	-43	-197*	-197	+194
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-130	-130	+128	-184*	-184	+180	-121	-119	+116	-174	-171	+168
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-182	-182	+178	-197*	-197	+193	-171	-169	+166	-185	-179	+176
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-206	-206	+202	-217*	-217	+212	-194	-192	+189	-202	-198	+194
Vertical Compressive Strain at Top of Subgrade (microstrain)	+333	+221	-327	+469*	+319	-461	+321	+212	-314	+443	+301	-435

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 308 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	793	793	780	879	879	864	782	782	770	886*	887	852
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+49	+48	-48	-188	-188	+184	+45	+45	-44	-195*	-195	+193
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-120	-120	+118	-180*	-179	+176	-111	-109	+107	-169	-167	+164
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-158	-158	+155	-174*	-174	+170	-150	-147	+144	-164	-158	+155
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-188	-188	+184	-189*	-189	+185	-178	-176	+173	-178	-175	+172
Vertical Compressive Strain at Top of Subgrade (microstrain)	+320	+214	-314	+400*	+272	-392	+309	+206	-303	+381	+259	-374

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 309 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	764	764	752	854	854	839	754	754	742	861*	861	827
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+50	+50	-49	-187	-187	+183	+46	+46	-45	-194*	-194	+192
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-113	-113	+111	-177*	-176	+173	-105	-102	+100	-165	-164	+161
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-143	-143	+140	-160*	-160	+157	-136	-132	+130	-152	-145	+142
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-169*	-169	+166	-165	-165	+162	-161	-160	+157	-157	-155	+152
Vertical Compressive Strain at Top of Subgrade (microstrain)	+302	+203	-296	+346*	+235	-339	+293	+197	-287	+332	+225	-325

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 310 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	739	739	727	831	831	817	730	730	718	838*	839	805
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+51	+51	-50	-186	-186	+183	+46	+46	-46	-193*	-193	+191
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-108	-108	+106	-175*	-174	+171	-100	-97	+96	-163	-162	+159
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-133	-133	+131	-152*	-152	+149	-127	-123	+121	-144	-137	+134
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-152*	-152	+149	-145	-145	+142	-146	-145	+142	-139	-137	+135
Vertical Compressive Strain at Top of Subgrade (microstrain)	+283	+191	-277	+303*	+206	-297	+275	+185	-269	+292	+198	-286

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 311 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	809	809	796	894	894	879	799	799	786	901*	901	866
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+49	+49	-48	-188	-188	+185	+44	+44	-43	-196*	-196	+193
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-123	-123	+121	-181*	-180	+177	-114	-112	+110	-170	-168	+165
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-198	-198	+194	-208*	-208	+204	-185	-185	+181	-193	-190	+187
Vertical Compressive Strain at Top of Subgrade (microstrain)	+324	+323	-317	+457*	+457	-448	+311	+311	-305	+432	+431	-423

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 312 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	779	779	767	866	866	851	769	769	757	873*	874	839
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+50	+50	-49	-186	-186	+183	+45	+45	-44	-194*	-194	+192
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-114	-114	+111	-177*	-176	+173	-106	-103	+101	-165	-164	+161
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-165	-165	+162	-170*	-170	+167	-156	-155	+152	-161	-157	+154
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-185	-185	+181	-186*	-186	+183	-175	-173	+170	-175	-173	+169
Vertical Compressive Strain at Top of Subgrade (microstrain)	+313	+209	-307	+396*	+269	-389	+302	+202	-296	+377	+256	-370

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 313 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	751	751	739	841	841	827	742	742	730	849*	849	815
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+50	+50	-49	-185	-185	+182	+46	+46	-45	-193*	-193	+191
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-107	-107	+105	-174*	-173	+170	-99	-97	+95	-162	-161	+158
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-144	-144	+141	-150*	-150	+147	-138	-135	+132	-143	-138	+135
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-168*	-168	+164	-164	-164	+161	-160	-158	+155	-156	-154	+151
Vertical Compressive Strain at Top of Subgrade (microstrain)	+297	+200	-291	+343*	+233	-337	+288	+193	-282	+329	+223	-323

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 314 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	727	727	715	819	819	805	717	717	706	827*	827	794
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+51	+51	-50	-185	-185	+182	+47	+47	-46	-192*	-192	+190
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-102	-102	+100	-172*	-171	+168	-95	-92	+90	-160	-159	+156
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-131	-131	+128	-138*	-138	+136	-126	-122	+120	-132	-127	+124
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-151*	-151	+148	-145	-145	+142	-144	-144	+141	-138	-137	+134
Vertical Compressive Strain at Top of Subgrade (microstrain)	+279	+188	-273	+301*	+204	-295	+271	+183	-265	+290	+197	-284

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 315 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	705	705	693	799	799	785	696	696	685	807*	808	775
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+52	+52	-51	-184	-184	+181	+47	+47	-46	-192*	-192	+189
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-99	-99	+97	-170*	-169	+166	-91	-89	+87	-158	-157	+154
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-123	-123	+120	-131*	-131	+128	-118	-114	+112	-124	-120	+117
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-136*	-136	+133	-128	-128	+126	-131	-130	+127	-124	-122	+120
Vertical Compressive Strain at Top of Subgrade (microstrain)	+260	+176	-254	+266*	+181	-261	+253	+171	-248	+257	+175	-253

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 316 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	765	765	753	853	854	839	756	756	744	861*	862	827
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+50	+50	-49	-186	-186	+183	+45	+45	-45	-193*	-193	+191
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-109	-109	+107	-175*	-174	+171	-101	-98	+97	-163	-162	+159
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-177	-177	+174	-179*	-179	+175	-167	-166	+163	-168	-166	+163
Vertical Compressive Strain at Top of Subgrade (microstrain)	+304	+304	-298	+386*	+386	-378	+294	+294	-288	+367	+367	-360

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 317 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	739	739	727	829	830	815	730	730	718	837*	838	804
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+51	+51	-50	-185	-185	+182	+46	+46	-45	-192*	-192	+190
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-103	-103	+101	-172*	-172	+168	-96	-93	+91	-160	-159	+156
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-149*	-149	+146	-148	-148	+145	-142	-140	+138	-141	-138	+135
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-165*	-165	+162	-162	-162	+158	-157	-156	+153	-153	-151	+148
Vertical Compressive Strain at Top of Subgrade (microstrain)	+291	+196	-286	+339*	+231	-333	+282	+189	-277	+325	+221	-319

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 318 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	715	715	704	808	808	794	706	706	695	816*	817	783
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+51	+51	-51	-184	-184	+181	+47	+47	-46	-192*	-192	+189
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-98	-98	+96	-170*	-169	+166	-91	-88	+87	-158	-157	+154
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-131	-131	+128	-131*	-131	+128	-125	-123	+121	-125	-122	+120
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-150*	-150	+147	-144	-143	+141	-143	-142	+139	-137	-136	+133
Vertical Compressive Strain at Top of Subgrade (microstrain)	+275	+186	-269	+298*	+203	-292	+267	+180	-262	+287	+195	-282

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 319 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	693	693	682	788	789	775	685	685	674	797*	798	765
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+52	+52	-51	-184	-183	+180	+47	+47	-47	-191*	-191	+189
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-95	-95	+93	-168*	-168	+165	-88	-85	+83	-156	-156	+153
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-119	-119	+117	-121*	-121	+118	-115	-112	+110	-115	-112	+110
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-135*	-135	+132	-128	-128	+125	-130	-129	+127	-123	-122	+119
Vertical Compressive Strain at Top of Subgrade (microstrain)	+256	+174	-251	+264*	+174	-259	+250	+169	-245	+255	+174	-251

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 320 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	674	674	664	771	771	758	666	666	655	780*	781	748
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+52	+52	-51	-183	-183	+180	+48	+48	-47	-191*	-191	+188
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-93	-93	+91	-167*	-166	+163	-86	-83	+81	-155	-154	+152
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-112	-112	+110	-114*	-114	+112	-108	-105	+103	-109	-105	+103
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-122*	-122	+120	-114	-114	+112	-118	-117	+115	-110	-109	+107
Vertical Compressive Strain at Top of Subgrade (microstrain)	+238*	+162	-234	+236	+161	-231	+232	+158	-228	+229	+156	-225

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 321 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	727	727	716	819	819	805	718	718	707	827*	827	794
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+51	+51	-50	-184	-184	+181	+47	+47	-46	-192*	-192	+189
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-100	-100	+98	-171*	-170	+167	-93	-90	+88	-159	-158	+155
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-158*	-158	+155	-155	-155	+152	-150	-150	+147	-147	-145	+143
Vertical Compressive Strain at Top of Subgrade (microstrain)	+284	+284	-278	+330*	+330	-324	+275	+275	-269	+316	+316	-310

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 322 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)		Position (3)		Position (4)		Position (5)		Position (6)	
Surface Deflection (micron)	704	704	693	798	798	784	695	695	684	806*	807	774
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+52	+52	-51	-184	-184	+180	+47	+47	-46	-191*	-191	+189
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-96	-96	+94	-169*	-168	+165	-89	-86	+84	-157	-156	+153
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-134*	-134	+131	-130	-130	+128	-128	-127	+125	-124	-122	+120
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-147*	-147	+144	-141	-141	+139	-141	-140	+137	-135	-133	+131
Vertical Compressive Strain at Top of Subgrade (microstrain)	+270	+182	-265	+294*	+200	-289	+262	+177	-257	+283	+193	-278

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 323 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)		Position (3)		Position (4)		Position (5)		Position (6)	
Surface Deflection (micron)	683	683	672	779	779	766	675	675	664	788*	788	756
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+52	+52	-51	-183	-183	+180	+48	+48	-47	-191*	-191	+188
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-92	-92	+91	-167*	-167	+164	-86	-83	+81	-155	-155	+152
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-118*	-118	+116	-115	-115	+113	-114	-112	+110	-111	-108	+106
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-134*	-134	+131	-127	-127	+124	-129	-128	+125	-122	-121	+118
Vertical Compressive Strain at Top of Subgrade (microstrain)	+253	+172	-248	+262*	+178	-257	+247	+167	-242	+253	+172	-248

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 324 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)		Position (3)		Position (4)		Position (5)		Position (6)	
Surface Deflection (micron)	664	664	654	762	762	749	656	656	646	771*	772	739
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+53	+53	-52	-183	-183	+180	+48	+48	-47	-191*	-190	+188
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-90	-90	+88	-166*	-165	+162	-83	-80	+79	-154	-153	+151
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-108*	-108	+106	-106	-106	+104	-105	-103	+101	-102	-100	+98
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-121*	-121	+119	-114	-114	+111	-117	-116	+114	-110	-109	+107
Vertical Compressive Strain at Top of Subgrade (microstrain)	+236*	+160	-231	+234	+159	-230	+230	+156	-226	+227	+155	-223

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 325 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	648	648	637	746	747	734	639	639	629	756*	757	724
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+53	+53	-52	-183	-182	+179	+48	+48	-48	-190*	-190	+188
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-88	-88	+87	-165*	-164	+161	-81	-79	+77	-153	-152	+150
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-102*	-102	+100	-100	-100	+98	-98	-96	+94	-96	-94	+92
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-110*	-110	+108	-102	-102	+100	-106	-106	+104	-99	-98	+97
Vertical Compressive Strain at Top of Subgrade (microstrain)	+219*	+149	-214	+211	+144	-207	+214	+145	-210	+205	+140	-202

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 326 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	869	869	855	946	946	930	857	857	843	952*	952	916
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-189	-189	+186	+41	+41	-40	-197*	-197	+194
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-172	-172	+169	-208*	-208	+204	-159	-158	+155	-194	-188	+185
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-219	-219	+215	-255*	-255	+250	-203	-202	+198	-233	-228	+224
Vertical Compressive Strain at Top of Subgrade (microstrain)	+330	+330	-323	+592*	+592	-581	+316	+316	-310	+552	+551	-541

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 327 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	834	834	821	912	912	897	823	823	810	919*	920	884
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-45	-186	-186	+183	+41	+41	-40	-194*	-194	+191
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-151	-151	+148	-187*	-186	+183	-140	-139	+136	-175	-169	+166
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-184	-184	+181	-208*	-208	+204	-173	-170	+167	-194	-188	+184
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-211	-211	+207	-228*	-228	+224	-198	-196	+192	-211	-207	+203
Vertical Compressive Strain at Top of Subgrade (microstrain)	+332	+219	-325	+502*	+314	-493	+319	+210	-313	+472	+320	-463

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 328 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	802	802	789	882	882	867	791	792	779	890*	890	856
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+46	+46	-46	-184	-184	+181	+42	+42	-41	-192*	-192	+189
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-137	-137	+134	-174*	-174	+170	-127	-126	+123	-163	-157	+154
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-161	-161	+158	-185*	-185	+181	-152	-149	+146	-174	-166	+163
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-193	-193	+189	-198*	-198	+194	-182	-181	+177	-186	-183	+179
Vertical Compressive Strain at Top of Subgrade (microstrain)	+323	+215	-316	+425*	+289	-417	+311	+207	-305	+403	+273	-395

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 329 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	772	772	760	856	856	841	763	763	751	863*	864	830
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+47	+47	-46	-183	-183	+180	+43	+43	-42	-191*	-191	+188
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-127	-127	+125	-165*	-165	+162	-118	-116	+114	-156	-151	+148
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-146	-146	+143	-171*	-171	+168	-139	-134	+132	-162	-154	+151
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-174*	-174	+171	-173	-173	+169	-166	-165	+161	-163	-161	+158
Vertical Compressive Strain at Top of Subgrade (microstrain)	+307	+206	-301	+365*	+248	-358	+297	+199	-291	+349	+236	-342

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 330 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	746	746	734	832	832	818	737	737	725	840*	841	807
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+48	-47	-182	-182	+179	+44	+44	-43	-190*	-190	+187
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-121	-121	+118	-159*	-159	+156	-112	-110	+108	-151	-148	+145
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-136	-136	+134	-163*	-163	+160	-130	-125	+123	-154	-146	+143
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-157*	-157	+154	-152	-152	+149	-150	-149	+146	-145	-143	+140
Vertical Compressive Strain at Top of Subgrade (microstrain)	+288	+194	-283	+318*	+216	-311	+280	+188	-274	+306	+207	-300

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 331 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	819	819	806	897	897	882	808	808	795	905*	905	870
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+46	+28	-45	-184	-184	+181	+41	+41	-41	-192*	-192	+190
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-141	-141	+138	-176*	-176	+172	-131	-130	+127	-166	-159	+156
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-203	-203	+199	-220*	-220	+216	-190	-189	+185	-203	-200	+196
Vertical Compressive Strain at Top of Subgrade (microstrain)	+323	+323	-316	+490*	+490	-481	+310	+310	-304	+461	+461	-452

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 332 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	788	788	775	868	868	853	778	778	766	876*	877	842
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+46	+46	-46	-183	-183	+180	+42	+42	-41	-191*	-191	+188
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-128	-128	+125	-164*	-164	+161	-119	-117	+115	-155	-148	+146
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-170	-170	+167	-180*	-180	+177	-161	-159	+156	-169	-165	+162
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-191	-191	+187	-197*	-197	+193	-180	-178	+175	-184	-181	+177
Vertical Compressive Strain at Top of Subgrade (microstrain)	+315	+210	-309	+422*	+287	-414	+304	+202	-298	+400	+271	-392

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 333 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	759	759	747	842	842	828	750	750	738	850*	851	817
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+47	+47	-46	-181	-181	+178	+43	+43	-42	-189*	-189	+187
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-118	-118	+116	-156*	-156	+153	-110	108	+106	-148	-144	+142
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-149	-149	+146	-160*	-160	+156	-142	-139	+136	-151	-146	+143
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-173*	-173	+170	-172	-172	+169	-165	-163	+160	-163	-160	+157
Vertical Compressive Strain at Top of Subgrade (microstrain)	+302	+202	-296	+363*	+247	-356	+292	+196	-286	+347	+235	-340

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 334 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	733	733	722	819	819	805	724	724	713	827*	828	795
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+48	-47	-181	-181	+178	+44	+44	-43	-189*	-189	+186
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-112	-112	+110	-152*	-151	+149	-104	-102	+100	-144	-141	+139
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-135	-135	+133	-148*	-148	+145	-129	-126	+123	-140	-134	+132
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-156*	-156	+153	-151	-151	+148	-149	-148	+145	-144	-142	+140
Vertical Compressive Strain at Top of Subgrade (microstrain)	+284	+192	-278	+316*	+215	-309	+275	+186	-270	+303	+206	-297

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 335 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	711	711	699	798	799	785	702	702	691	807*	808	775
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+49	+49	-48	-180	-180	+177	+44	+44	-44	-188*	-188	+186
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-108	-107	+105	-150*	-149	+146	-100	-98	+96	-141	-139	+137
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-126	-126	+124	-140*	-140	+137	-121	-117	+115	-133	-127	+124
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-141*	-141	+138	-134*	-134	+131	-135	-134	+132	-128	-127	+124
Vertical Compressive Strain at Top of Subgrade (microstrain)	+265	+179	-260	+278*	+189	-272	+258	+174	-253	+269	+183	-263

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 336 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	774	774	762	855	855	841	764	764	752	863*	864	830
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+47	+47	-46	-182	-182	+179	+43	+43	-42	-190*	-190	+187
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-121	-121	+119	-158*	-158	+155	-113	-111	+109	-150	-145	+142
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-183	-183	+180	-189*	-189	+185	-172	-171	+168	-176	-174	+171
Vertical Compressive Strain at Top of Subgrade (microstrain)	+307	+307	-301	+411*	+411	-403	+296	+296	-290	+390	+389	-382

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 337 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	746	746	735	830	830	816	737	737	726	839*	839	806
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+48	-47	-181	-181	+178	+43	+43	-43	-189*	-189	+186
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-112	-112	+110	-152*	-151	+149	-105	-102	+101	-144	-141	+139
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-154	-154	+151	-156*	-156	+153	-146	-145	+142	-148	-145	+142
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-171*	-171	+167	-170	-170	+167	-162	-161	+158	-161	-158	+155
Vertical Compressive Strain at Top of Subgrade (microstrain)	+295	+198	-290	+359*	+244	-352	+286	+191	-280	+343	+233	-336

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 338 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	721	721	710	808	808	794	713	713	701	816*	817	784
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+48	-47	-180	-180	+177	+44	+44	-43	-188*	-188	+185
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-106	-106	+104	-149*	-149	+146	-99	[	+95	-140	-139	+136
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-135	-135	+133	-138*	-138	+136	-129	-127	+125	-132	-128	+126
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-155*	-155	+152	-150	-150	+147	-148	-147	+144	-143	-141	+139
Vertical Compressive Strain at Top of Subgrade (microstrain)	+280	+189	-274	+313*	+213	-307	+271	+183	-266	+301	+205	-295

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 339 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	699	699	688	787	788	774	691	691	680	796*	797	764
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+49	+49	-48	-179	-179	+176	+45	+45	-44	-187*	-187	+185
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-102	-102	+100	-147*	-147	+144	-95	-92	+91	-138	-137	+134
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-123	-123	+121	-128*	-128	+125	-119	-116	+114	-122	-118	+116
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-140*	-140	+137	-133	-133	+131	-134	-133	+131	-128	-126	+124
Vertical Compressive Strain at Top of Subgrade (microstrain)	+262	+177	-257	+276*	+188	-271	+255	+172	-250	+267	+181	-262

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 340 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	679	679	668	769	769	756	671	671	660	779*	779	747
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+49	+49	-48	-179	-179	+176	+45	+45	-44	-187*	-187	+184
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-99	-99	+97	-145*	-145	+142	-92	-89	+88	-136	-135	+132
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-116	-116	+113	-121*	-121	+119	-111	-108	+106	-115	-111	+109
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-126*	-126	+124	-119	-119	+116	-121	-121	+118	-114	-113	+111
Vertical Compressive Strain at Top of Subgrade (microstrain)	+244	+165	-239	+246*	+167	-241	+238	+161	-233	+238	+162	-234

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 341 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	734	734	723	819	819	805	725	725	714	828*	828	794
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+48	-47	-180	-180	+177	+44	+44	-43	-188*	-188	+186
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-108	-108	+106	-150*	-150	+147	-101	-98	+97	-142	-140	+137
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-164*	-164	+161	-163	-163	+160	-155	-154	+152	-154	-152	+149
Vertical Compressive Strain at Top of Subgrade (microstrain)	+288	+287	-282	+350*	+350	-343	+278	+278	-273	+334	+334	-328

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 342 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	710	710	699	797	797	784	702	702	691	806*	807	774
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+49	+49	-48	-179	-179	+176	+44	+44	-44	-187*	-187	+185
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-102	-102	+101	-148*	-147	+144	-95	-93	+91	-138	-137	+135
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-139*	-139	+136	-137	-136	+134	-132	-131	+129	-130	-128	+125
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-152*	-152	+149	-148	-148	+145	-145	-144	+142	-141	-139	+137
Vertical Compressive Strain at Top of Subgrade (microstrain)	+275	+185	-269	+310*	+211	-304	+266	+179	-261	+298	+202	-292

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 343 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	688	688	678	777	778	764	680	680	669	787*	788	755
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+49	+49	-48	-179	-179	+176	+45	+45	-44	-187*	-187	+184
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-98	-98	+96	-146*	-145	+142	-91	-89	+87	-136	-135	+133
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-122*	-122	+120	-121	-121	+119	-118	-116	+114	-116	-113	+111
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-139*	-139	+136	-132	-132	+130	-133	-132	+130	-127	-125	+123
Vertical Compressive Strain at Top of Subgrade (microstrain)	+258	+175	-253	+274*	+186	-268	+251	+170	-246	+264	+180	-259

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 344 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	669	669	658	760	760	747	661	661	650	769*	770	738
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+50	+50	-49	-178	-178	+175	+45	+45	-45	-186*	-186	+184
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-95	-95	+93	-144*	-143	+141	-88	-86	+84	-134	-133	+131
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-112*	-112	+110	-112	-112	+110	-108	-106	+104	-107	-104	+102
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-125*	-125	+123	-118	-118	+116	-121	-120	+118	-114	-113	+111
Vertical Compressive Strain at Top of Subgrade (microstrain)	+241	+164	-236	+244*	+166	-239	+235	+159	-230	+236	+161	-232

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 345 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	651	651	641	743	744	731	643	643	633	754*	754	722
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+50	+50	-49	-178	-178	+175	+46	+46	-45	-186*	-186	+184
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-93	-93	+91	-143*	-142	+139	-86	-84	+82	-133	-132	+130
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-105	-105	+103	-106*	-106	+104	-102	-99	+97	-101	-132	+96
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-113*	-113	+111	-106	-106	+104	-110	-109	+107	-103	-102	+100
Vertical Compressive Strain at Top of Subgrade (microstrain)	+224*	+152	-219	+219	+149	-215	+219	+149	-215	+213	+145	-209

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 346 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	699	699	688	787	788	774	691	691	680	796*	798	764
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+49	+49	-48	-179	-179	+176	+45	+45	-44	-187*	-187	+184
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-100	-100	+98	-146*	-146	+143	-93	-90	+88	-137	-136	+133
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-147*	-147	+144	-143	-142	+140	-139	-139	+136	-135	-134	+131
Vertical Compressive Strain at Top of Subgrade (microstrain)	+268	+268	-263	+302*	+302	-296	+260	+260	-255	+290	+290	-284

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 347 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	678	678	668	768	769	755	670	670	660	778*	779	746
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+50	+50	-49	-178	-178	+175	+45	+45	-44	-186*	-186	+184
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-96	-96	+94	-145*	-144	+141	-89	-86	+85	-135	-134	+131
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-125*	-125	+122	-120	-120	+118	-120	-119	+117	-115	-114	+111
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-136*	-136	+134	-130	-130	+128	-131	-130	+127	-125	-123	+121
Vertical Compressive Strain at Top of Subgrade (microstrain)	+254	+172	-249	+271*	+184	-265	+247	+167	-242	+261	+178	-256

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 348 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	659	659	649	751	751	738	651	651	641	761*	762	729
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+50	+50	-49	-178	-178	+175	+46	+46	-45	-186*	-186	+184
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-93	-93	+91	-143*	-142	+140	-86	-84	+82	-133	-132	+130
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-111*	-111	+109	-107	-107	+105	-107	-105	+103	-103	-101	+99
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-124*	-124	+122	-117	-117	+115	-120	-119	+117	-113	-112	+110
Vertical Compressive Strain at Top of Subgrade (microstrain)	+238	+162	-234	+242*	+165	-237	+232	+158	-228	+234	+160	-230

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 349 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	642	642	632	735	736	723	634	634	624	746*	746	714
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+50	+50	-49	-178	-178	+175	+46	+46	-45	-186*	-186	+183
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-91	-91	+89	-142*	-141	+138	-84	-81	+80	-132	-131	+129
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-102*	-102	+100	-99	-99	+97	-98	-97	+95	-95	-93	+91
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-113*	-113	+110	-105	-105	+103	-109	-108	+106	-102	-101	+99
Vertical Compressive Strain at Top of Subgrade (microstrain)	+222*	+151	-217	+217	+148	-213	+217	+147	-212	+211	+144	-208

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 350 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	627	627	617	721	722	709	619	619	609	732*	732	700
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+50	+50	-49	-178	-178	+175	+46	+46	-45	-186*	-186	+183
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-89	-89	+87	-141*	-140	+137	-82	-80	+78	-131	-130	+128
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-96*	-96	+94	-93	-93	+91	-93	-91	+89	-90	-88	+86
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-102*	-102	+100	-95	-95	+93	-99	-99	+97	-92	-92	+90
Vertical Compressive Strain at Top of Subgrade (microstrain)	+206*	+140	-202	+197	+134	-193	+201	+137	-198	+192	+131	-189

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 351 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	827	827	814	901	901	886	816	816	803	909*	909	874
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-43	-183	-183	+180	+40	+40	-39	-191*	-191	+188
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-163	-163	+160	-191*	-191	+188	-151	-151	+148	-177	-172	+169
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-204	-203	+200	-230*	-230	+226	-189	-188	+185	-211	-207	+203
Vertical Compressive Strain at Top of Subgrade (microstrain)	+314	+314	-308	+525*	+525	-515	+302	+302	-296	+491	+490	-481

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 352 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	795	795	783	872	872	857	785	785	773	880*	880	846
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-180	-180	+177	+41	+41	-40	-189*	-189	+186
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-145	-145	+142	-172*	-172	+169	-135	-134	+131	-160	-155	+152
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-172	-172	+169	-190*	-190	+186	-162	-160	+157	-178	-172	+169
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-195	-195	+191	-207*	-207	+203	-183	-182	+178	-192	-189	+185
Vertical Compressive Strain at Top of Subgrade (microstrain)	+314	+208	-308	+449*	+306	-441	+302	+200	-296	+424	+288	-416

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 353 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	766	766	754	845	845	831	757	757	745	854*	854	820
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+46	+46	-45	-179	-179	+176	+41	+41	-41	-187*	-187	+185
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-132	-132	+129	-161*	-161	+158	-123	-121	+119	-149	-144	+142
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-152	-152	+149	-169*	-169	+166	-144	-141	+138	-160	-153	+150
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-178	-178	+175	-180*	-180	+177	-169	-168	+164	-170	-167	+164
Vertical Compressive Strain at Top of Subgrade (microstrain)	+304	+203	-298	+384*	+261	-376	+294	+196	-288	+365	+248	-358

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 354 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	740	740	728	821	821	807	731	731	719	830*	831	797
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+46	+46	-46	-178	-178	+175	+42	+42	-41	-186*	-186	+184
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-123	-123	+121	-153*	-153	+150	-115	-113	+111	-142	-137	+134
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-138	-138	+136	-157*	-157	+154	-132	-128	+126	-149	-142	+139
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-161*	-161	+158	-158	-158	+155	-154	-152	+150	-150	-148	+145
Vertical Compressive Strain at Top of Subgrade (microstrain)	+288	+194	-283	+332*	+226	-325	+279	+188	-274	+318	+216	-312

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 355 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	716	716	705	800	800	786	707	707	696	809*	810	776
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+47	+47	-46	-178	-178	+175	+43	+43	-42	-186*	-186	+183
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-117	-117	+115	-148*	-148	+145	-109	-107	+105	-137	-132	+129
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-130	-130	+127	-150*	-150	+147	-124	-120	+117	-142	-135	+132
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-145*	-145	+142	-139	-139	+137	-139	-138	+136	-133	-132	+129
Vertical Compressive Strain at Top of Subgrade (microstrain)	+271	+183	-265	+291*	+198	-285	+263	+177	-258	+281	+191	-275

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 356 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	781	781	769	858	858	844	772	772	760	867*	867	833
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-179	-179	+176	+41	+41	-40	-188*	-187	+185
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-135	-135	+133	-163*	-163	+160	-126	-125	+123	-152	-147	+144
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-188	-188	+185	-200*	-200	+196	-176	-176	+172	-185	-183	+179
Vertical Compressive Strain at Top of Subgrade (microstrain)	+306	+306	-300	+439*	+439	-431	+295	+295	-289	+415	+414	-406

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 357 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	753	753	742	832	833	818	744	744	733	841*	842	808
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+46	+46	-45	-178	-178	+175	+42	+42	-41	-186*	-186	+184
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-123	-123	+121	-152*	-152	+149	-115	-114	+111	-141	-136	+134
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-159	-159	+156	-165*	-165	+162	-150	-149	+146	-156	-152	+149
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-176	-176	+173	-179*	-179	+176	-167	-165	+162	-168	-166	+163
Vertical Compressive Strain at Top of Subgrade (microstrain)	+298	+199	-292	+381*	+259	-374	+288	+192	-282	+363	+246	-355

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 358 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	727	727	716	809	809	795	719	719	708	818*	819	785
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+47	+47	-46	-177	-177	+174	+42	+42	-42	-185*	-185	+183
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-115	-115	+113	-145*	-145	+142	-107	-106	+104	-135	-129	+127
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-140	-140	+137	-147*	-147	+144	-133	-131	+128	-139	-135	+132
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-160*	-160	+157	-157	-157	+154	-153	-151	+149	-150	-147	+145
Vertical Compressive Strain at Top of Subgrade (microstrain)	+284	+191	-278	+330*	+225	-324	+275	+185	-270	+316	+215	-310

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 359 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	704	704	693	788	197	775	696	696	685	798*	798	765
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+47	+47	-46	-177	-177	+174	+43	+43	-42	-185*	-185	+182
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-109	-109	+107	-140*	-140	+137	-102	-100	+98	-130	-124	+122
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-128	-128	+125	-136*	-136	+133	-122	-119	+117	-129	-124	+122
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-145*	-144	+142	-139	-139	+136	-138	-137	+135	-133	-131	+129
Vertical Compressive Strain at Top of Subgrade (microstrain)	+267	+180	-262	+289*	+197	-283	+259	+175	-254	+279	+190	-273

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 360 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	683	683	673	769	769	756	675	675	665	779*	780	717
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+48	-47	-176	-176	+173	+43	+43	-43	-184*	-184	+182
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-105	-105	+103	-136*	-136	+134	-98	-96	+94	-126	-121	+119
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-120	-120	+117	-129*	-129	+127	-115	-111	+109	-122	-118	+115
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-130*	-130	+128	-123	-123	+121	-125	-125	+122	-119	-118	+115
Vertical Compressive Strain at Top of Subgrade (microstrain)	+249	+169	-244	+256*	+174	-251	+243	+164	-238	+248	+169	-243

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 361 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	741	741	729	821	821	807	732	732	721	830*	831	797
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+46	+46	-45	-177	-177	+174	+42	+42	-41	-186*	-186	+183
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-117	-117	+115	-147*	-147	+144	-110	-108	+106	-136	-131	+129
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-170	-170	+166	-172*	-172	+169	-160	-159	+156	-162	-160	+157
Vertical Compressive Strain at Top of Subgrade (microstrain)	+290	+290	-284	+372*	+372	-364	+280	+280	-275	+354	+353	-347

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 362 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	716	716	705	798	798	785	707	707	697	808*	809	775
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+47	+47	-46	-177	-177	+174	+43	+43	-42	-185*	-185	+182
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-110	-110	+108	-140*	-140	+137	-102	-100	+99	-130	-125	+122
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-144	-144	+141	-144*	-144	+141	-137	-135	+133	-137	-134	+131
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-158*	-158	+155	-156	-156	+153	-150	-149	+146	-148	-146	+143
Vertical Compressive Strain at Top of Subgrade (microstrain)	+279	+187	-273	+327*	+223	-321	+270	+181	-265	+313	+213	-307

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 363 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	693	693	683	778	778	764	685	685	675	787*	788	755
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+47	+47	-47	-176	-176	+173	+43	+43	-43	-184*	-184	+182
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-104	-104	+102	-135*	-135	+133	-97	-95	+93	-126	-121	+119
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-127	-127	+124	-128*	-128	+125	-122	-120	+117	-122	-119	+117
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-143*	-143	+141	-138	-138	+135	-137	-136	+134	-132	-131	+128
Vertical Compressive Strain at Top of Subgrade (microstrain)	+263	+178	-258	+287*	+196	-282	+256	+173	-251	+277	+188	-272

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 364 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	673	673	662	759	759	746	665	665	655	769*	770	737
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+48	-47	-176	-176	+173	+44	+44	-43	-184*	-184	+181
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-100	-100	+98	-132*	-132	+129	-93	-91	+89	-122	-119	+117
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-116	-116	+114	-118*	-118	+116	-112	-109	+107	-113	-110	+108
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-130*	-130	+127	-123	-123	+121	-125	-124	+121	-118	-117	+115
Vertical Compressive Strain at Top of Subgrade (microstrain)	+246	+167	-241	+255*	+173	-249	+240	+162	-235	+246	+168	-242

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 365 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	655	655	644	742	743	730	647	647	637	753*	754	721
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+48	-47	-175	-175	+172	+44	+44	-43	-184*	-183	+181
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-97	-97	+95	-129*	-129	+126	-90	-88	+87	-120	-117	+115
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-109	-109	+107	-112*	-112	+110	-105	-102	+100	-107	-104	+102
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-117*	-117	+115	-110	-110	+108	-113	-112	+110	-106	-105	+103
Vertical Compressive Strain at Top of Subgrade (microstrain)	+229*	+156	-225	+228	+155	-223	+224	+152	-219	+221	+151	-217

