

## **EAST COCALICO TOWNSHIP IMPACT FEE ADVISORY COMMITTEE**

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### **RESOLUTION NO. 2013-02**

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#### **A RESOLUTION OF THE EAST COCALICO TOWNSHIP IMPACT FEE ADVISORY COMMITTEE RECOMMENDING AMENDMENTS TO THE TRANSPORTATION CAPITAL IMPROVEMENTS PLAN.**

WHEREAS, by Act 209 of 1990, which amended the Pennsylvania Municipalities Planning Code (“MPC”) to include Article V-A, Municipal Capital Improvement, the General Assembly provided specific statutory authority for municipalities to impose transportation impact fees; and

WHEREAS, the General Assembly has amended MPC Article V-A from time to time; and

WHEREAS, in accordance with the authority granted by Act 209, as amended, and following the procedures set forth in Act 209, as amended, the Board of Supervisors of this Township appointed the East Cocalico Township Transportation Impact Fee Advisory Committee (the “Advisory Committee”), which Advisory Committee undertook the actions required by the MPC to enable the Board of Supervisors to enact an ordinance imposing transportation impact fees including, but not limited to, the adoption of the Land Use Assumptions Report, the adoption of a Transportation Capital Improvements Plan, and the adoption of a Transportation Capital Improvements Plan; and

WHEREAS, the Advisory Committee and the Board of Supervisors took all actions required by Act 209 and the Board of Supervisors enacted Ordinance No. 2011-1, the East Cocalico Township Impact Fee Ordinance, codified as Chapter 203, Transportation Impact Fees, of the Code of Ordinances on April 6, 2011; and

WHEREAS, as authorized by Act 209, the Advisory Committee has worked with the Township Transportation Engineer, Rettew Associates, Inc., to prepare an update to the Transportation Capital Improvements Plan; and

WHEREAS, the Advisory Committee has reviewed the amendments to the Transportation Capital Improvements Plan and desires to authorize transmission of the proposed amendments to the Transportation Capital Improvements Plan set forth in this Resolution to the Board of Supervisors in accordance with MPC Section 504-A(e)(3).

NOW, THEREFORE, BE AND IT IS HEREBY RESOLVED by the East Cocalico Township Impact Fee Advisory Committee as follows:

Section 1. The foregoing background recitals are incorporated herein and constitute part of this Resolution.

Section 2. The Advisory Committee recommends that the East Cocalico Township Transportation Capital Improvements Plan, as adopted by the Board of Supervisors by Resolution No. 2011-5 on March 16, 2011, shall be amended as follows:

- A. Within Table 1, East Cocalico Impact Fee Ordinance Capital Improvement Plan Project Summary, delete the existing information relating to Project Code I07 and insert the information relating to Project Code I07 attached hereto as Exhibit "A" and incorporated herein.
- B. Delete the existing information for Project Code I07 in the detailed description of Projects and insert the revised detailed description of Project I07 attached hereto as Exhibit "B" and incorporated herein.

Section 3. The East Cocalico Township Impact Fee Advisory Committee hereby authorizes transmission of the Amendments to the Transportation Capital Improvements Plan to the Board of Supervisors of the Township of East Cocalico, Lancaster County, Pennsylvania.

Section 4. In the event any provision, section, sentence, clause, or part of this Resolution shall be held to be invalid, illegal, or unconstitutional by a court of competent jurisdiction, such invalidity, illegality, or unconstitutionality shall not affect or impair the remaining provisions, sections, sentences, clauses, or parts of this Resolution, it being the intent of the Advisory Committee that the remainder of the Resolution shall be and shall remain in full force and effect.

Section 5. This Resolution shall take effect and be in force immediately.

DULY ADOPTED this \_\_\_\_\_ day of \_\_\_\_\_, 2013, by the East Cocalico Township Impact Fee Advisory Committee, in lawful session duly assembled.

EAST COCALICO TOWNSHIP IMPACT  
FEE ADVISORY COMMITTEE

Attest: \_\_\_\_\_

By: \_\_\_\_\_  
(Vice) Chairman Jamie L. Sweigart

# EXHIBIT "A"

## EAST COCALICO TOWNSHIP IMPACT FEE ORDINANCE CAPITAL IMPROVEMENT PLAN PROJECTS SUMMARY

Table 1

| Map Number | Project Code | Intersection or Roadway Segment  | Improvement Project Description  | Construction Year | Total Project Cost (dollars) | State/ Federal Funding (dollars) | Other Funding (dollars) | Western District Impact Fee (dollars) | Eastern District Impact Fee (dollars) | Southern District Impact Fee (dollars) |
|------------|--------------|--|--|-------------------|------------------------------|----------------------------------|-------------------------|---------------------------------------|---------------------------------------|--|
| -          | S01          | Denver Road Bridge (T-901)   | Widen to 12'lanes with 6'shoulders (upgrade to community collector)  | 2014              | \$1,394,458.10               | \$0.00                           | \$0.00                  | \$1,394,458.10                        | \$0.00                                | \$0.00                                 |
| -          | I03          | Church Street (SR 1051)& Reamstown Road (T-700)                              | Install a traffic signal.  | 2024              | \$556,237.16                 | \$0.00                           | \$183,558.26            | \$0.00                                | \$0.00                                | \$372,678.90                           |
| 1          | I04A         | Church Street (SR 1051)&Route 272  | Construct a westbound left turn lane and right turn lane, remove/install two signal poles, curb                              | 2019              | \$859,521.90                 | \$0.00                           | \$429,760.95            | \$0.00                                | \$0.00                                | \$429,760.95                           |
| 1          | I04B         | Church Street (SR 1051)&Route 272  | Construct a Eastbound left turn lane and right turn lane, remove/install two signal poles, curb                              | 2019              | \$797,319.67                 | \$0.00                           | \$398,659.83            | \$398,659.83                          | \$0.00                                | \$0.00                                 |
| -          | S05          | Route 897, west of Route 272   | Widen to 12'lanes with 6'shoulders.  | 2034              | \$3,419,553.76               | \$3,419,553.76                   | \$0.00                  | \$0.00                                | \$0.00                                | \$0.00                                 |
| -          | I06          | Colonel George Howard Boulevard (SR 1040)& Leshar Road (T-949)               | Project not feasible- Will interfere with future interchange projects  | 2034              | \$0.00                       | \$0.00                           | \$0.00                  | \$0.00                                | \$0.00                                | \$0.00                                 |
| -          | I07          | Colonel George Howard Boulevard (SR 1040)& Route 222 southbound Ramps        | Construct a clover-leafinterchange.  | 2027              | \$8,332,895.74               | \$8,332,895.74                   | \$0.00                  | \$0.00                                | \$0.00                                | \$0.00                                 |
| -          | I08          | Colonel George Howard Boulevard (SR 1040)& Route 222 northbound Ramps        | Construct a clover-leafinterchange.  | 2027              | \$8,332,895.74               | \$8,332,895.74                   | \$0.00                  | \$0.00                                | \$0.00                                | \$0.00                                 |
| 2          | I09A         | Colonel George Howard Boulevard (SR 1040)& Pepperidge Farm Boulevard (T-902) | Construct a 2nd northbound left turn lane(Left-Left-Thru-Right configuration).   | 2019              | \$188,954.04                 | \$0.00                           | \$188,954.04            | \$0.00                                | \$0.00                                | \$0.00                                 |
| 2          | I09B         | Colonel George Howard Boulevard (SR 1040)& Pepperidge Farm Boulevard (T-902) | I09B Deleted- Work roled into I09A "Construct a northbound right turn lane."   | 2034              | \$0.00                       | \$0.00                           | \$0.00                  | \$0.00                                | \$0.00                                | \$0.00                                 |
| 2          | I09C         | Colonel George Howard Boulevard (SR 1040)& Pepperidge Farm Boulevard (T-902) | Construct dual southbound left turn lanes. Maintain existing SB RTLane and Thru lane.  | 2019              | \$551,868.90                 | \$0.00                           | \$551,868.90            | \$0.00                                | \$0.00                                | \$0.00                                 |
| 2          | I09D         | Colonel George Howard Boulevard (SR 1040)& Pepperidge Farm Boulevard (T-902) | I09D Deleted- Work roled into I09C "Construct a southbound right turn lane."   | 2034              | \$0.00                       | \$0.00                           | \$0.00                  | \$0.00                                | \$0.00                                | \$0.00                                 |
| -          | I10          | Colonel George Howard Boulevard (SR 1040)& Reamstown Road (T-700)            | Install a traffic signal.  | 2027              | \$440,885.66                 | \$145,492.27                     | \$0.00                  | \$0.00                                | \$221,545.05                          | \$73,848.35                            |
| 3          | I11A         | Colonel George Howard Boulevard (SR 1040)/ Denver Road (T-901) & Route 272   | Construct a 2nd westbound left turn lane on Col Howard Blvd.   | 2027              | \$401,463.59                 | \$401,463.59                     | \$0.00                  | \$0.00                                | \$0.00                                | \$0.00                                 |
| 3          | I11B         | Colonel George Howard Boulevard (SR 1040)/ Denver Road (T-901) & Route 272   | Prohibit left turns and thru movements exiting the eastbound approach. Project I30 is required prerequisite or concurrently. | 2034              | \$771,052.41                 | \$385,526.21                     | \$0.00                  | \$3,855.26                            | \$377,815.68                          | \$3,855.26                             |
| 3          | I11C         | Colonel George Howard Boulevard (SR 1040)/ Denver Road (T-901)& Route 272    | Construct a 2nd northbound right turn lane.  | 2029              | \$130,352.11                 | \$65,176.06                      | \$0.00                  | \$651.76                              | \$63,872.53                           | \$651.76                               |
| 3          | I11D         | Colonel George Howard Boulevard (SR 1040)/ Denver Road (T-901)& Route 272    | Construct a 2nd westbound right turn lane.   | 2029              | \$153,610.63                 | \$76,805.31                      | \$0.00                  | \$768.05                              | \$75,269.21                           | \$768.05                               |
| -          | I13          | Route 272 & Hill Road (T-846)  | Install a traffic signal.  | 2016              | \$293,762.52                 | \$0.00                           | \$96,941.63             | \$131,869.99                          | \$64,950.89                           | \$0.00                                 |

