

## RealCost Input Data

| <b>1. Economic Variables</b>                   |                                          |
|------------------------------------------------|------------------------------------------|
| Value of Time for Passenger Cars (\$/hour)     | \$11.50<br><b>LCCATRIANG(10,11.5,13)</b> |
| Value of Time for Single Unit Trucks (\$/hour) | \$18.50<br><b>LCCATRIANG(17,18.5,20)</b> |
| Value of Time for Combination Trucks (\$/hour) | \$22.50<br><b>LCCATRIANG(21,22.5,24)</b> |

| <b>2. Analysis Options</b>               |                                    |
|------------------------------------------|------------------------------------|
| Include User Costs in Analysis           | Yes                                |
| Include User Cost Remaining Life Value   | Yes                                |
| Use Differential User Costs              | Yes                                |
| User Cost Computation Method             | Calculated                         |
| Include Agency Cost Remaining Life Value | Yes                                |
| Traffic Direction                        | Both                               |
| Analysis Period (Years)                  | 35                                 |
| Beginning of Analysis Period             | 2012                               |
| Discount Rate (%)                        | 0.0<br><b>LCCATRIANG(3%,4%,5%)</b> |
| Number of Alternatives                   | 2                                  |

| <b>3. Project Details</b> |                                                      |
|---------------------------|------------------------------------------------------|
| State Route               | Graham Road                                          |
| Project Name              | Sundial to I-84 Frontage Road                        |
| Region                    | City of Troutdale, Oregon                            |
| County                    | Multnomah County                                     |
| Analyzed By               | Tina Adams, MLG Inc.                                 |
| Mileposts                 |                                                      |
| Begin                     | 0.00                                                 |
| End                       | 1.49                                                 |
| Length of Project (miles) | 1.49                                                 |
| Comments                  | Preliminary Life Cycle for Tiger 2 Grant Application |

| <b>4. Traffic Data</b>                                 |                                     |
|--------------------------------------------------------|-------------------------------------|
| AADT Construction Year (total for both directions)     | 1,824                               |
| Cars as Percentage of AADT (%)                         | 44.0                                |
| Single Unit Trucks as Percentage of AADT (%)           | 31.0                                |
| Combination Trucks as Percentage of AADT (%)           | 25.0                                |
| Annual Growth Rate of Traffic (%)                      | 5.9<br><b>LCCAUNIFORM(1.5,10.3)</b> |
| Speed Limit Under Normal Operating Conditions (mph)    | 35                                  |
| No of Lanes in Each Direction During Normal Conditions | 1                                   |
| Free Flow Capacity (vphpl)                             | 1719                                |
| Rural or Urban Hourly Traffic Distribution             | Urban                               |
| Queue Dissipation Capacity (vphpl)                     | 1719<br><b>LCCANORMAL(1719,144)</b> |
| Maximum AADT (total for both directions)               | 12,689                              |
| Maximum Queue Length (miles)                           | 0.5                                 |

|                             |                                                       |  |
|-----------------------------|-------------------------------------------------------|--|
| <b>Alternative 1</b>        | Reconstruct and Improve Road per Tiger Grant Estimate |  |
| <b>Number of Activities</b> | 5                                                     |  |

|                                                                           |                                                  |     |
|---------------------------------------------------------------------------|--------------------------------------------------|-----|
| <b>Activity 1</b>                                                         | Construction of Road to 40-year ESAL design life |     |
| Agency Construction Cost (\$1000)                                         | \$669.00                                         |     |
|                                                                           | <b>LCCANORMAL(669,66.9)</b>                      |     |
| User Work Zone Costs (\$1000)                                             |                                                  |     |
| Work Zone Duration (days)                                                 | 125                                              |     |
| No of Lanes Open in Each Direction During Work Zone                       | 1                                                |     |
| Activity Service Life (years)                                             | 7.0                                              |     |
| Activity Structural Life (years)                                          | 40.0                                             |     |
| Maintenance Frequency (years)                                             | 0                                                |     |
| Agency Maintenance Cost (\$1000)                                          | 0                                                |     |
| Work Zone Length (miles)                                                  | 1.49                                             |     |
| Work Zone Speed Limit (mph)                                               | 25                                               |     |
| Work Zone Capacity (vphpl)                                                | 700                                              |     |
| Traffic Hourly Distribution                                               | Week Day 1                                       |     |
| Time of Day of Lane Closures (use whole numbers based on a 24-hour clock) |                                                  |     |
| Inbound                                                                   | Start                                            | End |
| First period of lane closure                                              | 9                                                | 15  |
| Second period of lane closure                                             |                                                  |     |
| Third period of lane closure                                              |                                                  |     |
| Outbound                                                                  | Start                                            | End |
| First period of lane closure                                              |                                                  |     |
| Second period of lane closure                                             | 9                                                | 15  |
| Third period of lane closure                                              |                                                  |     |