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 366 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	705	705	694	788	788	774	696	696	686	798*	798	765
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+47	+47	-46	-176	-176	+173	+43	+43	-42	-184*	-184	+182
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-106	-106	+104	-137*	-136	+134	-99	-97	+95	-127	-122	+119
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-152*	-152	+149	-150	-150	+147	-144	-144	+141	-142	-140	+138
Vertical Compressive Strain at Top of Subgrade (microstrain)	+272	+271	-266	+319*	+319	-313	+263	+263	-258	+305	+305	-300

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 367 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	683	683	672	768	768	755	675	675	665	778*	779	746
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+48	-47	-176	-176	+173	+44	+44	-43	-184*	-184	+181
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-101	-101	+99	-132*	-132	+130	-94	-92	+90	-123	-119	+117
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-129*	-129	+127	-126	-126	+124	-124	-123	+120	-121	-119	+116
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-141*	-141	+139	-136	-136	+134	-135	-134	+132	-130	-129	+126
Vertical Compressive Strain at Top of Subgrade (microstrain)	+259	+175	-254	+284*	+193	-279	+251	+170	-246	+274	+186	-268

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 368 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	663	663	653	750	750	737	655	655	645	761*	761	729
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+48	-47	-175	-175	+172	+44	+44	-43	-183*	-183	+181
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-97	-97	+95	-129*	-129	+126	-90	-88	+86	-120	-117	+115
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-115*	-115	+113	-112	-112	+110	-110	-109	+107	-108	-106	+104
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-129*	-129	+126	-122	-122	+120	-124	-123	+121	-117	-116	+114
Vertical Compressive Strain at Top of Subgrade (microstrain)	+243	+165	-238	+253*	+172	-248	+237	+160	-232	+244	+166	-240

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 369 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	645	645	635	734	734	721	638	638	628	745*	745	713
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+48	-48	-175	-175	+172	+44	+44	-43	-183*	-183	+181
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-94	-94	+92	-126*	-126	+124	-87	-85	+84	-118	-116	+113
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-105*	-105	+103	-104	-104	+102	-102	-100	+98	-100	-97	+96
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-116*	-116	+114	-110	-110	+107	-112	-112	+110	-106	-105	+103
Vertical Compressive Strain at Top of Subgrade (microstrain)	+227*	+154	-222	+226	+154	-222	+221	+150	-217	+219	+150	-216

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 370 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	629	629	619	719	720	707	622	622	612	730*	731	699
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+49	+49	-48	-175	-175	+172	+44	+44	-44	-183*	-183	+181
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-92	-92	+90	-124*	-124	+122	-85	-83	+82	-116	-114	+112
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-99*	-99	+97	-98	-98	+96	-96	-94	+92	-94	-92	+90
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-106*	-105	+103	-99	-99	+97	-102	-102	+100	-95	-95	+93
Vertical Compressive Strain at Top of Subgrade (microstrain)	+211*	+143	-206	+204	+139	-200	+206	+140	-202	+198	+136	-195

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 371 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	673	673	663	759	759	746	665	665	655	769*	770	738
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+48	-47	-129	-175	+172	+44	+44	-43	-183*	-183	+181
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-98	-98	+96	-130*	-130	+127	-91	-89	+87	-121	-118	+116
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-136*	-136	+133	-131	-131	+129	-130	-129	+127	-125	-124	+122
Vertical Compressive Strain at Top of Subgrade (microstrain)	+253	+253	-248	+277*	+277	-272	+245	+245	-241	+267	+267	-262

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 372 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	654	654	644	742	742	729	646	646	636	752*	753	721
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+48	-48	-175	-175	+172	+44	+44	-43	-183*	-183	+181
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-94	-94	+93	-127*	-127	+124	-88	-86	+84	-118	-116	+114
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-117*	-117	+114	-112	-112	+109	-112	-111	+109	-107	-106	+104
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-127*	-127	+124	-120	-120	+118	-122	-121	+119	-116	-114	+112
Vertical Compressive Strain at Top of Subgrade (microstrain)	+239	+162	-235	+250*	+170	-245	+233	+158	-229	+241	+164	-237

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 373 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	636	636	627	726	726	714	629	629	620	737*	738	705
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+49	+49	-48	-175	-175	+172	+45	+45	-44	-183*	-183	+180
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-92	-92	+90	-124*	-124	+122	-85	-83	+81	-116	-115	+112
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-104*	-104	+102	-100	-100	+98	-100	-99	+97	-96	-95	+93
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-116*	-116	+113	-109	-109	+107	-111	-111	+109	-105	-104	+102
Vertical Compressive Strain at Top of Subgrade (microstrain)	+224*	+152	-220	+224	+153	-220	+219	+149	-215	+217	+148	-214

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 374 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	621	621	611	711	712	700	614	614	604	723*	723	691
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+49	+49	-48	-174	-174	+171	+45	+45	-44	-183*	-183	+180
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-90	-90	+88	-122*	-122	+120	-83	-81	+79	-115	-113	+111
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-95*	-95	+94	-92	-92	+90	-92	-91	+89	-89	-87	+86
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-105*	-105	+103	-98	-98	+96	-102	-101	+99	-95	-94	+92
Vertical Compressive Strain at Top of Subgrade (microstrain)	+209*	+142	-205	+203	+138	-198	+204	+139	-200	+197	+135	-193

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 375 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	606	606	597	698	699	687	599	599	590	710*	710	679
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+49	+49	-48	-174	-174	+171	+45	+45	-44	-183*	-183	+180
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-88	-88	+86	-121*	-121	+119	-82	-79	+78	-114	-112	+110
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-90*	-90	+88	-87	-87	+85	-87	-85	+84	-84	-82	+80
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-95*	-95	+94	-89	-89	+87	-93	-92	+90	-86	-86	+84
Vertical Compressive Strain at Top of Subgrade (microstrain)	+194*	+132	-190	+184	+125	-180	+190	+129	-186	+179	+123	-177

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 376 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	943	943	926	986	987	968	929	929	912	992*	992	950
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-179*	-179	+176	+37	+37	-37	-176	-175	+172
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-162	-162	+159	-211*	-210	+207	-149	-147	+145	-205	-198	+195
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-224	-224	+220	-265*	-265	+260	-206	-205	+201	-247	-241	+237
Vertical Compressive Strain at Top of Subgrade (microstrain)	+353	+352	-346	+657*	+657	-644	+336	+336	-330	+615	+615	-604

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 377 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	905	905	890	950	950	932	892	892	877	956*	956	915
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-173*	-173	+170	+37	+37	-36	-170	-169	+167
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-143	-143	+140	-196*	-196	+193	-131	-130	+127	-188	-185	+181
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-187	-187	+184	-216*	-216	+212	-175	-172	+169	-205	-197	+193
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-224	-224	+219	-245*	-245	+240	-209	-207	+203	-227	-222	+218
Vertical Compressive Strain at Top of Subgrade (microstrain)	+362	+236	-355	+559*	+378	-549	+347	+378	-341	+525	+354	-515

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 378 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	869	869	854	916	916	898	857	857	842	923*	923	883
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-42	-169*	-169	+166	+39	+39	-38	-166	-166	+163
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-129	-129	+126	-190*	-189	+186	-119	-117	+115	-180	-178	+175
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-162	-162	+159	-191*	-191	+187	-154	-149	+146	-184	-174	+171
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-209	-209	+205	-216*	-216	+212	-197	195	+192	-202	-198	+194
Vertical Compressive Strain at Top of Subgrade (microstrain)	+356	+235	-349	+474*	+321	-465	+343	+226	-336	+449	+303	-440

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 379 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	835	835	821	886	886	869	824	824	810	893*	894	853
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-167*	-166	+164	+40	+40	-40	-163	-163	+160
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-119	-119	+117	-186*	-185	+182	-110	-108	+106	-175	-174	+171
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-146	-146	+143	-177*	-177	+174	-139	-134	+132	-171	-161	+158
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-191*	-191	+188	-190	-190	+186	-181	-180	+177	-179	-176	+173
Vertical Compressive Strain at Top of Subgrade (microstrain)	+341	+227	-334	+408*	+276	-400	+329	+219	-322	+390	+263	-382

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 380 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	805	805	791	859	859	842	794	794	781	867*	867	827
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+47	+47	-46	-165*	-165	+162	+42	+42	-41	-161	-161	+159
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-112	-112	+110	-183*	-182	+179	-103	-101	+99	-172	-171	+168
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-136	-136	+133	-168*	-168	+165	-130	-124	+122	-162	-152	+150
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-174*	-174	+170	-168	-168	+164	-166	-164	+161	-160	-157	+154
Vertical Compressive Strain at Top of Subgrade (microstrain)	+321	+215	-315	+356*	+241	-349	+311	+208	-305	+342	+231	-335

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 381 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	889	889	874	934	934	916	877	877	862	941*	941	900
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-170*	-170	+167	+37	+37	-36	-167	-166	+164
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-133	-133	+131	-189*	-189	+185	-123	-121	+119	-181*	-178	+174
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-216	-216	+212	-237*	-237	+233	-201	-200	+197	-219	-215	+211
Vertical Compressive Strain at Top of Subgrade (microstrain)	+353	+353	-346	+548*	+548	-537	+339	+339	-332	+514	+514	-504

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 382 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	854	854	840	901	901	883	842	842	828	908*	909	868
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-42	-166*	-166	+163	+38	+38	-38	-163	-163	+160
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-120	-120	+118	-183*	-182	+179	-112	-109	+107	-173	-171	+168
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-180	-180	+176	-193*	-193	+189	-169	-167	+164	-181	-176	+173
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-207	-207	+203	-215*	-215	+211	-195	-193	+189	-201	-197	+193
Vertical Compressive Strain at Top of Subgrade (microstrain)	+348	+230	-342	+472*	+320	-463	+335	+221	-329	+447	+302	-438

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 383 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	821	821	807	871	871	854	810	810	797	879*	879	840
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-164*	-164	+161	+40	+40	-39	-160	-160	+158
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-111	-111	+109	-179*	-178	+175	-103	-100	+98	-169	-167	+164
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-156	-156	+153	-170*	-170	+166	-148	-145	+142	-161	-155	+152
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-190*	-190	+187	-189	-189	+186	-180	-179	+175	-179	-176	+173
Vertical Compressive Strain at Top of Subgrade (microstrain)	+335	+223	-328	+406*	+275	-398	+323	+215	-317	+388	+262	-380

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 384 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	791	791	778	844	844	828	781	781	768	853*	853	814
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+46	+46	-45	-162*	-162	+159	+42	+42	-41	-159*	-158	+156
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-104	-104	+102	-176*	-176	+172	-97	-94	+92	-166	-165	+162
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-141	-140	+138	-156*	-156	+153	-134	-130	+128	-149	-142	+139
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-173*	-173	+169	-167	-167	+164	-165	-163	+160	-159	-157	+154
Vertical Compressive Strain at Top of Subgrade (microstrain)	+316	+212	-310	+354*	+240	-347	+306	+205	-300	+340	+230	-333

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 385 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	764	764	752	820	821	804	755	755	742	829*	830	791
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+48	-47	-161*	-160	+158	+43	+43	-42	-157	-157	+155
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-100	-100	+98	-174*	-174	+170	-92	-90	+88	-163	-162	+159
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-131	-131	+128	-148*	-148	+145	-125	-121	+118	-141	-134	+131
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-156*	-156	+153	-148	-148	+146	-150	-149	+146	-142	-141	+138
Vertical Compressive Strain at Top of Subgrade (microstrain)	+296	+199	-290	+311*	+211	-305	+287	+193	-282	+301	+203	-295

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 386 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	839	839	825	886	886	869	827	827	814	894*	894	854
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-43	-164*	-164	+161	+39	+39	-38	-161	-161	+158
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-114	-114	+112	-180*	-179	+176	-106	-103	+101	-170	-168	+165
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-199	-199	+195	-207*	-207	+203	-187	-186	+182	-192	-190	+186
Vertical Compressive Strain at Top of Subgrade (microstrain)	+339	+339	-332	+461*	+461	-452	+326	+326	-320	+436	+436	-427

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 387 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	807	807	794	858	858	841	796	796	783	866*	866	827
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-162*	-162	+159	+40	+40	-40	-159	-159	+156
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-105	-105	+103	-176*	-176	+172	-98	-95	+93	-166	-165	+162
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-166	-166	+163	-170*	-169	+166	-157	-155	+152	-160	-156	+154
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-188	-187	+184	-188*	-188	+184	-178	-176	+173	-177	-174	+171
Vertical Compressive Strain at Top of Subgrade (microstrain)	+328	+218	-321	+403*	+273	-395	+316	+211	-310	+384	+260	-376

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 388 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	778	778	765	831	832	815	768	768	755	840*	841	802
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+47	+47	-46	-160*	-160	+157	+42	+42	-41	-157	-157	+154
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-99	-99	+97	-173*	-173	+170	-92	-89	+87	-163	-162	+159
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-144	-144	+142	-149*	-149	+146	-138	-135	+133	-142	-138	+135
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-171*	-171	+168	-166	-166	+163	-163	-162	+159	-158	-156	+153
Vertical Compressive Strain at Top of Subgrade (microstrain)	+311	+209	-305	+351*	+238	-344	+301	+202	-295	+337	+228	-331

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 389 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	752	752	739	808	808	792	742	742	730	817*	818	779
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+48	-47	-159*	-159	+156	+43	+43	-42	-156	-156	+153
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-94	-94	+92	-171*	-171	+168	-88	-85	+83	-161	-160	+157
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-131	-131	+128	-137*	-137	+135	-126	-122	+120	-131	-126	+124
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-155*	-155	+152	-148	-148	+145	-149	-148	+145	-142	-140	+137
Vertical Compressive Strain at Top of Subgrade (microstrain)	+292	+197	-286	+309*	+210	-303	+283	+191	-278	+298	+202	-293

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 390 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	728	728	716	787	787	772	719	719	707	797*	797	759
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+49	+49	-48	-158*	-158	+155	+44	+44	-44	-155	-155	+152
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-91	-91	+89	-170*	-169	+166	-84	-81	+80	-159	-158	+155
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-122	-122	+120	-130*	-129	+127	-118	-114	+112	-123	-118	+116
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-140*	-140	+138	-132	-132	+129	-135	-134	+132	-127	-126	+123
Vertical Compressive Strain at Top of Subgrade (microstrain)	+272	+184	-266	+275*	+186	-269	+265	+179	-259	+266	+181	-261

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 391 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	793	793	780	845	845	828	783	783	770	853*	854	815
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+46	+46	-45	-161*	-161	+158	+41	+41	-40	-158	-157	+155
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-101	-101	+99	-174*	-174	+171	-94	-91	+89	-164	-163	+160
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-180	-180	+177	-180*	-180	+177	-170	-169	+166	-169	-167	+164
Vertical Compressive Strain at Top of Subgrade (microstrain)	+319	+319	-312	+392*	+392	-385	+308	+308	-302	+374	+374	-367

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 392 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	765	765	753	820	820	804	755	755	743	829*	829	790
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+47	+47	-46	-159*	-159	+156	+43	+43	-42	-156	-156	+153
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-95	-95	+93	-172*	-171	+168	-88	-85	+84	-161	-160	+157
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-151*	-151	+148	-149	-149	+146	-144	-143	+140	-142	-139	+137
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-169*	-169	+165	-164	-164	+161	-161	-159	+156	-156	-154	+151
Vertical Compressive Strain at Top of Subgrade (microstrain)	+305	+205	-299	+348*	+236	-341	+295	+198	-290	+333	+226	-327

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 393 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	740	740	728	797	797	781	730	730	718	806*	807	768
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+48	-48	-158*	-158	+155	+44	+44	-43	-155	-155	+152
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-91	-91	+89	-170*	-169	+166	-84	-81	+80	-159	-158	+155
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-132*	-132	+130	-132	-132	+129	-127	-125	+123	-126	-123	+120
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-154*	-154	+151	-147	-147	+144	-147	-146	+144	-141	-139	+136
Vertical Compressive Strain at Top of Subgrade (microstrain)	+288	+194	-282	+307*	+208	-301	+279	+188	-274	+296	+201	-290

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 394 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	717	717	705	776	777	761	708	708	696	786*	787	749
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+49	+49	-49	-157*	-157	+154	+45	+45	-44	-154	-154	+151
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-87	-87	+86	-168*	-168	+165	-81	-78	+77	-157	-157	+154
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-121	-120	+118	-121*	-121	+119	-116	-113	+111	-116	-112	+110
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-140*	-140	+137	-131	-131	+129	-134	-133	+131	-126	-125	+123
Vertical Compressive Strain at Top of Subgrade (microstrain)	+268	+182	-263	+273*	+185	-267	+261	+177	-256	+264	+179	-259

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 395 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	696	696	685	758	758	743	688	688	676	768*	769	731
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+50	+50	-49	-156*	-156	+153	+46	+46	-45	-153	-153	+151
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-85	-85	+83	-167*	-166	+163	-79	-76	+74	-156	-155	+153
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-113	-113	+111	-114*	-114	+112	-109	-106	+104	-109	-106	+104
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-126*	-126	+124	-118	-118	+116	-122	-121	+119	-114	-113	+111
Vertical Compressive Strain at Top of Subgrade (microstrain)	+249*	+169	-244	+245	+166	-240	+243	+165	-239	+238	+162	-233

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 396 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11 cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	753	753	740	808	809	793	743	743	731	818*	818	779
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+48	-47	-158*	-158	+156	+43	+44	-43	-155	-155	+153
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-92	-92	+90	-171*	-170	+167	-86	-86	+81	-160	-159	+156
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-162*	-162	+159	-158	-158	+155	-154	-153	+150	-150	-148	+145
Vertical Compressive Strain at Top of Subgrade (microstrain)	+297	+297	-291	+338*	+338	-332	+288	+288	-282	+325	+325	-318

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 397 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	728	728	716	787	787	771	719	719	708	796*	797	759
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+49	+49	-48	-157*	-157	+154	+44	+44	-44	-154	-154	+151
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-88	-88	+86	-169*	-168	+165	-82	-79	+77	-158	-157	+154
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-137*	-137	+134	-132	-132	+130	-131	-130	+127	-127	-125	+122
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-152*	-151	+149	-145	-145	+142	-145	-144	+141	-139	-137	+134
Vertical Compressive Strain at Top of Subgrade (microstrain)	+283	+190	-277	+303*	+206	-297	+274	+185	-269	+292	+198	-287

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 398 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	706	706	695	767	767	752	697	697	686	777*	777	739
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+50	+50	-49	-156*	-156	+153	+45	+45	-45	-153	-153	+151
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-85	-85	+83	-167*	-167	+164	-79	-76	+74	-156	-156	+153
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-121*	-121	+118	-117	-117	+115	-116	-115	+112	-113	-110	+108
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-138*	-138	+136	-130	-130	+128	-133	-132	+130	-125	-124	+122
Vertical Compressive Strain at Top of Subgrade (microstrain)	+265	+179	-260	+271*	+184	-265	+258	+174	-253	+262	+178	-257

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 399 / Truck												
Stress Load = 690 kPa												
Contact Radius = 11cm												
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	686	686	675	748	749	734	677	677	666	759*	760	722
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+51	+51	-50	-156*	-155	+153	+46	+46	-45	-152	-152	+150
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-83	-83	+81	-166*	-165	+162	-77	-74	+72	-155	-154	+152
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-110*	-110	+108	-108	-107	+105	-107	-104	+102	-104	-101	+99
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-126*	-126	+123	-117	-117	+115	-121	-121	+118	-113	-112	+110
Vertical Compressive Strain at Top of Subgrade (microstrain)	+247*	+167	-242	+243	+165	-238	+241	+163	-236	+236	+160	-231

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 400 / Truck		Stress Load = 690 kPa						Contact Radius = 11cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	668	668	657	732	733	718	660	660	649	743*	743	706	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+52	+52	-51	-155*	-155	+152	+47	+47	-46	-152	-152	+149	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-81	-81	+79	-165*	-164	+161	-75	-72	+71	-154	-153	+151	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-103*	-103	+101	-101	-101	+99	-100	-98	+96	-97	-95	+93	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-114*	-114	+112	-106	-106	+104	-110	-110	+108	-103	-102	+100	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+229*	+155	-224	+219	+149	-215	+224	+152	-219	+213	+145	-210	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 401 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	900	900	885	940	940	922	888	888	873	947*	947	906	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+37	+37	-37	-165*	-165	+162	+33	+33	-33	-162	-162	+160	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-165	-165	+161	-197*	-197	+193	-152	-151	+148	-189	-183	+180	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-216	-216	+212	-247*	-247	+243	-200	-199	+195	-228	-224	+220	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+345	+345	-339	+589*	+589	-577	+331	+331	-324	+551	+551	-540	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 402 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	865	865	851	906	903	889	854	854	839	914*	915	874	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+38	+38	-37	-161*	-161	+158	+34	+34	-33	-158	-158	+155	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-145	-145	+143	-177*	-177	+174	-135	-133	+131	-172	-165	+162	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-182	-182	+178	-203*	-203	+199	-171	-168	+165	-191	-185	+181	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-211	-211	+207	-226*	-226	+221	-198	-196	+193	-210	-206	+202	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+349	+229	-342	+504*	+341	-494	+335	+219	-329	+475	+321	-466	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 403 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	832	832	818	875	876	859	821	821	807	884*	884	844	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-158*	-158	+155	+35	+35	-35	-155	-155	+153	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-132	-132	+129	-165*	-165	+162	-122	-121	+118	-161	-154	+152	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-159	-159	+156	-180*	-180	+177	-150	-147	+144	-172	-164	+161	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-196	-196	+192	-199*	-199	+195	-185	-183	+180	-187	-183	+180	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+339	+225	-332	+430*	+291	-422	+327	+217	-320	+409	+276	-401	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 404 / Truck				Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar			
	Position (1)			Position (2)			Position (3)			Position (4)					
Surface Deflection (micron)	801	801	788	848	848	831	790	790	777	857*	857	818			
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-41	-156*	-156	+153	+37	+37	-36	-153	-153	+151			
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-123	-123	+120	-161*	-160	+157	-114	-112	+110	-154	-150	+148			
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-144	-144	+141	-167*	-167	+164	-137	-133	+130	-160	-152	+149			
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-178*	-178	+175	-175	-175	+171	-169	-168	+165	-166	-163	+160			
Vertical Compressive Strain at Top of Subgrade (microstrain)	+322	+215	-316	+372*	+252	-365	+312	+208	-306	+356	+241	-349			

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 405 / Truck	Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	773	773	760	823	823	807	763	763	751	832*	833	794
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-42	-154*	-154	+152	+39	+39	-38	-152	-152	+149
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-116	-116	+114	-158*	-157	+155	-107	-105	+103	-150	-147	+145
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-134	-134	+131	-159*	-159	+156	-128	-123	+121	-152	-143	+141
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-161*	-161	+158	-155	-154	+152	-154	-153	+150	-148	-146	+143
Vertical Compressive Strain at Top of Subgrade (microstrain)	+303	+203	-297	+326*	+221	-319	+294	+197	-288	+314	+212	-308

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 406 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	850	850	836	891	891	874	839	839	825	900*	900	860	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+38	+38	-38	-159*	-158	+156	+34	+34	-34	-156	-156	+153	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-136	-136	+133	-168*	-167	+164	-126	-125	+122	-163	-157	+154	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-204	-204	+200	-219*	-219	+214	-191	-190	+186	-202	-199	+196	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+339	+339	-333	+493*	+493	-484	+326	+326	-320	+465	+464	-456	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 407 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	817	817	804	861	862	845	807	807	794	871*	871	831		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-156*	-156	+153	+36	+36	-35	-153	-153	+151		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-123	-123	+121	-159*	-158	+155	-115	-113	+111	-153	-148	+146		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-171	-171	+168	-179*	-179	+176	-162	-160	+156	-169	-165	+161		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-194	-193	+190	-198*	-198	+194	-183	-181	+178	-185	-182	+179		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+332	+220	-325	+428*	+290	-419	+320	+212	-314	+406	+275	-398		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 408 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	787	787	774	834	834	818	777	777	765	844*	844	805	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-41	-154*	-154	+151	+37	+37	-37	-151	-151	+149	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-114	-114	+112	-155*	-154	+152	-106	-104	+102	-147	-145	+142	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-149	-149	+146	-159*	-159	+156	-142	-139	+137	-151	-145	+142	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-177*	-177	+174	-174	-174	+171	-168	-167	+164	-165	-163	+160	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+317	+212	-311	+370*	+251	-363	+306	+205	-300	+354	+240	-347	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 409 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	760	760	747	810	810	794	750	750	738	820*	820	781	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-42	-152*	-152	+150	+39	+39	-38	-150	-150	+147	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-108	-108	106	-152*	-152	+149	-100	-98	+96	-144	-142	+139	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-135	-135	+133	-146*	-146	+144	-130	-126	+124	-139	-134	+131	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-160*	-160	+157	-154	-154	+151	-153	-152	+149	-147	-145	+143	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+298	+200	-292	+324*	+220	-317	+289	+194	-284	+312	+211	-306	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 410 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	735	735	724	788	788	773	726	726	715	798*	799	760	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-43	-151*	-151	+149	+40	+40	-39	-149	-149	+146	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-104	-103	+102	-150*	-149	+147	-96	-94	+92	-141	-140	+137	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-126	-126	+124	-139*	-139	+136	-121	-117	+115	-132	-126	+124	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-145*	-145	+142	-137	-137	+134	-139	-138	+136	-132	-130	+128	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+278	+188	-273	+286*	+194	-281	+271	+183	-265	+277	+188	-272	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 411 / Truck			Stress Load = 690 kPa				Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	803	803	790	848	848	832	793	793	780	858*	858	818
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-40	-154*	-154	+152	+36	+36	-36	-152	-152	+149
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-117	-117	+115	-156*	-155	+152	-109	-107	+105	-149	-145	+143
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-186	-186	+183	-190*	-190	+187	-175	-175	+171	-178	-176	+172
Vertical Compressive Strain at Top of Subgrade (microstrain)	+322	+322	-316	+417*	+417	-409	+311	+311	-305	+396	+396	-388

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 412 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	774	774	761	822	822	806	764	764	752	832*	832	793		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-153*	-152	+150	+38	+38	-37	-150	-150	+147		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-109	-109	+107	-152*	-152	+149	-101	-99	+97	-144	-142	+139		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-156	-156	+153	-157*	-157	+154	-149	-147	+144	-149	-146	+143		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-175*	-174	+171	-173	-172	+169	-166	-165	+161	-163	-161	+158		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+310	+208	-304	+367*	+249	-360	+300	+201	-294	+351	+238	-344		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 413 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	747	747	735	798	798	783	738	738	726	808*	809	770	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-43	-151*	-151	+148	+39	+39	-38	-149	-148	+146	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-103	-103	+101	-150*	-149	+146	-96	-93	+91	-141	-139	+137	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-137	-137	+134	-139*	-139	+136	-131	-129	+126	-133	-129	+127	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-159*	-159	+156	-153	-153	+150	-152	-151	+148	-147	-145	+142	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+293	+198	-288	+322*	+218	-315	+285	+192	-279	+310	+210	-303	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 414 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	723	723	712	777	777	762	715	715	703	787*	788	750	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-44	-150*	-150	+147	+40	+40	-39	-148	-147	+145	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-98	-98	+96	-148*	-147	+144	-91	-89	+87	-138	-137	+135	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-125	-125	+122	-128*	-128	+126	-120	-117	+115	-122	-118	+116	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-144*	-144	+141	-137	-137	+134	-138	-138	+135	-131	-130	+127	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+274	+185	-269	+285*	+193	-279	+267	+180	-262	+275	+187	-270	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 415 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	702	702	691	757	758	743	693	693	682	768*	769	731	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-45	-149*	-149	+147	+41	+41	-40	-147	-147	+144	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-95	-95	+93	-146*	-145	+143	-88	-86	+84	-137	-136	+133	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-117	-117	+114	-121*	-121	+119	-112	-109	+107	-116	-111	+109	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-130*	-130	+128	-122	-122	+120	-126	-125	+123	-118	-117	+115	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+255*	+173	-250	+254	+173	-249	+249	+169	-244	+246	+168	-242	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 416 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	761	761	749	810	810	795	752	752	739	820*	821	782		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-42	-152*	-152	+149	+39	+39	-38	-149	-149	+147		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-105	-105	+102	-151*	-150	+147	-98	-95	+93	-142	-140	+138		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-168*	-168	+165	-166	-166	+163	-159	-158	+155	-157	-155	+152		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+302	+302	-296	+357*	+357	-350	+292	+292	-287	+342	+342	-335		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 417 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	735	735	724	787	787	772	727	727	715	798*	798	760		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-43	-150*	-150	+148	+40	+40	-39	-148	-148	+145		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-99	-99	+97	-148*	-135	+145	-92	-90	+88	-139	-138	+135		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-142*	-142	+139	-139	-139	+136	-136	-134	+132	-132	-130	+128		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-157*	-157	+154	-151	-151	+148	-150	-149	+146	-144	-143	+140		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+288	+194	-283	+318*	+216	-312	+280	+188	-274	+306	+207	-300		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 418 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	712	712	701	766	767	752	704	704	692	777*	778	740	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-149*	-149	+147	+41	+41	-40	-147	-147	+144	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-95	-95	+93	-146*	-145	+143	-88	-86	+84	-137	-136	+133	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-125*	-125	+123	-123	-123	+120	-120	-118	+116	-118	-115	+113	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-143*	-143	+140	-136	-136	+133	-137	-136	+134	-130	-129	+126	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+271	+183	-266	+282*	+192	-277	+263	+178	-258	+273	+185	-268	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 419 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	691	691	680	747	748	733	683	683	672	758*	759	721		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+46	+46	-45	-149*	-148	+146	+42	+42	-41	-146	-146	+144		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-92	-92	+90	-145*	-144	+141	-85	-83	+81	-135	-134	+132		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-114*	-114	+112	-113	-113	+111	-110	-108	+106	-109	-106	+104		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-130*	-130	+127	-122	-122	+119	-125	-124	+122	-117	-116	+114		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+252*	+171	-247	+252	+171	-247	+246	167	-241	+245	+166	-240		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 420 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	672	672	662	730	731	716	664	664	654	742*	742	705	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+47	+47	-46	-148*	-148	+145	+42	+42	-42	-145	-145	+143	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-89	-89	+88	-143*	-143	+140	-83	-80	+79	-134	-133	130	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-107*	-107	+105	-107	-107	+105	-103	-101	+99	-102	-99	+98	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-117*	-117	+115	-110	-109	+107	-114	-113	+111	-106	-105	+103	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+234*	+159	-230	+227	+154	-222	+229	+155	-224	+221	+150	-217	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 421 / Truck			Stress Load = 690 kPa				Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	724	724	712	777	777	762	715	715	704	787*	788	750
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-150*	-150	+147	+40	+40	-40	-147	-147	+145
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-96	-96	+94	-147*	-146	+144	-90	-87	+85	-138	-136	+134
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-151*	-151	+148	-146	-146	+143	-144	-143	+140	-139	-137	+135
Vertical Compressive Strain at Top of Subgrade (microstrain)	+281	+281	-275	+310*	+310	-304	+272	+272	-267	+298	+298	-292

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 422 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	702	702	690	757	757	742	693	693	682	768*	768	731	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+46	+46	-45	-149*	-149	+146	+41	+41	-41	-146	-146	+144	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-92	-92	+90	-145*	-144	+142	-86	-83	+82	-136	-120	+132	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-128*	-128	+126	-123	-123	+120	-123	-122	+120	-118	-116	+114	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-141*	-141	+138	-134	-134	+131	-135	-134	+132	-128	-127	+124	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+266	+180	-261	+279*	+189	-273	+259	+175	-254	+269	+183	-264	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 423 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	681	681	670	738	739	724	673.	673	662	750*	750	713	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+46	+46	-46	-148*	-148	+145	+42	+42	-41	-145	-145	+143	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-89	-89	+88	-144*	-143	+140	-83	-80	+79	-134	-133	+131	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-114*	-114	+111	-109	-109	+107	-110	-108	+106	-105	-103	+101	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-129*	-129	+126	-121	-121	+118	-124	-123	+121	-116	-115	+113	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+249	+169	-245	+250*	+170	-245	+243	+165	-239	+242	+165	-238	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 424 / Truck			Stress Load = 690 kPa				Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	663	663	652	722	722	708	655	655	645	733*	734	697
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+47	+47	-46	-147*	-147	+145	+43	+43	-42	-145	-145	+143
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-87	-87	+85	-142*	-142	+139	-81	-78	+77	-133	-132	+130
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-104*	-104	+102	-101	-100	+99	-101	-99	+97	-97	-95	+93
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-117*	-117	+115	-109	-109	+107	-113	-112	+110	-105	-105	+103
Vertical Compressive Strain at Top of Subgrade (microstrain)	+232*	+158	-227	+225	+153	-221	+227	+154	-222	+219	+149	-215