# EXHIBIT "A" - continued

## EAST COCALICO TOWNSHIP IMPACT FEE ORDINANCE CAPITAL IMPROVEMENT PLAN PROJECTS SUMMARY

Table 1

| Map Number | Project Code | Intersection or Roadway Segment   | Improvement Project Description   | Construction Year | Total Project Cost (dollars) | State/ Federal Funding (dollars) | Other Funding (dollars) | Western District Impact Fee (dollars) | Eastern District Impact Fee (dollars) | Southern District Impact Fee (dollars) |
|------------|--------------|---|---|-------------------|------------------------------|----------------------------------|-------------------------|---------------------------------------|---------------------------------------|--|
| -          | I14          | Route 272 & Muddy Creek Road (T-816)  | Install a traffic signal.   | 2017              | \$406,410.65                 | \$0.00                           | \$406,410.65            | \$0.00                                | \$0.00                                | \$0.00                                 |
| -          | I15A         | Route 272 & Route 897   | Construct a 2nd northbound left turn lane on SR 272   | 2034              | \$642,663.03                 | \$642,663.03                     | \$0.00                  | \$0.00                                | \$0.00                                | \$0.00                                 |
| -          | I15B         | Route 272 & Route 897   | Construct a 2nd westbound left turn lane on SR 897.   | 2034              | \$385,583.70                 | \$385,583.70                     | \$0.00                  | \$0.00                                | \$0.00                                | \$0.00                                 |
| -          | I15C         | Route 272 & Route 897   | Construct an eastbound right turn lane on SR 897.   | 2034              | \$277,117.93                 | \$277,117.93                     | \$0.00                  | \$0.00                                | \$0.00                                | \$0.00                                 |
| 4          | I18          | Route 272 & Pepperidge Farm Driveway  | Realign and Signalize with Route 272 & Hill Road (T-846).   | 2029              | \$1,621,883.32               | \$0.00                           | \$0.00                  | \$0.00                                | \$1,621,883.32                        | \$0.00                                 |
| 5          | I22          | Muddy Creek Road (SR 1059) & Trost Road (T-953)   | Project Deleted. Not feasible-PENNDOT will not permit installation of All-Way Stop Control  | 2034              | \$0.00                       | \$0.00                           | \$0.00                  | \$0.00                                | \$0.00                                | \$0.00                                 |
| 2          | S22          | Colonel George Howard Boulevard (SR 1040)   | Construct additional 3rd thru lanes (triple thru in each direction between Route 272 and the first Route 222 ramp). Tie into SR 222 Interchange work (I07 and I08). | 2027              | \$4,645,885.90               | \$3,716,708.72                   | \$0.00                  | \$0.00                                | \$380,962.64                          | \$548,214.54                           |
| -          | I23          | Muddy Creek Road (SR 1059) & Stone Hill Road (T-862)  | Install all-way stop control.   | 2034              | \$3,044.63                   | \$1,522.31                       | \$0.00                  | \$0.00                                | \$1,522.31                            | \$0.00                                 |
| -          | S24          | Route 897, east of Route 272  | Construct additional thru lanes.  | 2034              | \$8,721,472.13               | \$8,721,472.13                   | \$0.00                  | \$0.00                                | \$0.00                                | \$0.00                                 |
| -          | I25          | Stevens Road (SR 1045) & Wabash Road (T-669)/ Indiantown Road (West Cocalico Township)                        | Install a traffic signal.   | 2024              | \$526,229.06                 | \$0.00                           | \$526,229.06            | \$0.00                                | \$0.00                                | \$0.00                                 |
| -          | I26          | Stevens Road (SR 1045)/Line Road (SR 1045) & Sevens Road (SR 1030)/south Main Street (West Cocalico Township) | Install a traffic signal.   | 2024              | \$526,229.06                 | \$0.00                           | \$526,229.06            | \$0.00                                | \$0.00                                | \$0.00                                 |
| -          | S26          | Route 272, south of Colonel George Howard Boulevard (SR 1040)   | Construct additional thru lanes.  | 2034              | \$25,507,861.27              | \$25,507,861.27                  | \$0.00                  | \$0.00                                | \$0.00                                | \$0.00                                 |
| -          | S26          | Route 272, south of Colonel George Howard Boulevard (SR 1040)   | Construct additional thru lanes.  | 0                 | \$0.00                       | \$0.00                           | \$0.00                  | \$0.00                                | \$0.00                                | \$0.00                                 |
| -          | S27          | Route 272, north of Colonel George Howard Boulevard (SR 1040)   | Construct additional thru lanes.  | 2034              | \$9,365,814.08               | \$9,365,814.08                   | \$0.00                  | \$0.00                                | \$0.00                                | \$0.00                                 |
| -          | S27          | Route 272, north of Colonel George Howard Boulevard (SR 1040)   | Construct additional thru lanes.  | 0                 | \$0.00                       | \$0.00                           | \$0.00                  | \$0.00                                | \$0.00                                | \$0.00                                 |
| -          | S28          | Church Street (SR 1051), between Route 272 & Red Run Road (SR 1044)   | Widen to 11'lanes with 4'shoulders.   | 2034              | \$1,042,602.54               | \$1,042,602.54                   | \$0.00                  | \$0.00                                | \$0.00                                | \$0.00                                 |
| -          | S29          | Church Street (SR 1051), between Red Run Road (SR 1044) & Napierville   | Widen to 12'lanes with 4'shoulders.   | 2034              | \$849,743.50                 | \$849,743.50                     | \$0.00                  | \$0.00                                | \$0.00                                | \$0.00                                 |

