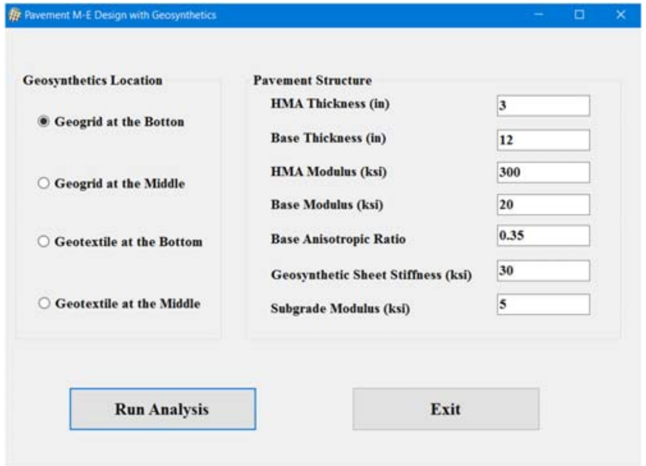
Errata Sheet for NCHRP Web-Only Document 235

Quantifying the Influence of Geosynthetics on Pavement Performance

Page No.	Original	Corrected
C-3	(Table C-2 footnote) [a] “Sheet stiffness corresponding to 2 percent tensile strain.”	[a] “Tensile sheet stiffness values are at 0.5% tensile strain for TX geogrid and at 2% tensile strain for BX geogrid.”
Q-1	It can be observed from Figure Q-3 that the subgrade modulus has been increased from 5.0 ksi to 11.9 ksi with placing the geogrid at the bottom of the base course.	It can be observed from Figure Q-3 that the subgrade modulus has been increased from 5.0 ksi to 13.1 ksi and base modulus has been increased from 20.0 ksi to 22.5 ksi with placing the geogrid at the bottom of the base course.
Q-2	 **Figure Q-2. Select “Geogrid at the Bottom” and Input Material Properties**	 **Figure Q-2. Select “Geogrid at the Bottom” and Input Material Properties**

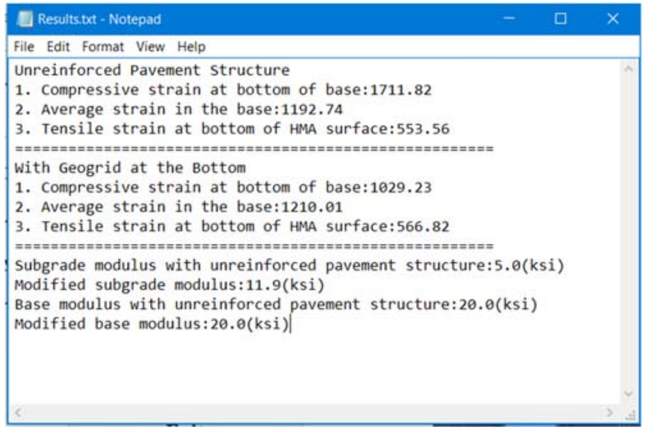
<table>
<tr><th>Page No.</th><th>Original</th><th>Corrected</th></tr>
<tr><td>Q-3</td><td>

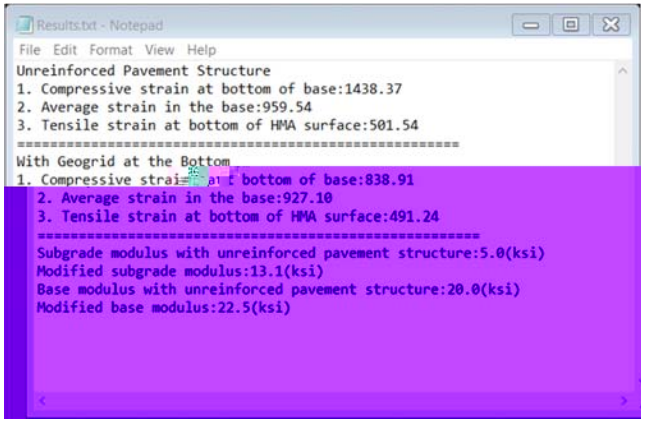
Figure Q-3. Analysis Results for Example 1</td><td>