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 425 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	646	646	636	707	707	693	639	639	628	719*	719	682		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+48	+48	-47	-147*	-147	+144	+43	+43	-43	-144	-144	+142		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-85	-85	+84	-141*	-141	+138	-79	-76	+75	-132	-131	+129		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-98*	-98	+96	-95	-95	+93	-95	-93	+91	-91	-89	+88		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-106*	-106	+104	-99	-99	+97	-103	-102	+101	-96	-95	+93		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+215*	-146	-211	+204	+139	-200	+211	+143	-207	+199	+136	-196		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 426 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	859	859	844	897	897	880	847	847	833	905*	905	865	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+36	+36	-35	-156*	-156	+153	+32	+32	-31	-153	-153	+151	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-161	-161	+158	-187*	-187	+183	-149	-149	+146	-175	-171	+167	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-204	-204	+200	-228*	-228	+223	-190	-189	+185	-210	-206	+203	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+332	+332	-326	+528*	+528	-518	+319	+319	-313	+495	+495	-485	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 427 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	826	826	813	866	866	850	816	816	802	876*	876	836		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+37	+37	-36	-153*	-153	+150	+33	+33	-32	-150	-150	+148		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-143	-143	+140	-169*	-168	+165	-133	-132	+130	-159	-154	+151		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-173	-173	+170	-189*	-189	+185	-163	-161	+158	-177	-172	+169		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-198	-198	+194	-207*	-207	+203	-186	-184	+181	-193	-190	+186		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+331	+219	-325	+455*	+309	-446	+319	+211	-313	+430	+291	-422		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 428 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	795	795	782	838	838	822	785	785	773	848*	848	809	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+38	+38	-38	-150*	-150	+148	+34	+34	-34	-148	-148	+146	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-131	-130	+128	-157*	-157	+154	-122	-120	+118	-148	-144	+141	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-152	-152	+149	-168*	-168	+165	-145	-141	+139	-160	-153	+150	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-182	-182	+179	-183*	-183	+179	-173	-171	+168	-172	-170	+166	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+320	+214	-314	+391*	+265	-383	+309	+206	-303	+373	+252	-365	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 429 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	767	767	755	813	813	797	758	758	746	823*	824	785	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-149*	-149	+146	+36	+36	-35	-146	-146	+144	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-122	-122	+119	-150*	-150	+147	-113	-112	+110	-141	-136	+134	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-139	-139	+136	-156*	-156	+153	-132	-129	+126	-148	-142	+139	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-165*	-165	+162	-161	-161	+158	-158	-157	+154	-153	-151	+148	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+303	+203	-297	+340*	+231	-333	+294	+197	-288	+327	+221	-320	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 430 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	742	742	730	790	791	775	733	733	721	801*	802	763	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-40	-148*	-148	+145	+37	+37	-36	-145	-145	+143	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-116	-116	+113	-144*	-144	+142	-107	-106	+104	-136	-131	+129	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-130	-130	+127	-149*	-148	+146	-124	-120	+118	-141	-134	+132	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-150*	-150	+147	-143	-143	+140	-143	-143	+140	-137	-135	+133	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+284	+191	-278	+299*	+203	-293	+276	+186	-271	+289	+196	-284	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 431 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	812	812	799	853	853	836	802	802	789	862*	863	823		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+37	+37	-37	-151*	-151	+148	+33	+33	-33	-149	-148	+146		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-134	-134	+132	-159*	-159	+156	-125	-124	+121	-151	-146	+143		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-191	-191	+187	-201*	-201	+197	-179	-179	+175	-187	-184	+180		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+323	+323	-317	+445*	+445	-437	+311	+311	-305	+421	+421	-413		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 432 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	782	782	769	825	825	809	772	772	760	836*	836	797	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+39	+39	-38	-149*	-149	+146	+35	+35	-34	-146	-146	+144	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-122	-122	+120	-149*	-149	+146	-114	-113	+110	-141	-136	+133	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-161	-161	+158	-166*	-166	+163	-153	-151	+148	-157	-153	+150	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-180	-180	+177	-181*	-181	+178	-171	-169	+166	-171	-168	+165	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+314	+209	-308	+389*	+264	-381	+303	+202	-297	+370	+251	-363	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 433 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	754	754	742	801	801	785	745	745	734	811*	812	773	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-147*	-147	+145	+36	+36	-35	-145	-145	+143	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-114	-114	+112	-142*	-142	+139	-106	-105	+103	-134	-129	+127	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-142	-142	+139	-148*	-147	+145	-135	-133	+130	-140	-136	+133	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-165*	-165	+161	-161	-161	+158	-157	-156	+153	-153	-151	+148	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+298	+200	-293	+338*	+230	-332	+289	+194	-284	+325	+220	-318	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 434 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	729	729	718	778	778	763	721	721	710	789*	790	751	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-41	-146*	-146	+144	+37	+37	-37	-144	-144	+141	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-108	-108	+106	-136*	-136	+134	-101	-99	+97	-129	-124	+122	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-129	-129	+127	-136*	-136	+134	-124	-121	+118	-130	-125	+123	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-149*	-149	+146	-142	-142	+140	-143	-142	+139	-137	-135	+132	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+280	+189	-275	+298*	+202	-292	+272	+184	-267	+287	+195	-282	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 435 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	707	707	696	758	759	744	699	699	688	769*	770	732	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-42	-145*	-145	+143	+38	+38	-38	-143	-143	+141	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-104	-104	+102	-133*	-133	+130	-97	-95	+93	-126	-121	+119	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-121	-121	+118	-129*	-129	+127	-116	-113	+111	-123	-118	+116	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-135*	-135	+132	-127	-127	+125	-130	-129	+126	-122	-121	+119	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+261	+177	-256	+265*	+180	-259	+254	+172	-249	+256	+174	-252	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 436 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	768	768	756	813	813	798	759	759	747	824*	824	785	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+39	+39	-39	-148*	-148	+145	+35	+35	-35	-145	-145	+143	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-116	-116	+114	-144*	-144	+141	-109	-107	+105	-136	-131	+128	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-174	-174	+170	-175*	-175	+172	-164	-163	+160	-164	-162	+159	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+305	+305	-299	+379*	+379	-372	+295	+295	-289	+362	+361	-354	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 437 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	742	742	730	789	790	774	733	733	722	800*	801	762	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-40	-146*	-146	+144	+37	+37	-36	-144	-144	+142	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-109	-108	+106	-137*	-137	+134	-102	-99	+98	-130	-124	+122	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-147*	-147	+144	-146	-146	+143	-140	-138	+136	-139	-136	+134	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-162*	-162	+159	-159	-159	+156	-155	-153	+151	-151	-149	+146	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+293	+197	-287	+335*	+228	-329	+284	+190	-278	+322	+218	-315	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 438 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	718	718	707	768	768	753	710	710	698	779*	779	741	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-145*	-145	+143	+38	+38	-37	-143	-143	+141	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-103	-103	+101	-132*	-132	+129	-96	-94	+92	-125	-121	+119	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-129	-129	+127	-130*	-129	+127	-124	-122	+120	-124	-121	+119	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-148*	-148	+145	-142	-142	+139	-142	-141	+138	-136	-134	+131	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+276	+186	-271	+296*	+201	-290	+268	+181	-263	+285	+194	-280	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 439 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	696	696	685	748	748	733	688	688	677	759*	760	722	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-42	-144*	-144	+142	+39	+39	-38	-142	-142	+140	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-99	-99	+97	-128*	-128	+126	-92	-90	+88	-122	-119	+117	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-118	-118	+116	-120*	-119	+117	-114	-111	+109	-114	-111	+109	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-134*	-134	+131	-127	-126	+124	-129	-128	+126	-122	-121	+118	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+258	+175	-253	+263*	+179	-258	+251	+170	-246	+255	+173	-250	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 440 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	677	677	666	730	731	716	669	669	658	742*	743	705	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-43	-144*	-144	+141	+39	+39	-39	-141	-141	+139	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-96	-96	+94	-126*	-126	+123	-89	-87	+85	-120	-117	+115	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-111	-111	+109	-113*	-113	+111	-107	-104	+102	-108	-105	+103	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-121*	-121	+119	-114	-113	+111	-117	-116	+114	-110	-109	+107	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+240*	+163	-235	+236	+160	-231	+234	+159	-230	+229	+156	-225	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 441 / Truck			Stress Load = 690 kPa				Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	730	730	719	779	779	764	722	722	710	790*	790	752
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-41	-146*	-145	+143	+37	+37	-37	-143	-143	+141
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-105	-105	+103	-133*	-133	+131	-98	-96	+94	-127	-122	+120
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-156*	-156	+153	-153	-153	+150	-148	-148	+145	-145	-143	+141
Vertical Compressive Strain at Top of Subgrade (microstrain)	+285	+285	-280	+327*	+327	-321	+276	+276	-271	+314	+314	-307

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 442 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	707	707	696	758	758	743	699	699	688	769*	770	732		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-42	-144*	-144	+142	+38	+38	-38	-142	-142	+140		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-99	-99	+97	-129*	-129	+126	-93	-91	+89	-123	-120	+117		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-133*	-133	+130	-129	-129	+126	-127	-126	+124	-123	-121	+119		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-146*	-146	+143	-140	-140	+137	-139	-139	+136	-134	-132	+130		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+271	+183	-266	+292*	+199	-287	+264	+178	-259	+282	+191	-277		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 443 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	686	686	675	739	739	724	678	678	667	750*	751	713	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-43	-144*	-144	+141	+39	+39	-39	-141	-141	+139	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-95	-95	+94	-127*	-126	+123	-89	-87	+85	-120	-118	+115	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-118*	-118	+115	-115	-114	+112	-113	-112	+110	-110	-109	+106	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-133*	-133	+130	-126	-126	+123	-128	-127	+125	-121	-120	+117	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+255	+172	-250	+261*	+177	-256	+248	+168	-243	+252	+172	-248	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 444 / Truck	Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	667	667	656	721	722	707	659	659	649	733*	734	696
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-43	-143*	-143	+141	+40	+40	-39	-141	-141	+139
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-92	-92	+91	-125*	-124	+122	-86	-84	+82	-118	-116	+114
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-108*	-108*	+106	-106	-106	+104	-104	-102	+100	-102	-99	+97
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-121*	-121	+118	-113	-113	+111	-116	-116	+114	-109	-108	+106
Vertical Compressive Strain at Top of Subgrade (microstrain)	+237*	+161	-233	+234	+159	-229	+232	+157	-227	+227	+155	-223

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 445 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	649	649	639	705	706	692	642	642	632	718*	718	681	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-143*	-143	+140	+40	+40	-40	-140	-140	+138	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-90	-90	+89	-124*	-123	+121	-84	-82	+80	-116	-115	+113	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-101*	-101	+99	-100	-100	+98	-98	-96	+94	-96	-93	+92	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-109*	-101	+107	-102	-102	+100	-106	-106	+103	-99	-98	+96	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+220*	+150	-216	+211	+144	-207	+215	+642	-211	+206	+140	-202	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 446 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	696	696	686	748	748	734	688	688	678	759*	760	723		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-42	-144*	-144	+141	+39	+39	-38	-142	-142	+139		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-97	-97	+95	-127*	-127	+124	-90	-88	+86	-121	-118	+116		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-140*	-140	+138	-135	-135	+132	-134	-133	+131	-129	-127	+125		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+265	+265	-260	+285*	+285	-279	+257	+257	-252	+275	+275	-270		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 447 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	676	676	666	730	730	716	668	668	658	741*	742	705	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-43	-143*	-143	+141	+40	+40	-39	-141	-141	+139	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-93	-93	+91	-125*	-125	+122	-87	-84	+83	-119	-117	+114	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-120*	-120	+118	-114	-114	+112	-115	-115	+112	-110	-109	+107	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-131*	-131	+128	-124	-124	+121	-126	-125	+123	-119	-118	+116	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+251	+170	-246	+258*	+175	-253	+244	+165	-239	+249	+170	-245	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 448 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	657	657	647	713	713	699	650	650	640	725*	726	688	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-44	-143*	-143	+140	+40	+40	-40	-140	-140	+138	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-90	-90	+89	-124*	-123	+121	-84	-82	+80	-117	-115	+113	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-107*	-120	+105	-102	-102	+100	-103	-102	+100	-98	-97	+95	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-120*	-109	+117	-112	-112	+110	-115	-115	+113	-108	-107	+105	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+235*	+159	-230	+232	+158	-227	+229	+155	-225	+225	+153	-221	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 449 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	641	641	631	697	698	684	633	633	623	710*	710	674	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-44	-142*	-142	+140	+41	+41	-40	-140	-140	+138	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-88	-88	+86	-123*	-122	+120	-82	-80	+78	-115	-114	+112	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-98*	-98	+96	-94	-94	+92	-95	-93	+92	-91	-89	+87	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-109*	-109	+107	-102	-101	+99	-105	-105	+103	-98	-98	+96	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+218*	+148	-214	+210	+143	-206	+213	+145	-209	+204	+139	-201	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 450 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	625	625	616	683	684	670	618	618	608	696*	697	660		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+45	+45	-45	-142*	-142	+139	+41	+41	-41	-140	-139	+137		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-86	-86	+85	-122*	-121	+119	-80	-78	+77	-114	-113	+111		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-92*	-92	+90	-89	-89	+87	-89	-88	+86	-86	-84	+82		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-99*	-99	+97	-92	-92	+90	-96	-96	+94	-89	-89	+87		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+202*	+138	-198	+191	+130	-187	+198	+135	-194	+186	+127	-183		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 451 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	818	818	805	857	857	841	808	808	796	867*	867	828		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+36	+36	-35	-149*	-149	+147	+32	+32	-31	-147	-147	+145		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-155	-155	+152	-174*	-174	+171	-144	-143	+141	-162	-159	+156		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-192	-192	+188	-209*	-209	+205	-179	-178	+175	-193	-190	+186		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+317	+317	-311	+474*	+474	-465	+305	+305	-299	+446	+446	-437		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 452 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	789	789	776	829	830	813	779	779	767	840*	840	801	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+37	+37	-363	-147*	-147	+144	+33	+33	-32	-145	-144	+142	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-138	-138	+136	-158*	-158	+155	-129	-128	+126	-147	-144	+141	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-164	-163	+160	-174*	-174	+171	-154	-153	+150	-164	-159	+156	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-184	-184	+180	-190*	-190	+186	-174	-172	+169	-178	-175	+172	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+314	+208	-308	+412*	+280	-404	+303	+201	-297	+391	+265	-383	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 453 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	761	761	749	804	804	787	752	752	740	815*	815	774	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+38	+38	-37	-145*	-145	+136	+34	+34	-34	-143	-143	+130	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-127	-127	+124	-147*	-147	+144	-118	-117	+115	-138	-134	+130	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-145	-145	+142	-156*	-156	+152	-138	-135	+132	-148	-143	+139	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-169*	-169	+166	-168	-168	+164	-161	-160	+156	-159	-157	+153	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+302	-202	-296	+357*	+242	+348	+292	+195	-286	+341	+231	-333	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 454 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	735	735	724	781	781	766	727	727	716	792*	793	755	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+39	+39	-39	-144*	-144	+141	+36	+36	-35	-142	-142	+139	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-119	-119	+116	-140*	-140	+138	-111	-109	+107	-131	-127	+125	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-132	-132	+130	-145*	-145	+142	-127	-123	+121	-138	-132	+130	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-154*	-154	+151	-148	-148	+146	-147	-146	+143	-142	-140	+137	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+285	+192	-279	+312*	+212	-306	+277	+186	-271	+301	+204	-295	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 455 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	712	712	701	761	761	746	704	704	693	772*	773	735		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-40	-143*	-143	+140	+37	+37	-36	-141	-141	+138		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-113	-113	+111	-136*	-135	+133	-105	-104	+102	-126	-122	+120		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-124	-124	+122	-138*	-138	+135	-119	-115	+113	-131	-125	+123		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-139*	-139	+136	-132	-132	+129	-134	-133	+130	-127	-125	+123		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+266	+180	-261	+276*	+187	-271	+259	+175	-254	+267	+181	-262		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 456 / Truck			Stress Load = 690 kPa				Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	775	775	763	817	817	802	766	766	754	828*	828	802
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+38	+38	-37	-146*	-145	+145	+34	+34	-33	-143	-143	+145
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-130	-130	+127	-149*	-149	+147	-122	-120	+118	-140	-136	+147
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-178	-178	+175	-184*	-184	+181	-168	-167	+164	-172	-170	+181
Vertical Compressive Strain at Top of Subgrade (microstrain)	+306	+306	-300	+404*	+403	-396	+295	+295	-290	+383	+383	-396

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 457 / Truck	Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	748	748	737	793	793	777	740	740	728	803*	804	766
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+39	+39	-38	-144*	-144	141	+35	+35	-34	-142	-142	+139
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-119	-119	+117	-140*	-140	+137	-112	-110	+108	-131	-127	+124
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-151	-151	+148	-154*	-154	+151	-144	-142	+140	-146	-142	+140
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-168*	-167	+164	-167	-167	+164	-159	-158	+155	-158	-155	+153
Vertical Compressive Strain at Top of Subgrade (microstrain)	+296	+198	-290	+354*	+241	-348	+287	+192	-281	+339	+230	-332

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 458 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm			
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	723	723	712	770	770	755	715	715	704	781*	782	744
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-143*	-143	+140	+36	+36	-35	-141	-140	+138
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-111	-111	+109	-133*	-133	+130	-104	-103	+101	-124	-120	+118
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-134	-134	+131	-137*	-137	+134	-128	-126	+123	-131	-127	+125
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-153*	-153	+150	-148	-148	+145	-146	-145	+142	-141	-140	+137
Vertical Compressive Strain at Top of Subgrade (microstrain)	+281	+189	-275	+311*	+211	-304	+273	+183	-267	+299	+203	-293

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 459 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm			
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	701	701	690	750	750	735	693	693	682	761*	762	724
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-402	-142*	-142	+139	+37	+37	-36	-140	-140	+137
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-106	-106	+104	-128*	-128	+126	-99	-97	+96	-120	-116	+113
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-122	-122	+120	-127*	-127	+124	-118	-115	+113	-121	-117	+115
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-138*	-138	+136	-132	-132	+129	-133	-132	+130	-127	-125	+123
Vertical Compressive Strain at Top of Subgrade (microstrain)	+263	+178	-258	+275*	+187	-269	+256	+173	-251	+266	+180	-260

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 460 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	681	681	670	731	732	717	673	673	663	743*	744	707	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-141*	-141	+139	+38	+38	-37	-139	-139	+137	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-102	-102	+100	-125*	-125	+122	-95	-94	+92	-116	-112	+110	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-115	-115	+113	-120*	-120	+118	-111	-108	+106	-115	-111	+108	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-125*	-125	+123	-118	-118	+116	-121	-120	+118	-114	-113	+111	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+245	+166	-240	+245*	+167	-240	+239	+162	-234	+238	+162	-234	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 461 / Truck			Stress Load = 690 kPa				Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	736	736	725	781	781	766	728	728	717	793*	793	755
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+39	+39	-39	-143*	-143	+141	+36	+36	-35	-141	-141	+139
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-114	-113	+111	-135*	-135	+132	-107	-105	+103	-126	-122	+120
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-162*	-162	+158	-161	-161	+158	-153	-152	+150	-152	-150	+147
Vertical Compressive Strain at Top of Subgrade (microstrain)	+288	+288	-283	+346*	+346	-339	+279	+279	-274	+331	+331	-324

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 462 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	712	712	701	760	760	745	704	704	693	771*	772	734		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-398	-142*	-142	+139	+37	+37	-36	-140	-140	+138		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-106	-106	+104	-129*	-129	+126	-100	-98	+96	-120	-116	+114		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-138*	-137	+135	-135	-135	+133	-131	-130	+128	-129	-127	+124		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-151*	-151	+148	-147	-147	+144	-144	-143	+140	-140	-138	+135		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+276	+186	-270	+308*	+209	-302	+268	+180	-263	+296	+201	-290		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 463 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	690	690	680	740	740	725	682	682	672	751*	752	715	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-41	-141*	-141	+139	+37	+37	-37	-139	-139	+137	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-101	-101	+99	-124*	-124	+122	-95	-93	+91	-116	-112	+109	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-122*	-122	+119	-121	-121	+118	-117	-115	+113	-116	-113	+111	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-138*	-138	+135	-131	-131	+129	-132	-131	+129	-126	-124	+122	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+260	+176	-255	+273*	+185	-267	+253	+171	-248	+264	+179	-259	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 464 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	670	670	660	722	722	708	663	663	653	734*	735	697
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-140*	-140	+138	+38	+38	-38	-138	-138	+136
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-97	-97	+95	-121*	-121	+118	-91	-89	+87	-112	-108	+106
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-112*	-112	+110	-111	-111	+109	-108	-106	+104	-107	-104	+102
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-125*	-125	+122	-118	-117	+115	-120	-120	+117	-113	-112	+110
Vertical Compressive Strain at Top of Subgrade (microstrain)	+242	+164	-238	+244*	+166	-239	+236	+160	-232	+236	+161	-232

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 465 / Truck	Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	652	652	642	705	705	692	645	645	635	718*	719	682
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-42	-140*	-140	+137	+39	+39	-38	-138	-138	+136
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-94	-94	+93	-118*	-118	+116	-88	-86	+85	-110	-106	+104
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-105	-105	+103	-105*	-105	+103	-101	-99	+97	-101	-98	+96
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-113*	-113	+111	-106	-106	+104	-109	-109	+107	-102	-102	+100
Vertical Compressive Strain at Top of Subgrade (microstrain)	+225*	+153	-221	+219	+149	-215	+220	+150	-216	+213	+145	-210

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 466 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	701	701	690	750	750	735	693	693	683	761*	762	725		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-40	-141*	-141	+139	+37	+37	-36	-139	-139	+137		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-103	-103	+101	-125*	-125	+123	-96	-94	+93	-117	-113	+111		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-145*	-145	+143	-141	-141	+138	-138	-138	+135	-134	-133	+130		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+269	+269	-264	+300*	+300	-294	+261	+261	-256	+289	+289	-283		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 467 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	680	680	670	731	731	716	673	673	662	743*	743	706		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-140*	-140	+138	+38	+38	-37	-138	-138	+136		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-98	-98	+96	-121*	-121	+119	-92	-90	+88	-113	-109	+107		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-124*	-124	+122	-120	-120	+117	-119	-118	+116	-115	-113	+111		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-136*	-135	+133	-129	-129	+127	-130	-129	+127	-124	-123	+120		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+255	+173	-250	+270*	+183	-264	+249	+168	-244	+261	+177	-256		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 468 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	661	661	651	713	713	699	653	653	643	725*	726	689	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-42	-140*	-140	+137	+39	+39	-38	-138	-138	+136	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-94	-94	+92	-118*	-118	+116	-88	-86	+84	-110	-106	+104	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-111*	-111	+108	-107	-107	+105	-107	-105	+103	-103	-101	+99	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-124*	-124	+121	-117	-117	+114	-119	-119	+116	-113	-111	+109	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+240	+162	-235	+242*	+164	-237	+234	+158	-229	+234	-160	-230	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 469 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	643	643	633	697	698	684	636	636	626	710*	710	674	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-42	-139*	-139	+137	+39	+39	-39	-137	-137	+135	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-91	-91	+90	-116*	-115	+113	-85	-83	+82	-107	-103	+101	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-102*	-102	+100	-99	-99	+97	-98	-97	+95	-95	-93	+91	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-112*	-112	+110	-105	-105	+103	-109	-108	+106	-102	-101	+99	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+223*	+152	-219	+218	+148	-213	+218	+148	-214	+212	+144	-208	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 470 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	627	627	618	682	683	669	620	620	611	696*	696	659	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-43	-139*	-139	+137	+40	+40	-39	-137	-137	+135	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-89	-89	+88	-114*	-114	+111	-83	-81	+80	-105	-101	+99	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-95*	-95	+94	-93	-93	+91	-92	-91	+89	-90	-88	+86	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-102*	-102	+100	-95	-95	+93	-99	-99	+97	-92	-92	+90	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+207*	+141	-203	+197	+134	-193	+203	+138	-199	+192	+131	-189	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 471 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	670	670	660	722	722	708	663	663	653	734*	735	698	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-42	-140*	-140	+138	+38	+38	-38	-138	-138	+136	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-95	-95	+93	-119*	-119	+117	-89	-87	+86	-111	-107	+105	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-131*	-131	+128	-125	-125	+122	-125	-125	+122	-119	-118	+116	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+249	+249	-245	+263*	+263	-258	+243	+243	-238	+254	+254	-250	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 472 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	652	652	642	705	705	691	645	645	635	717*	718	681	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-42	-139*	-139	+137	+39	+39	-38	-137	-137	+135	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-92	-92	+90	-116*	-116	+114	-86	-84	+82	-108	-104	+102	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-112*	-112	+110	-107	-107	+105	-108	-107	+105	-103	-102	+100	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-122*	-122	+120	-115	-115	+113	-117	-117	+115	-111	-110	+108	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+236	+160	-231	+239*	+162	-234	+230	+156	-226	+231	+158	-227	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 473 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	635	635	625	689	690	676	628	628	618	702*	703	666	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-43	-139*	-139	+137	+40	+40	-39	-137	-137	+135	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-89	-89	+88	-114*	-114	+111	-83	-81	+80	-105	-101	+99	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-100*	-100	+98	-95	-95	+94	-97	-96	+94	-92	-91	+89	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-112*	-112	+109	-105*	-104	+102	-108	-107	+105	-101	-100	+98	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+221*	+150	-216	+216	+147	-212	+216	+147	-212	+210	+143	-206	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 474 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	619	619	610	675	676	662	612	612	603	688*	689	652	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-43	-139*	-139	+136	+40	+40	-39	-136	-136	+134	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-87	-87	+86	-112*	-112	+110	-81	-79	+78	-104	-100	+98	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-92*	-92	+91	-88	-88	+86	-90	-88	+87	-85	-84	+82	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-102*	-102	+100	-95	-95	+93	-99	-98	+96	-92	-91	+89	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+205*	+140	-201	+196	+134	-192	+201	+137	-197	+191	+130	-187	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 475 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	605	605	596	662	663	649	598	598	589	676*	676	640
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-44	-138*	-138	+136	+40	+40	-40	-136	-136	+134
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-86	-86	+84	-110*	-110	+108	-80	-78	+76	-102	-98	+96
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-87*	-87	+85	-83	-83	+82	-84	-83	+81	-80	-79	+78
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-93*	-93	+91	-86	-86	+84	-90	-90	+88	-84	-83	+82
Vertical Compressive Strain at Top of Subgrade (microstrain)	+190*	+130	-187	+179	+122	-175	+187	+127	-183	+174	+119	-172

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 476 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	781	781	769	821	821	805	772	772	760	832*	832	793	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+37	+37	-36	-144*	-144	+142	+33	+33	-32	-142	-142	+140	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-147	-147	+144	-161*	-161	+158	-138	-137	+134	-150	-147	+144	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-179	-179	+175	-191*	-191	+187	-168	-167	+164	-177	-174	+171	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+301	+301	-295	+427*	+427	-419	+290	+290	-284	+404	+403	-396	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 477 / Truck	Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	754	754	742	796	796	781	745	745	734	807*	808	769
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+38	+38	-37	-143*	-142	+140	+34	+34	-33	-140	-140	+138
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-132	-132	+130	-147*	-147	+144	-124	-123	+121	-137	-134	+131
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-154	-154	+151	-161*	-161	+158	-146	-144	+141	-152	-148	+145
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-171	-171	+168	-174*	-174	+171	-162	-161	+158	-164	-161	+158
Vertical Compressive Strain at Top of Subgrade (microstrain)	+296	+198	-290	+374*	+254	-367	+286	+191	-281	+357	+242	-349

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 478 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	729	729	718	773	773	758	721	721	709	784*	785	747	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+39	+39	-38	-141*	-141	+139	+35	+35	-34	-139	-139	+137	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-122	-122	+119	-137*	-137	+135	-114	-113	+111	-128	-125	+122	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-137	-137	+134	-144*	-144	+142	-130	-128	+126	-137	-133	+130	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-157*	-157	+154	-155	-155	+152	-150	-149	+146	-147	-145	+142	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+284	+191	-278	+326*	+222	-320	+275	+185	-270	+313	+212	-307	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 479 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	705	705	695	752	752	737	698	698	687	764*	765	727	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-140*	-140	+138	+36	+36	-35	-138	-138	+136	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-114	-114	+112	-131*	-131	+128	-107	-106	+104	-122	-118	+116	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-126	-126	+123	-135*	-134	+132	-120	-117	+115	-128	-123	+121	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-143*	-143	+140	-137	-137	+134	-137	-136	+133	-131	-130	+127	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+268	+181	-262	+287*	+195	-282	+260	+175	-255	+277	+188	-272	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 480 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	685	685	674	733	734	719	677	677	667	745*	746	709	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-40	-139*	-139	+137	+37	+37	-36	-137	-137	+135	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-109	-109	+107	-126*	-126	+124	-102	-101	+99	-117	-114	+112	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-118	-118	+116	-128*	-128	+126	-113	-110	+108	-122	-117	+115	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-129*	-129	+127	-122	-122	+120	-124	-124	+121	-118	-117	+114	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+250	+169	-245	+255*	+174	-250	+244	+165	-239	+247	+168	-243	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 481 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	742	742	730	785	785	769	733	733	722	796*	797	758		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+38	+38	-38	-142*	-142	+139	+34	+34	-34	-140	-139	+137		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-125	-124	+122	-139*	-139	+136	-117	-116	+114	-130	-127	+124		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-166	-166	+163	-169*	-169	+166	-157	-156	+153	-159	-157	+154		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+289	+289	-284	+367*	+367	-360	+280	+280	-274	+349	+349	-342		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 482 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	717	717	706	762	763	748	709	709	699	774*	775	737		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+39	+39	-39	-140*	-140	+138	+36	+36	-35	-138	-138	+136		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-115	-115	+112	-130*	-130	+128	-108	-106	+104	-121	-118	+116		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-142	-142	+139	-142*	-142	+140	-135	-134	+131	-135	-132	+130		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-156*	-156	+153	-154	-154	+151	-148	-147	+145	-146	-144	+141		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+279	+188	-274	+324*	+220	-318	+271	+182	-265	+311	+211	-305		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 483 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	695	695	684	742	742	727	687	687	677	754*	755	717	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-40	-139*	-139	+137	+36	+36	-36	-137	-137	+135	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-108	-108	+106	-124*	-124	+122	-101	-100	+98	-115	-112	+110	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-126	-126	+124	-127*	-127	+125	-121	-119	+117	-122	-118	+116	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-142*	-142	+139	-137	-137	+134	-136	-135	+133	-131	-129	+127	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+264	+178	-259	+286*	+194	-280	+257	+173	-252	+276	+187	-270	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 484 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	674	674	664	723	724	709	667	667	657	736*	736	699		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-40	-139*	-139	+136	+37	+37	-37	-137	-136	+134		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-103	-103	+101	-120*	-120	+117	-96	-95	+93	-111	-108	+106		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-116	-116	+113	-118*	-118	+116	-111	-109	+107	-113	-109	+107		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-129*	-129	+126	-122	-122	+120	-124	-123	+121	-118	-116	+114		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+247	+168	-242	+254*	+173	-249	+241	+163	-236	+246	+167	-241		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 485 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	655	655	646	706	707	693	648	648	639	719*	720	683	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-138*	-138	+136	+38	+38	-37	-136	-136	+134	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-99	-99	+97	-116*	-116	+114	-93	-91	+89	-108	-105	+103	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-109	-109	+107	-112*	-112	+110	-105	-102	+100	-107	-104	+102	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-117*	-117	+114	-110	-110	+107	-113	-112	+110	-106	-105	+103	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+230*	+156	-226	+228	+155	-223	+225	+153	-221	+221	+151	-217	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 486 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	706	706	695	752	752	738	698	698	688	764*	765	727		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+40	+40	-39	-140*	-140	+137	+36	+36	-35	-138	-137	+135		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-110	-110	+107	-126*	-126	+123	-103	-102	+100	-117	-114	+112		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-151*	-150	+148	-148	-148	+146	-143	-142	+140	-141	-139	+136		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+272	+272	-267	+317*	+317	-311	+264	+264	-259	+304	+304	-298		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 487 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	684	684	674	732	733	718	677	677	667	744*	746	708	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-40	-139*	-139	+136	+37	+37	-36	-137	-137	+135	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-103	-103	+101	-120*	-120	+118	-97	-95	+93	-112	-108	+106	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-129*	-129	+126	-126	-126	+123	-123	-122	+120	-120	-118	+116	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-140*	-140	+138	-136	-135	+133	-134	-134	+131	-130	-128	+126	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+260	+175	-255	+283*	+193	-278	+253	+170	-248	+273	+186	-268	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 488 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	664	664	654	714	715	700	657	675	647	727*	728	690	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-138*	-138	+136	+38	+38	-37	-136	-136	+134	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-98	-98	+96	-116*	-116	+114	-92	-91	+89	-107	-104	+102	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-115*	-115	+112	-112	-112	+110	-110	-109	+107	-108	-106	+104	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-128*	-128	+126	-122	-122	+119	-123	-122	+120	-117	-116	+114	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+244	+166	-240	+252*	+172	-247	+238	+161	-234	+244	+166	-240	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 489 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	646	646	636	698	698	684	639	639	629	711*	711	674		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-138*	-137	+135	+38	+38	-38	-135	-135	+133		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-95	-95	+93	-113*	-113	+110	-89	-87	+86	-104	-101	+99		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-105*	-105	+103	-104	-104	+102	-102	-100	+98	-100	-98	+96		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-116*	-116	+114	-109	-109	+107	-112	-112	+110	-106	-105	+103		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+228*	+155	-223	+226	-154	-222	+223	+151	-218	+220	+150	-216		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 490 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	629	629	620	683	683	669	623	623	613	696*	697	660
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-42	-137*	-137	+135	+39	+39	-38	-135	-135	+133
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-92	-92	+90	-110*	-110	+108	-86	-85	+83	-102	-99	+97
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-99*	-99	+97	-98	-98	+96	-96	-94	+92	-94	-92	+90
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-105*	-105	+103	-99	-99	+97	-102	-102	+100	-96	-95	+93
Vertical Compressive Strain at Top of Subgrade (microstrain)	+212*	+144	-208	+205	+139	-200	+207	+141	-203	+199	+136	-196

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 491 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	674	674	664	723	724	709	667	667	657	736*	737	699
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+41	+41	-41	-138*	-138	+136	+37	+37	-37	-136	-136	+134
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-100	-100	+98	-117*	-117	+115	-94	-92	+90	-109	-105	+103
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-136*	-135	+133	-131	-131	+128	-129	-129	+126	-125	-124	+121
Vertical Compressive Strain at Top of Subgrade (microstrain)	+254	+254	-249	+277*	+276	-271	+247	+247	-242	+266	+267	-261

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 492 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	655	655	645	706	706	692	648	648	638	718*	719	682
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-41	-138*	-138	+135	+38	+38	-37	-136	-135	+133
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-95	-95	+93	-113*	-113	+111	-89	-88	+86	-105	-102	+100
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-116*	-116	+114	-112	-111	+109	-112	-111	+109	-107	-106	+104
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-126*	-126	+124	-120	-120	+118	-121	-121	+118	-115	-114	+112
Vertical Compressive Strain at Top of Subgrade (microstrain)	+241	+163	-236	+250*	+170	-245	+234	+159	-230	+242	+164	-237

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 493 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	637	637	628	690	690	676	630	630	621	703*	704	667
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-42	-137*	-137	+135	+39	+39	-38	-135	-135	+133
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-92	-92	+90	-110*	-110	+108	-86	-84	+83	-102	-99	+97
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-104*	-104	+102	-100	-100	+98	-100	-99	+97	-96	-95	+93
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-115*	-115	+113	-109	-109	+106	-111	-111	+109	-105	-104	+102
Vertical Compressive Strain at Top of Subgrade (microstrain)	+225*	+153	-221	+225	+153	-220	+220	+150	-216	+218	+149	-214