# EXHIBIT "A" - continued

## EAST COCALICO TOWNSHIP IMPACT FEE ORDINANCE CAPITAL IMPROVEMENT PLAN PROJECTS SUMMARY

Table 1

| Map Number  | Project Code | Intersection or Roadway Segment | Improvement Project Description   | Construction Year | Total Project Cost (dollars)    | State/ Federal Funding (dollars) | Other Funding (dollars) | Western District Impact Fee (dollars) | Eastern District Impact Fee (dollars) | Southern District Impact Fee (dollars) |
|---|--------------|---------------------------------|---|-------------------|---------------------------------|----------------------------------|-------------------------|---------------------------------------|---------------------------------------|--|
| 6   | I30          | Route 272 & Denver Road (T-90)  | Construct a new eastbound approach with dual left turn lanes and a shared right turn lane. Install a traffic signal. Construct a northbound left turn lane. | 2034              | \$0.00                          | \$0.00                           | \$0.00                  | \$0.00                                | \$0.00                                | \$0.00                                 |
| <b>Legend</b><br><div>2010 Existing Mitigation</div> <div>2034 Base Mitigation</div> <div>Selected Project</div> <div>Candidate Project</div> <div>Developer Project</div> <div>PennDOT Project</div> |              |                                 | Subtotal 2010 Existing  |                   | \$406,411                       | \$0                              | \$406,411               | \$0                                   | \$0                                   | \$0                                    |
|   |              |                                 | Subtotal 2034 Base  |                   | \$1,052,458                     | \$0                              | \$1,052,458             | \$0                                   | \$0                                   | \$0                                    |
|   |              |                                 | Subtotal Developer Projects   |                   | \$740,823                       | \$0                              | \$740,823               | \$0                                   | \$0                                   | \$0                                    |
|   |              |                                 | Subtotal PennDOT Project  |                   | \$67,279,667                    | \$67,279,667                     | \$0                     | \$0                                   | \$0                                   | \$0                                    |
|   |              |                                 | Subtotal 2034 Projected   |                   | \$12,074,425                    | \$4,391,231                      | \$1,515,331             | \$1,930,263                           | \$2,807,822                           | \$1,429,778                            |
|   |              |                                 | Consultant  |                   | \$79,100                        | -                                | -                       | \$1,230.73                            | \$2,704.29                            | \$1,249.65                             |
|   |              |                                 | Subtotal  |                   |                                 |                                  |                         | \$1,931,494                           | \$2,810,526                           | \$1,431,027                            |
|   |              |                                 | 15 Percent Contingency  |                   |                                 |                                  |                         | \$289,724                             | \$421,579                             | \$214,654                              |
|   |              |                                 | Total Fee   |                   |                                 |                                  |                         | \$2,221,218                           | \$3,232,105                           | \$1,645,682                            |
|   |              |                                 | Total of New Trip Ends  |                   |                                 |                                  |                         | 940                                   | 2,073                                 | 956                                    |
|   |              |                                 | Trips At Existing \$1,000 Fee (Approved but not constructed)  |                   |                                 |                                  |                         | 0                                     | 0                                     | 0                                      |
|   |              |                                 | Adjusted Total Fee  |                   |                                 |                                  |                         | \$2,221,218                           | \$3,232,105                           | \$1,645,682                            |
|   |              |                                 |   |                   | Adjusted Total of New Trip Ends |                                  |                         | 940                                   | 2,073                                 | 956                                    |
|   |              |                                 |   |                   | Calculated Fee Per Trip         |                                  |                         | \$2,363                               | \$1,559                               | \$1,721                                |

Revised 6/14/2013

**Current Fee by Ordinance** **\$1,512** **\$1,507** **\$1,510**

## EXHIBIT "B"

PROJECT CODE: I13

TRANSPORTATION DISTRICT:

Eastern/Western District

**LOCATION:**

Route 272 & Hill Road (T-846)

**DEFICIENCY:**

The current intersection is deficient with 2010 existing traffic volumes.

**PROPOSED IMPROVEMENTS:**

Install a traffic signal.

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |                  |
|--------------------|------------------|
| Construction       | 187,500          |
| Utility Relocation | 0                |
| Right-of-Way       | 0                |
| Engineering        | 21,563           |
| Inspection         | 15,000           |
| Admin & Planning   | 2,813            |
| <b>TOTAL</b>       | <b>\$226,875</b> |

**CONSTRUCTION YEAR AND PROJECTED COST:**

Construction Year

2016

Inflation Rate: 3.76%

Projected Construction Cost

\$293,763

**PROPOSED FUNDING:**

|               |     |           |
|---------------|-----|-----------|
| State/Federal | 0%  | \$0       |
| Other         | 33% | \$96,942  |
| Impact Fees   | 67% | \$196,821 |

**PROJECT SCHEDULE:**

|                     | Year |
|---------------------|------|
| Secure Funding      | 2014 |
| Acquire ROW         | 2015 |
| Compete Engineering | 2015 |
| Begin Construction  | 2016 |

**TRANSPORTATION DISTRICT COST:**

|                   |     |           |
|-------------------|-----|-----------|
| Western District  | 67% | \$131,870 |
| Eastern District  | 33% | \$64,951  |
| Southern District | 0%  | \$0       |