|                                                                           |                                           |     |
|---------------------------------------------------------------------------|-------------------------------------------|-----|
| <b>Activity 2</b>                                                         | City of Troutdale Slurry Seal Maintenance |     |
| Agency Construction Cost (\$1000)                                         | \$65.00                                   |     |
| User Work Zone Costs (\$1000)                                             |                                           |     |
| Work Zone Duration (days)                                                 | 2                                         |     |
| No of Lanes Open in Each Direction During Work Zone                       | 1                                         |     |
| Activity Service Life (years)                                             | 7.0                                       |     |
|                                                                           | <b>LCCATRIANG(6,7,8)</b>                  |     |
| Activity Structural Life (years)                                          | 1.0                                       |     |
| Maintenance Frequency (years)                                             | 7                                         |     |
| Agency Maintenance Cost (\$1000)                                          |                                           |     |
| Work Zone Length (miles)                                                  | 1.49                                      |     |
| Work Zone Speed Limit (mph)                                               | 25                                        |     |
| Work Zone Capacity (vphpl)                                                | 700                                       |     |
| Traffic Hourly Distribution                                               | Week Day 1                                |     |
| Time of Day of Lane Closures (use whole numbers based on a 24-hour clock) |                                           |     |
| Inbound                                                                   | Start                                     | End |
| First period of lane closure                                              | 0                                         | 24  |
| Second period of lane closure                                             |                                           |     |
| Third period of lane closure                                              |                                           |     |
| Outbound                                                                  | Start                                     | End |
| First period of lane closure                                              |                                           |     |
| Second period of lane closure                                             | 0                                         | 24  |
| Third period of lane closure                                              |                                           |     |

|                                                                           |                                           |     |
|---------------------------------------------------------------------------|-------------------------------------------|-----|
| <b>Activity 3</b>                                                         | City of Troutdale Slurry Seal Maintenance |     |
| Agency Construction Cost (\$1000)                                         | \$65.00                                   |     |
| User Work Zone Costs (\$1000)                                             |                                           |     |
| Work Zone Duration (days)                                                 | 2                                         |     |
| No of Lanes Open in Each Direction During Work Zone                       | 1                                         |     |
| Activity Service Life (years)                                             | 7.0                                       |     |
|                                                                           | <b>LCCATRIANG(6,7,8)</b>                  |     |
| Activity Structural Life (years)                                          | 1.0                                       |     |
| Maintenance Frequency (years)                                             | 7                                         |     |
| Agency Maintenance Cost (\$1000)                                          |                                           |     |
| Work Zone Length (miles)                                                  | 1.49                                      |     |
| Work Zone Speed Limit (mph)                                               | 25                                        |     |
| Work Zone Capacity (vphpl)                                                | 700                                       |     |
| Traffic Hourly Distribution                                               | Week Day 1                                |     |
| Time of Day of Lane Closures (use whole numbers based on a 24-hour clock) |                                           |     |
| Inbound                                                                   | Start                                     | End |
| First period of lane closure                                              | 0                                         | 24  |
| Second period of lane closure                                             |                                           |     |
| Third period of lane closure                                              |                                           |     |
| Outbound                                                                  | Start                                     | End |
| First period of lane closure                                              |                                           |     |
| Second period of lane closure                                             | 0                                         | 24  |
| Third period of lane closure                                              |                                           |     |