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 494 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	621	621	612	675	675	662	614	614	605	688*	689	652	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-42	-137*	-137	+134	+39	+39	-38	-135	-135	+133	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-89	-89	+88	-108*	-108	+106	-84	-82	+80	-99	-96	+94	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-96*	-96	+94	-92	-92	+91	-93	-91	+90	-89	-87	+86	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-105*	-105	+103	-98	-98	+96	-102	-101	+99	-95	-95	+93	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+210*	+143	-206	+203	+138	-199	+205	+140	-201	+198	+135	-194	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 495 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	606	606	597	661	661	649	600	600	591	675*	676	639		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-43	-136*	-136	+134	+40	+40	-39	-134	-134	+132		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-87	-87	+86	-106*	-106	+104	-82	-80	+78	-98	-95	+93		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-90*	-90	+88	-87	-87	+86	-87	-86	+84	-84	-83	+81		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-96*	-96	+94	-89	-89	+87	-93	-92	+91	-86	-86	+84		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+195*	+133	-191	+185	+126	-181	+191	+130	-187	+180	+123	-177		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 496 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	646	646	636	698	698	684	639	639	629	711*	711	675	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+42	+42	-42	-137*	-137	+135	+39	+39	-38	-135	-135	+133	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-93	-93	+91	-111*	-111	+109	-87	-85	+84	-103	-100	+98	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-122*	-122	+120	-116	-116	+114	-117	-117	+114	-111	-110	+108	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+235	+235	-231	+244*	+244	-239	+229	+229	-225	+236	+236	-232	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 497 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	629	629	619	682	683	669	622	622	613	695*	696	659	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-42	-137*	-137	+134	+39	+39	-38	-135	-135	+133	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-90	-90	+88	-108*	-108	+106	-84	-82	+81	-100	-97	+95	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-105*	-105	+103	-100	-100	+98	-102	-101	+99	-96	-95	+93	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-114*	-114	+112	-107	-107	+105	-110	-109	+107	-103	-102	+101	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+222*	+151	-218	+222	+151	-218	+217	+147	-213	+215	+147	-212	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 498 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	613	613	604	668	668	655	607	607	598	681*	682	646	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+43	+43	-43	-136*	-136	+134	+39	+39	-39	-134	-134	+132	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-87	-87	+86	-106*	-106	+104	-82	-80	+78	-98	-95	+93	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-94*	-94	+93	-89	-89	+88	-91	-90	+89	-86	-85	+84	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-104*	-104	+102	-98	-97	+96	-101	-100	+99	-94	-94	+92	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+208*	+141	-204	+202	+137	-198	+203	+138	-200	+196	+134	-193	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 499 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	599	599	590	655	655	642	592	592	584	669*	669	633	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-43	-136*	-136	+134	+40	+40	-39	-134	-134	+132	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-85	-85	+84	-104*	-104	+102	-80	-78	+77	-96	-93	+91	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-87*	-87	+85	-83	-83	+81	-85	-83	+77	-80	-79	+77	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-95*	-95	+93	-89	-89	+87	-92	-92	+90	-86	-86	+84	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+193*	+132	-190	+184	+125	-180	+190	+129	-186	+179	+122	-176	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 500 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	586	586	577	642	643	630	580	580	571	657*	657	621	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+44	+44	-43	-136*	-136	+133	+40	+40	-39	-134	-134	+132	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-84	-84	+82	-103*	-103	+101	-78	-77	+75	-95	-92	+90	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-82*	-82	+80	-78	-78	+77	-80	-78	+77	-76	-74	+73	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-87*	-87	+85	-81	-81	+79	-85	-84	+83	-79	-78	+77	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+180*	+123	-176	+168	+115	-165	+176	+120	-173	+164	+112	-162	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 501 / Truck			Stress Load = 690 kPa				Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	871	871	856	885	885	866	860	860	845	896*	896	852
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+37	+37	-22	-139*	-139	+136	+35	+35	-17	-133	-132	+130
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-142	-142	+140	-168*	-168	+165	-132	-131	+128	-163	-158	+155
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-188	-188	+185	-212*	-212	+208	-175	-174	+171	-197	-193	+190
Vertical Compressive Strain at Top of Subgrade (microstrain)	+327	+327	-321	+513*	+513	-503	+314	+314	-308	+483	+483	-473

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 502 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	841	841	826	857	857	838	830	830	816	869*	+869	825	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+32	+32	-23	-134*	-134	+132	+31	+31	-20	-129	-128	+126	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-128	-128	+126	-154*	-154	+151	-119	-118	+116	-150	-145	+142	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-161	-161	+158	-177*	-177	+174	-152	-150	+147	-167	-162	+159	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-188	-188	+185	-198*	-198	+194	-177	-176	+172	-185	-181	+178	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+332	+217	-325	+447*	+301	-438	+320	+209	-314	+423	+284	-415	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 503 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	811	811	797	830	830	812	801	801	788	842*	842	799	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+28	+28	-25	-131*	-131	+129	+27	+27	-22	-126	-125	+123	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-117	-117	+115	-144*	-144	+141	-109	-108	+106	-142	-136	+134	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-142	-142	+140	-159*	-159	+156	-135	-132	+130	-151	-145	+143	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-177	-177	+174	-177*	-177	+174	-168	-167	+164	-167	-165	+162	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+324	+215	-317	+388*	+262	-380	+313	+207	-307	+370	+249	-363	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 504 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	783	783	770	805	805	787	774	774	761	817*	818	775	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+28	+28	-27	-129*	-129	+127	+24	+24	-24	-124	-123	+121	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-110	-110	+108	-140*	-140	+137	-102	-101	+99	-136	-131	+129	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-130	-130	+127	-148*	-148	+145	-124	-120	+118	-141	-135	+132	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-163*	-163	+142	-158	-158	+140	-156	-155	+135	-151	-149	+131	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+308	+206	-301	+340*	+230	-228	+299	+200	-293	+327	+221	-218	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 505 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	757	758	745	783	783	765	749	749	736	795*	796	753	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+30	+30	-29	-128*	-128	+125	+26	+26	-26	-122	-122	+120	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-104	-104	+102	-138*	-137	+135	-97	-95	+94	-132	-129	+123	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-121	-121	+119	-140*	-140	+138	-116	-112	+110	-134	-128	+125	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-149*	-149	+123	-142	-142	+122	-143	-142	+116	-136	-134	+114	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+290	+195	-283	+302*	+204	-218	+283	+190	-277	+292	+197	-208	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 506 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	827	827	813	845	845	826	817	817	804	856*	856	813	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+30	+30	-24	-132*	-132	+130	+29	+29	-20	-127	-126	+124	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-121	-121	+119	-146*	-146	+143	-113	-111	+109	-144	-138	+136	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-183	-183	+180	-193*	-193	+189	-172	-171	+168	-179	-177	+174	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+325	+325	-318	+439*	+439	-431	+313	+313	-307	+416	+416	-408	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 507 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	798	798	785	818	818	800	789	789	776	830*	831	788		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+26	+26	-26	-129*	-129	+127	+25	+25	-22	-124	-123	+121		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-111	-111	+109	-139*	-139	+136	-103	-102	+100	-136	-130	+128		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-155	-155	+152	-160*	-160	+157	-147	-145	+143	-152	-148	+145		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-176	-176	+173	-177*	-177	+174	-167	-166	+162	-167	-164	+161		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+318	+211	-312	+387*	+261	-379	+308	+204	-302	+369	+249	-362		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 508 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	771	771	758	794	794	776	762	762	749	806*	807	764	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+28	+28	-28	-127*	-127	+125	+25	+25	-24	-122	-121	+119	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-103	-103	+101	-136*	-135	+133	-97	-95	+93	-130	-127	+125	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-136	-136	+134	-142*	-142	+140	-130	-128	+125	-136	-131	+129	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-163*	-163	+160	-159	-158	+155	-155	-154	+151	-151	-149	+146	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+304	+204	-298	+340*	+230	-333	+295	+197	-290	+326	+220	-320	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 509 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	746	746	733	771	771	754	737	737	725	784*	785	742	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+30	+30	-29	-126*	-126	+123	+26	+26	-26	-120	-120	+118	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-98	-98	+96	-134*	-133	+130	-92	-90	+88	-127	-125	+122	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-124	-124	+122	-132*	-132	+129	-119	-116	+114	-126	-121	+119	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-149*	-149	+146	-142	-142	+139	-143	-142	+139	-136	-134	+132	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+287	+193	-281	+301*	+203	-295	+279	+187	-274	+291	+196	-285	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 510 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	723	723	711	751	751	734	715	714	703	764*	764	722	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+31	+31	-31	-124*	-124	+122	+28	+28	-27	-119	-119	+117	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-94	-94	+92	-132*	-131	+129	-88	-86	+84	-125	-123	+120	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-116	-116	+114	-125*	-125	+122	-112	-108	+106	-119	-114	+112	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-136*	-135	+133	-128	-127	+125	-130	-130	+127	-123	-122	+119	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+268	+181	-263	+269*	+182	-263	+261	+176	-256	+261	+176	-256	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 511 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	785	785	772	807	807	788	776	776	76	819*	819	776		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+27	+27	-27	-128*	-128	+126	+24	+24	-23	-123	-122	+120		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-106	-106	+104	-137*	-136	+134	-99	-97	+95	-132	-128	+126		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-170	-170	+167	-171*	-171	+168	-161	-160	+157	-161	-159	+156		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+310	+310	-304	+378*	+378	-371	+300	+300	-295	+361	+361	-354		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 512 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	759	759	746	783	783	765	750	750	738	795*	796	753	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+29	+29	-28	-126*	-126	+124	+25	+25	-25	-120	-120	+118	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-99	-99	+97	-134*	-133	+131	-93	-91	+89	-127	-125	+123	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-144*	-144	+141	-143	-143	+140	-137	-136	+133	-136	-133	+131	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-161*	-161	+158	-157	-157	+154	-153	-152	+149	-150	-147	+145	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+299	+200	-293	+337*	+228	-330	+290	+194	-284	+324	+219	-317	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 513 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	734	734	722	761	761	744	726	726	714	774*	774	732	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+31	+31	-30	-124*	-124	+122	+27	+27	-27	-119	-119	+117	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-94	-94	+92	-132*	-131	+128	-88	-86	+84	-124	-123	+120	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-127	-127	+124	-127*	-127	+124	-122	-120	+118	-122	-118	+116	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-148*	-148	+145	-141	-141	+139	-142	-141	+138	-136	-134	+131	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+283	+190	-278	+299*	+203	-293	+275	+185	-270	+289	+195	-283	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 514 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	712	712	700	741	741	724	704	704	692	754*	754	713		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+32	+32	-31	-123*	-123	+121	+28	+28	-28	-118	-117	+115		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-90	-90	+88	-130*	-129	+127	-84	-82	+80	-122	-121	+118		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-116	-116	+114	-117*	-117	+115	-112	-109	+107	-112	-109	+107		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-135*	-135	+132	-127	-127	+125	-130	-129	+127	-123	-121	+119		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+265	+179	-260	+267*	+181	-262	+258	+174	-253	+259	+176	-254		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 515 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	692	692	680	722	723	706	684	684	673	736*	736	695	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+33	+33	-33	-122*	-122	+120	+30	+30	-29	-117	-116	+114	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-87	-87	+85	-128*	-127	+125	-81	-79	+78	-120	-119	+117	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-108	-108	+106	-110*	-110	+108	-105	-102	+100	-106	-102	+100	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-123*	-123	+121	-115	-115	+113	-119	-118	+116	-111	-110	+108	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+247*	+167	-242	+241	+163	-236	+241	+163	-237	+234	+159	-230	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 516 / Truck			Stress Load = 690 kPa				Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	747	747	735	772	772	755	739	739	727	785*	786	743
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+30	+30	-29	-125*	-125	+123	+26	+26	-26	-119	-119	+117
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-95	-95	+94	-132*	-132	+129	-89	-87	+86	-125	-123	+121
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-155*	-155	+152	-152	-152	+149	-148	-147	+144	-144	-142	+140
Vertical Compressive Strain at Top of Subgrade (microstrain)	+292	+292	-286	+329*	+329	-323	+283	+283	-278	+316	+316	-310

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 517 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	723	723	712	751	751	734	715	715	704	764*	765	722	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+31	+31	-31	-124*	-124	+121	+28	+28	-27	-118	-118	+116	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-91	-91	+89	-130*	-129	+127	-85	-83	+81	-123	-121	+119	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-132*	-132	+129	-128	-128	+125	-127	-125	+123	-122	-120	+118	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-146*	-146	+143	-140	-140	+137	-140	-139	+136	-134	-132	+130	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+278	+187	-273	+296*	+201	-290	+271	+182	-266	+286	+193	-280	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 518 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	701	701	690	731	731	715	694	694	682	744*	745	704	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+33	+33	-32	-122*	-122	+120	+29	+29	-29	-117	-117	+115	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-87	-87	+85	-128*	-128	+125	-81	-79	+78	-121	-119	+117	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-117*	-117	+114	-114	-113	+111	-113	-111	+109	-109	-107	+105	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-134*	-134	+132	-127	-126	+124	-129	-128	+126	-122	-121	+118	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+262	+177	-257	+265*	+180	-260	+255	+172	-250	+257	+174	-252	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 519 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	682	682	670	713	713	697	674	674	663	727*	728	686	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+34	+34	-33	-121*	-121	+119	+30	+30	-30	-116	-116	+114	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-84	-84	+83	-127*	-126	+124	-79	-76	+75	-119	-118	+116	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-107*	-107	+105	-105	-104	+102	-103	-101	+99	-101	-98	+96	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-122*	-122	+120	-115	-114	+112	-118	-118	+115	-111	-110	+108	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+244*	+166	-240	+239	+162	-234	+239	+162	-234	+232	+158	-228	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 520 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	664	664	653	697	697	681	656	656	646	711*	711	670	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+35	+35	-34	-121*	-121	+119	+31	+31	-31	-115	-115	+113	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-82	-82	+81	-126*	-125	+123	-76	-74	+73	-118	-117	+115	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-100*	-100	+98	-98	-98	+97	-97	-95	+93	-95	-92	+91	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-111*	-111	+109	-104	-104	+102	-108	-108	+105	-101	-100	+98	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+227*	+154	-223	+217	+147	-212	+222	+151	-218	+211	+144	-208	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 521 / Truck			Stress Load = 690 kPa				Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	713	713	701	741	741	724	705	705	693	754*	755	713
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+32	+32	-32	-123*	-123	+121	+29	+29	-28	-117	-117	+115
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-88	-88	+87	-129*	-128	+126	-83	-80	+79	-121	-120	+118
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-141*	-141	+138	-135	-135	+132	-134	-134	+131	-129	-128	+125
Vertical Compressive Strain at Top of Subgrade (microstrain)	+272	+272	-267	+289*	+289	-283	+264	+264	-259	+279	+279	-274

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 522 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	692	692	680	722	723	706	684	684	673	736*	737	695		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+33	+33	-33	-122*	-122	+120	+30	+30	-29	-116	-116	+114		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-85	-85	+83	-128*	-127	+124	-79	-77	+76	-120	-118	+116		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-120*	-120	+118	-115	-114	+112	-116	-115	+113	-110	-109	+107		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-132*	-132	+130	-125	-125	+122	-127	-126	+124	-120	-119	+117		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+258	+174	-253	+262*	+178	-257	+251	+170	-247	+254	+172	-249		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 523 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	672	672	661	705	705	689	665	665	654	719*	719	678		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+35	+35	-34	-121*	-121	+119	+31	+31	-30	-115	-115	+113		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-82	-82	+81	-126*	-125	+123	-77	-74	+73	-118	-117	+115		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-107*	-107	+105	-102	-102	+100	-103	-102	+100	-99	-97	+95		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-121*	-121	+119	-114	-114	+111	-117	-117	+114	-110	-109	+107		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+242*	+164	-237	+237	+161	-232	+236	+160	-232	+230	+157	-226		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 524 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	655	655	644	689	689	673	647	647	637	703*	704	663	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+35	+35	-35	-120*	-120	+118	+32	+32	-31	-114	-114	+112	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-80	-80	+79	-125*	-124	+122	-75	-72	+71	-117	-116	+114	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-98*	-98	+96	-94	-94	+92	-95	-93	+92	-91	-89	+87	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-111*	-111	+109	-103	-103	+101	-108	-107	+105	-100	-99	+98	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+225*	+153	-221	+215	+146	-211	+220	+150	-216	+210	+143	-206	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 525 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	639	639	628	674	675	659	632	632	621	689*	689	648	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+36	+36	-36	-119*	-119	+117	+33	+33	-32	-114	-114	+112	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-79	-79	+77	-124*	-123	+121	-73	-71	+69	-116	-115	+113	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-92*	-92	+90	-88	-88	+87	-89	-88	+86	-85	-84	+82	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-101*	-101	+99	-94	-94	+92	-98	-98	+96	-91	-91	+89	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+209*	+142	-205	+196	+133	-192	+205	+139	-201	+191	+131	-188	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 526 / Truck			Stress Load = 690 kPa				Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	835	835	821	850	850	831	825	825	811	862*	862	818
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+31	+31	-21	-129*	-129	+127	+29	+29	-18	-124	-124	+122
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-144	-144	+141	-164*	-164	+161	-134	-134	+131	-155	-152	+149
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-183	-183	+180	-200*	-200	+196	-171	-170	+167	-186	-183	+179
Vertical Compressive Strain at Top of Subgrade (microstrain)	+319	+319	-313	+468*	+468	-459	+308	+308	-302	+442	+441	-433

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 527 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	806	806	793	823	823	805	797	797	784	836*	836	793		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+27	+27	-23	-126*	-126	+124	+26	+26	-19	-121	-120	+118		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-130	-130	+127	-150*	-150	+147	-121	-120	+118	-142	-138	+136		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-157	-157	+154	-168*	-168	+165	-149	-147	+144	-159	-154	+151		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-180	-180	+176	-185*	-185	+182	-170	-168	+165	-174	-171	+168		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+319	+210	-313	+410*	+277	-402	+308	+203	-302	+389	+262	-382		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 528 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	779	779	766	798	798	780	770	770	757	811*	811	769	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+25	+25	-25	-124*	-124	+122	+22	+22	-21	-119	-118	+116	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-119	-119	+117	-141*	-140	+138	-112	-110	+108	-133	-130	+127	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-139	-139	+137	-151*	-151	+148	-133	-130	+128	-144	-138	+136	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-167*	-167	+164	-165	-165	+162	-159	-158	+155	-157	-155	+152	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+308	+205	-302	+357*	+242	-350	+299	+199	-293	+342	+231	-335	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 529 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	753	753	740	775	775	758	744	744	732	788*	789	746	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+27	+27	-26	-122*	-122	+120	+23	+23	-23	-117	-116	+114	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-112	-112	+110	-134*	-134	+132	-105	-103	+101	-127	-123	+121	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-128	-128	+125	-141*	-141	+138	-122	-119	+117	-134	-128	+126	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-153*	-153	+150[	-148	-148	+145	-147	-146	+143	-141	-139	+137	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+292	+196	-286	+315*	+213	-308	+284	+190	-278	+303	+205	-297	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 530 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	729	729	717	754	754	737	721	721	709	767*	768	726	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+28	+28	-28	-121*	-121	+119	+25	+25	-25	-115	-115	+113	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-107	-107	+105	-129*	-129	+127	-99	-9[8	+96	-123	-119	+117	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-120	-120	+117	-134*	-134	+131	-115	-111	+109	-127	-122	+119	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-140*	-140	+137	-132	-132	+130	-134	-134	+131	-127	-126	+123	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+274	+185	-269	+280*	+189	-274	+267	+180	-262	+271	+183	-266	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 531 / Truck			Stress Load = 690 kPa				Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	794	794	781	811	811	793	785	785	772	824*	824	781
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+25	+25	-23	-124*	-124	+122	+24	+24	-20	-119	-119	+117
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-123	-123	+120	-142*	-142	+140	-115	-113	+111	-136	-132	+129
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-175	-175	+171	-180*	-180	+177	-164	-164	+161	-168	-166	+163
Vertical Compressive Strain at Top of Subgrade (microstrain)	+312	+312	-306	+402*	+402	-395	+301	+301	-296	+382	+382	-375

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 532 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	766	766	754	787	787	769	758	758	746	800*	800	758		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+26	+26	-25	-122*	-122	+120	+22	+22	-22	-117	-117	+115		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-113	-113	+110	-134*	-134	+131	-106	-140	+102	-127	-123	+121		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-149	-149	+146	-151*	-151	+148	-141	-140	+137	-143	-140	+137		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-166*	-166	+163	-165	-165	+162	-158	-157	+154	-156	-154	+151		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+303	+202	-297	+356*	+241	-349	+294	+196	-288	+341	+230	-334		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 533 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm				
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	741	741	729	764	764	747	733	733	721	777*	778	736
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+27	+27	-27	-121*	-120	+118	+24	+24	-24	-115	-115	+113
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-105	-105	+103	-127*	-127	+125	-99	-97	+95	-122	-117	+115
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-131	-131	+129	-134*	-134	+132	-126	-124	+121	-128	-125	+122
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-153*	-153	+150	-148	-148	+145	-146	-145	+143	-141	-139	+137
Vertical Compressive Strain at Top of Subgrade (microstrain)	+288	+194	-283	+314*	+212	-307	+280	+188	-275	+302	+204	-296

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 534 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	718	718	706	743	743	726	710	710	699	757*	757	715	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+29	+29	-28	-119*	-119	+117	+26	+26	-25	-114	-114	+112	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-100	-100	+98	-123*	-123	+121	-94	-92	+90	-117	-113	+111	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-120	-120	+118	-124*	-124	+122	-115	-113	+111	-119	-115	+113	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-139*	-139	+137	-132	-132	+130	-134	-133	+131	-127	-126	+123	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+271	+183	-265	+279*	+189	-273	+264	+178	-259	+270	+183	-265	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 535 / Truck	Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	697	697	686	724	725	708	689	689	678	738*	739	697
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+30	+30	-30	-118*	-118	+116	+27	+27	-26	-113	-113	+111
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-96	-96	+95	-120*	-120	+117	-90	-88	+87	-114	-110	+108
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-113	-112	+110	-118*	-118	+116	-108	-105	+103	-113	-109	+106
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-127*	-127	+124	-119	-119	+117	-122	-122	+119	-115	-114	+112
Vertical Compressive Strain at Top of Subgrade (microstrain)	+253*	+171	-248	+250	+169	-245	+247	+167	-242	+243	+165	-238

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 536 / Truck			Stress Load = 690 kPa				Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	754	754	742	776	776	759	746	746	734	789*	790	747
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+27	+27	-26	-121*	-121	+119	+23	+23	-23	-116	-116	+114
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-108	-108	+106	-129*	-129	+127	-101	-99	+97	-123	-119	+117
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-161*	-160	+157	-160	-159	+156	-152	-152	+149	-151	-149	+146
Vertical Compressive Strain at Top of Subgrade (microstrain)	+296	+296	-290	+348*	+348	-341	+287	+287	-281	+333	+333	-326

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 537 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	730	730	718	754	754	737	722	722	710	767*	768	726	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+28	+28	-28	-119*	-119	+117	+25	+25	-24	-114	-114	+112	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-101	-101	+99	-123*	-123	+121	-95	-93	+91	-118	-113	+111	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-137*	-137	+134	-134	-134	+132	-131	-129	+127	-128	-126	+124	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-151*	-151	+148	-146	-146	+144	-144	-143	+141	-140	-138	+135	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+283	+190	-278	+311*	+211	-305	+275	+185	-270	+300	+203	-293	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

รายงานขั้นสุดท้าย
(Final Report)

โครงการวิจัยเพื่อจัดทำข้อกำหนดและวิธีการออกแบบ
โครงสร้างถนนลาดยางสำหรับประเทศไทย

Section - 538 / Truck	Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	707	707	696	733	734	717	699	699	688	747*	748	706
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+30	+30	-29	-118*	-118	+116	+26	+26	-26	-113	-113	+111
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-96	-96	+94	-119*	-119	+117	-90	-88	+86	-114	-109	+107
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-121*	-121	+119	-120	-120	+117	-116	-115	+112	-115	-112	+110
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-139*	-139	+136	-132	-132	+129	-133	-132	+130	-127	-125	+123
Vertical Compressive Strain at Top of Subgrade (microstrain)	+267	+180	-262	+277*	+188	-272	+260	+176	-255	+268	+182	-263

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 539 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	686	686	675	715	715	699	679	679	668	729*	730	688		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+31	+31	-30	-117*	-117	+115	+27	+27	-27	-112	-112	+110		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-92	-92	+90	-116*	-116	+114	-86	-84	+83	-111	-106	+104		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-111*	-111	+109	-110	-110	+108	-107	-105	+103	-106	-103	+101		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-126*	-126	+124	-119	-119	+116	-122	-121	+119	-115	-114	+111		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+250*	+169	-245	+248	+169	-244	+244	+165	-239	+241	+164	-237		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 540 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	668	668	657	698	698	682	660	660	650	712*	713	672
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+32	+32	-31	-116*	-116	+114	+28	+28	-28	-111	-111	+109
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-89	-89	+88	-113*	-113	+111	-84	-82	+80	-108	-104	+102
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-104	-104	+102	-104*	-104	+102	-100	-98	+96	-100	-97	+95
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-115*	-115	+113	-107	-107	+105	-111	-111	+109	-104	-103	+101
Vertical Compressive Strain at Top of Subgrade (microstrain)	+232*	+158	-228	+224	+152	-220	+227	+154	-223	+218	+149	-215

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 541 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	719	719	707	744	744	727	711	711	700	757*	758	716
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+29	+29	-28	-119*	-119	+117	+26	+26	-25	-113	-113	+111
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-97	-97	+96	-120*	-120	+118	-91	-90	+88	-115	-111	+109
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-146*	-146	+143	-141	-141	+138	-139	-138	+136	-135	-133	+131
Vertical Compressive Strain at Top of Subgrade (microstrain)	+277	+277	-271	+304*	+304	-298	+269	+269	-264	+292	+292	-287

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 542 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)		Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	697	697	686	724	724	708	689	689	678	738*	739	697
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+30	+30	-30	-117*	-117	+115	+27	+27	-27	-112	-112	+110
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-93	-93	+91	-116*	-116	+114	-87	-85	+83	-111	-107	+105
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-125*	-125	+122	-120	-120	+117	-120	-119	+117	-115	-113	+111
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-137*	-137	+134	-130	-130	+128	-131	-130	+128	-125	-124	+121
Vertical Compressive Strain at Top of Subgrade (microstrain)	+263	+177	-258	+274*	+186	-269	+256	+173	-251	+265	+180	-260

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 543 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	677	677	666	706	706	690	669	669	659	720*	721	680
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+32	+32	-31	-116*	-116	+114	+28	+28	-28	-111	-111	+109
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-89	-89	+88	-113*	-113	+111	-84	-82	+80	-108	-105	+103
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-111*	-111	+109	-107	-107	+105	-107	-106	+104	-103	-101	+99
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-126*	-125	+123	-118	-118	+116	-121	-120	+118	-114	-113	+111
Vertical Compressive Strain at Top of Subgrade (microstrain)	+247*	+167	-242	+247	+167	-242	+241	+163	-237	+239	+163	-235

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 544 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	658	658	648	689	690	674	651	651	641	704*	704	663
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+32	+32	-32	-116*	-116	+113	+29	+29	-29	-110	-110	+107
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-87	-87	+85	-111*	-111	+109	-81	-79	+78	-106	-103	+99
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-102*	-102	+100	-99	-98	+97	-98	-97	+95	-95	-93	+91
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-114*	-114	+112	-107	-107	+105	-111	-110	+108	-104	-103	+101
Vertical Compressive Strain at Top of Subgrade (microstrain)	+230*	+156	-226	+223	+151	-218	+225	+153	-221	+217	+148	-213

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 545 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	642	642	631	674	675	659	635	635	625	689*	690	649	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+33	+33	-33	-115*	-115	+113	+30	+30	-29	-110	-110	+108	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-85	-85	+83	-110*	-109	+107	-79	-77	+76	-104	-102	+100	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-95*	-95	+94	-93	-93	+91	-92	-91	+89	-90	-88	+86	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-104*	-104	+102	-97	-97	+95	-101	-101	+99	-94	-94	+92	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+214*	+145	-210	+203	+138	-199	+210	+142	-206	+198	+135	-194	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 546 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	687	687	676	715	715	699	679	679	669	729*	730	69	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+31	+31	-31	-117*	-117	+115	+28	+28	-27	-112	-111	+109	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-90	-90	+89	-114*	-114	+112	-85	-83	+81	-109	-105	+103	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-132*	-132	+129	-126	-126	+123	-126	-126	+124	-120	-119	+117	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+257	+257	-252	+268*	+268	-262	+250	+250	-245	+259	+259	-254	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 547 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	667	667	657	698	698	682	660	660	650	712*	713	672	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+32	+32	-32	-116*	-116	+114	+29	+29	-28	-111	-110	+109	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-87	-87	+85	-111*	-111	+109	-82	-80	+78	-107	-104	+100	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-113*	-113	+111	-107	-107	+105	-109	-109	+107	-104	-102	+100	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-124*	-124	+121	-116	-116	+114	-119	-119	+116	-112	-111	+109	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+243	+165	-239	+244*	+165	-239	+238	+161	-233	+237	+161	-232	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 548 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	649	649	639	681	682	666	643	643	633	696*	697	656	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+33	+33	-32	-115*	-115	+113	+30	+30	-29	-110	-110	+108	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-85	-85	+83	-110*	-110	+107	-79	-77	+76	-105	-102	+100	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-101*	-101	+99	-96	-96	+94	-98	-97	+95	-93	-92	+90	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-114*	-114	+111	-106	-106	+104	-110	-109	+107	-103	-102	+100	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+228*	+155	-224	+221	+150	-217	+223	+151	-219	+215	+146	-211	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 549 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	633	633	623	666	667	651	627	627	617	682*	682	642	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+34	+34	-33	-115*	-114	+112	+30	+30	-30	-109	-109	+107	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-83	-83	+81	-109*	-108	+105	-77	-75	+74	-103	-101	+99	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-93*	-93	+91	-89	-88	+89	-90	-89	+87	-86	-84	+83	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-104*	-104	+102	-97	-97	+95	-101	-100	+98	-94	-93	+91	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+212*	+144	-208	+201	+137	-197	+208	+141	-204	+196	+134	-193	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 550 / Truck	Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	618	618	609	653	654	638	612	612	602	668*	669	628
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+34	+34	-34	-114*	-114	+112	+31	+31	-30	-109	-109	+107
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-81	-81	+79	-108*	-107	+105	-75	-74	+72	-102	-100	+98
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-87*	-87	+86	-83	-83	+81	-85	-83	+82	-81	-79	+78
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-95*	-95	+93	-88	-88	+86	-92	-92	+90	-86	-85	+84
Vertical Compressive Strain at Top of Subgrade (microstrain)	+197*	+134	-193	+184	+125	-180	+193	+132	-190	+180	+123	-177

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 551 / Truck			Stress Load = 690 kPa				Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	800	800	787	816	816	798	791	791	778	829*	829	79
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+25	+25	-22	-123*	-123	+121	+24	+24	-19	-118	-117	+115
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-142	-142	+139	-156*	-156	+153	-132	-132	+129	-146	-143	+141
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-175	-175	+172	-187*	-187	+183	-164	-163	+160	-174	-171	+168
Vertical Compressive Strain at Top of Subgrade (microstrain)	+307	+307	-301	+427*	+427	-419	+296	+296	-294	+404	+403	-396

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 552 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	773	773	761	791	791	774	765	765	752	804*	805	762		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+24	+24	-23	-120*	-120	+118	+21	+21	-20	-115	-115	+113		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-128	-128	+125	-143*	-143	+140	-120	-119	+117	-134	-131	+128		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-151	-151	+148	-158*	-158	+155	-143	-141	+139	-149	-145	+143		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-170	-170	+166	-172*	-172	+169	-161	-160	+156	-162	-160	+157		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+304	+202	-298	+376*	+254	-368	+294	+195	-288	+358	+242	-351		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 553 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	747	747	735	768	768	751	739	739	727	781*	782	740	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+25	+25	-25	-118*	-118	+116	+22	+22	-22	-113	-113	+111	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-118	-118	+115	-134*	-134	+131	-110	-109	+107	-126	-122	+120	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-134	-134	+132	-142*	-142	+139	-128	-126	+123	-135	-131	+128	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-157*	-157	+154	-154	-154	+151	-150	-149	+146	-147	-144	+142	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+292	+195	-286	+329*	+223	-323	+283	189	-278	+316	214	-310	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 554 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	723	723	712	747	747	730	716	716	704	760*	761	719	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+27	+27	-27	-117*	-117	+115	+24	+24	-23	-112	-112	+110	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-111	-111	+109	-128*	-128	+125	-104	-103	+101	-120	-116	+114	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-123	-123	+121	-132*	-132	+130	-118	-115	+113	-126	-121	+119	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-144*	-144	+141	-138	-138	+135	-138	-137	+134	-132	-130	+128	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+276	+185	-270	+291*	+197	-285	+268	+180	-263	+281	+190	-276	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 555 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	702	702	691	727	727	711	694	694	683	741*	742	700	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+28	+28	-28	-116*	-116	+114	+25	+25	-25	-111	-110	+109	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-106	-106	+104	-123*	-123	+121	-99	-98	+96	-115	-112	+110	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-116	-116	+114	-126*	-126	+124	-111	-108	+106	-120	-115	+113	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-131*	-131	+128	-123	-123	+121	-126	-125	+123	-119	-118	+116	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+258	+174	-253	+260*	+176	-255	+252	+170	-247	+252	+171	-247	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 556 / Truck			Stress Load = 690 kPa				Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	761	761	749	780	780	763	753	753	741	793*	794	752
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+25	+25	-24	-119*	-119	+117	+21	+21	-21	-114	-114	+112
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-121	-121	+118	-136*	-136	+133	-113	-112	+110	-128	-124	+122
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-165	-165	+162	-168*	-167	+164	-156	-155	+152	-157	-155	+152
Vertical Compressive Strain at Top of Subgrade (microstrain)	+297	+297	-291	+369*	+369	-362	+288	+288	-282	+352	+351	-345