Figure Q-3. Analysis Results for Example 1</td></tr>
<tr><td>Q-3</td><td>The “Results” file will then open up, as shown in Figure Q-6, which indicates that the subgrade modulus has been increased from 5.0 ksi to 5.5 ksi with a geogrid layer in the middle of the base course.</td><td>The “Results” file will then open up, as shown in Figure Q-6, which indicates that the base modulus has been increased from 20.0 ksi to 20.8 ksi with a geogrid layer in the middle of the base course.</td></tr>
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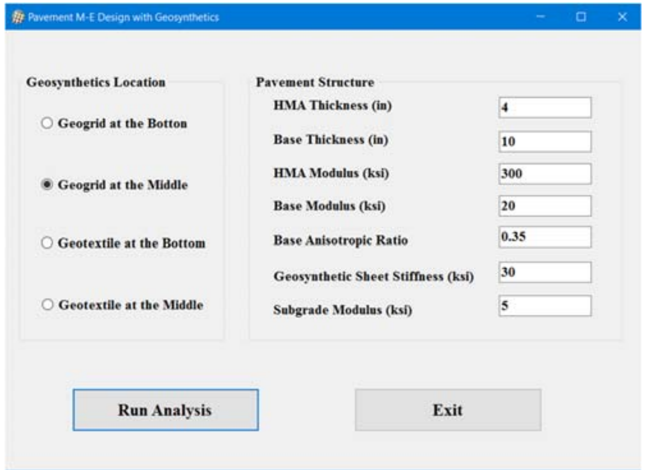
<tr><td>Q-4</td><td>

Figure Q-5. Select "Geogrid in the Middle" and Input Material Properties</td><td>

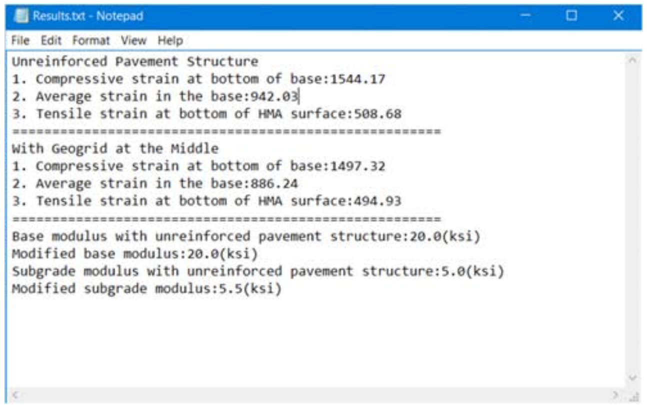
Figure Q-5. Select "Geogrid in the Middle" and Input Material Properties</td></tr>
<tr><td>Q-5</td><td>

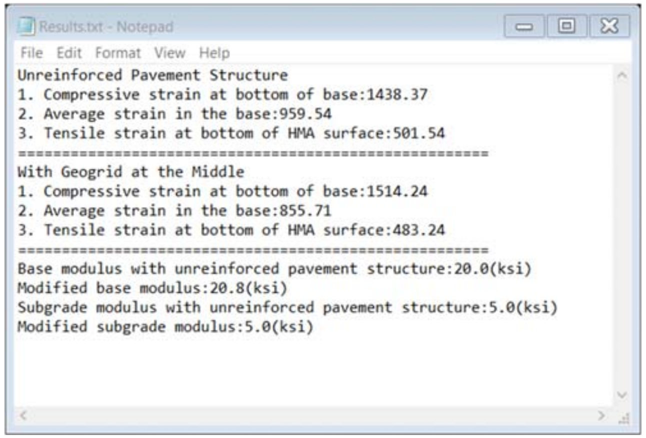
Figure Q-6. Analysis Results for Example 2</td><td>