|                                                                           |                                           |     |
|---------------------------------------------------------------------------|-------------------------------------------|-----|
| <b>Activity 4</b>                                                         | City of Troutdale Slurry Seal Maintenance |     |
| Agency Construction Cost (\$1000)                                         | \$65.00                                   |     |
| User Work Zone Costs (\$1000)                                             |                                           |     |
| Work Zone Duration (days)                                                 | 2                                         |     |
| No of Lanes Open in Each Direction During Work Zone                       | 1                                         |     |
| Activity Service Life (years)                                             | 7.0                                       |     |
|                                                                           | <b>LCCATRIANG(6,7,8)</b>                  |     |
| Activity Structural Life (years)                                          | 1.0                                       |     |
| Maintenance Frequency (years)                                             | 7                                         |     |
| Agency Maintenance Cost (\$1000)                                          |                                           |     |
| Work Zone Length (miles)                                                  | 1.49                                      |     |
| Work Zone Speed Limit (mph)                                               | 25                                        |     |
| Work Zone Capacity (vphpl)                                                | 700                                       |     |
| Traffic Hourly Distribution                                               | Week Day 1                                |     |
| Time of Day of Lane Closures (use whole numbers based on a 24-hour clock) |                                           |     |
| Inbound                                                                   | Start                                     | End |
| First period of lane closure                                              | 0                                         | 24  |
| Second period of lane closure                                             |                                           |     |
| Third period of lane closure                                              |                                           |     |
| Outbound                                                                  | Start                                     | End |
| First period of lane closure                                              |                                           |     |
| Second period of lane closure                                             | 0                                         | 24  |
| Third period of lane closure                                              |                                           |     |

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|---------------------------------------------------------------------------|--------------------------------------------------|-----|
| <b>Activity 5</b>                                                         | <b>City of Troutdale Slurry Seal Maintenance</b> |     |
| Agency Construction Cost (\$1000)                                         | \$65.00                                          |     |
| User Work Zone Costs (\$1000)                                             |                                                  |     |
| Work Zone Duration (days)                                                 | 2                                                |     |
| No of Lanes Open in Each Direction During Work Zone                       | 1                                                |     |
| Activity Service Life (years)                                             | 7.0                                              |     |
|                                                                           | <b>LCCATRIANG(6,7,8)</b>                         |     |
| Activity Structural Life (years)                                          | 1.0                                              |     |
| Maintenance Frequency (years)                                             | 7                                                |     |
| Agency Maintenance Cost (\$1000)                                          |                                                  |     |
| Work Zone Length (miles)                                                  | 1.49                                             |     |
| Work Zone Speed Limit (mph)                                               | 25                                               |     |
| Work Zone Capacity (vphpl)                                                | 700                                              |     |
| Traffic Hourly Distribution                                               | Week Day 1                                       |     |
| Time of Day of Lane Closures (use whole numbers based on a 24-hour clock) |                                                  |     |
| Inbound                                                                   | Start                                            | End |
| First period of lane closure                                              | 0                                                | 24  |
| Second period of lane closure                                             |                                                  |     |
| Third period of lane closure                                              |                                                  |     |
| Outbound                                                                  | Start                                            | End |
| First period of lane closure                                              |                                                  |     |
| Second period of lane closure                                             | 0                                                | 24  |
| Third period of lane closure                                              |                                                  |     |

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|-----------------------------|-----------------------------------------------------|--|
| <b>Alternative 2</b>        | City Fix Distressed Pavement And Overlay Frequently |  |
| <b>Number of Activities</b> | 9                                                   |  |

|                                                                           |                                                                |     |
|---------------------------------------------------------------------------|----------------------------------------------------------------|-----|
| <b>Activity 1</b>                                                         | Digout and Replace Distressed Pavement at 4" Asphalt on 18" AB |     |
| Agency Construction Cost (\$1000)                                         | \$177.00                                                       |     |
| User Work Zone Costs (\$1000)                                             |                                                                |     |
| Work Zone Duration (days)                                                 | 10                                                             |     |
| No of Lanes Open in Each Direction During Work Zone                       | 1                                                              |     |
| Activity Service Life (years)                                             | 2.0                                                            |     |
|                                                                           | <b>LCCATRIANG(1,2,3)</b>                                       |     |
| Activity Structural Life (years)                                          | 2.0                                                            |     |
| Maintenance Frequency (years)                                             |                                                                |     |
| Agency Maintenance Cost (\$1000)                                          |                                                                |     |
| Work Zone Length (miles)                                                  | 1.49                                                           |     |
| Work Zone Speed Limit (mph)                                               | 25                                                             |     |
| Work Zone Capacity (vphpl)                                                | 700                                                            |     |
| Traffic Hourly Distribution                                               | Week Day 1                                                     |     |
| Time of Day of Lane Closures (use whole numbers based on a 24-hour clock) |                                                                |     |
| Inbound                                                                   | Start                                                          | End |
| First period of lane closure                                              | 8                                                              | 16  |
| Second period of lane closure                                             |                                                                |     |
| Third period of lane closure                                              |                                                                |     |
| Outbound                                                                  | Start                                                          | End |
| First period of lane closure                                              |                                                                |     |
| Second period of lane closure                                             | 8                                                              | 16  |
| Third period of lane closure                                              |                                                                |     |