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 557 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	736	736	724	758	758	740	728	728	716	771*	772	730	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+26	+26	-26	-117*	-117	+115	+23	+23	-23	-112	-112	+110	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-111	-111	+109	-127*	-127	+125	-105	-103	+101	-120	-116	+114	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-141*	-141	+138	-141	-141	+139	-134	-133	+131	-134	-132	+129	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-156*	-156	+153	-153	-153	+150	-149	-148	+145	-146	-144	+141	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+287	+192	-281	+328*	+222	-321	+279	+186	-273	+315	+213	-308	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 558 / Truck			Stress Load = 690 kPa				Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	712	712	701	736	737	720	705	705	694	750*	751	709
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+28	+28	-27	-116*	-116	+114	+24	+24	-24	-111	-110	+109
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-104	-104	+102	-121*	-121	+119	-98	-97	+95	-114	-111	+109
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-125	-125	+123	-126*	-126	+124	-120	-118	+116	-121	-118	+115
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-143*	-143	+140	-138	-138	+135	-137	-136	+134	-132	-130	+128
Vertical Compressive Strain at Top of Subgrade (microstrain)	+272	+183	-267	+290*	+197	-284	+265	+178	-260	+280	+190	-275

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 559 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	691	691	680	717	717	701	684	684	673	731*	732	691	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+29	+29	-28	-115*	-115	+113	+26	+26	-25	-110	-109	+107	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-99	-99	+98	-117*	-117	+115	-93	-92	+90	-110	-106	+104	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-115	-115	+113	-117*	-117	+115	-111	-108	+106	-112	-109	+107	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-130*	-130	+128	-123	-123	+121	-126	-125	+123	-119	-118	+116	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+255	+172	-250	+259*	+176	-254	+249	+168	-244	+251	+170	-246	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 560 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	672	672	647	700	700	669	665	665	640	714*	715	660		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+30	+30	-29	-114*	-114	+110	+27	+27	-26	-109	-108	+105		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-96	-96	+92	-114*	-114	+109	-90	-88	+85	-107	-103	+99		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-108	-108	+104	-111*	-111	+107	-104	-102	+98	-106	-103	+99		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-119*	-119	+114	-111	-111	+107	-115	-114	+110	-108	-107	+102		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+238*	+161	-228	+233	+158	-223	+232	+157	-223	+226	+154	-218		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 561 / Truck			Stress Load = 690 kPa				Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	724	724	713	747	747	730	717	717	705	761*	762	720
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+27	+27	-27	-116*	-116	+114	+24	+24	-23	-111	-111	+109
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-106	-106	+104	-123*	-123	+121	-100	-99	+97	-116	-112	+110
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-151*	-151	+148	-148	-148	+146	-143	-143	+140	-141	-139	+136
Vertical Compressive Strain at Top of Subgrade (microstrain)	+280	+280	-275	+320*	+320	-314	+272	+272	-267	+308	+307	-301

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 562 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	702	702	691	727	727	710	694	694	684	741*	742	700		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+28	+28	-28	-115*	-115	+113	+25	+25	-25	-110	-110	+108		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-100	-100	+98	-117*	-117	+115	-94	-93	+91	-110	-107	+105		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-129*	-129	+127	-126	-126	+123	-124	-123	+120	-120	-118	+116		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-142*	-141	+139	-136	-136	+134	-136	-135	+132	-130	-129	+126		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+268	+180	-263	+288*	+195	-282	+261	+175	-256	+278	+188	-272		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 563 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm			
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	681	681	670	708	708	692	674	674	663	722*	723	682
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+30	+30	-29	-114*	-114	+112	+26	+26	-26	-109	-109	+107
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-95	-95	+93	-113*	-113	+111	-90	-88	+86	-106	-103	+101
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-115*	-115	+113	-112	-112	+110	-111	-109	+107	-108	-106	+104
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-130*	-130	+127	-123	-123	+121	-125	-124	+122	-118	-117	+115
Vertical Compressive Strain at Top of Subgrade (microstrain)	+252	+170	-247	+257*	+175	-252	+246	+166	-241	+249	+169	-245

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 564 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm			
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	662	662	652	691	691	675	655	655	645	705*	706	665
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+31	+31	-30	-113*	-113	+111	+27	+27	-27	-108	-108	+106
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-92	-92	+90	-110*	-110	+108	-86	-85	+83	-103	-100	+98
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-105*	-105	+103	-104	-104	+102	-102	-100	+98	-100	-98	+96
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-118*	-118	+116	-111	-111	+109	-114	-114	+111	-107	-106	+104
Vertical Compressive Strain at Top of Subgrade (microstrain)	+235*	+160	-231	+232	+157	-227	+230	+156	-226	+225	+153	-221

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 565 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	645	645	635	675	675	660	638	638	628	690*	691	650		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+32	+32	-31	-112*	-112	+110	+28	+28	-28	-107	-107	+105		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-89	-89	+87	-108*	-108	+106	-84	-82	+80	-101	-97	+96		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-99*	-99	+97	-98	-98	+96	-96	-94	+92	-94	-92	+90		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-108*	-108	+106	-100	-100	+98	-104	-104	+102	-97	-97	+95		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+219*	+149	-215	+210	+142	-205	+214	+146	-210	+204	+139	-201		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 566 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	691	691	681	718	718	701	684	684	674	732*	733	691		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+29	+29	-29	-114*	-114	+112	+26	+26	-25	-109	-109	+107		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-97	-97	+95	-115*	-115	+112	-91	-89	+88	-108	-104	+102		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-137*	-137	+134	-132	-132	+129	-131	-130	+128	-126	-124	+122		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+262	+261	-256	+281*	+281	-275	+255	+254	-250	+271	+271	-266		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 567 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	671	671	661	699	700	684	664	664	654	714*	715	674	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+30	+30	-30	-113*	-113	+111	+27	+27	-27	-108	-108	+106	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-92	-92	+91	-111*	-111	+109	-87	-85	+84	-104	-100	+99	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-118*	-117	+115	-112	-112	+110	-113	-112	+110	-108	-107	+105	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-128*	-128	+125	-121	-121	+119	-123	-122	+120	-117	-116	+113	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+248	+168	-243	+255*	+173	-249	+242	+164	-237	+247	+167	-242	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 568 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	653	653	643	682	683	667	646	646	636	697*	698	657	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+31	+31	-31	-112*	-112	+110	+28	+28	-28	-107	-107	+105	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-89	-89	+87	-108*	-108	+106	-84	-82	+80	-101	-97	+96	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-105*	-105	+103	-101	-101	+99	-101	-100	+98	-97	-95	+94	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-117*	-117	+115	-110	-110	+108	-113	-113	+111	-107	-106	+104	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+233*	+158	-228	+230	+156	-225	+228	+154	-223	+223	+152	-219	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 569 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	636	636	626	667	668	652	629	629	620	682*	683	642
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+32	+32	-32	-112*	-112	+110	+288	+288	-28	-107	-106	+105
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-86	-86	+85	-106*	-105	+103	-81	-79	+78	-98	-95	+93
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-96*	-96	+94	-93	-93	+91	-93	-92	+90	-90	-88	+86
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-107*	-107	+105	-100	-100	+98	-104	-103	+101	-97	-96	+95
Vertical Compressive Strain at Top of Subgrade (microstrain)	+217*	+147	-213	+208	+142	-204	+212	+144	-208	+203	+138	-199

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 570 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	620	620	611	653	654	638	614	614	605	668*	669	629		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+33	+33	-32	-111*	-111	+109	+29	+29	-29	-106	-106	+104		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-84	-84	+83	-104*	-104	+102	-79	-77	+76	-97	-93	+92		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-91*	-91	+89	-88	-88	+86	-88	-86	+85	-85	-83	+81		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-98*	-98	+96	-91	-91	+89	-95	-95	+93	-88	-88	+86		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+201*	+137	-198	+190	+129	-186	+198	+134	-194	+185	+126	-182		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 571 / Truck			Stress Load = 690 kPa				Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	662	662	652	691	691	675	655	655	645	705*	707	666
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+31	+31	-30	-113*	-113	+111	+28	+28	-27	-108	-107	+106
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-90	-90	+88	-109*	-109	+107	-85	-83	+81	-102	-98	+97
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-124*	-124	+121	-117	-117	+115	-119	-118	+116	-113	-112	+110
Vertical Compressive Strain at Top of Subgrade (microstrain)	+243	+243	-238	+249*	+248	-244	+237	+237	-232	+241	+241	-236

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 572 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	644	644	634	675	675	660	638	638	628	690*	691	650		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+32	+32	-31	-112*	-112	+110	+29	+29	-28	-107	-107	+105		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-87	-87	+85	-106*	-106	+104	-82	-80	+78	-99	-96	+94		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-107*	-107	105	-101	-101	+99	-103	-102	+100	-97	-96	+95		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-116*	-116	+113	-109	-109	+107	-112	-111	+109	-105	-104	+102		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+230*	+156	-225	+227	+154	-223	+224	+152	-220	+221	+150	-217		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 573 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	628	628	618	660	660	645	621	621	612	675*	676	635	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+33	+33	-32	-111*	-111	+109	+29	+29	-29	-106	-106	+104	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-84	-84	+83	-104*	-104	+102	-79	-77	+76	-97	-94	+92	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-95*	-95	+94	-90	-90	+89	-93	-92	+90	-88	-86	+85	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-106*	-106	+104	-99	-99	+97	-103	-103	+101	-96	-96	+94	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+215*	+146	-211	+207	+141	-203	+210	+143	-206	+201	+137	-198	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 574 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	613	613	603	646	646	631	606	606	597	661*	662	622	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+33	+33	-33	-111*	-111	+109	+30	+30	-29	-106	-105	+104	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-83	-83	+81	-102*	-102	+100	-77	-76	+74	-95	-92	+90	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-88*	-88	+86	-84	-83	+82	-86	-84	+83	-81	-80	+78	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-97*	-97	+95	-91	-91	+89	-95	-94	+92	-88	-88	+85	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+200*	+136	-196	+189	+128	-185	+196	+133	-192	+184	+126	-181	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 575 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	599	599	590	633	634	619	593	593	584	649*	650	610	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+34	+34	-33	-110*	-110	+108	+30	+30	-30	-105	-105	+103	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-81	-81	+80	-101*	-101	+99	-76	-74	+73	-94	-90	+89	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-83*	-83	+81	-79	-79	+77	-81	-79	+78	-76	-75	+74	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-89*	-89	+87	-83	-83	+81	-87	-86	+85	-81	-80	+79	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+186*	+127	-182	+173	+118	-169	+182	+124	-179	+169	+115	-166	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 576 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	766	766	754	784	784	766	758	758	746	797*	798	755		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+24	+24	-23	-118*	-118	+116	+20	+20	-20	-113	-113	+111		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-136	-136	+134	-147*	-147	+144	-128	-128	+125	-137	-135	+132		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-165	-165	+162	-173*	-173	+170	-156	-155	+152	-162	-159	+156		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+293	+293	-287	+389*	+389	-382	+283	+283	-278	+369	+369	-362		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 577 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	741	741	729	761	761	744	733	733	722	775*	776	733	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+25	+25	-25	-116*	-116	+114	+22	+22	-22	-111	-111	+109	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-124	-124	+121	-134*	-134	+132	-116	-115	+113	-126	-123	+121	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-143	-143	+140	-147*	-147	+145	-136	-135	+132	-140	-136	+134	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-159	-159	+156	-160*	-160	+157	-151	-150	+147	-151	-149	+146	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+288	+192	-282	+345*	+234	-338	+279	+186	-274	+330	+223	-323	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 578 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	717	717	706	740	740	723	710	710	699	754*	755	713	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+27	+27	-26	-114*	-114	+112	+23	+23	-23	-109	-109	+107	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-114	-114	+112	-126*	-126	+124	-108	-107	+105	-118	-115	+113	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-128	-128	+126	-133*	-133	+130	-123	-120	+118	-127	-123	+121	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-147*	-147	+144	-143*	-143	+140	-141	-140	+137	-137	-135	+132	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+276	+185	-270	+304*	+206	-298	+268	+180	-263	+293	+198	-287	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 579 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	695	695	685	720	720	704	688	688	678	734*	735	694		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+28	+28	-27	-113*	-113	+111	+25	+25	-24	-108	-108	+106		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-108	-108	+106	-120*	-120	+118	-101	-100	+98	-112	-110	+108		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-118	-118	+116	-124*	-124	+122	-113	-111	+109	-118	-114	+112		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-134*	-134	+132	-128	-128	+126	-129	-128	+126	-123	-122	+119		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+260	+175	-255	+270*	+183	-265	+253	+171	-248	+261	+177	-256		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 580 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	675	675	665	702	702	686	669	669	658	717*	717	676	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+29	+29	-29	-112*	-112	+110	+26	+26	-25	-107	-107	+105	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-103	-103	+101	-116*	-116	+114	-97	-96	+94	-108	-105	+104	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-111	-111	+109	-118*	-118	+116	-107	-104	+102	-112	-108	+106	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-122*	-122	+120	-115	-115	+113	-118	-117	+115	-111	-110	+108	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+243*	+164	-238	+242	+164	-237	+237	+160	-233	+235	+160	-231	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 581 / Truck			Stress Load = 690 kPa				Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	730	730	718	751	751	734	722	722	711	765*	765	724
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+26	+26	-25	-115*	-115	+113	+23	+23	-22	-110	-110	+108
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-117	-117	+115	-128*	-128	+125	-110	-109	+107	-120	-117	+115
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-155	-155	+152	-155*	-155	+152	-147	-146	+143	-147	-145	+142
Vertical Compressive Strain at Top of Subgrade (microstrain)	+282	+282	-276	+339*	+338	-332	+273	+273	-268	+324	+323	-317

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 582 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	707	707	696	730	730	714	699	699	689	744*	745	703		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+27	+27	-27	-113*	-113	+111	+24	+24	-24	-108	-108	+106		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-108	-108	+106	-120*	-120	+118	-102	-101	+99	-112	-110	+108		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-133*	-133	+131	-132	-132	+129	-127	-126	+124	-126	-123	+121		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-146*	-146	+143	-143	-142	+140	-140	-139	+136	-136	-134	+132		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+271	+182	-266	+302*	+205	-296	+264	+177	-259	+291	+197	-285		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 583 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	685	685	675	711	711	694	678	678	668	725*	726	685		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+29	+29	-28	-112*	-112	+110	+25	+25	-25	-107	-107	+105		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-102	-102	+100	-114*	-114	+112	-96	-95	+93	-107	-104	+102		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-119*	-119	+117	-118	-118	+116	-114	-112	+110	-113	-111	+109		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-134*	-134	+132	-128	-128	+126	-129	-128	+126	-123	-122	+119		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+257	+173	-252	+269*	+183	-264	+250	+169	-245	+260	+176	-255		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 584 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	665	665	655	693	693	677	659	659	649	707*	708	667	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+30	+30	-29	-111*	-111	+109	+26	+26	-26	-106	-106	+104	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-97	-97	+95	-110*	-110	+108	-91	-90	+88	-103	-100	+98	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-109	-109	+107	-110*	-110	+108	-105	-103	+101	-105	-102	+101	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-122*	-122	+120	-115	-115	+113	-118	-117	+115	-111	-110	+108	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+240	+163	-236	+241*	+164	-236	+235	+159	-230	+234	+159	-230	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 585 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	648	648	638	677	677	661	641	641	631	692*	692	652		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+31	+31	-30	-111*	-111	+109	+27	+27	-27	-106	-105	+104		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-94	-94	+92	-107*	-107	+105	-88	-87	+85	-100	-97	+95		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-103	-103	+101	-104*	-104	+102	-99	-97	+95	-100	-97	+95		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-111*	-111	+109	-104	-104	+102	-107	-107	+105	-101	-100	+98		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+224*	+152	-219	+217	+148	-213	+219	+149	-215	+212	+144	-208		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 586 / Truck			Stress Load = 690 kPa				Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	696	696	685	721	721	704	689	689	678	735*	736	694
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+28	+28	-28	-113*	-113	+111	+25	+25	-24	-108	-107	+106
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-104	-104	+102	-116*	-116	+114	-98	-97	+95	-109	-106	+104
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-141*	-141	+139	-138	-138	+135	-135	-134	+132	-131	-130	+127
Vertical Compressive Strain at Top of Subgrade (microstrain)	+265	+265	-260	+296*	+296	-290	+258	+258	-253	+285	+284	-279

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 587 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	675	675	665	702	702	686	668	668	658	716*	717	676		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+29	+29	-29	-112*	-112	+110	+26	+26	-26	-107	-106	+105		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-98	-98	+96	-111*	-111	+109	-92	-91	+89	-103	-101	+99		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-122*	-122	+119	-118	-118	+115	-117	-116	+114	-113	-111	+109		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-132*	-132	+130	-127	-127	+124	-127	-126	+124	-122	-120	+118		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+253	+171	-248	+267*	+181	-261	+246	+166	-241	+258	+175	-253		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

Section - 588 / Truck			Stress Load = 690 kPa				Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	656	656	646	684	685	669	650	650	640	699*	700	659
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+30	+30	-30	-111*	-111	+109	+27	+27	-27	-106	-105	+104
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-93	-93	+91	-107*	-107	+105	-88	-86	+85	-100	-97	+95
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-109*	-109	+107	-106	-105	+103	-105	-104	+102	-102	-100	+98
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-121*	-121	+119	-115	-115	+113	-117	-116	+114	-111	-110	+108
Vertical Compressive Strain at Top of Subgrade (microstrain)	+238	+161	-233	+239*	+163	-235	+232	+157	-228	+232	+158	-228

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 589 / Truck	Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	639	639	629	668	669	653	632	632	623	684*	684	644
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+31	+31	-31	-110*	-110	+108	+28	+28	-27	-105	-105	+103
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-90	-90	+88	-104*	-104	+102	-85	-83	+82	-97	-94	+92
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-100*	-100	+98	-98	-98	+96	-97	-95	+93	-94	-92	+90
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-111*	-111	+109	-104	-104	+102	-107	-107	+105	-101	-100	+98
Vertical Compressive Strain at Top of Subgrade (microstrain)	+222*	+151	-217	+216	+147	-212	+217	+147	-213	+210	+143	-207

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 590 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	623	623	613	654	654	639	616	616	607	669*	670	630	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+32	+32	-31	-109*	-109	+108	+29	+29	-28	-104	-104	+102	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-87	-87	+86	-102*	-101	+100	-82	-81	+79	-94	-92	+90	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-94*	-94	+92	-92	-92	+91	-91	-89	+88	-89	-87	+85	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-101*	-101	+99	-94	-94	+92	-98	-97	+96	-91	-91	+89	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+206*	+140	-202	+196	+134	-192	+202	+137	-198	+191	+131	-188	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 591 / Truck			Stress Load = 690 kPa				Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	666	666	656	693	693	677	659	659	649	708*	709	668
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+30	+30	-29	-111*	-111	+109	+27	+27	-26	-106	-106	+104
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-94	-94	+93	-108*	-108	+106	-89	-88	+86	-101	-98	+96
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-128*	-128	+126	-123	-123	+120	-123	-122	+120	-117	-116	+114
Vertical Compressive Strain at Top of Subgrade (microstrain)	+247	+247	-242	+261*	+260	-255	+241	+241	-236	+252	+252	-247

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 592 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	647	647	637	676	677	661	641	641	631	691*	692	652		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+31	+31	-30	-110*	-110	+108	+28	+28	-27	-105	-105	+103		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-90	-90	+89	-104*	-104	+102	-85	-84	+82	-97	-94	+93		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-111*	-111	+108	-105	-105	+103	-107	-106	+104	-102	-100	+98		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-120*	-120	+118	-113	-113	+111	-115	-115	+113	-109	-108	+106		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+234	+159	-230	+237*	+161	-232	+229	+155	-224	+230	+156	-226		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 593 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	630	630	621	661	661	646	624	624	614	676*	677	636
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+32	+32	-31	-110*	-109	+108	+28	+28	-28	-104	-104	+103
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-87	-87	+86	-102*	-101	+100	-82	-81	+79	-94	-92	+90
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-99*	-99	+97	-95	-94	+93	-96	-95	+93	-91	-90	+88
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-110*	-110	+108	-103	-103	+101	-106	-106	+104	-100	-99	+97
Vertical Compressive Strain at Top of Subgrade (microstrain)	+219*	+149	-215	+215	+146	-210	+215	+146	-211	+209	+142	-205

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 594 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	615	615	605	646	647	632	608	608	599	662*	663	623	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+32	+32	-32	-109*	-109	+107	+29	+29	-29	-104	-104	+102	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-85	-85	+83	-99*	-99	+97	-80	-78	+77	-92	-90	+88	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-91*	-91	+89	-87	-87	+86	-89	-87	+86	-85	-83	+82	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-100*	-100	+99	-94	-94	+92	-97	-97	+95	-91	-90	+89	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+204*	+139	-200	+195	+133	-191	+200	+136	-197	+190	+130	-187	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 595 / Truck	Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	600	600	591	633	634	619	594	594	585	649*	650	610
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+33	+33	-32	-109*	-108	+107	+30	+30	-29	-103	-103	+102
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-83	-83	+81	-98*	-98	+96	-78	-76	+75	-90	-88	+86
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-86*	-86	+84	-83	-83	+81	-84	-82	+81	-80	-78	+77
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-92*	-92	+90	-85	-85	+84	-89	-89	+87	-83	-83	+81
Vertical Compressive Strain at Top of Subgrade (microstrain)	+190*	+129	-186	+178	+121	-175	+187	+127	-183	+174	+119	-171

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 596 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	639	639	629	669	669	653	632	632	623	684*	685	644		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+31	+31	-31	-110*	-110	+108	+28	+28	-28	-105	-105	+103		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-88	-88	+87	-102*	-102	+100	-83	-82	+80	-95	-93	+91		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-116*	-116	+114	-110	-109	+107	-111	-111	+109	-105	-105	+103		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+229	+229	-225	+232*	+231	-227	+224	+224	-219	+224	+225	-221		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 597 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	622	622	613	653	654	639	616	616	607	669*	670	630		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+32	+32	-32	-109*	-109	+107	+29	+29	-28	-104	-104	+102		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-85	-85	+84	-100*	-100	+98	-80	-79	+77	-93	-90	+88		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-101*	-101	+99	-95	-95	+93	-97	-97	+95	-92	-91	+89		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-108*	-108	+106	-102	-102	+100	-105	-104	+102	-98	-98	+96		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+216*	+147	-212	+212	+144	-208	+212	+144	-208	+206	+141	-203		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 598 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	607	607	598	639	640	625	601	601	592	655*	656	616	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+33	+33	-32	-109*	-109	+107	+30	+30	-29	-104	-103	+102	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-83	-83	+81	-98*	-98	+96	-78	-76	+75	-91	-88	+86	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-90*	-90	+88	-85	-85	+83	-88	-87	+85	-83	-82	+80	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-100*	-100	+98	-93	-93	+91	-97	-96	+95	-90	-90	+88	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+203*	+138	-199	+194	+132	-190	+199	+135	-195	+189	+129	-186	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 599 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	593	593	584	627	627	612	587	587	578	643*	643	604	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+33	+33	-33	-108*	-108	+106	+30	+30	-30	-103	-103	+101	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-81	-81	+80	-96*	-96	+94	-76	-75	+73	-89	-86	+85	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-83*	-83	+82	-79	-79	+77	-81	-80	+78	-76	-75	+74	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-91*	-91	+90	-85	-85	+83	-89	-89	+87	-83	-82	+81	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+189*	+129	-185	+177	+121	-174	+185	+126	-182	+173	+118	-170	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 600 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	580	580	572	615	616	601	575	575	566	632*	632	592	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+34	+34	-33	-108*	-108	+106	+30	+30	-30	-103	-103	-101	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-80	-80	+78	-95*	-95	+93	-75	-73	+72	-88	-85	+83	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-78*	-78	+77	-74	-74	+73	-76	-75	+74	-72	-71	+70	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-84*	-84	+82	-78	-78	+76	-82	-81	+80	-76	-76	+74	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+175*	+120	-172	+163	+111	-160	+172	+118	-169	+159	+109	-157	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 601 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	734	734	722	754	754	737	726	726	715	768*	769	727		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+25	+25	-25	-114*	-114	+112	+22	+22	-22	-109	-109	+107		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-130	-130	+128	-137*	-137	+135	-123	-122	+120	-128	-126	+124		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-156	-156	+153	-160*	-160	+157	-147	-146	+143	-150	-148	+145		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+279	+279	-273	+356*	+355	-349	+270	+270	-265	+338	+338	-332		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 602 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	711	711	700	733	733	717	704	704	693	747*	748	707		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+27	+27	-26	-113*	-113	+111	+24	+24	-23	-108	-107	+106		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-118	-118	+116	-126*	-126	+123	-112	-111	+109	-118	-116	+113		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-135	-135	+133	-137*	-137	+135	-129	-128	+125	-130	-128	+125		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-149*	-149	+146	-148	-148	+145	-142	-141	+139	-141	-138	+136		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+273	+182	-267	+317*	+215	-311	+265	+177	-259	+304	+206	-298		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 603 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	689	689	679	714	714	697	682	682	672	728*	729	688	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+28	+28	-28	-111*	-111	+109	+25	+25	-24	-106	-106	+104	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-110	-110	+108	-118*	-118	+116	-104	-103	+101	-111	-108	+106	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-122	-122	+119	-124*	-124	+122	-117	-115	+113	-118	-115	+113	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-138*	-138	+135	-133	-133	+131	-132	-131	+129	-127	-126	+123	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+260	+175	-255	+281*	+191	-275	+253	+170	-248	+271	+184	-266	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 604 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	669	669	659	695	696	680	662	662	652	710*	711	670	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+29	+29	-29	-110*	-110	+108	+26	+26	-26	-105	-105	+103	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-104	-104	+102	-113*	-113	+110	-98	-97	+95	-105	-103	+101	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-112	-112	+110	-116*	-116	+114	-108	-106	+104	-111	-107	+105	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-126*	-126	+123	-120	-119	+117	-121	-120	+118	-115	-114	+112	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+245	+165	-240	+251*	+170	-246	+239	+161	-234	+243	+165	-238	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 605 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	651	651	641	679	679	663	644	644	635	694*	695	654	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+30	+30	-30	-110*	-110	+108	+27	+27	-26	-105	-104	+103	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-99	-99	+98	-109*	-109	+107	-94	-93	+91	-101	-99	+97	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-106	-106	+104	-110*	-110	+108	-102	-100	+98	-105	-102	+100	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-114*	-114	+112	-108	-108	+106	-111	-111	+108	-104	-103	+101	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+229*	+155	-224	+226	+153	-221	+224	+151	-219	+219	+149	-215	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 606 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	700	700	690	724	724	707	693	693	683	738*	739	697	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+27	+27	-27	-112*	-112	+110	+24	+24	-24	-107	-107	+105	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-112	-112	+110	-120*	-120	+117	-106	-105	+103	-112	-110	+108	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-145*	-145	+143	-144	-144	+141	-138	-138	+135	-136	-135	+132	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+267	+267	-262	+311*	+311	-305	+259	+259	-254	+298	+298	-292	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 607 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	679	679	669	705	705	688	672	672	662	719*	720	679	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+29	+29	-281	-111*	-111	+109	+26	+26	-25	-106	-105	+104	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-104	-104	+102	-112*	-112	+110	-98	-97	+96	-105	-103	+101	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-126*	-126	+123	-123	-123	+121	-120	-119	+117	-118	-116	+114	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-137*	-137	+134	-133	-132	+130	-131	-130	+128	-127	-125	+123	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+256	+173	-251	+279*	+190	-274	+250	+168	-245	+269	+183	-264	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 608 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	659	659	650	687	687	671	653	653	643	701*	702	662	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+30	+30	-29	-110*	-110	+108	+27	+27	-26	-105	-104	+103	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-98	-98	+96	-107*	-107	+105	-93	-92	+90	-100	-98	+96	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-112*	-112	+110	-111	-111	+109	-108	-107	+105	-106	-104	+102	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-126*	-125	+123	-120	-119	+117	-121	-120	+118	-115	-114	+112	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+242	+164	-237	+250*	+170	-245	+236	+160	-232	+242	+164	-237	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 609 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	641	641	632	670	671	655	635	635	626	685*	686	646	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+31	+31	-30	-109*	-109	+107	+27	+27	-27	-104	-104	+102	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-94	-94	+92	-103*	-103	+101	-89	-88	+86	-96	-94	+92	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-104*	-104	+102	-103	-103	+101	-100	-98	+97	-99	-97	+95	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-114*	-114	+112	-108	-108	+106	-110	-110	+108	-104	-103	+101	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+226*	+154	-222	+225	+153	-220	+221	+150	-217	+218	+149	-214	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.

2: Bisar: (+) = tension, (-) = compression.

3: *Maximum stress, strain and surface deflection occur.

Section - 610 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	625	625	616	655	656	640	619	619	610	671*	672	631	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+31	+31	-31	-108*	-108	+106	+28	+28	-28	-103	-103	+101	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-91	-91	+89	-101*	-100	+99	-86	-84	+83	-94	-91	+90	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-98*	-98	+96	-98	-98	+96	-95	-93	+91	-94	-91	+90	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-104*	-104	+102	-97	-97	+95	-101	-100	+99	-94	-94	+92	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+211*	+143	-207	+203	+138	-199	+207	+140	-203	+198	+135	-195	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 611 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	669	669	659	696	696	680	663	663	653	710*	711	671		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+29	+29	-29	-110*	-110	+108	+26	+26	-26	-105	-105	+103		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-100	-100	+98	-109*	-109	+106	-94	-93	+92	-102	-99	+98		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-133*	-133	+130	-128	-128	+126	-127	-126	+124	-122	-121	+119		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+251	+251	-246	+274*	+273	-268	+244	+244	-239	+264	+264	-259		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 612 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	650	650	641	678	678	663	644	644	634	693*	694	654		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+30	+30	-30	-109*	-109	+107	+27	+27	-27	-104	-104	+102		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-94	-94	+93	-104*	-104	+102	-89	-88	+86	-97	-95	+93		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-115*	-115	+112	-110	-110	+108	-110	-109	+107	-106	-104	+102		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-124*	-124	+122	-118	-118	+116	-119	-119	+116	-114	-113	+110		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+239	+161	-234	+248*	+168	-243	+233	+157	-228	+240	+163	-235		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 613 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	633	633	623	662	663	647	627	627	617	678*	679	638	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+31	+31	-31	-108*	-108	+106	+28	+28	-28	-103	-103	+101	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-90	-90	+88	-100*	-100	+98	-85	-84	+82	-93	-91	+89	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-103*	-103	+101	-99	-99	+97	-99	-98	+96	-95	-94	+92	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-114*	-114	+112	-107	-107	+105	-110	-109	+107	-104	-103	+101	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+224*	+152	-220	+223	+152	-219	+219	+149	-215	+217	+148	-213	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 614 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	617	617	607	647	648	633	611	611	602	663*	664	624	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+32	+32	-31	-108*	-108	+106	+29	+29	-28	-103	-103	+101	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-87	-87	+85	-97*	-97	+95	-82	-81	+80	-91	-88	+87	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-95*	-95	+93	-92	-92	+90	-92	-90	+89	-89	-87	+85	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-104*	-104	+102	-97	-97	+95	-101	-100	+98	-94	-94	+92	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+209*	+142	-205	+202	+138	-198	+205	+139	-201	+197	+134	-194	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 615 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	602	602	593	634	635	620	596	596	587	650*	651	611	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+32	+32	-32	-107*	-107	+105	+29	+29	-29	-102	-102	+100	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-85	-85	+83	-95*	-95	+93	-80	-79	+77	-88	-86	+85	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-89*	-89	+88	-87	-87	+85	-87	-85	+83	-84	-82	+81	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-95*	-95	+93	-88	-88	+87	-92	-92	+90	-86	-85	+84	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+194*	+132	-191	+184	+125	-181	+191	+130	-187	+180	+123	-177	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 616 / Truck				Stress Load = 690 kPa			Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	642	642	632	670	671	655	635	635	626	685*	687	646
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+31	+31	-30	-109*	-109	+107	+28	+28	-27	-104	-103	+102
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-91	-91	+90	-101*	-101	+99	-87	-85	+84	-94	-92	+90
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-120*	-120	+118	-114	-114	+112	-115	-115	+113	-110	-109	+107
Vertical Compressive Strain at Top of Subgrade (microstrain)	+233	+233	-229	+242*	+242	-237	+228	+228	-223	+234	+235	-230

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 617 / Truck			Stress Load = 690 kPa				Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	625	625	615	655	655	640	619	619	609	670*	671	631
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+32	+32	-31	-108*	-108	+106	+28	+28	-28	-103	-103	+101
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-88	-88	+86	-98*	-98	+96	-83	-82	+80	-91	-89	+87
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-104*	-104	+102	-99	-99	+97	-101	-100	+98	-95	-94	+93
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-112*	-112	+110	-106	-106	+104	-108	-108	+106	-102	-101	+99
Vertical Compressive Strain at Top of Subgrade (microstrain)	+221*	+150	-217	+221	+150	-216	+216	+146	-212	+214	+146	-211

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 618 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	609	609	600	640	641	626	603	603	594	656*	657	617	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+32	+32	-32	-107*	-107	+105	+29	+29	-29	-102	-102	+100	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-85	-85	+83	-95*	-95	+93	-80	-79	+77	-88	-86	+85	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-93*	-93	+92	-89	-89	+87	-91	-90	+88	-86	-85	+83	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-103*	-103	+101	-97	-97	+95	-100	-99	+98	-94	-93	+91	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+207*	+141	-203	+201	+137	-197	+203	+138	-199	+195	+133	-192	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 619 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	594	594	586	627	628	613	589	589	580	643*	644	604	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+33	+33	-32	-107*	-107	+105	+30	+30	-29	-102	-102	+100	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-82	-82	+81	-93*	-93	+91	-78	-76	+75	-86	-84	+83	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-86*	-86	+85	-82	-82	+81	-84	-83	+81	-80	-79	+77	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-94*	-94	+92	-88	-88	+86	-92	-91	+90	-85	-85	+83	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+193*	+131	-189	+183	+125	-179	+189	+129	-186	+178	+122	-175	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 620 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	581	581	573	615	616	601	576	576	567	632*	632	592	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+33	+33	-33	-107*	-106	+105	+30	+30	-30	-101	-101	+100	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-81	-81	+79	-91*	-91	+90	-76	-75	+73	-85	-83	+81	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-81*	-81	+80	-78	-78	+76	-79	-78	+77	-75	-74	+73	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-86*	-86	+85	-80	-80	+79	-84	-84	+82	-78	-78	+76	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+179*	+122	-176	+168	+114	-164	+176	+120	-173	+164	+112	-161	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 621 / Truck			Stress Load = 690 kPa				Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar
	Position (1)			Position (2)			Position (3)			Position (4)		
Surface Deflection (micron)	617	617	607	648	648	633	611	611	602	663*	664	624
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+32	+32	-32	-108*	-107	+106	+29	+29	-28	-102	-102	+101
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-86	-86	+84	-96*	-96	+94	-81	-80	+78	-89	-87	+85
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-109*	-109	+107	-103	-102	+100	-105	-104	+102	-99	-98	+96
Vertical Compressive Strain at Top of Subgrade (microstrain)	+216*	+216	-212	+216	+216	-212	+211	+211	-207	+210	+210	-206

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 622 / Truck			Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar		
	Position (1)			Position (2)			Position (3)			Position (4)				
Surface Deflection (micron)	601	601	593	634	634	619	596	596	587	650*	651	611		
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+33	+33	-32	-107*	-107	+105	+30	+30	-29	-102	-102	+100		
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-83	-83	+81	-93*	-93	+92	-78	-77	+75	-87	-85	+83		
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-95*	-95	+93	-89	-89	+87	-92	-91	+89	-86	-85	+84		
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-102*	-102	+100	-95	-95	+93	-98	-98	+96	-92	-92	+90		
Vertical Compressive Strain at Top of Subgrade (microstrain)	+204*	+139	-200	+199	+135	-195	+200	+136	-196	+193	+132	-190		

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 623 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	587	587	579	621	621	607	582	582	573	637*	638	598	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+33	+33	-33	-107*	-107	+105	+30	+30	-30	-102	-101	+100	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-81	-81	+79	-91*	-91	+90	-76	-75	+73	-85	-83	+81	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-85*	-85	+84	-80	-80	+79	-83	-82	+81	-78	-77	+75	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-94*	-94	+92	-87	-87	+86	-91	-91	+89	-85	-84	+83	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+191*	+130	-187	+182	+124	-178	+188	+128	-184	+177	+121	-174	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

Section - 624 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	575	575	566	609	610	595	569	569	561	626*	626	586	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+34	+34	-33	-106*	-106	+104	+31	+31	-30	-101	-101	+99	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-79	-79	+77	-90*	-90	+88	-74	-73	+72	-83	-81	+80	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-79*	-79	+77	-74	-74	+73	-77	-76	+74	-72	-71	+70	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-86*	-86	+84	-80	-80	+78	-84	-83	+82	-78	-78	+76	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+178*	+121	-175	+167	+114	-163	+175	+119	-172	+163	+112	-160	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
 2: Bisar: (+) = tension, (-) = compression.
 3: *Maximum stress, strain and surface deflection occur.