Figure Q-6. Analysis Results for Example 2</td></tr>
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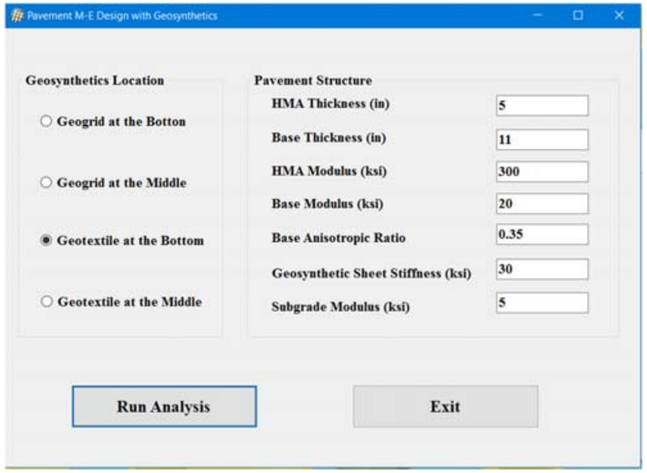
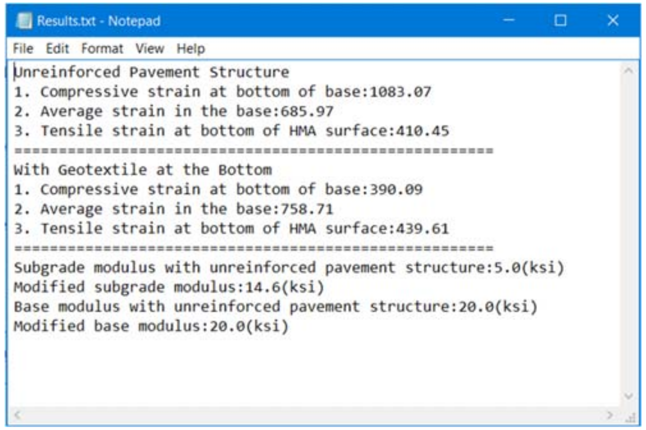
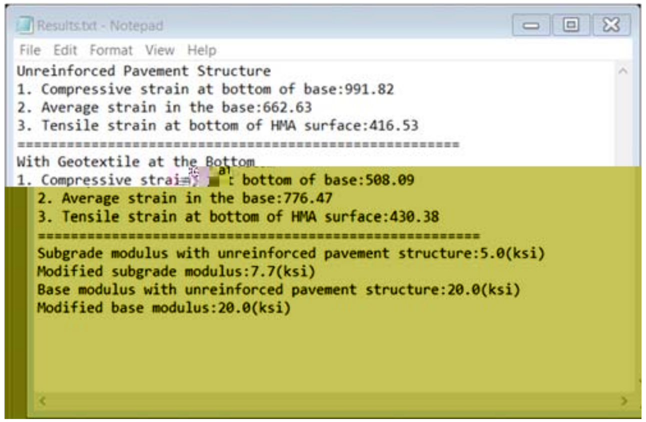
Page No.	Original	Corrected
Q-5	As can been seen from the “Results” file (see Figure Q-9), the subgrade modulus has been increased from 5.0 ksi to 14.6 ksi when placing the geotextile layer at the bottom of the base course.	As can been seen from the “Results” file (see Figure Q-9), the subgrade modulus has been increased from 5.0 ksi to 7.7 ksi when placing the geotextile layer at the bottom of the base course.
Q-6	 **Figure Q-8. Select “Geotextile at the Bottom” and Input Material Properties**	 **Figure Q-8. Select “Geotextile at the Bottom” and Input Material Properties**