**REMARKS:**

# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

| Project Number                         | I13          | Done By: BDE             |          | Checked: MJR              |              |
|--|--------------|--------------------------|----------|---------------------------|--------------|
| Description                            | Cost         | Unit                     | Quantity | Total                     |              |
| Construction Items                     |              |                          |          |                           |              |
| Traffic Signals                        |              |                          |          |                           |              |
| New Signal (4-way)                     | \$200,000.00 | Each                     | 0        | \$0.00                    |              |
| New Signal (3-way)                     | \$150,000.00 | Each                     | 1        | \$150,000.00              |              |
| Signal Modifications                   | \$20,000.00  | Each                     | 0        | \$0.00                    |              |
| Emergency Vehicle Preemption Only      | \$10,000.00  | Each                     | 0        | \$0.00                    |              |
| Pavement                               |              |                          |          |                           |              |
| 1.5" Pavement Overlay and Milling      | \$7.00       | Square Yard              | 0        | \$0.00                    |              |
| New Pavement - Arterial Roads          | \$46.00      | Square Yard              | 0        | \$0.00                    |              |
| New Pavement - Collector Roads         | \$40.00      | Square Yard              | 0        | \$0.00                    |              |
| New Pavement - Local Commercial Roads  | \$34.00      | Square Yard              | 0        | \$0.00                    |              |
| New Pavement - Local Residential Roads | \$29.00      | Square Yard              | 0        | \$0.00                    |              |
| 4" PBD                                 | \$7.25       | Linear Foot              | 0        | \$0.00                    |              |
| Excavation                             |              |                          |          |                           |              |
| Excavation (Borrow)                    | \$12.00      | Cubic Yard               | 0        | \$0.00                    |              |
| Drainage                               |              |                          |          |                           |              |
| Inlet/Manhole                          | \$2,400.00   | Each                     | 0        | \$0.00                    |              |
| Pipe and Trenching                     | \$55.00      | Linear Foot              | 0        | \$0.00                    |              |
| Culvert                                | \$700.00     | Linear Foot              | 0        | \$0.00                    |              |
| Pavement Markings                      |              |                          |          |                           |              |
| 4" Pavement Markings                   | \$2.00       | Linear Foot              | 0        | \$0.00                    |              |
| 8" Pavement Markings                   | \$8.00       | Linear Foot              | 0        | \$0.00                    |              |
| Miscellaneous                          |              |                          |          |                           |              |
| Guide Rail                             | \$18.00      | Linear Foot              | 0        | \$0.00                    |              |
| Concrete Curb                          | \$35.00      | Linear Foot              | 0        | \$0.00                    |              |
| Bituminous Wedge Curb                  | \$7.00       | Linear Foot              | 0        | \$0.00                    |              |
| Other Miscellaneous                    |              |                          |          |                           |              |
| Post Mounted Signs                     | \$200.00     | Each                     | 0        | \$0.00                    |              |
| Other                                  |              |                          |          | \$0.00                    |              |
|  |              |                          |          | Construction Subtotal:    | \$150,000.00 |
| Mobilization                           | 5.0%         | Of Construction Total    |          | \$7,500.00                |              |
| Maintenance and Protection of Traffic  | 5.0%         | Of Construction Total    |          | \$7,500.00                |              |
| Contingency                            | 15.0%        | Of Construction Total    |          | \$22,500.00               |              |
|  |              |                          |          | Total Construction:       | \$187,500.00 |
| Utility Relocation                     |              |                          |          |                           |              |
| Utility Pole Relocation                | \$3,300.00   | Each                     | 0        | \$0.00                    |              |
| Electric Service                       | \$2,000.00   | Each                     | 0        | \$0.00                    |              |
| Water/ Gas Valves                      | \$250.00     | Each                     | 0        | \$0.00                    |              |
| Fire Hydrant Relocation                | \$1,000.00   | Each                     | 0        | \$0.00                    |              |
| High Tension Electric Poles            | \$130,000.00 | Each                     | 0        | \$0.00                    |              |
| Sanitary Manhole                       | \$2,400.00   | Each                     | 0        | \$0.00                    |              |
| Other                                  | \$5,000.00   | Project                  | 0        | \$0.00                    |              |
|  |              |                          |          | Utility Subtotal:         | \$0.00       |
| Contingency                            | 15.0%        | Of Utility Subtotal      |          | \$0.00                    |              |
|  |              |                          |          | Total Utility Relocation: | \$0.00       |
| Right-of-Way                           |              |                          |          |                           |              |
| Right-of-Way - Urban                   | \$150,000.00 | Acres                    | 0        | \$0.00                    |              |
| Right-of-Way - Rural                   | \$120,000.00 | Acres                    | 0        | \$0.00                    |              |
| Construction Easement (75% of ROW)     |              | Acres                    | 0        | \$0.00                    |              |
| Structures                             | \$180,000.00 | Each                     | 0        | \$0.00                    |              |
|  |              |                          |          | Right-of-Way Subtotal:    | \$0.00       |
| Contingency                            | 15.0%        | Of Right-of-Way Subtotal |          | \$0.00                    |              |
|  |              |                          |          | Total Right-of-Way:       | \$0.00       |
| Engineering                            | 11.5%        | Of Construction Total    |          | \$21,562.50               |              |
| Construction Inspection                | 8.0%         | Of Construction Total    |          | \$15,000.00               |              |
| Administration and Planning            | 1.5%         | Of Construction Total    |          | \$2,812.50                |              |
|  |              |                          |          | Total Project Cost:       | \$226,875.00 |

## EXHIBIT "B" - continued

PROJECT CODE: 114

TRANSPORTATION DISTRICT: Eastern/Western District

**LOCATION:**

Route 272 & Muddy Creek Road (T-816)

**DEFICIENCY:**

The current intersection is deficient with 2010 existing traffic volumes.

**PROPOSED IMPROVEMENTS:**

Install a traffic signal.

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |           |
|--------------------|-----------|
| Construction       | 250,000   |
| Utility Relocation | 0         |
| Right-of-Way       | 0         |
| Engineering        | 28,750    |
| Inspection         | 20,000    |
| Admin & Planning   | 3,750     |
| TOTAL              | \$302,500 |

**CONSTRUCTION YEAR AND PROJECTED COST:**

|                             |           |                       |
|-----------------------------|-----------|-----------------------|
| Construction Year           | 2017      | Inflation Rate: 3.76% |
| Projected Construction Cost | \$406,411 |                       |

**PROPOSED FUNDING:**

|               |        |           |
|---------------|--------|-----------|
| State/Federal | 0%     | \$0       |
| Other         | 100.0% | \$406,411 |
| Impact Fees   | 0.0%   | \$0       |

**PROJECT SCHEDULE:**

|                      | Year |
|----------------------|------|
| Secure Funding       | 2015 |
| Acquire ROW          | 2016 |
| Complete Engineering | 2016 |
| Begin Construction   | 2017 |

**TRANSPORTATION DISTRICT COST:**

|                   |       |     |
|-------------------|-------|-----|
| Western District  | 62.5% | \$0 |
| Eastern District  | 37.5% | \$0 |
| Southern District | 0.0%  | \$0 |