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|---------------------------------------------------------------------------|--------------------------------------------------|-----|
| <b>Activity 2</b>                                                         | 2" Asphalt Overlay w/ Distresses Pavement Repair |     |
| Agency Construction Cost (\$1000)                                         | \$397.00                                         |     |
| User Work Zone Costs (\$1000)                                             |                                                  |     |
| Work Zone Duration (days)                                                 | 25                                               |     |
| No of Lanes Open in Each Direction During Work Zone                       | 1                                                |     |
| Activity Service Life (years)                                             | 5.0                                              |     |
|                                                                           | <b>LCCATRIANG(4,5,6)</b>                         |     |
| Activity Structural Life (years)                                          | 5.0                                              |     |
| Maintenance Frequency (years)                                             |                                                  |     |
| Agency Maintenance Cost (\$1000)                                          |                                                  |     |
| Work Zone Length (miles)                                                  | 1.49                                             |     |
| Work Zone Speed Limit (mph)                                               | 25                                               |     |
| Work Zone Capacity (vphpl)                                                | 700                                              |     |
| Traffic Hourly Distribution                                               | Week Day 1                                       |     |
| Time of Day of Lane Closures (use whole numbers based on a 24-hour clock) |                                                  |     |
| Inbound                                                                   | Start                                            | End |
| First period of lane closure                                              | 8                                                | 16  |
| Second period of lane closure                                             |                                                  |     |
| Third period of lane closure                                              |                                                  |     |
| Outbound                                                                  | Start                                            | End |
| First period of lane closure                                              |                                                  |     |
| Second period of lane closure                                             | 8                                                | 16  |
| Third period of lane closure                                              |                                                  |     |

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|---------------------------------------------------------------------------|--------------------------------------------------|-----|
| <b>Activity 3</b>                                                         | 2" Asphalt Overlay w/ Distressed Pavement Repair |     |
| Agency Construction Cost (\$1000)                                         | \$350.00                                         |     |
| User Work Zone Costs (\$1000)                                             |                                                  |     |
| Work Zone Duration (days)                                                 | 25                                               |     |
| No of Lanes Open in Each Direction During Work Zone                       | 1                                                |     |
| Activity Service Life (years)                                             | 5.0                                              |     |
|                                                                           | <b>LCCATRIANG(4,5,6)</b>                         |     |
| Activity Structural Life (years)                                          | 5.0                                              |     |
| Maintenance Frequency (years)                                             |                                                  |     |
| Agency Maintenance Cost (\$1000)                                          |                                                  |     |
| Work Zone Length (miles)                                                  | 1.49                                             |     |
| Work Zone Speed Limit (mph)                                               | 25                                               |     |
| Work Zone Capacity (vphpl)                                                | 700                                              |     |
| Traffic Hourly Distribution                                               | Week Day 1                                       |     |
| Time of Day of Lane Closures (use whole numbers based on a 24-hour clock) |                                                  |     |
| Inbound                                                                   | Start                                            | End |
| First period of lane closure                                              | 8                                                | 16  |
| Second period of lane closure                                             |                                                  |     |
| Third period of lane closure                                              |                                                  |     |
| Outbound                                                                  | Start                                            | End |
| First period of lane closure                                              |                                                  |     |
| Second period of lane closure                                             | 8                                                | 16  |
| Third period of lane closure                                              |                                                  |     |