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Section - 625 / Truck		Stress Load = 690 kPa						Contact Radius = 11 cm					
Description	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	Kenlayer	Everstress	Bisar	
	Position (1)			Position (2)			Position (3)			Position (4)			
Surface Deflection (micron)	563	563	554	598	599	584	557	557	549	615*	615	576	
Horizontal Principle Tensile Strain at Bottom of AC (microstrain)	+34	+34	-33	-106*	-106	+104	+31	+31	-30	-101	-101	+99	
Horizontal Principle Tensile Strain at Bottom of Crush Rock Base (microstrain)	-78	-78	+76	-89*	-89	+87	-73	-72	+70	-82	-80	+78	
Horizontal Principle Tensile Strain at Bottom of Laterite Subbase (microstrain)	-74*	-74	+73	-70	-70	+69	-72	-71	+70	-68	-67	+66	
Horizontal Principle Tensile Strain at Bottom of Selected Material (microstrain)	-79*	-79	+77	-73	-73	+72	-77	-77	+75	-71	-71	+70	
Vertical Compressive Strain at Top of Subgrade (microstrain)	+166*	+113	-162	+153	+105	-150	+163	+111	-160	+150	+103	-148	

Remarks: 1: Kenlayer & Everstress: (-) = tension, (+) = compression.
2: Bisar: (+) = tension, (-) = compression.
3: *Maximum stress, strain and surface deflection occur.

ภาคผนวก ง

ข้อมูลการวิเคราะห์และทดสอบด้วยเครื่องมือ FWD

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Highway 32	120+050	120+025	120+000	119+975	119+950	119+925	119+900	119+875	119+850	119+825	119+800
FWD Deflection (μm)	414.9	460.83	357.23	535.7	405.43	470.07	427.77	427.03	514.7	422.27	454.63
Average FWD Deflection (μm)	444.60										
Average FWD DOH Deflection (μm)	228.32										
Deflection Ratio	1.95										
Description	Thickness (cm)	Young's Modulus (Mpa)	Poisson's Ratio	a_i	SN _i	SN	t_{ai} (cm)	t_a (cm)	h_{ei} (m)	h_e (m)	Remarks
Asphalt Surface	20	2500	0.35	0.408	3.215	5.895	20.000	37.407	38.517	82.091	
Crushed Rock Base	20	350	0.35	0.195	1.533		10.000		62.091		
Soil-aggregate Subbase	20	150	0.35	0.146	1.147		7.407		82.091		
Subgrade		40	0.40								
Highway 35	54+000	54+025	54+050	54+075	54+100	54+125	54+150	54+175	54+200	54+225	54+250
FWD Deflection (μm)	224.53	203.33	314.63	270.07	320.33	223	243.6	133.9	112.17	123.8	162.87
Average FWD Deflection (μm)	212.02										
Average FWD DOH Deflection (μm)	228.32										
Deflection Ratio	0.93										
Description	Thickness (cm)	Young's Modulus (Mpa)	Poisson's Ratio	a_i	SN _i	SN	t_{ai} (cm)	t_a (cm)	h_{ei} (m)	h_e (m)	Remarks
Asphalt Surface	20	2500	0.35	0.408	3.215	6.364	20.000	38.889	29.526	83.553	Recycling base
Pavement Recycling	20	850	0.20	0.291	2.288		13.333		68.553		
Soil-aggregate Subbase	15	150	0.35	0.146	0.860		5.556		83.553		
Subgrade (Sand Embankment)	-	100	0.40								
Highway 1	440+000	440+025	440+050	440+075	440+100	440+125	440+150	440+175	440+200	440+225	440+250
FWD Deflection (μm)	40.17	56.23	60.12	59.92	56.54	59.44	49.11	61.97	53.83	61.9	63.3
Average FWD Deflection (μm)	56.59										
Average FWD DOH Deflection (μm)	228.32										
Deflection Ratio	0.25										
Description	Thickness (cm)	Young's Modulus (Mpa)	Poisson's Ratio	a_i	SN _i	SN	t_{ai} (cm)	t_a (cm)	h_{ei} (m)	h_e (m)	Remarks
Asphalt Surface	10	2500	0.35	0.408	1.608	6.420	10.000	42.222	14.763	108.818	Cement Stabilized Base
Cement Modified Crushed Rock Base	20	850	0.20	0.291	2.288		13.333		48.118		
Soil-aggregate Subbase	15	150	0.35	0.146	0.860		5.556		68.818		
Selected Material	40	100	0.35	0.106	1.664		13.333		108.818		
Subgrade	-	40	0.40								
Highway 1	441+000	440+975	440+950	440+925	440+900	440+875	440+850	440+825	440+800	440+775	440+750
FWD Deflection (μm)	50.96	61.59	43.86	47.64	48.22	51.53	41.88	49.79	41.2	59.24	48.38
Average FWD Deflection (μm)	49.48										
Average FWD DOH Deflection (μm)	228.32										
Deflection Ratio	0.22										
Description	Thickness (cm)	Young's Modulus (Mpa)	Poisson's Ratio	a_i	SN _i	SN	t_{ai} (cm)	t_a (cm)	h_{ei} (m)	h_e (m)	Remarks
Asphalt Surface	10	2500	0.35	0.408	1.608	6.420	10.000	42.222	14.763	108.818	Cement Stabilized Base
Cement Modified Crushed Rock Base	20	850	0.20	0.291	2.288		13.333		48.118		
Soil-aggregate Subbase	15	150	0.35	0.146	0.860		5.556		68.818		
Selected Material	40	100	0.35	0.106	1.664		13.333		108.818		
Subgrade	-	40	0.40								
Highway 117	25+000	24+975	24+950	24+925	24+900	24+875	24+850	24+825	24+800	24+775	24+750
FWD Deflection (μm)	146.72	132.8	134.78	147.31	126.1	136.57	124.21	175.18	145.68	129.48	162.58
Average FWD Deflection (μm)	141.95										
Average FWD DOH Deflection (μm)	228.32										
Deflection Ratio	0.62										
Description	Thickness (cm)	Young's Modulus (Mpa)	Poisson's Ratio	a_i	SN _i	SN	t_{ai} (cm)	t_a (cm)	h_{ei} (m)	h_e (m)	Remarks
Asphalt Surface	10	2500	0.35	0.408	1.608	7.020	10.000	44.444	14.763	110.477	Cement Stabilized Base
Cement Modified Crushed Rock Base	25	850	0.20	0.291	2.861		16.667		55.039		
Soil-aggregate Subbase	30	150	0.35	0.146	1.720		11.111		90.477		
Selected Material	20	100	0.35	0.106	0.832		6.667		110.477		
Subgrade	-	40	0.40								

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Highway 1	308+300	308+325	308+350	308+375	308+400	308+425	308+450	308+475	308+500	308+525	308+550
FWD Deflection (μm)	296.9	367.89	398.63	642.77	352.22	333.56	628.53	650.78	478.37	425.26	465.31
Average FWD Deflection (μm)	458.20										
Average FWD DOH Deflection (μm)	228.32										
Deflection Ratio	2.01										
Description	Thickness (cm)	Young's Modulus (Mpa)	Poisson's Ratio	a_i	SN_i	SN	t_{ai} (cm)	t_a (cm)	h_{ei} (m)	h_e (m)	Remarks
Asphalt Surface	20	2500	0.35	0.408	3.215	5.895	20.000	37.407	38.517	82.091	
Crushed Rock Base	20	350	0.35	0.195	1.533		10.000		62.091		
Soil-aggregate Subbase	20	150	0.35	0.146	1.147		7.407		82.091		
Subgrade (Sand Embankment)	-	100	0.40								
Highway 1	380+200	380+175	380+150	380+125	380+100	380+075	380+050	380+025	380+000	379+975	379+950
FWD Deflection (μm)	109.92	158.5	123.79	423.7	250.36	111.01	345.14	431.48	115.66	175.22	100.94
Average FWD Deflection (μm)	213.25										
Average FWD DOH Deflection (μm)	228.32										
Deflection Ratio	0.93										
Description	Thickness (cm)	Young's Modulus (Mpa)	Poisson's Ratio	a_i	SN_i	SN	t_{ai} (cm)	t_a (cm)	h_{ei} (m)	h_e (m)	Remarks
Asphalt Surface	10	2500	0.35	0.408	1.608	6.420	10.000	42.222	14.763	108.818	Cement Stabilized Base
Cement Modified Crushed Rock Base	20	850	0.20	0.291	2.288		13.333		48.118		
Soil-aggregate Subbase	15	150	0.35	0.146	0.860		5.556		68.818		
Selected Material	40	100	0.35	0.106	1.664		13.333		108.818		
Subgrade	-	40	0.40								
Highway 2	268+100	268+125	268+150	268+175	268+200	268+225	268+250	268+275	268+300	268+315	268+350
FWD Deflection (μm)	144.58	126.2	203.27	153.52	284.68	184.83	139.33	150	336.95	176.1	141.93
Average FWD Deflection (μm)	185.58										
Average FWD DOH Deflection (μm)	228.32										
Deflection Ratio	0.81										
Description	Thickness (cm)	Young's Modulus (Mpa)	Poisson's Ratio	a_i	SN_i	SN	t_{ai} (cm)	t_a (cm)	h_{ei} (m)	h_e (m)	Type Section
Asphalt Surface	10	2500	0.35	0.408	1.608	4.624	10.000	30.556	19.259	76.421	Standard Section
Crushed Rock Base	20	350	0.35	0.195	1.533		10.000		41.657		
Soil-aggregate Subbase	15	150	0.35	0.146	0.860		5.556		61.421		
Selected Material	15	100	0.35	0.106	0.624		5.000		76.421		
Subgrade	-	40	0.40								
Highway 24	99+000	98+975	98+950	98+925	98+900	98+875	98+850	98+825	98+800	98+775	98+750
FWD Deflection (μm)	149.63	148	130.8	184.53	144	155.7	142.7	185.72	128.38	157.75	147.68
Average FWD Deflection (μm)	152.26										
Average FWD DOH Deflection (μm)	228.32										
Deflection Ratio	0.67										
Description	Thickness (cm)	Young's Modulus (Mpa)	Poisson's Ratio	a_i	SN_i	SN	t_{ai} (cm)	t_a (cm)	h_{ei} (m)	h_e (m)	Remarks
Asphalt Surface	10	2500	0.35	0.408	1.608	6.238	10.000	42.593	19.259	110.579	
Crushed Rock Base	20	350	0.35	0.195	1.533		10.000		41.657		
Soil-aggregate Subbase	25	150	0.35	0.146	1.433		9.259		70.579		
Selected Material	40	100	0.35	0.106	1.664		13.333		110.579		
Subgrade	-	40	0.40								
Highway 2	18+000	17+975	17+950	17+925	17+900	17+875	17+850	17+825	17+800	17+775	17+750
FWD Deflection (μm)	109.05	101.12	106.65	107.25	101.9	139.85	113.92	140.82	125.02	111.63	106.22
Average FWD Deflection (μm)	114.86										
Description	Thickness (cm)	Young's Modulus (Mpa)	Poisson's Ratio	a_i	SN_i	SN	t_{ai} (cm)	t_a (cm)	h_{ei} (m)	h_e (m)	Remarks
Asphalt Surface	10										Concrete Pavement
Reinforced Concrete Pavement	25										
Sand Cushion or Soil-aggregate Base	10 / 20										
Soil-aggregate Subbase	15										
Compacted Subgrade	-										

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Highways 2	168+750	168+775	168+800	168+825	168+850	168+875	168+900	168+925	168+950	168+975	169+000
FWD Deflection (µm)	182.43	90.6	148.22	88.92	205.32	113.48	215.95	221.45	140.37	266.35	133.23
Average FWD Deflection (µm)	164.21										
Description	Thickness (cm)	Young's Modulus (Mpa)	Poisson's Ratio	a _i	SN _i	SN	t _{ai} (cm)	t _a (cm)	h _{ei} (m)	h _e (m)	Remarks
Asphalt Surface	9										Concrete Pavement
Reinforced Concrete Pavement	23										
Sand Cushion	10										
Soil-aggregate Subbase	15										
Subgrade	-										
Highway 2	95+200	95+175	95+150	95+125	95+100	95+075	95+050	95+025	95+000	94+975	94+950
FWD Deflection (µm)	184.65	197.53	177.18	162.35	188.22	136.67	174.55	174.08	175.62	178.5	177.25
Average FWD Deflection (µm)	175.15										
Average FWD DOH Deflection (µm)	228.32										
Deflection Ratio	0.77										
Description	Thickness (cm)	Young's Modulus (Mpa)	Poisson's Ratio	a _i	SN _i	SN	t _{ai} (cm)	t _a (cm)	h _{ei} (m)	h _e (m)	Remarks
Asphalt Surface											No Data
AC Binder Course											
Crushed Rock Base											
Soil-aggregate Subbase											
Subgrade											
Highway 3	54+500	54+475	54+450	54+425	54+400	54+375	54+350	54+325	54+300	54+275	54+250
FWD Deflection (µm)	318.63	386.73	491.83	415.33	324.9	286.57	255.6	126.67	116.63	188.1	410.1
Average FWD Deflection (µm)	301.92										
Average FWD DOH Deflection (µm)	228.32										
Deflection Ratio	1.32										
Description	Thickness (cm)	Young's Modulus (Mpa)	Poisson's Ratio	a _i	SN _i	SN	t _{ai} (cm)	t _a (cm)	h _{ei} (m)	h _e (m)	Remarks
Asphalt Surface	10	2500	0.35	0.408	1.608	4.287	10.000	27.407	19.259	61.657	
Crushed Rock Base	20	350	0.35	0.195	1.533		10.000		41.657		
Soil-aggregate Subbase	20	150	0.35	0.146	1.147		7.407		61.657		
Subgrade	-	40	0.40								
Highway 331	47+300	47+275	47+250	47+225	47+200	47+175	47+150	47+125	47+110	47+085	47+060
FWD Deflection (µm)	192.8	167.6	304.87	129.7	162.1	138.97	111.77	97.93	184.9	219.2	184.1
Average FWD Deflection (µm)	172.18										
Average FWD DOH Deflection (µm)	228.32										
Deflection Ratio	0.75										
Description	Thickness (cm)	Young's Modulus (Mpa)	Poisson's Ratio	a _i	SN _i	SN	t _{ai} (cm)	t _a (cm)	h _{ei} (m)	h _e (m)	Remarks
Asphalt Surface	10	2500	0.35	0.408	1.608	4.624	10.000	30.556	19.259	76.421	Standard Section
Crushed Rock Base	20	350	0.35	0.195	1.533		10.000		41.657		
Soil-aggregate Subbase	15	150	0.35	0.146	0.860		5.556		61.421		
Selected Material	15	100	0.35	0.106	0.624		5.000		76.421		
Subgrade	-	40	0.40								
Highway 33	267+000	267+025	267+050	267+075	267+100	267+125	267+150	267+175	267+200	267+225	267+250
FWD Deflection (µm)	417.8	374.17	429.67	408.1	415.17	420.6	477.8	423.33	356.23	408.27	475.43
Average FWD Deflection (µm)	418.78										
Average FWD DOH Deflection (µm)	228.32										
Deflection Ratio	1.83										
Description	Thickness (cm)	Young's Modulus (Mpa)	Poisson's Ratio	a _i	SN _i	SN	t _{ai} (cm)	t _a (cm)	h _{ei} (m)	h _e (m)	Remarks
Asphalt Surface											No Data
AC Binder Course											
Crushed Rock Base											
Soil-aggregate Subbase											
Subgrade											

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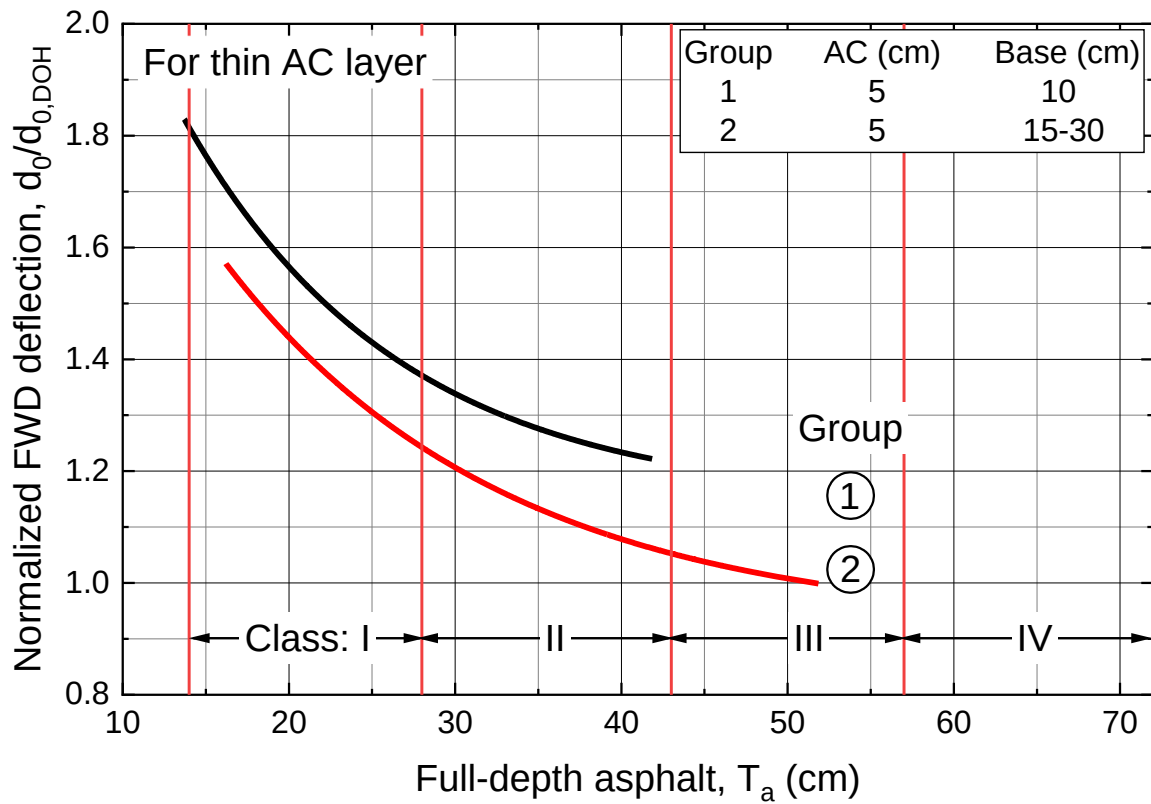
Highway 36	28+825	28+800	28+775	28+750	28+725	28+700	28+675	28+650	28+625	28+600	28+575
FWD Deflection (μm)	213.97	277.17	250	313.3	387.27	332.4	371.67	294.67	310.8	249.53	331.67
Average FWD Deflection (μm)	302.95										
Average FWD DOH Deflection (μm)	228.32										
Deflection Ratio	1.33										
Description	Thickness (cm)	Young's Modulus (Mpa)	Poisson's Ratio	a_i	SN _i	SN	t_{ai} (cm)	t_a (cm)	h_{ei} (m)	h_e (m)	Remarks
Asphalt Surface	10	2500	0.35	0.408	1.608	4.624	10.000	30.556	19.259	76.421	Standard Section
Crushed Rock Base	20	350	0.35	0.195	1.533		10.000		41.657		
Soil-aggregate subbase	15	150	0.35	0.146	0.860		5.556		61.421		
Selected Material	15	100	0.35	0.106	0.624		5.000		76.421		
Subgrade	-	40	0.40								
Highway 323	5+150	5+125	5+100	5+075	5+050	5+025	5+000	4+975	4+950	4+925	4+900
FWD Deflection (μm)	401.63	427.64	433.99	449.73	432.22	397.67	465.8	443.17	479.31	424.64	390.62
Average FWD Deflection (μm)	431.49										
Average FWD DOH Deflection (μm)	228.32										
Deflection Ratio	1.89										
Description	Thickness (cm)	Young's Modulus (Mpa)	Poisson's Ratio	a_i	SN _i	SN	t_{ai} (cm)	t_a (cm)	h_{ei} (m)	h_e (m)	Remarks
Asphalt Surface	10	2500	0.35	0.408	1.608	6.875	10.000	46.111	19.259	117.304	
Crushed Rock Base	30	350	0.35	0.195	2.299		15.000		52.267		
Soil-aggregate Subbase	30	150	0.35	0.146	1.720		11.111		87.304		
Selected Material	30	100	0.35	0.106	1.248		10.000		117.304		
Subgrade	-	40	0.40								
Highway 4	473+500	473+525	473+550	473+575	473+600	473+625	473+650	473+675	473+700	473+725	473+750
FWD Deflection (μm)	85.58	91.61	85.89	73.49	82.91	85.82	76.92	82.64	85.06	94.44	76.42
Average FWD Deflection (μm)	83.71										
Average FWD DOH Deflection (μm)	228.32										
Deflection Ratio	0.37										
Description	Thickness (cm)	Young's Modulus (Mpa)	Poisson's Ratio	a_i	SN _i	SN	t_{ai} (cm)	t_a (cm)	h_{ei} (m)	h_e (m)	Remarks
Asphalt Surface	10	2500	0.35	0.408	1.608	5.456	10.000	37.222	19.259	96.421	
Crushed Rock Base	20	350	0.35	0.195	1.533		10.000		41.657		
Soil-aggregate Subbase	15	150	0.35	0.146	0.860		5.556		61.421		
Selected Material	35	100	0.35	0.106	1.456		11.667		96.421		
Subgrade	-	40	0.40								
Highway 4 (Left wheel path)	88+770	88+745	88+720	88+695	88+670	88+645	88+620	88+595	88+570		
FWD Deflection (μm)	246.46	297.13	328.42	437.1	288.04	301.28	326.96	326.27	251.09		
Average FWD Deflection (μm)	311.42										
Average FWD DOH Deflection (μm)	228.32										
Deflection Ratio	1.36										
Description	Thickness (cm)	Young's Modulus (Mpa)	Poisson's Ratio	a_i	SN _i	SN	t_{ai} (cm)	t_a (cm)	h_{ei} (m)	h_e (m)	Remarks
Asphalt Surface	20	2500	0.35	0.408	3.215	6.935	20.000	45.741	38.517	114.392	
Crushed Rock Base	20	350	0.35	0.195	1.533		10.000		62.091		
Soil-aggregate Subbase	20	150	0.35	0.146	1.147		7.407		89.392		
Selected Material	25	100	0.35	0.106	1.040		8.333		114.392		
Subgrade	-	40	0.40								

รายงานขั้นสุดท้าย
(Final Report)

โครงการวิจัยเพื่อจัดทำข้อกำหนดและวิธีการออกแบบ
โครงสร้างถนนลาดยางสำหรับประเทศไทย

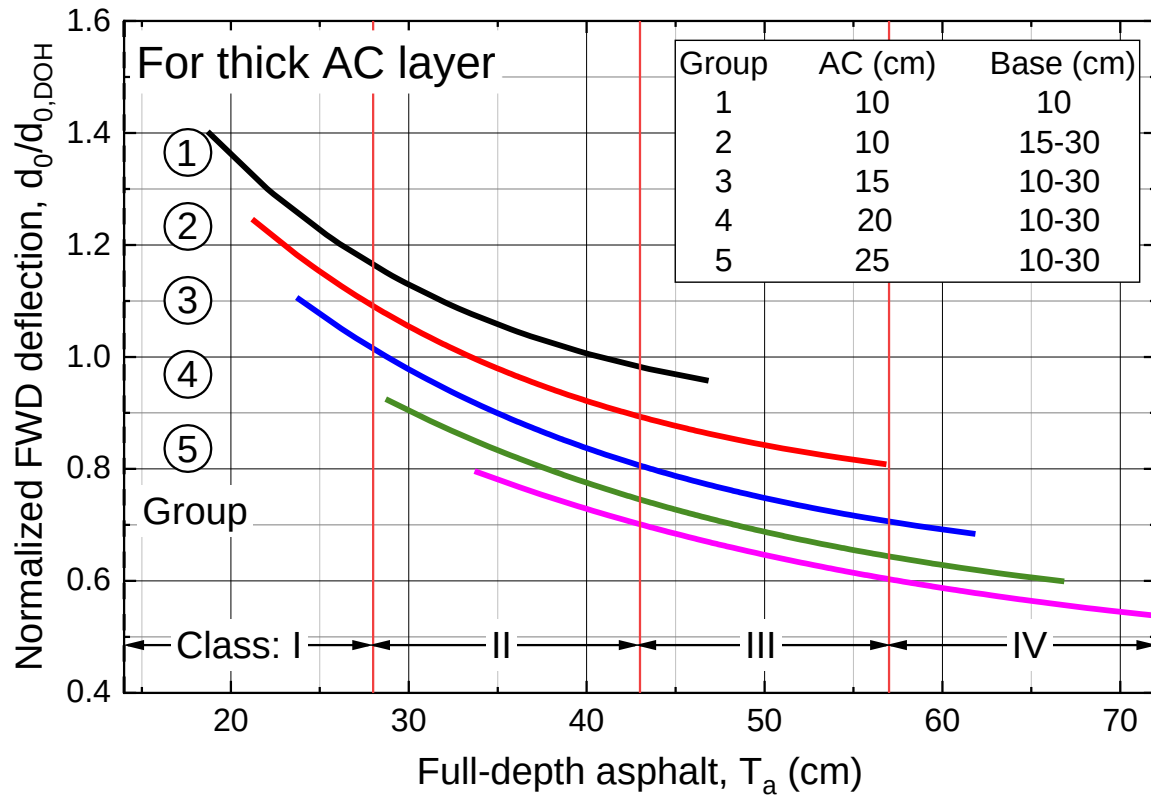
Highway 4 (Right wheel path)	88+770	88+745	88+720	88+695	88+670	88+645	88+620	88+595	88+570		
FWD Deflection (μm)	225.16	272.07	309.61	415.43	260.43	260.27	286.98	297.99	233		
Average FWD Deflection (μm)	284.55										
Average FWD DOH Deflection (μm)	228.32										
Deflection Ratio	1.25										
Description	Thickness (cm)	Young's Modulus (Mpa)	Poisson's Ratio	a_i	SN _i	SN	t_{ai} (cm)	t_a (cm)	h_{ei} (m)	h_e (m)	Remarks
Asphalt Surface	20	2500	0.35	0.408	3.215	6.935	20.000	45.741	38.517	114.392	
Crushed Rock Base	20	350	0.35	0.195	1.533		10.000		62.091		
Soil-aggregate Subbase	20	150	0.35	0.146	1.147		7.407		89.392		
Selected Material	25	100	0.35	0.106	1.040		8.333		114.392		
Subgrade	-	40	0.40								
Highway 4	305+000	304+975	304+950	304+925	304+900	304+875	304+850	304+825	304+800	304+775	304+750
FWD Deflection (μm)	291.3	345.21	202.7	260.08	187.87	171.13	211.27	193.33	215.86	358.73	340.74
Average FWD Deflection (μm)	252.57										
Average FWD DOH Deflection (μm)	228.32										
Deflection Ratio	1.11										
Description	Thickness (cm)	Young's Modulus (Mpa)	Poisson's Ratio	a_i	SN _i	SN	t_{ai} (cm)	t_a (cm)	h_{ei} (m)	h_e (m)	Remarks
Asphalt Surface	10	2500	0.35	0.408	1.608	4.624	10.000	30.556	19.259	76.421	Standard Section
Crushed Rock Base	20	350	0.35	0.195	1.533		10.000		41.657		
Soil-aggregate Subbase	15	150	0.35	0.146	0.860		5.556		61.421		
Selected Material	15	100	0.35	0.106	0.624		5.000		76.421		
Subgrade	-	40	0.40								
Highway 4	170+750	170+775	170+800	170+825	170+850	170+875	170+900	170+925	170+950	170+975	171+000
FWD Deflection (μm)	408.09	251.19	434.9	292.43	237.92	281.29	246.9	357.51	242.32	230.31	282.28
Average FWD Deflection (μm)	296.83										
Average FWD DOH Deflection (μm)	228.32										
Deflection Ratio	1.30										
Description	Thickness (cm)	Young's Modulus (Mpa)	Poisson's Ratio	a_i	SN _i	SN	t_{ai} (cm)	t_a (cm)	h_{ei} (m)	h_e (m)	Remarks
Asphalt Surface	10	2500	0.35	0.408	1.608	5.614	10.000	37.593	19.259	95.579	
Crushed Rock Base	20	350	0.35	0.195	1.533		10.000		41.657		
Soil-aggregate Subbase	25	150	0.35	0.146	1.433		9.259		70.579		
Selected Material	25	100	0.35	0.106	1.040		8.333		95.579		
Subgrade	-	40	0.40								

ภาคผนวก จ
กราฟและตารางการออกแบบ



For thin AC layer											
$d_0/d_{0,DOH}$											
T_A (cm)	Class I		T_A (cm)	Class II		T_A (cm)	Class III		T_A (cm)	Class IV	
	Group 1	Group 2		Group 1	Group 2		Group 1	Group 2		Group 1	Group 2
14.0	1.814	N/A	28.5	1.363	1.233	43.5	N/A	1.049	57.5	N/A	N/A
14.5	1.789	N/A	29.0	1.354	1.224	44.0	N/A	1.045	58.0	N/A	N/A
15.0	1.764	N/A	29.5	1.346	1.215	44.5	N/A	1.042	58.5	N/A	N/A
15.5	1.741	N/A	30.0	1.339	1.207	45.0	N/A	1.038	59.0	N/A	N/A
16.0	1.718	N/A	30.5	1.331	1.198	45.5	N/A	1.035	59.5	N/A	N/A
16.5	1.696	1.560	31.0	1.324	1.190	46.0	N/A	1.031	60.0	N/A	N/A
17.0	1.675	1.541	31.5	1.317	1.182	46.5	N/A	1.028	60.5	N/A	N/A
17.5	1.655	1.523	32.0	1.311	1.175	47.0	N/A	1.025	61.0	N/A	N/A
18.0	1.636	1.505	32.5	1.304	1.167	47.5	N/A	1.022	61.5	N/A	N/A
18.5	1.617	1.488	33.0	1.298	1.160	48.0	N/A	1.019	62.0	N/A	N/A
19.0	1.599	1.471	33.5	1.292	1.153	48.5	N/A	1.016	62.5	N/A	N/A
19.5	1.582	1.455	34.0	1.287	1.146	49.0	N/A	1.014	63.0	N/A	N/A
20.0	1.565	1.440	34.5	1.281	1.140	49.5	N/A	1.011	63.5	N/A	N/A
20.5	1.549	1.424	35.0	1.276	1.133	50.0	N/A	1.008	64.0	N/A	N/A
21.0	1.534	1.410	35.5	1.271	1.127	50.5	N/A	1.006	64.5	N/A	N/A
21.5	1.519	1.395	36.0	1.266	1.121	51.0	N/A	1.003	65.0	N/A	N/A
22.0	1.505	1.381	36.5	1.262	1.115	51.5	N/A	1.001	65.5	N/A	N/A
22.5	1.491	1.368	37.0	1.257	1.109	52.0	N/A	N/A	66.0	N/A	N/A
23.0	1.478	1.355	37.5	1.253	1.104	52.5	N/A	N/A	66.5	N/A	N/A
23.5	1.466	1.342	38.0	1.249	1.099	53.0	N/A	N/A	67.0	N/A	N/A
24.0	1.453	1.330	38.5	1.245	1.093	53.5	N/A	N/A	67.5	N/A	N/A
24.5	1.442	1.318	39.0	1.241	1.088	54.0	N/A	N/A	68.0	N/A	N/A
25.0	1.430	1.306	39.5	1.237	1.083	54.5	N/A	N/A	68.5	N/A	N/A
25.5	1.420	1.295	40.0	1.234	1.079	55.0	N/A	N/A	69.0	N/A	N/A
26.0	1.409	1.284	40.5	1.230	1.074	55.5	N/A	N/A	69.5	N/A	N/A
26.5	1.399	1.273	41.0	1.227	1.070	56.0	N/A	N/A	70.0	N/A	N/A
27.0	1.389	1.263	41.5	1.224	1.065	56.5	N/A	N/A	70.5	N/A	N/A
27.5	1.380	1.253	42.0		1.061	57.0	N/A	N/A	71.0	N/A	N/A
28.0	1.371	1.243	42.5		1.057		N/A	N/A	71.5	N/A	N/A
			43.0		1.053		N/A	N/A	72.0	N/A	N/A