**REMARKS:**



# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

| Project Number                         |  | I14   | Done By: BDE             |             | Checked: MJR |              |
|--|--|-------|--------------------------|-------------|--------------|--------------|
| Description                            |  |       | Cost                     | Unit        | Quantity     | Total        |
| Construction Items                     |  |       |                          |             |              |              |
| Traffic Signals                        |  |       |                          |             |              |              |
| New Signal (4-way)                     |  |       | \$200,000.00             | Each        | 1            | \$200,000.00 |
| New Signal (3-way)                     |  |       | \$150,000.00             | Each        | 0            | \$0.00       |
| Signal Modifications                   |  |       | \$20,000.00              | Each        | 0            | \$0.00       |
| Emergency Vehicle Preemption Only      |  |       | \$10,000.00              | Each        | 0            | \$0.00       |
| Pavement                               |  |       |                          |             |              |              |
| 1.5" Pavement Overlay and Milling      |  |       | \$7.00                   | Square Yard | 0            | \$0.00       |
| New Pavement - Arterial Roads          |  |       | \$46.00                  | Square Yard | 0            | \$0.00       |
| New Pavement - Collector Roads         |  |       | \$40.00                  | Square Yard | 0            | \$0.00       |
| New Pavement - Local Commercial Roads  |  |       | \$34.00                  | Square Yard | 0            | \$0.00       |
| New Pavement - Local Residential Roads |  |       | \$29.00                  | Square Yard | 0            | \$0.00       |
| 4" PBD                                 |  |       | \$7.25                   | Linear Foot | 0            | \$0.00       |
| Excavation                             |  |       |                          |             |              |              |
| Excavation (Borrow)                    |  |       | \$12.00                  | Cubic Yard  | 0            | \$0.00       |
| Drainage                               |  |       |                          |             |              |              |
| Inlet/Manhole                          |  |       | \$2,400.00               | Each        | 0            | \$0.00       |
| Pipe and Trenching                     |  |       | \$55.00                  | Linear Foot | 0            | \$0.00       |
| Culvert                                |  |       | \$700.00                 | Linear Foot | 0            | \$0.00       |
| Pavement Markings                      |  |       |                          |             |              |              |
| 4" Pavement Markings                   |  |       | \$2.00                   | Linear Foot | 0            | \$0.00       |
| 8" Pavement Markings                   |  |       | \$8.00                   | Linear Foot | 0            | \$0.00       |
| Miscellaneous                          |  |       |                          |             |              |              |
| Guide Rail                             |  |       | \$18.00                  | Linear Foot | 0            | \$0.00       |
| Concrete Curb                          |  |       | \$35.00                  | Linear Foot | 0            | \$0.00       |
| Bituminous Wedge Curb                  |  |       | \$7.00                   | Linear Foot | 0            | \$0.00       |
| Other Miscellaneous                    |  |       |                          |             |              |              |
| Post Mounted Signs                     |  |       | \$200.00                 | Each        | 0            | \$0.00       |
| Other                                  |  |       |                          |             |              | \$0.00       |
| Construction Subtotal:                 |  |       |                          |             |              | \$200,000.00 |
| Mobilization                           |  | 5.0%  | Of Construction Total    |             | \$10,000.00  |              |
| Maintenance and Protection of Traffic  |  | 5.0%  | Of Construction Total    |             | \$10,000.00  |              |
| Contingency                            |  | 15.0% | Of Construction Total    |             | \$30,000.00  |              |
| Total Construction:                    |  |       |                          |             |              | \$250,000.00 |
| Utility Relocation                     |  |       |                          |             |              |              |
| Utility Pole Relocation                |  |       | \$3,300.00               | Each        | 0            | \$0.00       |
| Electric Service                       |  |       | \$2,000.00               | Each        | 0            | \$0.00       |
| Water/ Gas Valves                      |  |       | \$250.00                 | Each        | 0            | \$0.00       |
| Fire Hydrant Relocation                |  |       | \$1,000.00               | Each        | 0            | \$0.00       |
| High Tension Electric Poles            |  |       | \$130,000.00             | Each        | 0            | \$0.00       |
| Sanitary Manhole                       |  |       | \$2,400.00               | Each        | 0            | \$0.00       |
| Other                                  |  |       | \$5,000.00               | Project     | 0            | \$0.00       |
| Utility Subtotal:                      |  |       |                          |             |              | \$0.00       |
| Contingency                            |  | 15.0% | Of Utility Subtotal      |             | \$0.00       |              |
| Total Utility Relocation:              |  |       |                          |             |              | \$0.00       |
| Right-of-Way                           |  |       |                          |             |              |              |
| Right-of-Way - Urban                   |  |       | \$150,000.00             | Acres       | 0            | \$0.00       |
| Right-of-Way - Rural                   |  |       | \$120,000.00             | Acres       | 0            | \$0.00       |
| Construction Easement (75% of ROW)     |  |       |                          | Acres       | 0            | \$0.00       |
| Structures                             |  |       | \$180,000.00             | Each        | 0            | \$0.00       |
| Right-of-Way Subtotal:                 |  |       |                          |             |              | \$0.00       |
| Contingency                            |  | 15.0% | Of Right-of-Way Subtotal |             | \$0.00       |              |
| Total Right-of-Way:                    |  |       |                          |             |              | \$0.00       |
| Engineering                            |  | 11.5% | Of Construction Total    |             | \$28,750.00  |              |
| Construction Inspection                |  | 8.0%  | Of Construction Total    |             | \$20,000.00  |              |
| Administration and Planning            |  | 1.5%  | Of Construction Total    |             | \$3,750.00   |              |
| Total Project Cost:                    |  |       |                          |             |              | \$302,500.00 |

## EXHIBIT "B" - continued

PROJECT CODE: S26

|                          |                           |
|--------------------------|---------------------------|
| TRANSPORTATION DISTRICT: | Western/Southern District |
|--------------------------|---------------------------|

**LOCATION:**

Route 272, south of Colonel George Howard Boulevard (SR 1040)

**DEFICIENCY:**

The current roadway segment is deficient with 2010 existing traffic volumes

**PROPOSED IMPROVEMENTS:**

Construct additional thru lanes.

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |              |
|--------------------|--------------|
| Construction       | 5,688,353    |
| Utility Relocation | 519,340      |
| Right-of-Way       | 2,735,116    |
| Engineering        | 654,161      |
| Inspection         | 455,068      |
| Admin & Planning   | 85,325       |
| TOTAL              | \$10,137,362 |

**CONSTRUCTION YEAR AND PROJECTED COST:**

|                             |              |                       |
|-----------------------------|--------------|-----------------------|
| Construction Year           | 2034         | Inflation Rate: 3.76% |
| Projected Construction Cost | \$25,507,861 |                       |

**PROPOSED FUNDING:**

|               |      |              |
|---------------|------|--------------|
| State/Federal | 100% | \$25,507,861 |
| Other         | 0%   | \$0          |
| Impact Fees   | 0%   | \$0          |

**PROJECT SCHEDULE:**

|                      | Year |
|----------------------|------|
| Secure Funding       | 2032 |
| Acquire ROW          | 2033 |
| Complete Engineering | 2033 |
| Begin Construction   | 2034 |

**TRANSPORTATION DISTRICT COST:**

|                   |     |     |
|-------------------|-----|-----|
| Western District  | 50% | \$0 |
| Eastern District  | 0%  | \$0 |
| Southern District | 50% | \$0 |