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|---------------------------------------------------------------------------|--------------------------------------------------|-----|
| <b>Activity 4</b>                                                         | 2" Asphalt Overlay w/ Distressed Pavement Repair |     |
| Agency Construction Cost (\$1000)                                         | \$300.00                                         |     |
| User Work Zone Costs (\$1000)                                             |                                                  |     |
| Work Zone Duration (days)                                                 | 25                                               |     |
| No of Lanes Open in Each Direction During Work Zone                       | 1                                                |     |
| Activity Service Life (years)                                             | 5.0                                              |     |
|                                                                           | <b>LCCATRIANG(4,5,6)</b>                         |     |
| Activity Structural Life (years)                                          | 5.0                                              |     |
| Maintenance Frequency (years)                                             |                                                  |     |
| Agency Maintenance Cost (\$1000)                                          |                                                  |     |
| Work Zone Length (miles)                                                  | 1.49                                             |     |
| Work Zone Speed Limit (mph)                                               | 25                                               |     |
| Work Zone Capacity (vphpl)                                                | 700                                              |     |
| Traffic Hourly Distribution                                               | Week Day 1                                       |     |
| Time of Day of Lane Closures (use whole numbers based on a 24-hour clock) |                                                  |     |
| Inbound                                                                   | Start                                            | End |
| First period of lane closure                                              | 8                                                | 16  |
| Second period of lane closure                                             |                                                  |     |
| Third period of lane closure                                              |                                                  |     |
| Outbound                                                                  | Start                                            | End |
| First period of lane closure                                              |                                                  |     |
| Second period of lane closure                                             | 8                                                | 16  |
| Third period of lane closure                                              |                                                  |     |

|                                                                           |                                                  |     |
|---------------------------------------------------------------------------|--------------------------------------------------|-----|
| <b>Activity 5</b>                                                         | 2" Asphalt Overlay w/ Distresses Pavement Repair |     |
| Agency Construction Cost (\$1000)                                         | \$250.00                                         |     |
| User Work Zone Costs (\$1000)                                             |                                                  |     |
| Work Zone Duration (days)                                                 | 15                                               |     |
| No of Lanes Open in Each Direction During Work Zone                       | 1                                                |     |
| Activity Service Life (years)                                             | 7.0                                              |     |
| Activity Structural Life (years)                                          | 10.0                                             |     |
| Maintenance Frequency (years)                                             |                                                  |     |
| Agency Maintenance Cost (\$1000)                                          |                                                  |     |
| Work Zone Length (miles)                                                  | 1.49                                             |     |
| Work Zone Speed Limit (mph)                                               | 25                                               |     |
| Work Zone Capacity (vphpl)                                                | 700                                              |     |
| Traffic Hourly Distribution                                               | Week Day 1                                       |     |
| Time of Day of Lane Closures (use whole numbers based on a 24-hour clock) |                                                  |     |
| Inbound                                                                   | Start                                            | End |
| First period of lane closure                                              | 8                                                | 16  |
| Second period of lane closure                                             |                                                  |     |
| Third period of lane closure                                              |                                                  |     |
| Outbound                                                                  | Start                                            | End |
| First period of lane closure                                              |                                                  |     |
| Second period of lane closure                                             | 8                                                | 16  |
| Third period of lane closure                                              |                                                  |     |

|                                                                           |                                           |     |
|---------------------------------------------------------------------------|-------------------------------------------|-----|
| <b>Activity 6</b>                                                         | City of Troutdale Slurry Seal Maintenance |     |
| Agency Construction Cost (\$1000)                                         | \$65.00                                   |     |
| User Work Zone Costs (\$1000)                                             |                                           |     |
| Work Zone Duration (days)                                                 | 2                                         |     |
| No of Lanes Open in Each Direction During Work Zone                       | 1                                         |     |
| Activity Service Life (years)                                             | 7.0                                       |     |
| Activity Structural Life (years)                                          | 1.0                                       |     |
| Maintenance Frequency (years)                                             | 7                                         |     |
| Agency Maintenance Cost (\$1000)                                          |                                           |     |
| Work Zone Length (miles)                                                  | 1.49                                      |     |
| Work Zone Speed Limit (mph)                                               | 25                                        |     |
| Work Zone Capacity (vphpl)                                                | 700                                       |     |
| Traffic Hourly Distribution                                               | Week Day 1                                |     |
| Time of Day of Lane Closures (use whole numbers based on a 24-hour clock) |                                           |     |
| Inbound                                                                   | Start                                     | End |
| First period of lane closure                                              | 0                                         | 24  |
| Second period of lane closure                                             |                                           |     |
| Third period of lane closure                                              |                                           |     |
| Outbound                                                                  | Start                                     | End |
| First period of lane closure                                              |                                           |     |
| Second period of lane closure                                             | 0                                         | 24  |
| Third period of lane closure                                              |                                           |     |