Page No.	Original	Corrected
Q-7	 Results.txt - Notepad File Edit Format View Help Unreinforced Pavement Structure 1. Compressive strain at bottom of base:1083.07 2. Average strain in the base:685.97 3. Tensile strain at bottom of HMA surface:410.45 == With Geotextile at the Bottom 1. Compressive strain at bottom of base:390.09 2. Average strain in the base:758.71 3. Tensile strain at bottom of HMA surface:439.61 == Subgrade modulus with unreinforced pavement structure:5.0(ksi) Modified subgrade modulus:14.6(ksi) Base modulus with unreinforced pavement structure:20.0(ksi) Modified base modulus:20.0(ksi) **Figure Q-9. Analysis Results for Example 3**	 Results.txt - Notepad File Edit Format View Help Unreinforced Pavement Structure 1. Compressive strain at bottom of base:991.82 2. Average strain in the base:662.63 3. Tensile strain at bottom of HMA surface:416.53 == With Geotextile at the Bottom 1. Compressive strai[illegible]t bottom of base:508.09 2. Average strain in the base:776.47 3. Tensile strain at bottom of HMA surface:430.38 == Subgrade modulus with unreinforced pavement structure:5.0(ksi) Modified subgrade modulus:7.7(ksi) Base modulus with unreinforced pavement structure:20.0(ksi) Modified base modulus:20.0(ksi) **Figure Q-9. Analysis Results for Example 3**
Q-7	As shown in Figure Q-12, the "Results" file indicates that placing a geotextile layer in the middle of the base course in fact decreases the modulus of the base course from 30.0 ksi to 27.0 ksi.	As shown in Figure Q-12, the "Results" file indicates that placing a geotextile layer in the middle of the base course in fact decreases the modulus of the base course from 40.0 ksi to 26.2 ksi.

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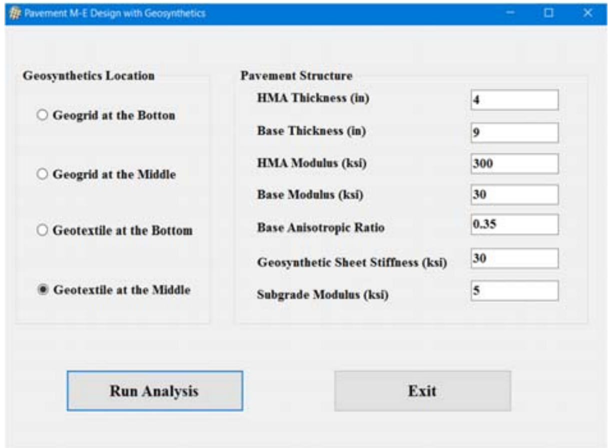

Figure Q-11. Select "Geotextile in the Middle" and Input Material Properties
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Figure Q-11. Select "Geotextile in the Middle" and Input Material Properties
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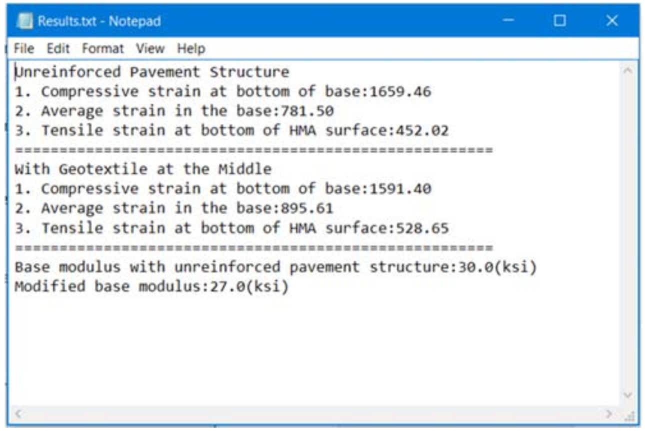

Figure Q-12. Analysis Results for Example 4
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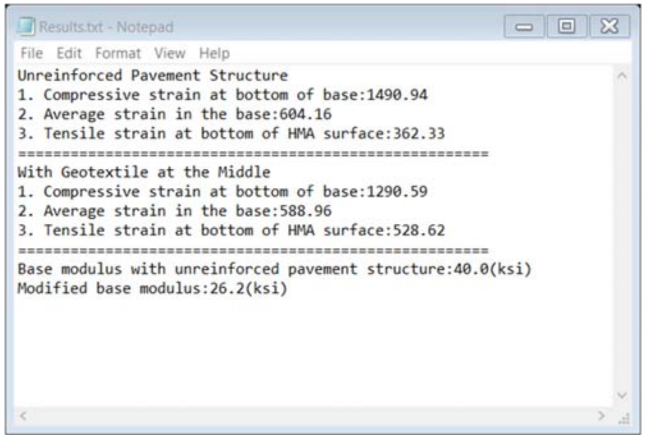

Figure Q-12. Analysis Results for Example 4
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