**REMARKS:**

# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

Project Number **S26** Done By: BDE Checked: MJR

| Description                                  | Cost         | Unit        | Quantity                 | Total                  |
|--|--------------|-------------|--------------------------|------------------------|
| <b>Construction Items</b>                    |              |             |                          |                        |
| <b>Traffic Signals</b>                       |              |             |                          |                        |
| New Signal (4-way)                           | \$200,000.00 | Each        | 4                        | \$800,000.00           |
| New Signal (3-way)                           | \$150,000.00 | Each        | 0                        | \$0.00                 |
| Signal Modifications                         | \$20,000.00  | Each        | 0                        | \$0.00                 |
| Emergency Vehicle Preemption Only            | \$10,000.00  | Each        | 0                        | \$0.00                 |
| <b>Pavement</b>                              |              |             |                          |                        |
| 1.5" Pavement Overlay and Milling            | \$7.00       | Square Yard | 0                        | \$0.00                 |
| New Pavement - Arterial Roads                | \$46.00      | Square Yard | 50667                    | \$2,330,682.00         |
| New Pavement - Collector Roads               | \$40.00      | Square Yard | 0                        | \$0.00                 |
| New Pavement - Local Commercial Roads        | \$34.00      | Square Yard | 0                        | \$0.00                 |
| New Pavement - Local Residential Roads       | \$29.00      | Square Yard | 0                        | \$0.00                 |
| 4" PBD                                       | \$7.25       | Linear Foot | 38000                    | \$275,500.00           |
| <b>Excavation</b>                            |              |             |                          |                        |
| Excavation (Borrow)                          | \$12.00      | Cubic Yard  | 0                        | \$0.00                 |
| <b>Drainage</b>                              |              |             |                          |                        |
| Inlet/Manhole                                | \$2,400.00   | Each        | 7                        | \$16,800.00            |
| Pipe and Trenching                           | \$55.00      | Linear Foot | 0                        | \$0.00                 |
| Culvert                                      | \$700.00     | Linear Foot | 24                       | \$16,800.00            |
| <b>Pavement Markings</b>                     |              |             |                          |                        |
| 4" Pavement Markings                         | \$2.00       | Linear Foot | 76000                    | \$152,000.00           |
| 8" Pavement Markings                         | \$8.00       | Linear Foot | 0                        | \$0.00                 |
| <b>Miscellaneous</b>                         |              |             |                          |                        |
| Guide Rail                                   | \$18.00      | Linear Foot | 1800                     | \$32,400.00            |
| Concrete Curb                                | \$35.00      | Linear Foot | 0                        | \$0.00                 |
| Bituminous Wedge Curb                        | \$7.00       | Linear Foot | 0                        | \$0.00                 |
| <b>Other Miscellaneous</b>                   |              |             |                          |                        |
| Post Mounted Signs                           | \$200.00     | Each        | 128                      | \$25,600.00            |
| Widen Bridge Structure                       | \$3,850.00   | SY          | 234                      | \$900,900.00           |
| <b>Construction Subtotal:</b>                |              |             |                          | <b>\$4,550,682.00</b>  |
| <b>Mobilization</b>                          |              | 5.0%        | Of Construction Total    | \$227,534.10           |
| <b>Maintenance and Protection of Traffic</b> |              | 5.0%        | Of Construction Total    | \$227,534.10           |
| <b>Contingency</b>                           |              | 15.0%       | Of Construction Total    | \$682,602.30           |
| <b>Total Construction:</b>                   |              |             |                          | <b>\$5,688,352.50</b>  |
| <b>Utility Relocation</b>                    |              |             |                          |                        |
| Utility Pole Relocation                      | \$3,300.00   | Each        | 122                      | \$402,600.00           |
| Electric Service                             | \$2,000.00   | Each        | 0                        | \$0.00                 |
| Water/ Gas Valves                            | \$250.00     | Each        | 0                        | \$0.00                 |
| Fire Hydrant Relocation                      | \$1,000.00   | Each        | 19                       | \$19,000.00            |
| High Tension Electric Poles                  | \$130,000.00 | Each        | 0                        | \$0.00                 |
| Sanitary Manhole                             | \$2,400.00   | Each        | 0                        | \$0.00                 |
| Other  | \$5,000.00   | Project     | 6                        | \$30,000.00            |
| <b>Utility Subtotal:</b>                     |              |             |                          | <b>\$451,600.00</b>    |
| <b>Contingency</b>                           |              | 15.0%       | Of Utility Subtotal      | \$67,740.00            |
| <b>Total Utility Relocation:</b>             |              |             |                          | <b>\$519,340.00</b>    |
| <b>Right-of-Way</b>                          |              |             |                          |                        |
| Right-of-Way - Urban                         | \$150,000.00 | Acres       | 0                        | \$0.00                 |
| Right-of-Way - Rural                         | \$120,000.00 | Acres       | 10.46838843              | \$1,256,206.61         |
| Construction Easement (75% of ROW)           |              | Acres       | 0                        | \$942,154.96           |
| Structures                                   | \$180,000.00 | Each        | 1                        | \$180,000.00           |
| <b>Right-of-Way Subtotal:</b>                |              |             |                          | <b>\$2,378,361.57</b>  |
| <b>Contingency</b>                           |              | 15.0%       | Of Right-of-Way Subtotal | \$356,754.24           |
| <b>Total Right-of-Way:</b>                   |              |             |                          | <b>\$2,735,115.81</b>  |
| <b>Engineering</b>                           |              | 11.5%       | Of Construction Total    | \$654,160.54           |
| <b>Construction Inspection</b>               |              | 8.0%        | Of Construction Total    | \$455,068.20           |
| <b>Administration and Planning</b>           |              | 1.5%        | Of Construction Total    | \$85,325.29            |
| <b>Total Project Cost:</b>                   |              |             |                          | <b>\$10,137,362.33</b> |

## EXHIBIT "B" - continued

PROJECT CODE: S27

TRANSPORTATION DISTRICT: Eastern/Western District

**LOCATION:**

Route 272, north of Colonel George Howard Boulevard (SR 1040)

**DEFICIENCY:**

The current roadway segment is deficient with 2010 existing traffic volumes

**PROPOSED IMPROVEMENTS:**

Construct additional thru lanes.

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |             |
|--------------------|-------------|
| Construction       | 2,034,898   |
| Utility Relocation | 195,500     |
| Right-of-Way       | 1,064,446   |
| Engineering        | 234,013     |
| Inspection         | 162,792     |
| Admin & Planning   | 30,523      |
| TOTAL              | \$3,722,172 |

**CONSTRUCTION YEAR AND PROJECTED COST:**

|                             |             |
|-----------------------------|-------------|
| Construction Year           | 2034        |
| Projected Construction Cost | \$9,365,814 |

Inflation Rate: 3.76%

**PROPOSED FUNDING:**

|               |      |             |
|---------------|------|-------------|
| State/Federal | 100% | \$9,365,814 |
| Other         | 0%   | \$0         |
| Impact Fees   | 0%   | \$0         |

**PROJECT SCHEDULE:**

|                      | Year |
|----------------------|------|
| Secure Funding       | 2032 |
| Acquire ROW          | 2033 |
| Complete Engineering | 2033 |
| Begin Construction   | 2034 |

**TRANSPORTATION DISTRICT COST:**

|                   |     |     |
|-------------------|-----|-----|
| Western District  | 50% | \$0 |
| Eastern District  | 50% | \$0 |
| Southern District | 0%  | \$0 |

**REMARKS:**

# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

Project Number **S27** Done By: BDE Checked: MJR

| Description                                  | Cost         | Unit        | Quantity                 | Total                 |
|--|--------------|-------------|--------------------------|-----------------------|
| <b>Construction Items</b>                    |              |             |                          |                       |
| <b>Traffic Signals</b>                       |              |             |                          |                       |
| New Signal (4-way)                           | \$200,000.00 | Each        | 2                        | \$400,000.00          |
| New Signal (3-way)                           | \$150,000.00 | Each        | 0                        | \$0.00                |
| Signal Modifications                         | \$20,000.00  | Each        | 0                        | \$0.00                |
| Emergency Vehicle Preemption Only            | \$10,000.00  | Each        | 0                        | \$0.00                |
| <b>Pavement</b>                              |              |             |                          |                       |
| 1.5" Pavement Overlay and Milling            | \$7.00       | Square Yard | 0                        | \$0.00                |
| New Pavement - Arterial Roads                | \$46.00      | Square Yard | 21333                    | \$981,318.00          |
| New Pavement - Collector Roads               | \$40.00      | Square Yard | 0                        | \$0.00                |
| New Pavement - Local Commercial Roads        | \$34.00      | Square Yard | 0                        | \$0.00                |
| New Pavement - Local Residential Roads       | \$29.00      | Square Yard | 0                        | \$0.00                |
| 4" PBD                                       | \$7.25       | Linear Foot | 16000                    | \$116,000.00          |
| <b>Excavation</b>                            |              |             |                          |                       |
| Excavation (Borrow)                          | \$12.00      | Cubic Yard  | 0                        | \$0.00                |
| <b>Drainage</b>                              |              |             |                          |                       |
| Inlet/Manhole                                | \$2,400.00   | Each        | 7                        | \$16,800.00           |
| Pipe and Trenching                           | \$55.00      | Linear Foot | 0                        | \$0.00                |
| Culvert                                      | \$700.00     | Linear Foot | 0                        | \$0.00                |
| <b>Pavement Markings</b>                     |              |             |                          |                       |
| 4" Pavement Markings                         | \$2.00       | Linear Foot | 32000                    | \$64,000.00           |
| 8" Pavement Markings                         | \$8.00       | Linear Foot | 0                        | \$0.00                |
| <b>Miscellaneous</b>                         |              |             |                          |                       |
| Guide Rail                                   | \$18.00      | Linear Foot | 1900                     | \$34,200.00           |
| Concrete Curb                                | \$35.00      | Linear Foot | 0                        | \$0.00                |
| Bituminous Wedge Curb                        | \$7.00       | Linear Foot | 0                        | \$0.00                |
| <b>Other Miscellaneous</b>                   |              |             |                          |                       |
| Post Mounted Signs                           | \$200.00     | Each        | 78                       | \$15,600.00           |
|  |              |             |                          | \$0.00                |
| <b>Construction Subtotal:</b>                |              |             |                          | <b>\$1,627,918.00</b> |
| <b>Mobilization</b>                          |              | 5.0%        | Of Construction Total    | \$81,395.90           |
| <b>Maintenance and Protection of Traffic</b> |              | 5.0%        | Of Construction Total    | \$81,395.90           |
| <b>Contingency</b>                           |              | 15.0%       | Of Construction Total    | \$244,187.70          |
| <b>Total Construction:</b>                   |              |             |                          | <b>\$2,034,897.50</b> |
| <b>Utility Relocation</b>                    |              |             |                          |                       |
| Utility Pole Relocation                      | \$3,300.00   | Each        | 50                       | \$165,000.00          |
| Electric Service                             | \$2,000.00   | Each        | 0                        | \$0.00                |
| Water/ Gas Valves                            | \$250.00     | Each        | 0                        | \$0.00                |
| Fire Hydrant Relocation                      | \$1,000.00   | Each        | 5                        | \$5,000.00            |
| High Tension Electric Poles                  | \$130,000.00 | Each        | 0                        | \$0.00                |
| Sanitary Manhole                             | \$2,400.00   | Each        | 0                        | \$0.00                |
| Other  | \$5,000.00   | Project     | 0                        | \$0.00                |
| <b>Utility Subtotal:</b>                     |              |             |                          | <b>\$170,000.00</b>   |
| <b>Contingency</b>                           |              | 15.0%       | Of Utility Subtotal      | \$25,500.00           |
| <b>Total Utility Relocation:</b>             |              |             |                          | <b>\$195,500.00</b>   |
| <b>Right-of-Way</b>                          |              |             |                          |                       |
| Right-of-Way - Urban                         | \$150,000.00 | Acres       | 0                        | \$0.00                |
| Right-of-Way - Rural                         | \$120,000.00 | Acres       | 4.407644628              | \$528,917.36          |
| Construction Easement (75% of ROW)           |              | Acres       | 0                        | \$396,688.02          |
| Structures                                   | \$180,000.00 | Each        | 0                        | \$0.00                |
| <b>Right-of-Way Subtotal:</b>                |              |             |                          | <b>\$925,605.37</b>   |
| <b>Contingency</b>                           |              | 15.0%       | Of Right-of-Way Subtotal | \$138,840.81          |
| <b>Total Right-of-Way:</b>                   |              |             |                          | <b>\$1,064,446.18</b> |
| <b>Engineering</b>                           |              | 11.5%       | Of Construction Total    | \$234,013.21          |
| <b>Construction Inspection</b>               |              | 8.0%        | Of Construction Total    | \$162,791.80          |
| <b>Administration and Planning</b>           |              | 1.5%        | Of Construction Total    | \$30,523.46           |
| <b>Total Project Cost:</b>                   |              |             |                          | <b>\$3,722,172.15</b> |