|                                                                           |                                           |     |
|---------------------------------------------------------------------------|-------------------------------------------|-----|
| <b>Activity 7</b>                                                         | City of Troutdale Slurry Seal Maintenance |     |
| Agency Construction Cost (\$1000)                                         | \$65.00                                   |     |
| User Work Zone Costs (\$1000)                                             |                                           |     |
| Work Zone Duration (days)                                                 | 2                                         |     |
| No of Lanes Open in Each Direction During Work Zone                       | 1                                         |     |
| Activity Service Life (years)                                             | 7.0                                       |     |
| Activity Structural Life (years)                                          | 1.0                                       |     |
| Maintenance Frequency (years)                                             | 7                                         |     |
| Agency Maintenance Cost (\$1000)                                          |                                           |     |
| Work Zone Length (miles)                                                  | 1.49                                      |     |
| Work Zone Speed Limit (mph)                                               | 25                                        |     |
| Work Zone Capacity (vphpl)                                                | 700                                       |     |
| Traffic Hourly Distribution                                               | Week Day 1                                |     |
| Time of Day of Lane Closures (use whole numbers based on a 24-hour clock) |                                           |     |
| Inbound                                                                   | Start                                     | End |
| First period of lane closure                                              | 0                                         | 24  |
| Second period of lane closure                                             |                                           |     |
| Third period of lane closure                                              |                                           |     |
| Outbound                                                                  | Start                                     | End |
| First period of lane closure                                              |                                           |     |
| Second period of lane closure                                             | 0                                         | 24  |
| Third period of lane closure                                              |                                           |     |

|                                                                           |                    |     |
|---------------------------------------------------------------------------|--------------------|-----|
| <b>Activity 8</b>                                                         | 2" Asphalt Overlay |     |
| Agency Construction Cost (\$1000)                                         | \$220.00           |     |
| User Work Zone Costs (\$1000)                                             |                    |     |
| Work Zone Duration (days)                                                 | 15                 |     |
| No of Lanes Open in Each Direction During Work Zone                       | 1                  |     |
| Activity Service Life (years)                                             | 7.0                |     |
| Activity Structural Life (years)                                          | 10.0               |     |
| Maintenance Frequency (years)                                             |                    |     |
| Agency Maintenance Cost (\$1000)                                          |                    |     |
| Work Zone Length (miles)                                                  | 1.49               |     |
| Work Zone Speed Limit (mph)                                               | 25                 |     |
| Work Zone Capacity (vphpl)                                                | 700                |     |
| Traffic Hourly Distribution                                               | Week Day 1         |     |
| Time of Day of Lane Closures (use whole numbers based on a 24-hour clock) |                    |     |
| Inbound                                                                   | Start              | End |
| First period of lane closure                                              | 8                  | 16  |
| Second period of lane closure                                             |                    |     |
| Third period of lane closure                                              |                    |     |
| Outbound                                                                  | Start              | End |
| First period of lane closure                                              |                    |     |
| Second period of lane closure                                             | 8                  | 16  |
| Third period of lane closure                                              |                    |     |

|                                                                           |                                                  |     |
|---------------------------------------------------------------------------|--------------------------------------------------|-----|
| <b>Activity 9</b>                                                         | <b>City of Troutdale Slurry Seal Maintenance</b> |     |
| Agency Construction Cost (\$1000)                                         | \$65.00                                          |     |
| User Work Zone Costs (\$1000)                                             |                                                  |     |
| Work Zone Duration (days)                                                 | 2                                                |     |
| No of Lanes Open in Each Direction During Work Zone                       | 1                                                |     |
| Activity Service Life (years)                                             | 7.0                                              |     |
| Activity Structural Life (years)                                          | 1.0                                              |     |
| Maintenance Frequency (years)                                             | 7                                                |     |
| Agency Maintenance Cost (\$1000)                                          |                                                  |     |
| Work Zone Length (miles)                                                  | 1.49                                             |     |
| Work Zone Speed Limit (mph)                                               | 25                                               |     |
| Work Zone Capacity (vphpl)                                                | 700                                              |     |
| Traffic Hourly Distribution                                               | Week Day 1                                       |     |
| Time of Day of Lane Closures (use whole numbers based on a 24-hour clock) |                                                  |     |
| Inbound                                                                   | Start                                            | End |
| First period of lane closure                                              | 0                                                | 24  |
| Second period of lane closure                                             |                                                  |     |
| Third period of lane closure                                              |                                                  |     |
| Outbound                                                                  | Start                                            | End |
| First period of lane closure                                              |                                                  |     |
| Second period of lane closure                                             | 0                                                | 24  |
| Third period of lane closure                                              |                                                  |     |