*N/A = Not available

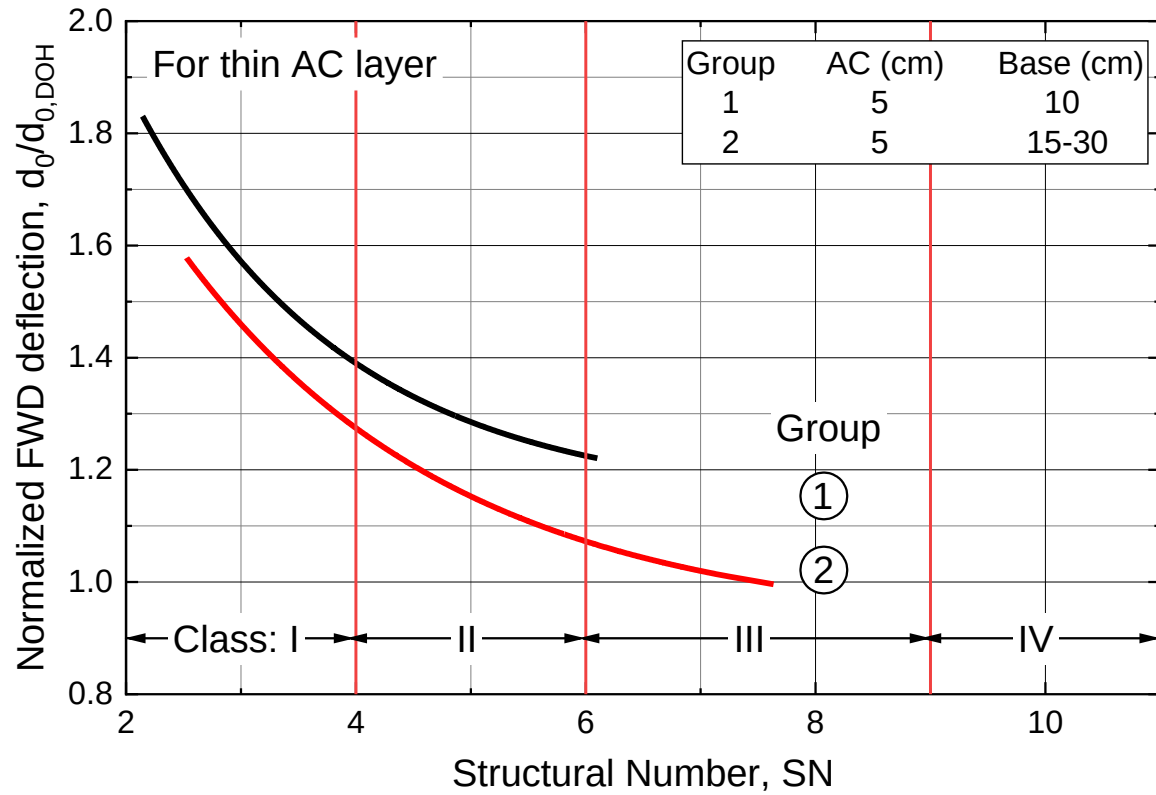


For thick AC layer											
$d_0/d_{0,DOH}$											
T_A (cm)	Class I					T_A (cm)	Class II				
	Group 1	Group 2	Group 3	Group 4	Group 5		Group 1	Group 2	Group 3	Group 4	Group 5
14.0	N/A	N/A	N/A	N/A	N/A	28.0	1.164	1.091	1.014	N/A	N/A
14.5	N/A	N/A	N/A	N/A	N/A	28.5	1.155	1.081	1.004	N/A	N/A
15.0	N/A	N/A	N/A	N/A	N/A	29.0	1.146	1.072	0.995	0.919	N/A
15.5	N/A	N/A	N/A	N/A	N/A	29.5	1.137	1.063	0.986	0.911	N/A
16.0	N/A	N/A	N/A	N/A	N/A	30.0	1.129	1.054	0.977	0.904	N/A
16.5	N/A	N/A	N/A	N/A	N/A	30.5	1.121	1.046	0.969	0.896	N/A
17.0	N/A	N/A	N/A	N/A	N/A	31.0	1.113	1.038	0.960	0.888	N/A
17.5	N/A	N/A	N/A	N/A	N/A	31.5	1.105	1.030	0.952	0.881	N/A
18.0	N/A	N/A	N/A	N/A	N/A	32.0	1.098	1.022	0.944	0.874	N/A
18.5	N/A	N/A	N/A	N/A	N/A	32.5	1.091	1.014	0.936	0.867	N/A
19.0	1.392	N/A	N/A	N/A	N/A	33.0	1.084	1.007	0.928	0.860	N/A
19.5	1.376	N/A	N/A	N/A	N/A	33.5	1.077	1.000	0.920	0.853	N/A
20.0	1.360	N/A	N/A	N/A	N/A	34.0	1.070	0.993	0.913	0.846	0.793
20.5	1.345	N/A	N/A	N/A	N/A	34.5	1.064	0.986	0.906	0.839	0.787
21.0	1.330	N/A	N/A	N/A	N/A	35.0	1.058	0.979	0.899	0.833	0.781
21.5	1.315	1.238	N/A	N/A	N/A	35.5	1.052	0.973	0.892	0.827	0.776
22.0	1.302	1.225	N/A	N/A	N/A	36.0	1.046	0.966	0.885	0.820	0.770
22.5	1.288	1.212	N/A	N/A	N/A	36.5	1.041	0.960	0.879	0.814	0.765
23.0	1.275	1.199	N/A	N/A	N/A	37.0	1.035	0.954	0.872	0.808	0.759
23.5	1.262	1.187	N/A	N/A	N/A	37.5	1.030	0.948	0.866	0.802	0.754
24.0	1.250	1.175	1.098	N/A	N/A	38.0	1.025	0.942	0.860	0.797	0.749
24.5	1.238	1.164	1.087	N/A	N/A	38.5	1.020	0.937	0.854	0.791	0.744
25.0	1.226	1.152	1.076	N/A	N/A	39.0	1.015	0.932	0.848	0.786	0.739
25.5	1.215	1.141	1.065	N/A	N/A	39.5	1.011	0.926	0.842	0.780	0.734
26.0	1.204	1.131	1.054	N/A	N/A	40.0	1.006	0.921	0.836	0.775	0.729
26.5	1.194	1.120	1.044	N/A	N/A	40.5	1.002	0.916	0.831	0.770	0.724
27.0	1.184	1.110	1.034	N/A	N/A	41.0	0.998	0.911	0.826	0.764	0.719
27.5	1.174	1.100	1.024	N/A	N/A	41.5	0.994	0.906	0.820	0.759	0.715
28.0	1.164	1.091	1.014	N/A	N/A	42.0	0.990	0.902	0.815	0.754	0.710
						42.5	0.986	0.897	0.810	0.750	0.706
						43.0	0.982	0.893	0.805	0.745	0.701

*N/A = Not available

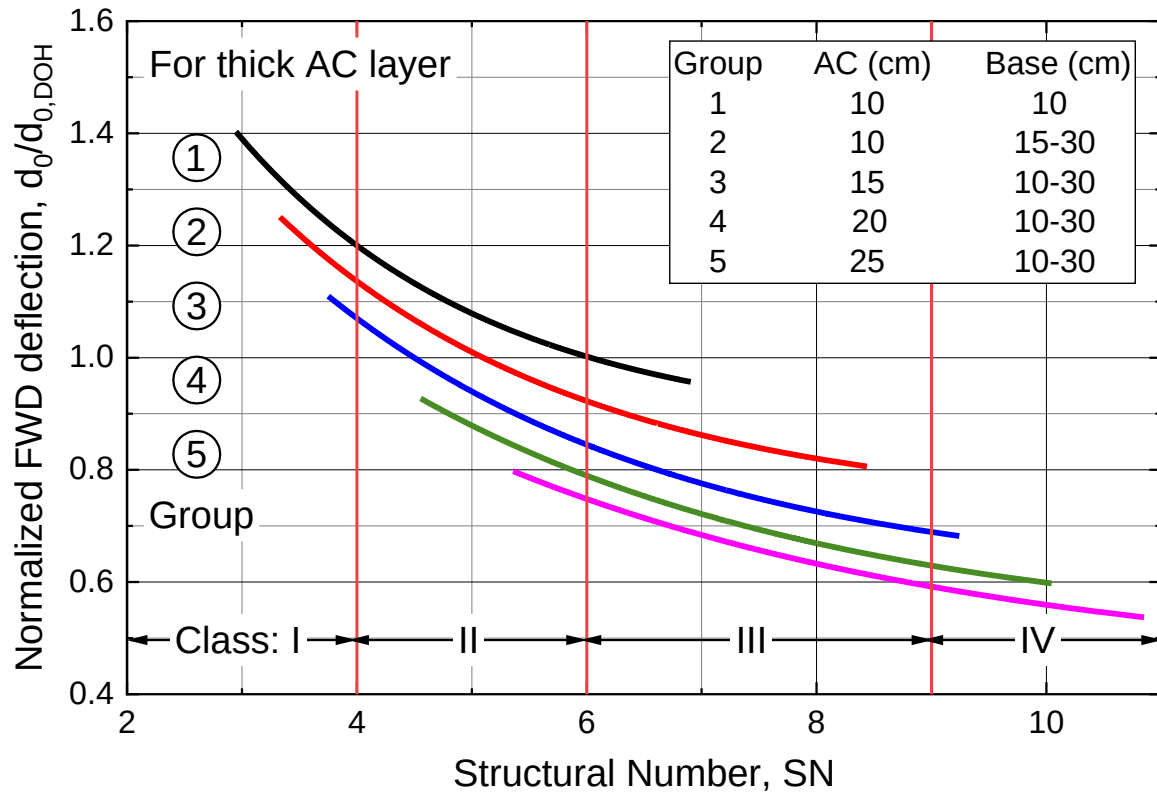
For thick AC layer											
$d_0/d_{0,DOH}$											
T_A (cm)	Class III					T_A (cm)	Class IV				
	Group 1	Group 2	Group 3	Group 4	Group 5		Group 1	Group 2	Group 3	Group 4	Group 5
43.0	0.982	0.893	0.805	0.745	0.701	57.0	N/A	N/A	0.705	0.643	0.603
43.5	0.979	0.889	0.800	0.740	0.697	57.5	N/A	N/A	0.703	0.641	0.601
44.0	0.975	0.885	0.796	0.736	0.693	58.0	N/A	N/A	0.700	0.638	0.598
44.5	0.972	0.880	0.791	0.731	0.689	58.5	N/A	N/A	0.698	0.635	0.595
45.0	0.968	0.877	0.787	0.727	0.685	59.0	N/A	N/A	0.696	0.633	0.593
45.5	0.965	0.873	0.782	0.722	0.680	59.5	N/A	N/A	0.693	0.630	0.590
46.0	0.962	0.869	0.778	0.718	0.676	60.0	N/A	N/A	0.691	0.628	0.588
46.5	0.959	0.865	0.774	0.714	0.673	60.5	N/A	N/A	0.689	0.625	0.585
47.0	N/A	0.862	0.770	0.710	0.669	61.0	N/A	N/A	0.687	0.623	0.583
47.5	N/A	0.858	0.766	0.706	0.665	61.5	N/A	N/A	0.685	0.621	0.580
48.0	N/A	0.855	0.762	0.702	0.661	62.0	N/A	N/A	N/A	0.618	0.578
48.5	N/A	0.852	0.758	0.698	0.658	62.5	N/A	N/A	N/A	0.616	0.576
49.0	N/A	0.848	0.755	0.695	0.654	63.0	N/A	N/A	N/A	0.614	0.573
49.5	N/A	0.845	0.751	0.691	0.650	63.5	N/A	N/A	N/A	0.612	0.571
50.0	N/A	0.842	0.747	0.687	0.647	64.0	N/A	N/A	N/A	0.610	0.569
50.5	N/A	0.839	0.744	0.684	0.643	64.5	N/A	N/A	N/A	0.608	0.567
51.0	N/A	0.836	0.740	0.680	0.640	65.0	N/A	N/A	N/A	0.606	0.565
51.5	N/A	0.834	0.737	0.677	0.637	65.5	N/A	N/A	N/A	0.604	0.563
52.0	N/A	0.831	0.734	0.673	0.633	66.0	N/A	N/A	N/A	0.602	0.560
52.5	N/A	0.828	0.731	0.670	0.630	66.5	N/A	N/A	N/A	0.600	0.558
53.0	N/A	0.826	0.728	0.667	0.627	67.0	N/A	N/A	N/A	N/A	0.556
53.5	N/A	0.823	0.725	0.664	0.624	67.5	N/A	N/A	N/A	N/A	0.554
54.0	N/A	0.821	0.722	0.661	0.621	68.0	N/A	N/A	N/A	N/A	0.553
54.5	N/A	0.818	0.719	0.658	0.618	68.5	N/A	N/A	N/A	N/A	0.551
55.0	N/A	0.816	0.716	0.655	0.615	69.0	N/A	N/A	N/A	N/A	0.549
55.5	N/A	0.814	0.713	0.652	0.612	69.5	N/A	N/A	N/A	N/A	0.547
56.0	N/A	0.811	0.710	0.649	0.609	70.0	N/A	N/A	N/A	N/A	0.545
56.5	N/A	0.809	0.708	0.646	0.606	70.5	N/A	N/A	N/A	N/A	0.543
57.0	N/A	N/A	0.705	0.643	0.603	71.0	N/A	N/A	N/A	N/A	0.542
						71.5	N/A	N/A	N/A	N/A	0.540
						72.0	N/A	N/A	N/A	N/A	N/A

*N/A = Not available



For thin AC layer											
$d_0/d_{0,DOH}$											
SN	Class I		SN	Class II		SN	Class III		SN	Class IV	
	Group 1	Group 2		Group 1	Group 2		Group 1	Group 2		Group 1	Group 2
2.0	N/A	N/A	4.0	1.390	1.275	6.0	1.225	1.073	9.0	N/A	N/A
2.1	N/A	N/A	4.1	1.377	1.260	6.1	1.221	1.066	9.1	N/A	N/A
2.2	1.809	N/A	4.2	1.364	1.246	6.2	N/A	1.060	9.2	N/A	N/A
2.3	1.774	N/A	4.3	1.352	1.233	6.3	N/A	1.054	9.3	N/A	N/A
2.4	1.740	N/A	4.4	1.341	1.220	6.4	N/A	1.049	9.4	N/A	N/A
2.5	1.708	N/A	4.5	1.331	1.207	6.5	N/A	1.044	9.5	N/A	N/A
2.6	1.678	1.558	4.6	1.320	1.196	6.6	N/A	1.038	9.6	N/A	N/A
2.7	1.649	1.532	4.7	1.311	1.184	6.7	N/A	1.033	9.7	N/A	N/A
2.8	1.622	1.507	4.8	1.302	1.173	6.8	N/A	1.029	9.8	N/A	N/A
2.9	1.596	1.483	4.9	1.293	1.163	6.9	N/A	1.024	9.9	N/A	N/A
3.0	1.572	1.460	5.0	1.285	1.153	7.0	N/A	1.020	10.0	N/A	N/A
3.1	1.549	1.437	5.1	1.278	1.143	7.1	N/A	1.016	10.1	N/A	N/A
3.2	1.527	1.416	5.2	1.270	1.134	7.2	N/A	1.012	10.2	N/A	N/A
3.3	1.506	1.396	5.3	1.264	1.125	7.3	N/A	1.008	10.3	N/A	N/A
3.4	1.487	1.376	5.4	1.257	1.117	7.4	N/A	1.004	10.4	N/A	N/A
3.5	1.468	1.357	5.5	1.251	1.109	7.5	N/A	1.001	10.5	N/A	N/A
3.6	1.451	1.339	5.6	1.245	1.101	7.6	N/A	0.997	10.6	N/A	N/A
3.7	1.434	1.322	5.7	1.240	1.093	7.7	N/A	N/A	10.7	N/A	N/A
3.8	1.419	1.306	5.8	1.235	1.086	7.8	N/A	N/A	10.8	N/A	N/A
3.9	1.404	1.290	5.9	1.230	1.079	7.9	N/A	N/A	10.9	N/A	N/A
4.0	1.390	1.275	6.0	1.225	1.073	8.0	N/A	N/A	11.0	N/A	N/A
						8.1	N/A	N/A			
						8.2	N/A	N/A			
						8.3	N/A	N/A			
						8.4	N/A	N/A			
						8.5	N/A	N/A			
						8.6	N/A	N/A			
						8.7	N/A	N/A			
						8.8	N/A	N/A			
						8.9	N/A	N/A			
						9.0	N/A	N/A			

*N/A = Not available

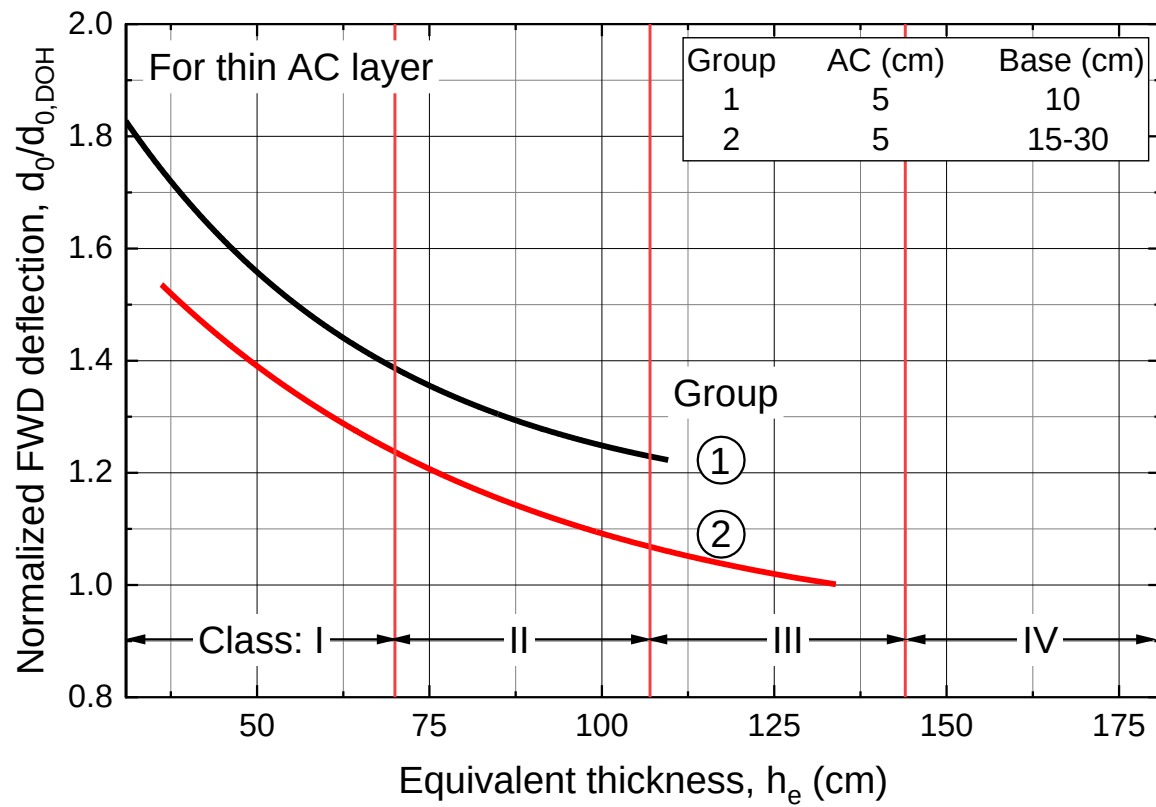


For thick AC layer											
$d_0/d_{0,DOH}$											
SN	Class I					SN	Class II				
	Group 1	Group 2	Group 3	Group 4	Group 5		Group 1	Group 2	Group 3	Group 4	Group 5
2.0	N/A	N/A	N/A	N/A	N/A	4.0	1.200	1.137	1.070	N/A	N/A
2.1	N/A	N/A	N/A	N/A	N/A	4.1	1.185	1.122	1.055	N/A	N/A
2.2	N/A	N/A	N/A	N/A	N/A	4.2	1.171	1.108	1.040	N/A	N/A
2.3	N/A	N/A	N/A	N/A	N/A	4.3	1.158	1.094	1.026	N/A	N/A
2.4	N/A	N/A	N/A	N/A	N/A	4.4	1.145	1.081	1.012	N/A	N/A
2.5	N/A	N/A	N/A	N/A	N/A	4.5	1.132	1.068	0.999	N/A	N/A
2.6	N/A	N/A	N/A	N/A	N/A	4.6	1.121	1.055	0.986	0.922	N/A
2.7	N/A	N/A	N/A	N/A	N/A	4.7	1.110	1.044	0.974	0.911	N/A
2.8	N/A	N/A	N/A	N/A	N/A	4.8	1.099	1.032	0.962	0.900	N/A
2.9	N/A	N/A	N/A	N/A	N/A	4.9	1.089	1.021	0.950	0.890	N/A
3.0	1.390	N/A	N/A	N/A	N/A	5.0	1.079	1.010	0.939	0.879	N/A
3.1	1.367	N/A	N/A	N/A	N/A	5.1	1.069	1.000	0.928	0.869	N/A
3.2	1.345	N/A	N/A	N/A	N/A	5.2	1.060	0.990	0.918	0.859	N/A
3.3	1.324	1.257	N/A	N/A	N/A	5.3	1.052	0.981	0.908	0.850	N/A
3.4	1.303	1.238	N/A	N/A	N/A	5.4	1.044	0.972	0.898	0.841	0.794
3.5	1.284	1.219	N/A	N/A	N/A	5.5	1.036	0.963	0.888	0.831	0.786
3.6	1.266	1.202	N/A	N/A	N/A	5.6	1.028	0.954	0.879	0.823	0.778
3.7	1.248	1.184	N/A	N/A	N/A	5.7	1.021	0.946	0.870	0.814	0.770
3.8	1.231	1.168	1.101	N/A	N/A	5.8	1.014	0.938	0.861	0.806	0.762
3.9	1.215	1.152	1.085	N/A	N/A	5.9	1.008	0.930	0.853	0.798	0.755
4.0	1.200	1.137	1.070	N/A	N/A	6.0	1.002	0.923	0.844	0.790	0.748

*N/A = Not available

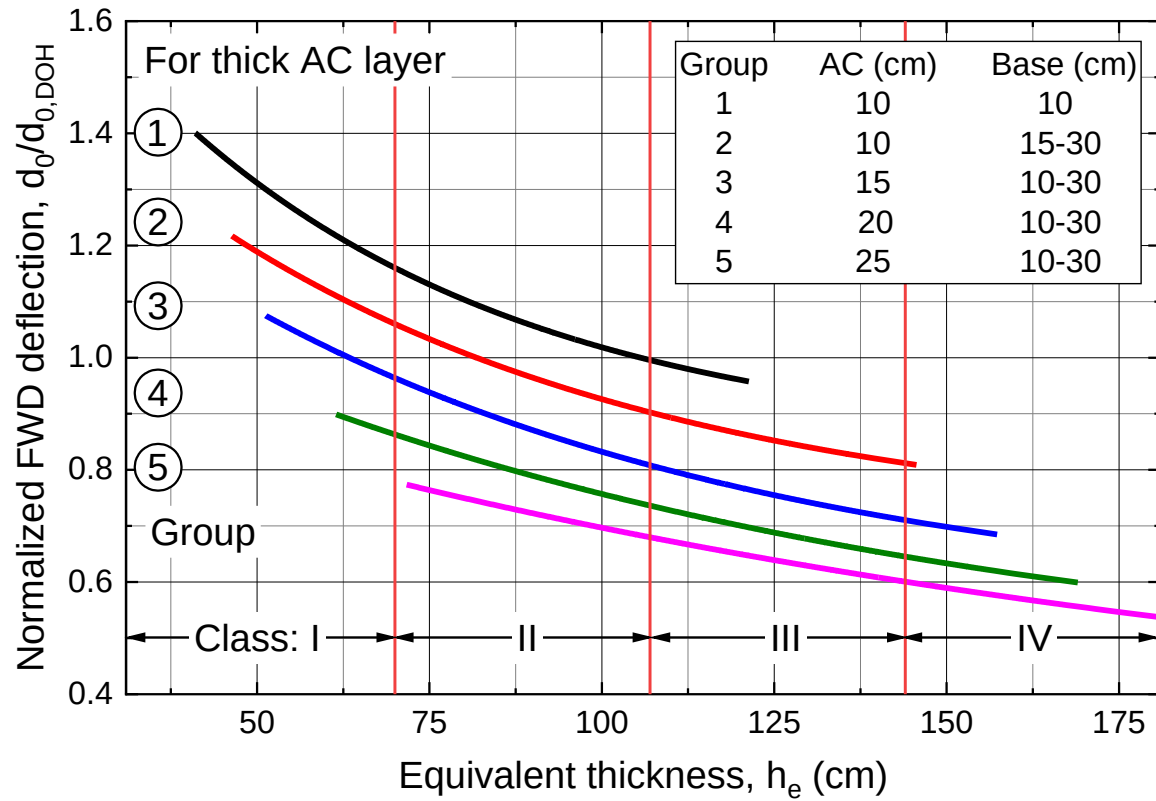
For thick AC layer											
$d_0/d_{0,DOH}$											
SN	Class III					SN	Class IV				
	Group 1	Group 2	Group 3	Group 4	Group 5		Group 1	Group 2	Group 3	Group 4	Group 5
6.0	1.002	0.923	0.844	0.790	0.748	9.0	N/A	N/A	0.689	0.629	0.592
6.1	0.996	0.916	0.836	0.782	0.741	9.1	N/A	N/A	0.686	0.626	0.588
6.2	0.990	0.909	0.829	0.775	0.734	9.2	N/A	N/A	0.683	0.623	0.584
6.3	0.985	0.902	0.821	0.767	0.727	9.3	N/A	N/A	N/A	0.619	0.581
6.4	0.979	0.896	0.814	0.760	0.720	9.4	N/A	N/A	N/A	0.616	0.578
6.5	0.974	0.890	0.807	0.753	0.714	9.5	N/A	N/A	N/A	0.613	0.574
6.6	0.970	0.884	0.800	0.747	0.707	9.6	N/A	N/A	N/A	0.610	0.571
6.7	0.965	0.878	0.794	0.740	0.701	9.7	N/A	N/A	N/A	0.607	0.568
6.8	0.961	0.873	0.787	0.734	0.695	9.8	N/A	N/A	N/A	0.604	0.565
6.9	0.957	0.868	0.781	0.728	0.689	9.9	N/A	N/A	N/A	0.602	0.562
7.0	N/A	0.862	0.775	0.721	0.683	10.0	N/A	N/A	N/A	0.599	0.559
7.1	N/A	0.858	0.770	0.716	0.678	10.1	N/A	N/A	N/A	N/A	0.556
7.2	N/A	0.853	0.764	0.710	0.672	10.2	N/A	N/A	N/A	N/A	0.553
7.3	N/A	0.848	0.759	0.704	0.667	10.3	N/A	N/A	N/A	N/A	0.551
7.4	N/A	0.844	0.753	0.699	0.662	10.4	N/A	N/A	N/A	N/A	0.548
7.5	N/A	0.840	0.748	0.694	0.656	10.5	N/A	N/A	N/A	N/A	0.545
7.6	N/A	0.835	0.743	0.688	0.651	10.6	N/A	N/A	N/A	N/A	0.543
7.7	N/A	0.832	0.739	0.683	0.646	10.7	N/A	N/A	N/A	N/A	0.540
7.8	N/A	0.828	0.734	0.679	0.642	10.8	N/A	N/A	N/A	N/A	0.538
7.9	N/A	0.824	0.729	0.674	0.637	10.9	N/A	N/A	N/A	N/A	N/A
8.0	N/A	0.821	0.725	0.669	0.632	11.0	N/A	N/A	N/A	N/A	N/A
8.1	N/A	0.817	0.721	0.665	0.628						
8.2	N/A	0.814	0.717	0.660	0.623						
8.3	N/A	0.811	0.713	0.656	0.619						
8.4	N/A	0.808	0.709	0.652	0.615						
8.5	N/A	N/A	0.705	0.648	0.611						
8.6	N/A	N/A	0.702	0.644	0.607						
8.7	N/A	N/A	0.698	0.640	0.603						
8.8	N/A	N/A	0.695	0.637	0.599						
8.9	N/A	N/A	0.692	0.633	0.595						
9.0	N/A	N/A	0.689	0.629	0.592						

*N/A = Not available



For thin AC layer											
$d_0/d_{0,DOH}$											
h_e (cm)	Class I		h_e (cm)	Class II		h_e (cm)	Class III		h_e (cm)	Class IV	
	Group 1	Group 2		Group 1	Group 2		Group 1	Group 2		Group 1	Group 2
31.0	1.827	N/A	70.0	1.387	1.237	107.0	1.229	1.068	144.0	N/A	N/A
32.5	1.801	N/A	71.5	1.377	1.227	108.5	1.226	1.063	145.5	N/A	N/A
34.0	1.775	N/A	73.0	1.368	1.218	110.0	N/A	1.059	147.0	N/A	N/A
35.5	1.751	N/A	74.5	1.359	1.209	111.5	N/A	1.054	148.5	N/A	N/A
37.0	1.727	1.525	76.0	1.350	1.201	113.0	N/A	1.050	150.0	N/A	N/A
38.5	1.705	1.508	77.5	1.342	1.192	114.5	N/A	1.046	151.5	N/A	N/A
40.0	1.683	1.491	79.0	1.334	1.184	116.0	N/A	1.042	153.0	N/A	N/A
41.5	1.662	1.475	80.5	1.326	1.176	117.5	N/A	1.038	154.5	N/A	N/A
43.0	1.642	1.459	82.0	1.319	1.169	119.0	N/A	1.034	156.0	N/A	N/A
44.5	1.623	1.443	83.5	1.311	1.161	120.5	N/A	1.030	157.5	N/A	N/A
46.0	1.604	1.428	85.0	1.305	1.154	122.0	N/A	1.026	159.0	N/A	N/A
47.5	1.587	1.413	86.5	1.298	1.147	123.5	N/A	1.023	160.5	N/A	N/A
49.0	1.569	1.399	88.0	1.292	1.140	125.0	N/A	1.019	162.0	N/A	N/A
50.5	1.553	1.385	89.5	1.286	1.133	126.5	N/A	1.016	163.5	N/A	N/A
52.0	1.537	1.372	91.0	1.280	1.127	128.0	N/A	1.013	165.0	N/A	N/A
53.5	1.521	1.359	92.5	1.274	1.121	129.5	N/A	1.010	166.5	N/A	N/A
55.0	1.507	1.346	94.0	1.269	1.114	131.0	N/A	1.006	168.0	N/A	N/A
56.5	1.493	1.334	95.5	1.263	1.108	132.5	N/A	1.003	169.5	N/A	N/A
58.0	1.479	1.322	97.0	1.258	1.103	134.0	N/A	N/A	171.0	N/A	N/A
59.5	1.466	1.310	98.5	1.254	1.097	135.5	N/A	N/A	172.5	N/A	N/A
61.0	1.453	1.299	100.0	1.249	1.091	137.0	N/A	N/A	174.0	N/A	N/A
62.5	1.441	1.288	101.5	1.244	1.086	138.5	N/A	N/A	175.5	N/A	N/A
64.0	1.429	1.277	103.0	1.240	1.081	140.0	N/A	N/A	177.0	N/A	N/A
65.5	1.418	1.266	104.5	1.236	1.076	141.5	N/A	N/A	178.5	N/A	N/A
67.0	1.407	1.256	106.0	1.232	1.071	143.0	N/A	N/A	180.0	N/A	N/A
68.5	1.397	1.246	107.0	1.229	1.068	144.0	N/A	N/A	181.0	N/A	N/A
70.0	1.387	1.237									