## EXHIBIT "B" - continued

PROJECT CODE: 106

TRANSPORTATION DISTRICT: Eastern/Southern District

**LOCATION:**

Colonel George Howard Boulevard (SR 1040) & Leshar Road (T-949)

**DEFICIENCY:**

The current intersection geometry is deficient with 2034 base traffic volumes.

**PROPOSED IMPROVEMENTS:**

Project not feasible- Will interfere with future interchange projects

Channelize the southbound right turn movement.

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |                 |
|--------------------|-----------------|
| Construction       | 41,571          |
| Utility Relocation | 0               |
| Right-of-Way       | 33,281          |
| Engineering        | 4,781           |
| Inspection         | 3,326           |
| Admin & Planning   | 624             |
| <b>TOTAL</b>       | <b>\$83,582</b> |

**CONSTRUCTION YEAR AND PROJECTED COST:**

|                             |           |
|-----------------------------|-----------|
| Construction Year           | 2034      |
| Projected Construction Cost | \$210,312 |

Inflation Rate: 3.76%

**PROPOSED FUNDING:**

|               |    |     |
|---------------|----|-----|
| State/Federal | 0% | \$0 |
| Other         | 0% | \$0 |
| Impact Fees   | 0% | \$0 |

**PROJECT SCHEDULE:**

|                      | Year |
|----------------------|------|
| Secure Funding       | 2032 |
| Acquire ROW          | 2033 |
| Complete Engineering | 2033 |
| Begin Construction   | 2034 |

**TRANSPORTATION DISTRICT COST:**

|                   |     |     |
|-------------------|-----|-----|
| Western District  | 0%  | \$0 |
| Eastern District  | 50% | \$0 |
| Southern District | 50% | \$0 |

**REMARKS:**

# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

Project Number **106** Done By: BDE Checked: MJR

| Description                                  | Cost         | Unit        | Quantity                 | Total              |
|--|--------------|-------------|--------------------------|--------------------|
| <b>Construction Items</b>                    |              |             |                          |                    |
| <b>Traffic Signals</b>                       |              |             |                          |                    |
| New Signal (4-way)                           | \$200,000.00 | Each        | 0                        | \$0.00             |
| New Signal (3-way)                           | \$150,000.00 | Each        | 0                        | \$0.00             |
| Signal Modifications                         | \$20,000.00  | Each        | 0                        | \$0.00             |
| Emergency Vehicle Preemption Only            | \$10,000.00  | Each        | 0                        | \$0.00             |
| <b>Pavement</b>                              |              |             |                          |                    |
| 1.5" Pavement Overlay and Milling            | \$7.00       | Square Yard | 0                        | \$0.00             |
| New Pavement - Arterial Roads                | \$46.00      | Square Yard | 467                      | \$21,482.00        |
| New Pavement - Collector Roads               | \$40.00      | Square Yard | 0                        | \$0.00             |
| New Pavement - Local Commercial Roads        | \$34.00      | Square Yard | 0                        | \$0.00             |
| New Pavement - Local Residential Roads       | \$29.00      | Square Yard | 200                      | \$5,800.00         |
| 4" PBD                                       | \$7.25       | Linear Foot | 0                        | \$0.00             |
| <b>Excavation</b>                            |              |             |                          |                    |
| Excavation (Borrow)                          | \$12.00      | Cubic Yard  | 0                        | \$0.00             |
| <b>Drainage</b>                              |              |             |                          |                    |
| Inlet/Manhole                                | \$2,400.00   | Each        | 0                        | \$0.00             |
| Pipe and Trenching                           | \$55.00      | Linear Foot | 0                        | \$0.00             |
| Culvert                                      | \$700.00     | Linear Foot | 0                        | \$0.00             |
| <b>Pavement Markings</b>                     |              |             |                          |                    |
| 4" Pavement Markings                         | \$2.00       | Linear Foot | 0                        | \$0.00             |
| 8" Pavement Markings                         | \$8.00       | Linear Foot | 0                        | \$0.00             |
| <b>Miscellaneous</b>                         |              |             |                          |                    |
| Guide Rail                                   | \$18.00      | Linear Foot | 0                        | \$0.00             |
| Concrete Curb                                | \$35.00      | Linear Foot | 125                      | \$4,375.00         |
| Bituminous Wedge Curb                        | \$7.00       | Linear Foot | 0                        | \$0.00             |
| <b>Other Miscellaneous</b>                   |              |             |                          |                    |
| Post Mounted Signs                           | \$200.00     | Each        | 8                        | \$1,600.00         |
|  |              |             |                          | \$0.00             |
| <b>Construction Subtotal:</b>                |              |             |                          | <b>\$33,257.00</b> |
| <b>Mobilization</b>                          |              | 5.0%        | Of Construction Total    | \$1,662.85         |
| <b>Maintenance and Protection of Traffic</b> |              | 5.0%        | Of Construction Total    | \$1,662.85         |
| <b>Contingency</b>                           |              | 15.0%       | Of Construction Total    | \$4,988.55         |
| <b>Total Construction:</b>                   |              |             |                          | <b>\$41,571.25</b> |
| <b>Utility Relocation</b>                    |              |             |                          |                    |
| Utility Pole Relocation                      | \$3,300.00   | Each        | 0                        | \$0.00             |
| Electric Service                             | \$2,000.00   | Each        | 0                        | \$0.00             |
| Water/ Gas Valves                            | \$250.00     | Each        | 0                        | \$0.00             |
| Fire Hydrant Relocation                      | \$1,000.00   | Each        | 0                        | \$0.00             |
| High Tension Electric Poles                  | \$130,000.00 | Each        | 0                        | \$0.00             |
| Sanitary Manhole                             | \$2,400.00   | Each        | 0                        | \$0.00             |
| Other  | \$5,000.00   | Project     | 0                        | \$0.00             |
| <b>Utility Subtotal:</b>                     |              |             |                          | <b>\$0.00</b>      |
| <b>Contingency</b>                           |              | 15.0%       | Of Utility Subtotal      | \$0.00             |
| <b>Total Utility Relocation:</b>             |              |             |                          | <b>\$0.00</b>      |
| <b>Right-of-Way</b>                          |              |             |                          |                    |
| Right-of-Way - Urban                         | \$150,000.00 | Acres       | 0                        | \$0.00             |
| Right-of-Way - Rural                         | \$120,000.00 | Acres       | 0.137809917              | \$16,537.19        |
| Construction Easement (75% of ROW)           |              | Acres       | 0                        | \$12,402.89        |
| Structures                                   | \$180,000.00 | Each        | 0                        | \$0.00             |
| <b>Right-of-Way Subtotal:</b>                |              |             |                          | <b>\$28,940.08</b> |
| <b>Contingency</b>                           |              | 15.0%       | Of Right-of-Way Subtotal | \$4,341.01         |
| <b>Total Right-of-Way:</b>                   |              |             |                          | <b>\$33,281.09</b> |
| <b>Engineering</b>                           |              | 11.5%       | Of Construction Total    | \$4,780.69         |
| <b>Construction Inspection</b>               |              | 8.0%        | Of Construction Total    | \$3,325.70         |
| <b>Administration and Planning</b>           |              | 1.5%        | Of Construction Total    | \$623.57           |
| <b>Total Project Cost:</b>                   |              |             |                          | <b>\$83,582.31</b> |