Probabilistic Life Cycle Cost Analysis Worksheet

| Update Results                   |                                                             |                    |                                                                    |                    |
|----------------------------------|-------------------------------------------------------------|--------------------|--------------------------------------------------------------------|--------------------|
| Total Cost                       |                                                             |                    |                                                                    |                    |
| Total Cost                       | Alternative 1: Reconstruct and Improve Road per Tiger Grant |                    | Alternative 2: City Fix Distressed Pavement And Overlay Frequently |                    |
|                                  | Agency Cost (\$1000)                                        | User Cost (\$1000) | Agency Cost (\$1000)                                               | User Cost (\$1000) |
| Undiscounted Sum                 | \$845.38                                                    | \$39.51            | \$1,604.00                                                         | \$62.59            |
| Present Value                    | \$844.73                                                    | \$39.43            | \$1,598.15                                                         | \$62.25            |
| EUAC                             | \$24.31                                                     | \$1.13             | \$45.99                                                            | \$1.79             |
| Lowest Present Value Agency Cost | Alternative 1: Reconstruct and Improve Road per Tiger       |                    |                                                                    |                    |
| Lowest Present Value User Cost   | Alternative 1: Reconstruct and Improve Road per Tiger       |                    |                                                                    |                    |

| Expenditure Stream |                                                             |                    |                                                                    |                    |
|--------------------|-------------------------------------------------------------|--------------------|--------------------------------------------------------------------|--------------------|
| Year               | Alternative 1: Reconstruct and Improve Road per Tiger Grant |                    | Alternative 2: City Fix Distressed Pavement And Overlay Frequently |                    |
|                    | Agency Cost (\$1000)                                        | User Cost (\$1000) | Agency Cost (\$1000)                                               | User Cost (\$1000) |
| 2012               | \$669.00                                                    | \$26.89            | \$177.00                                                           | \$3.00             |
| 2013               |                                                             |                    |                                                                    |                    |
| 2014               |                                                             |                    | \$397.00                                                           | \$8.41             |
| 2015               |                                                             |                    |                                                                    |                    |
| 2016               |                                                             |                    |                                                                    |                    |
| 2017               |                                                             |                    |                                                                    |                    |
| 2018               |                                                             |                    |                                                                    |                    |
| 2019               | \$65.00                                                     | \$1.98             | \$350.00                                                           | \$11.21            |
| 2020               |                                                             |                    |                                                                    |                    |
| 2021               |                                                             |                    |                                                                    |                    |
| 2022               |                                                             |                    |                                                                    |                    |
| 2023               |                                                             |                    |                                                                    |                    |
| 2024               |                                                             |                    | \$300.00                                                           | \$14.93            |
| 2025               |                                                             |                    |                                                                    |                    |
| 2026               | \$65.00                                                     | \$2.96             |                                                                    |                    |
| 2027               |                                                             |                    |                                                                    |                    |
| 2028               |                                                             |                    |                                                                    |                    |
| 2029               |                                                             |                    | \$250.00                                                           | \$11.93            |
| 2030               |                                                             |                    |                                                                    |                    |
| 2031               |                                                             |                    |                                                                    |                    |
| 2032               |                                                             |                    |                                                                    |                    |
| 2033               | \$65.00                                                     | \$4.43             |                                                                    |                    |
| 2034               |                                                             |                    |                                                                    |                    |
| 2035               |                                                             |                    |                                                                    |                    |
| 2036               |                                                             |                    | \$65.00                                                            | \$5.26             |
| 2037               |                                                             |                    |                                                                    |                    |
| 2038               |                                                             |                    |                                                                    |                    |
| 2039               |                                                             |                    |                                                                    |                    |
| 2040               | \$65.00                                                     | \$6.61             |                                                                    |                    |
| 2041               |                                                             |                    |                                                                    |                    |
| 2042               |                                                             |                    |                                                                    |                    |
| 2043               |                                                             |                    | \$65.00                                                            | \$7.85             |
| 2044               |                                                             |                    |                                                                    |                    |
| 2045               |                                                             |                    |                                                                    |                    |
| 2046               |                                                             |                    |                                                                    |                    |
| 2047               | (\$83.63)                                                   | (\$3.36)           |                                                                    |                    |