*N/A = Not available

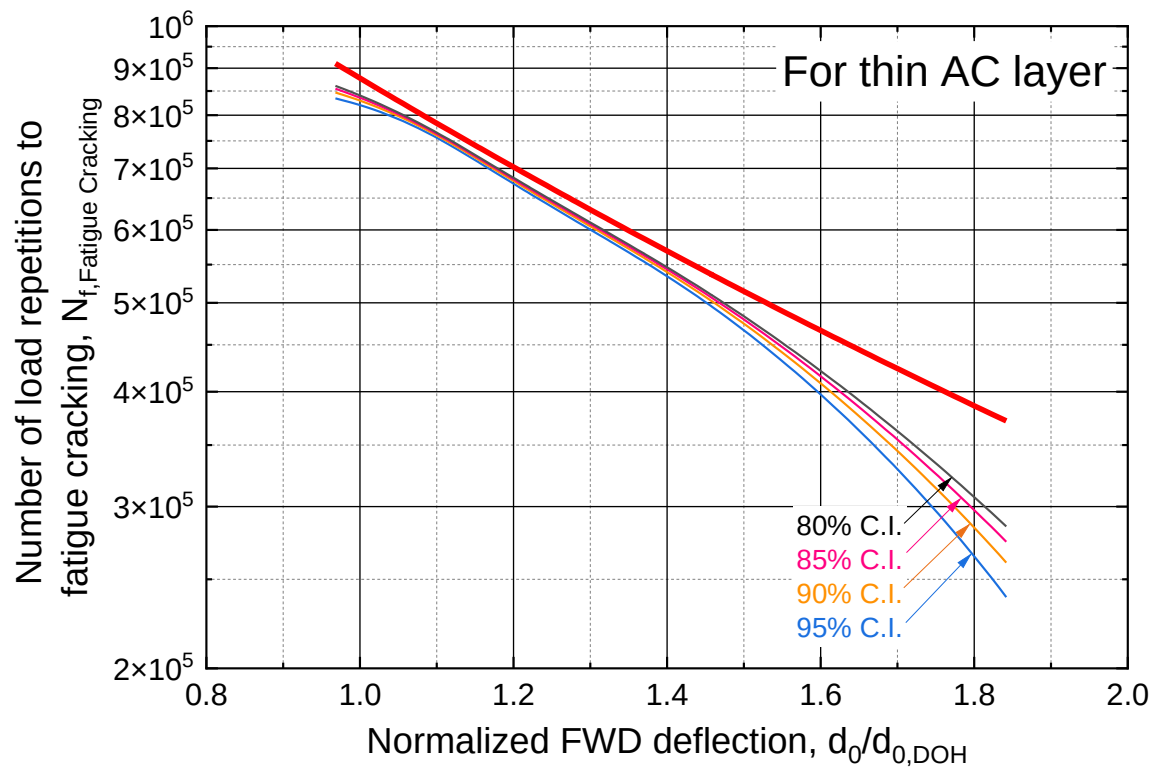


For thick AC layer											
$d_0/d_{0,DOH}$											
h_e (cm)	Class I					h_e (cm)	Class II				
	Group 1	Group 2	Group 3	Group 4	Group 5		Group 1	Group 2	Group 3	Group 4	Group 5
31.0	N/A	N/A	N/A	N/A	N/A	70.0	1.160	1.060	0.963	0.863	N/A
32.5	N/A	N/A	N/A	N/A	N/A	71.5	1.151	1.051	0.955	0.857	N/A
34.0	N/A	N/A	N/A	N/A	N/A	73.0	1.142	1.043	0.948	0.851	0.770
35.5	N/A	N/A	N/A	N/A	N/A	74.5	1.133	1.036	0.940	0.845	0.766
37.0	N/A	N/A	N/A	N/A	N/A	76.0	1.125	1.028	0.933	0.839	0.761
38.5	N/A	N/A	N/A	N/A	N/A	77.5	1.117	1.020	0.926	0.834	0.757
40.0	N/A	N/A	N/A	N/A	N/A	79.0	1.109	1.013	0.919	0.828	0.753
41.5	1.396	N/A	N/A	N/A	N/A	80.5	1.101	1.006	0.912	0.823	0.749
43.0	1.380	N/A	N/A	N/A	N/A	82.0	1.093	0.999	0.905	0.817	0.745
44.5	1.364	N/A	N/A	N/A	N/A	83.5	1.086	0.992	0.898	0.812	0.740
46.0	1.349	N/A	N/A	N/A	N/A	85.0	1.079	0.985	0.891	0.806	0.736
47.5	1.335	1.208	N/A	N/A	N/A	86.5	1.072	0.979	0.885	0.801	0.732
49.0	1.321	1.196	N/A	N/A	N/A	88.0	1.065	0.972	0.879	0.796	0.728
50.5	1.307	1.185	N/A	N/A	N/A	89.5	1.059	0.966	0.872	0.791	0.724
52.0	1.293	1.174	1.069	N/A	N/A	91.0	1.053	0.960	0.866	0.786	0.720
53.5	1.281	1.163	1.060	N/A	N/A	92.5	1.046	0.954	0.860	0.781	0.716
55.0	1.268	1.153	1.050	N/A	N/A	94.0	1.041	0.948	0.854	0.776	0.712
56.5	1.256	1.142	1.041	N/A	N/A	95.5	1.035	0.942	0.849	0.771	0.709
58.0	1.244	1.132	1.031	N/A	N/A	97.0	1.029	0.937	0.843	0.766	0.705
59.5	1.232	1.122	1.022	N/A	N/A	98.5	1.024	0.931	0.837	0.762	0.701
61.0	1.221	1.113	1.013	N/A	N/A	100.0	1.018	0.926	0.832	0.757	0.697
62.5	1.210	1.104	1.005	0.894	N/A	101.5	1.013	0.920	0.827	0.752	0.694
64.0	1.199	1.094	0.996	0.888	N/A	103.0	1.008	0.915	0.821	0.748	0.690
65.5	1.189	1.085	0.988	0.882	N/A	104.5	1.003	0.910	0.816	0.743	0.686
67.0	1.179	1.077	0.979	0.875	N/A	106.0	0.999	0.905	0.811	0.739	0.683
68.5	1.169	1.068	0.971	0.869	N/A	107.0	0.996	0.902	0.808	0.736	0.680
70.0	1.160	1.060	0.963	0.863	N/A						

*N/A = Not available

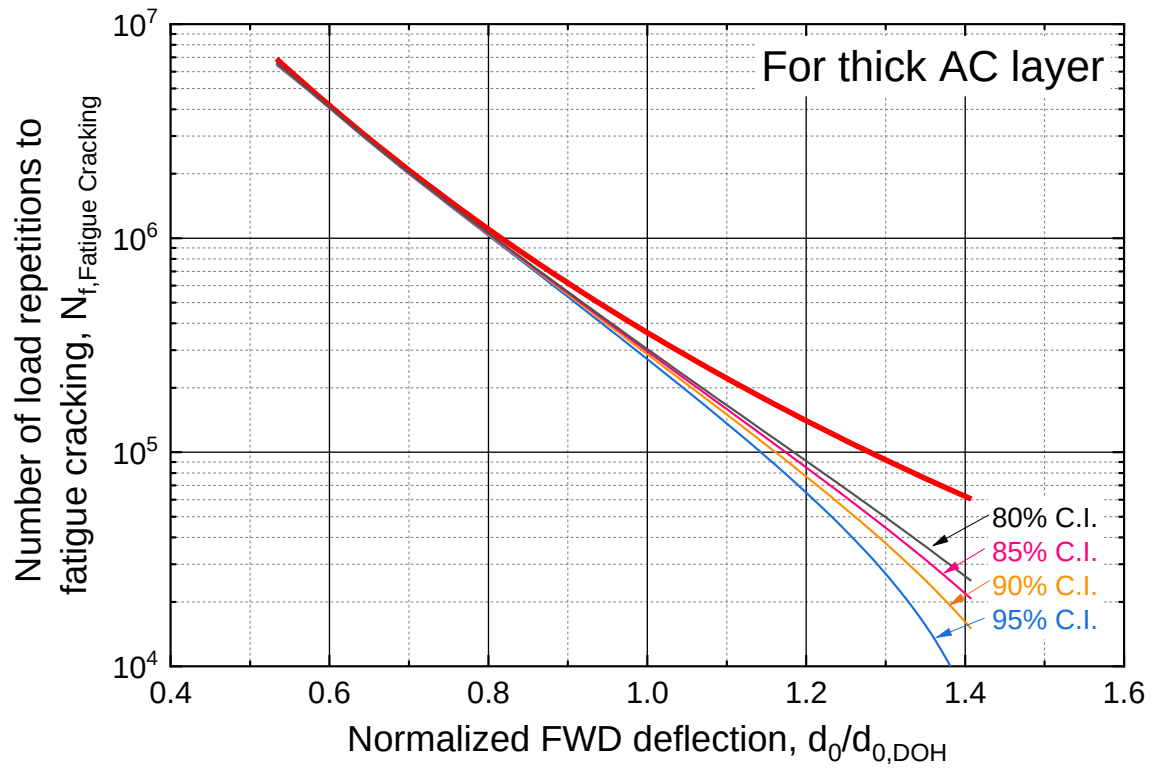
For thick AC layer											
$d_0/d_{0,DOH}$											
h_e (cm)	Class III					h_e (cm)	Class IV				
	Group 1	Group 2	Group 3	Group 4	Group 5		Group 1	Group 2	Group 3	Group 4	Group 5
107.0	0.996	0.902	0.808	0.736	0.680	144.0	N/A	0.811	0.710	0.645	0.601
108.5	0.991	0.897	0.803	0.732	0.677	145.5	N/A	0.809	0.707	0.642	0.598
110.0	0.987	0.893	0.798	0.728	0.673	147.0	N/A	N/A	0.704	0.639	0.595
111.5	0.982	0.888	0.793	0.723	0.670	148.5	N/A	N/A	0.701	0.636	0.593
113.0	0.978	0.884	0.789	0.719	0.666	150.0	N/A	N/A	0.698	0.633	0.590
114.5	0.974	0.880	0.784	0.715	0.663	151.5	N/A	N/A	0.695	0.630	0.587
116.0	0.970	0.875	0.780	0.711	0.659	153.0	N/A	N/A	0.692	0.628	0.584
117.5	0.967	0.871	0.775	0.707	0.656	154.5	N/A	N/A	0.690	0.625	0.582
119.0	0.963	0.867	0.771	0.703	0.653	156.0	N/A	N/A	0.687	0.622	0.579
120.5	0.959	0.863	0.767	0.699	0.649	157.5	N/A	N/A	N/A	0.619	0.576
122.0	N/A	0.859	0.763	0.696	0.646	159.0	N/A	N/A	N/A	0.616	0.574
123.5	N/A	0.856	0.759	0.692	0.643	160.5	N/A	N/A	N/A	0.614	0.571
125.0	N/A	0.852	0.755	0.688	0.639	162.0	N/A	N/A	N/A	0.611	0.568
126.5	N/A	0.848	0.751	0.685	0.636	163.5	N/A	N/A	N/A	0.608	0.566
128.0	N/A	0.845	0.747	0.681	0.633	165.0	N/A	N/A	N/A	0.606	0.563
129.5	N/A	0.841	0.743	0.677	0.630	166.5	N/A	N/A	N/A	0.603	0.561
131.0	N/A	0.838	0.739	0.674	0.627	168.0	N/A	N/A	N/A	0.601	0.558
132.5	N/A	0.834	0.736	0.670	0.624	169.5	N/A	N/A	N/A	N/A	0.556
134.0	N/A	0.831	0.732	0.667	0.621	171.0	N/A	N/A	N/A	N/A	0.553
135.5	N/A	0.828	0.729	0.664	0.618	172.5	N/A	N/A	N/A	N/A	0.551
137.0	N/A	0.825	0.725	0.660	0.615	174.0	N/A	N/A	N/A	N/A	0.549
138.5	N/A	0.822	0.722	0.657	0.612	175.5	N/A	N/A	N/A	N/A	0.546
140.0	N/A	0.819	0.719	0.654	0.609	177.0	N/A	N/A	N/A	N/A	0.544
141.5	N/A	0.816	0.715	0.651	0.606	178.5	N/A	N/A	N/A	N/A	0.541
143.0	N/A	0.813	0.712	0.647	0.603	180.0	N/A	N/A	N/A	N/A	0.539
144.0	N/A	0.811	0.710	0.645	0.601	181.0	N/A	N/A	N/A	N/A	N/A

*N/A = Not available



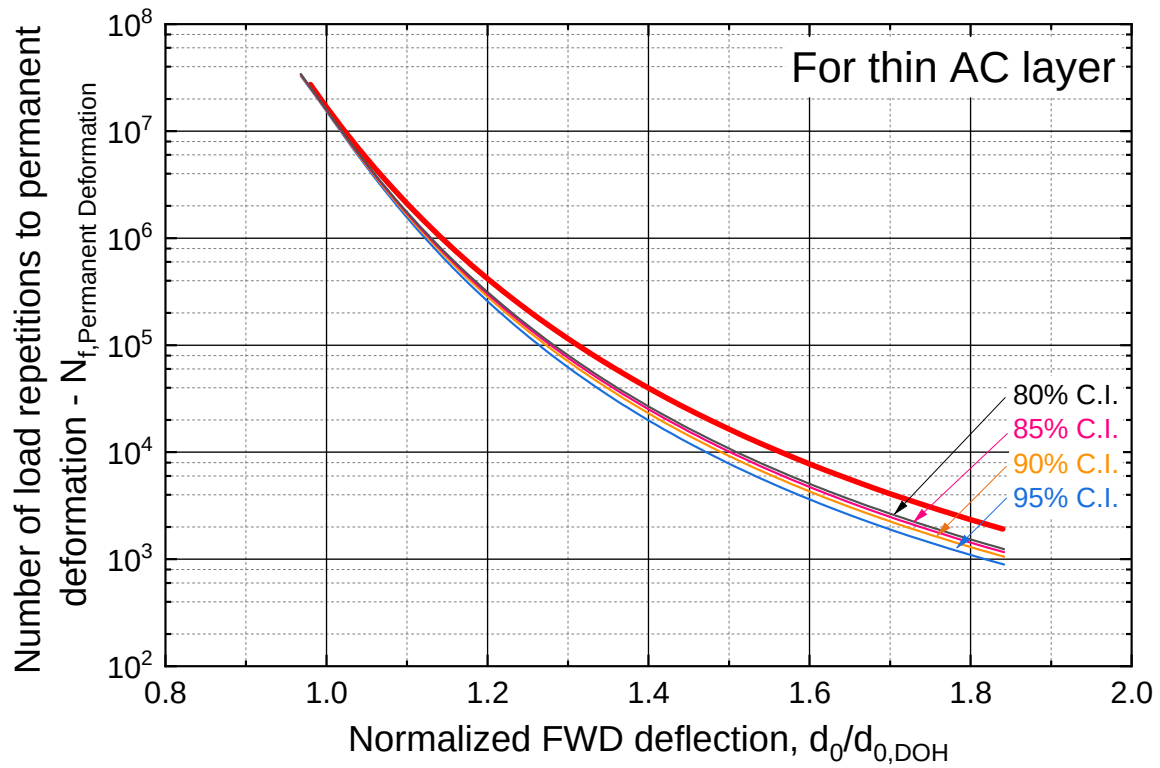
For thin AC layer					
$d_f/d_{0,DOH}$	N_f , Fatigue Cracking				
	Average	80% C.I.	85% C.I.	90% C.I.	95% C.I.
0.98	8.98E+5	8.54E+5	8.48E+5	8.41E+5	8.30E+5
1.00	8.78E+5	8.40E+5	8.36E+5	8.30E+5	8.20E+5
1.02	8.58E+5	8.27E+5	8.23E+5	8.18E+5	8.10E+5
1.04	8.39E+5	8.13E+5	8.09E+5	8.05E+5	7.98E+5
1.06	8.20E+5	7.98E+5	7.95E+5	7.91E+5	7.86E+5
1.08	8.02E+5	7.82E+5	7.80E+5	7.76E+5	7.71E+5
1.10	7.84E+5	7.66E+5	7.64E+5	7.61E+5	7.56E+5
1.12	7.67E+5	7.49E+5	7.47E+5	7.44E+5	7.40E+5
1.14	7.50E+5	7.33E+5	7.30E+5	7.28E+5	7.23E+5
1.16	7.34E+5	7.16E+5	7.14E+5	7.11E+5	7.06E+5
1.18	7.18E+5	7.00E+5	6.97E+5	6.94E+5	6.90E+5
1.20	7.02E+5	6.84E+5	6.82E+5	6.78E+5	6.74E+5
1.22	6.87E+5	6.68E+5	6.66E+5	6.63E+5	6.58E+5
1.24	6.73E+5	6.54E+5	6.51E+5	6.48E+5	6.43E+5
1.26	6.59E+5	6.39E+5	6.37E+5	6.33E+5	6.29E+5
1.28	6.45E+5	6.25E+5	6.23E+5	6.19E+5	6.14E+5
1.30	6.31E+5	6.11E+5	6.09E+5	6.06E+5	6.01E+5
1.32	6.18E+5	5.98E+5	5.95E+5	5.92E+5	5.87E+5
1.34	6.06E+5	5.85E+5	5.82E+5	5.79E+5	5.74E+5
1.36	5.93E+5	5.72E+5	5.69E+5	5.66E+5	5.61E+5
1.38	5.81E+5	5.59E+5	5.56E+5	5.53E+5	5.48E+5
1.40	5.69E+5	5.46E+5	5.44E+5	5.40E+5	5.34E+5
1.42	5.58E+5	5.34E+5	5.31E+5	5.27E+5	5.21E+5
1.44	5.46E+5	5.21E+5	5.18E+5	5.14E+5	5.08E+5
1.46	5.36E+5	5.09E+5	5.05E+5	5.01E+5	4.94E+5
1.48	5.25E+5	4.96E+5	4.92E+5	4.88E+5	4.80E+5
1.50	5.15E+5	4.83E+5	4.79E+5	4.74E+5	4.67E+5
1.52	5.04E+5	4.71E+5	4.67E+5	4.61E+5	4.53E+5
1.54	4.95E+5	4.58E+5	4.54E+5	4.48E+5	4.39E+5
1.56	4.85E+5	4.46E+5	4.41E+5	4.35E+5	4.25E+5
1.58	4.76E+5	4.34E+5	4.28E+5	4.22E+5	4.11E+5
1.60	4.66E+5	4.21E+5	4.16E+5	4.09E+5	3.97E+5
1.62	4.57E+5	4.09E+5	4.03E+5	3.96E+5	3.84E+5
1.64	4.49E+5	3.97E+5	3.91E+5	3.83E+5	3.70E+5

For thin AC layer					
$d_o/d_{o,DOH}$	$N_{f,Fatigue\ Cracking}$				
	Average	80% C.I.	85% C.I.	90% C.I.	95% C.I.
1.66	4.40E+5	3.86E+5	3.79E+5	3.70E+5	3.56E+5
1.68	4.32E+5	3.74E+5	3.67E+5	3.57E+5	3.43E+5
1.70	4.24E+5	3.62E+5	3.55E+5	3.45E+5	3.29E+5
1.72	4.16E+5	3.51E+5	3.43E+5	3.32E+5	3.16E+5
1.74	4.08E+5	3.40E+5	3.31E+5	3.20E+5	3.03E+5
1.76	4.01E+5	3.29E+5	3.20E+5	3.08E+5	2.90E+5
1.78	3.93E+5	3.18E+5	3.09E+5	2.96E+5	2.77E+5
1.80	3.86E+5	3.07E+5	2.97E+5	2.85E+5	2.65E+5
1.82	3.79E+5	2.97E+5	2.86E+5	2.73E+5	2.52E+5
1.84	3.72E+5	2.86E+5	2.76E+5	2.62E+5	2.40E+5



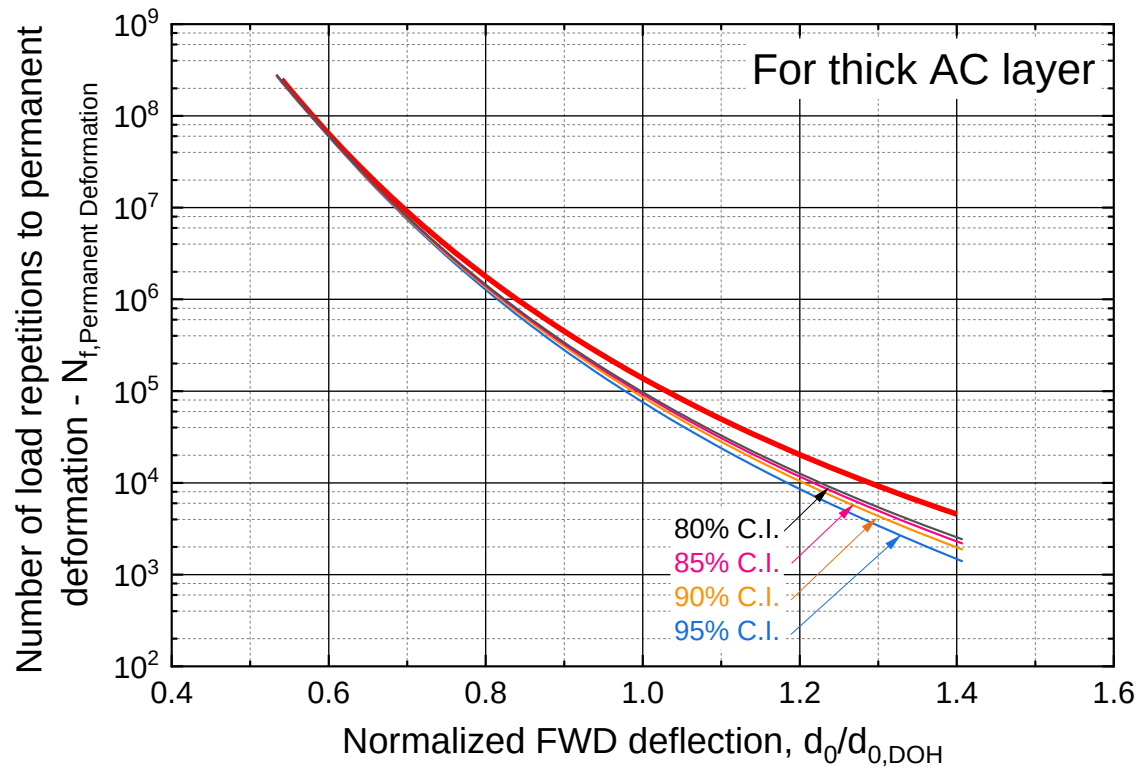
For thick AC layer					
$d_f/d_{0,DOH}$	N_f , Fatigue Cracking				
	Average	80% C.I.	85% C.I.	90% C.I.	95% C.I.
0.54	6.54E+6	6.29E+6	6.26E+6	6.22E+6	6.16E+6
0.56	5.61E+6	5.45E+6	5.43E+6	5.41E+6	5.37E+6
0.58	4.83E+6	4.73E+6	4.71E+6	4.70E+6	4.67E+6
0.60	4.17E+6	4.09E+6	4.08E+6	4.07E+6	4.05E+6
0.62	3.61E+6	3.54E+6	3.53E+6	3.52E+6	3.51E+6
0.64	3.13E+6	3.07E+6	3.06E+6	3.05E+6	3.03E+6
0.66	2.72E+6	2.66E+6	2.66E+6	2.65E+6	2.63E+6
0.68	2.38E+6	2.32E+6	2.31E+6	2.30E+6	2.29E+6
0.70	2.08E+6	2.03E+6	2.02E+6	2.01E+6	2.00E+6
0.72	1.82E+6	1.77E+6	1.77E+6	1.76E+6	1.75E+6
0.74	1.60E+6	1.55E+6	1.55E+6	1.54E+6	1.53E+6
0.76	1.41E+6	1.36E+6	1.36E+6	1.35E+6	1.34E+6
0.78	1.25E+6	1.20E+6	1.19E+6	1.19E+6	1.17E+6
0.80	1.10E+6	1.06E+6	1.05E+6	1.04E+6	1.03E+6
0.82	9.78E+5	9.29E+5	9.23E+5	9.15E+5	9.03E+5
0.84	8.69E+5	8.19E+5	8.12E+5	8.04E+5	7.92E+5
0.86	7.74E+5	7.21E+5	7.15E+5	7.07E+5	6.94E+5
0.88	6.91E+5	6.36E+5	6.30E+5	6.21E+5	6.07E+5
0.90	6.17E+5	5.62E+5	5.55E+5	5.46E+5	5.32E+5
0.92	5.53E+5	4.96E+5	4.89E+5	4.80E+5	4.66E+5
0.94	4.96E+5	4.38E+5	4.31E+5	4.22E+5	4.07E+5
0.96	4.46E+5	3.87E+5	3.80E+5	3.71E+5	3.56E+5
0.98	4.01E+5	3.43E+5	3.35E+5	3.26E+5	3.12E+5
1.00	3.62E+5	3.03E+5	2.96E+5	2.87E+5	2.72E+5
1.02	3.27E+5	2.69E+5	2.61E+5	2.52E+5	2.38E+5
1.04	2.96E+5	2.38E+5	2.31E+5	2.21E+5	2.07E+5
1.06	2.68E+5	2.11E+5	2.04E+5	1.95E+5	1.80E+5
1.08	2.44E+5	1.87E+5	1.80E+5	1.71E+5	1.57E+5
1.10	2.21E+5	1.66E+5	1.59E+5	1.50E+5	1.36E+5
1.12	2.02E+5	1.47E+5	1.40E+5	1.32E+5	1.18E+5
1.14	1.84E+5	1.30E+5	1.24E+5	1.15E+5	1.02E+5
1.16	1.68E+5	1.16E+5	1.09E+5	1.01E+5	8.81E+4
1.18	1.53E+5	1.03E+5	9.64E+4	8.82E+4	7.57E+4
1.20	1.40E+5	9.10E+4	8.49E+4	7.70E+4	6.48E+4

For thick AC layer					
$d_f/d_{f,DOH}$	$N_{f,Fatigue\ Cracking}$				
	Average	80% C.I.	85% C.I.	90% C.I.	95% C.I.
1.22	1.29E+5	8.07E+4	7.48E+4	6.71E+4	5.52E+4
1.24	1.18E+5	7.15E+4	6.58E+4	5.83E+4	4.67E+4
1.26	1.09E+5	6.34E+4	5.78E+4	5.05E+4	3.93E+4
1.28	1.00E+5	5.61E+4	5.07E+4	4.36E+4	3.28E+4
1.30	9.21E+4	4.96E+4	4.44E+4	3.75E+4	2.70E+4
1.32	8.50E+4	4.38E+4	3.87E+4	3.21E+4	2.20E+4
1.34	7.85E+4	3.87E+4	3.38E+4	2.74E+4	1.76E+4
1.36	7.25E+4	3.41E+4	2.93E+4	2.32E+4	1.37E+4
1.38	6.71E+4	3.00E+4	2.54E+4	1.94E+4	1.03E+4
1.40	6.22E+4	2.63E+4	2.19E+4	1.61E+4	7.26E+3



For thin AC layer					
$d_r/d_{0,DOH}$	N_f , Permanent Deformation				
	Average	80% C.I.	85% C.I.	90% C.I.	95% C.I.
0.98	2.73E+7	2.57E+7	2.55E+7	2.52E+7	2.48E+7
1.00	1.68E+7	1.58E+7	1.57E+7	1.56E+7	1.53E+7
1.02	1.06E+7	9.80E+6	9.70E+6	9.58E+6	9.39E+6
1.04	6.84E+6	6.17E+6	6.08E+6	5.98E+6	5.81E+6
1.06	4.52E+6	3.97E+6	3.90E+6	3.81E+6	3.67E+6
1.08	3.06E+6	2.61E+6	2.55E+6	2.48E+6	2.37E+6
1.10	2.10E+6	1.75E+6	1.71E+6	1.65E+6	1.56E+6
1.12	1.48E+6	1.20E+6	1.16E+6	1.12E+6	1.05E+6
1.14	1.05E+6	8.36E+5	8.09E+5	7.74E+5	7.20E+5
1.16	7.63E+5	5.94E+5	5.72E+5	5.45E+5	5.03E+5
1.18	5.61E+5	4.28E+5	4.12E+5	3.90E+5	3.57E+5
1.20	4.18E+5	3.14E+5	3.01E+5	2.84E+5	2.58E+5
1.22	3.16E+5	2.33E+5	2.23E+5	2.09E+5	1.89E+5
1.24	2.41E+5	1.75E+5	1.67E+5	1.57E+5	1.40E+5
1.26	1.86E+5	1.34E+5	1.27E+5	1.19E+5	1.06E+5
1.28	1.45E+5	1.03E+5	9.79E+4	9.10E+4	8.05E+4
1.30	1.15E+5	8.04E+4	7.62E+4	7.06E+4	6.21E+4
1.32	9.12E+4	6.34E+4	5.99E+4	5.54E+4	4.84E+4
1.34	7.32E+4	5.04E+4	4.76E+4	4.39E+4	3.82E+4
1.36	5.93E+4	4.05E+4	3.82E+4	3.51E+4	3.04E+4
1.38	4.83E+4	3.28E+4	3.09E+4	2.83E+4	2.44E+4
1.40	3.97E+4	2.68E+4	2.52E+4	2.31E+4	1.98E+4
1.42	3.29E+4	2.20E+4	2.07E+4	1.89E+4	1.62E+4
1.44	2.74E+4	1.83E+4	1.71E+4	1.56E+4	1.34E+4
1.46	2.30E+4	1.52E+4	1.43E+4	1.30E+4	1.11E+4
1.48	1.94E+4	1.28E+4	1.20E+4	1.09E+4	9.28E+3
1.50	1.64E+4	1.08E+4	1.01E+4	9.22E+3	7.82E+3
1.52	1.40E+4	9.20E+3	8.60E+3	7.83E+3	6.63E+3
1.54	1.20E+4	7.86E+3	7.35E+3	6.68E+3	5.65E+3
1.56	1.03E+4	6.76E+3	6.32E+3	5.74E+3	4.84E+3
1.58	8.94E+3	5.84E+3	5.45E+3	4.95E+3	4.18E+3
1.60	7.77E+3	5.07E+3	4.73E+3	4.30E+3	3.62E+3
1.62	6.78E+3	4.42E+3	4.13E+3	3.74E+3	3.15E+3
1.64	5.94E+3	3.87E+3	3.61E+3	3.28E+3	2.76E+3

For thin AC layer					
$d_o/d_{0,DOH}$	$N_{f, \text{Permanent Deformation}}$				
	Average	80% C.I.	85% C.I.	90% C.I.	95% C.I.
1.66	5.23E+3	3.40E+3	3.18E+3	2.88E+3	2.43E+3
1.68	4.61E+3	3.00E+3	2.80E+3	2.54E+3	2.14E+3
1.70	4.09E+3	2.66E+3	2.49E+3	2.25E+3	1.90E+3
1.72	3.64E+3	2.37E+3	2.21E+3	2.00E+3	1.69E+3
1.74	3.24E+3	2.11E+3	1.97E+3	1.79E+3	1.51E+3
1.76	2.90E+3	1.89E+3	1.77E+3	1.60E+3	1.35E+3
1.78	2.60E+3	1.70E+3	1.59E+3	1.44E+3	1.21E+3
1.80	2.34E+3	1.53E+3	1.43E+3	1.30E+3	1.09E+3
1.82	2.12E+3	1.38E+3	1.29E+3	1.17E+3	9.91E+2
1.84	1.91E+3	1.25E+3	1.17E+3	1.06E+3	8.99E+2



For thick AC layer					
$d_0/d_{0,DOH}$	N_f , Permanent Deformation				
	Average	80% C.I.	85% C.I.	90% C.I.	95% C.I.
0.54	2.51E+8	2.40E+8	2.39E+8	2.37E+8	2.34E+8
0.56	1.56E+8	1.51E+8	1.50E+8	1.49E+8	1.48E+8
0.58	9.87E+7	9.56E+7	9.52E+7	9.47E+7	9.39E+7
0.60	6.37E+7	6.10E+7	6.07E+7	6.03E+7	5.96E+7
0.62	4.18E+7	3.95E+7	3.92E+7	3.88E+7	3.82E+7
0.64	2.79E+7	2.59E+7	2.57E+7	2.53E+7	2.48E+7
0.66	1.89E+7	1.73E+7	1.70E+7	1.68E+7	1.64E+7
0.68	1.30E+7	1.17E+7	1.15E+7	1.13E+7	1.10E+7
0.70	9.04E+6	7.99E+6	7.85E+6	7.68E+6	7.42E+6
0.72	6.38E+6	5.54E+6	5.44E+6	5.30E+6	5.10E+6
0.74	4.56E+6	3.89E+6	3.81E+6	3.71E+6	3.54E+6
0.76	3.29E+6	2.77E+6	2.70E+6	2.62E+6	2.49E+6
0.78	2.41E+6	1.99E+6	1.94E+6	1.87E+6	1.77E+6
0.80	1.78E+6	1.45E+6	1.41E+6	1.35E+6	1.27E+6
0.82	1.33E+6	1.06E+6	1.03E+6	9.88E+5	9.24E+5
0.84	9.98E+5	7.88E+5	7.62E+5	7.29E+5	6.77E+5
0.86	7.58E+5	5.90E+5	5.69E+5	5.42E+5	5.01E+5
0.88	5.81E+5	4.45E+5	4.29E+5	4.07E+5	3.73E+5
0.90	4.49E+5	3.39E+5	3.26E+5	3.08E+5	2.81E+5
0.92	3.50E+5	2.60E+5	2.49E+5	2.35E+5	2.13E+5
0.94	2.74E+5	2.01E+5	1.92E+5	1.81E+5	1.63E+5
0.96	2.17E+5	1.57E+5	1.50E+5	1.40E+5	1.25E+5
0.98	1.72E+5	1.23E+5	1.17E+5	1.09E+5	9.70E+4
1.00	1.38E+5	9.73E+4	9.22E+4	8.57E+4	7.56E+4
1.02	1.11E+5	7.73E+4	7.32E+4	6.77E+4	5.94E+4
1.04	9.01E+4	6.19E+4	5.84E+4	5.39E+4	4.69E+4
1.06	7.35E+4	4.98E+4	4.69E+4	4.31E+4	3.72E+4
1.08	6.02E+4	4.03E+4	3.79E+4	3.47E+4	2.97E+4
1.10	4.96E+4	3.28E+4	3.07E+4	2.80E+4	2.39E+4
1.12	4.11E+4	2.68E+4	2.51E+4	2.28E+4	1.93E+4
1.14	3.42E+4	2.21E+4	2.06E+4	1.86E+4	1.56E+4
1.16	2.86E+4	1.82E+4	1.70E+4	1.53E+4	1.27E+4
1.18	2.40E+4	1.51E+4	1.40E+4	1.26E+4	1.04E+4
1.20	2.03E+4	1.26E+4	1.17E+4	1.05E+4	8.56E+3

For thick AC layer					
$d_0/d_{0,DOH}$	$N_{f, \text{Permanent Deformation}}$				
	Average	80% C.I.	85% C.I.	90% C.I.	95% C.I.
1.22	1.72E+4	1.06E+4	9.76E+3	8.70E+3	7.07E+3
1.24	1.46E+4	8.90E+3	8.19E+3	7.27E+3	5.86E+3
1.26	1.25E+4	7.52E+3	6.90E+3	6.10E+3	4.87E+3
1.28	1.07E+4	6.37E+3	5.84E+3	5.14E+3	4.07E+3
1.30	9.21E+3	5.42E+3	4.95E+3	4.35E+3	3.41E+3
1.32	7.96E+3	4.63E+3	4.22E+3	3.69E+3	2.87E+3
1.34	6.89E+3	3.97E+3	3.61E+3	3.14E+3	2.42E+3
1.36	5.99E+3	3.41E+3	3.10E+3	2.68E+3	2.05E+3
1.38	5.22E+3	2.95E+3	2.67E+3	2.30E+3	1.74E+3
1.40	4.57E+3	2.55E+3	2.30E+3	1.98E+3	1.48E+3