EXHIBIT "B" - continued

## EXHIBIT "B" - continued

PROJECT CODE: I07

TRANSPORTATION DISTRICT: Eastern/Southern District

**LOCATION:**

Colonel George Howard Boulevard (SR 1040) & Route 222 southbound Ramps

**DEFICIENCY:**

The current intersection geometry is deficient with 2034 base traffic volumes.

**PROPOSED IMPROVEMENTS:**

Construct a clover-leaf interchange.

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |             |
|--------------------|-------------|
| Construction       | 1,234,313   |
| Utility Relocation | 17,250      |
| Right-of-Way       | 2,777,250   |
| Engineering        | 141,946     |
| Inspection         | 98,745      |
| Admin & Planning   | 18,515      |
| TOTAL              | \$4,288,018 |

**CONSTRUCTION YEAR AND PROJECTED COST:**

|                             |             |
|-----------------------------|-------------|
| Construction Year           | 2027        |
| Projected Construction Cost | \$8,332,896 |

Inflation Rate: 3.76%

**PROPOSED FUNDING:**

|               |      |             |
|---------------|------|-------------|
| State/Federal | 100% | \$8,332,896 |
| Other         | 0%   | \$0         |
| Impact Fees   | 0%   | \$0         |

**PROJECT SCHEDULE:**

|                      | Year |
|----------------------|------|
| Secure Funding       | 2025 |
| Acquire ROW          | 2026 |
| Complete Engineering | 2026 |
| Begin Construction   | 2027 |

**TRANSPORTATION DISTRICT COST:**

|                   |     |     |
|-------------------|-----|-----|
| Western District  | 0%  | \$0 |
| Eastern District  | 50% | \$0 |
| Southern District | 50% | \$0 |

**REMARKS:**



# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

**Project Number** 107

Done By: BDE

Checked: MJR

| Description                                  | Cost         | Unit        | Quantity | Total                                       |
|--|--------------|-------------|----------|---|
| <b>Construction Items</b>                    |              |             |          |   |
| <b>Traffic Signals</b>                       |              |             |          |   |
| New Signal (4-way)                           | \$200,000.00 | Each        | 0        | \$0.00                                      |
| New Signal (3-way)                           | \$150,000.00 | Each        | 1        | \$150,000.00                                |
| Signal Modifications                         | \$20,000.00  | Each        | 0        | \$0.00                                      |
| Emergency Vehicle Preemption Only            | \$10,000.00  | Each        | 0        | \$0.00                                      |
| <b>Pavement</b>                              |              |             |          |   |
| 1.5" Pavement Overlay and Milling            | \$7.00       | Square Yard | 0        | \$0.00                                      |
| New Pavement - Arterial Roads                | \$46.00      | Square Yard | 15000    | \$690,000.00                                |
| New Pavement - Collector Roads               | \$40.00      | Square Yard | 0        | \$0.00                                      |
| New Pavement - Local Commercial Roads        | \$34.00      | Square Yard | 0        | \$0.00                                      |
| New Pavement - Local Residential Roads       | \$29.00      | Square Yard | 0        | \$0.00                                      |
| 4" PBD                                       | \$7.25       | Linear Foot | 5000     | \$36,250.00                                 |
| <b>Excavation</b>                            |              |             |          |   |
| Excavation (Borrow)                          | \$12.00      | Cubic Yard  | 0        | \$0.00                                      |
| <b>Drainage</b>                              |              |             |          |   |
| Inlet/Manhole                                | \$2,400.00   | Each        | 0        | \$0.00                                      |
| Pipe and Trenching                           | \$55.00      | Linear Foot | 0        | \$0.00                                      |
| Culvert                                      | \$700.00     | Linear Foot | 0        | \$0.00                                      |
| <b>Pavement Markings</b>                     |              |             |          |   |
| 4" Pavement Markings                         | \$2.00       | Linear Foot | 10000    | \$20,000.00                                 |
| 8" Pavement Markings                         | \$8.00       | Linear Foot | 0        | \$0.00                                      |
| <b>Miscellaneous</b>                         |              |             |          |   |
| Guide Rail                                   | \$18.00      | Linear Foot | 5000     | \$90,000.00                                 |
| Concrete Curb                                | \$35.00      | Linear Foot | 0        | \$0.00                                      |
| Bituminous Wedge Curb                        | \$7.00       | Linear Foot | 0        | \$0.00                                      |
| <b>Other Miscellaneous</b>                   |              |             |          |   |
| Post Mounted Signs                           | \$200.00     | Each        | 6        | \$1,200.00                                  |
|  |              |             |          | \$0.00                                      |
| <b>Construction Subtotal:</b>                |              |             |          | \$987,450.00                                |
| <b>Mobilization</b>                          |              |             |          | 5.0% Of Construction Total \$49,372.50      |
| <b>Maintenance and Protection of Traffic</b> |              |             |          | 5.0% Of Construction Total \$49,372.50      |
| <b>Contingency</b>                           |              |             |          | 15.0% Of Construction Total \$148,117.50    |
| <b>Total Construction:</b>                   |              |             |          | \$1,234,312.50                              |
| <b>Utility Relocation</b>                    |              |             |          |   |
| Utility Pole Relocation                      | \$3,300.00   | Each        | 0        | \$0.00                                      |
| Electric Service                             | \$2,000.00   | Each        | 0        | \$0.00                                      |
| Water/ Gas Valves                            | \$250.00     | Each        | 0        | \$0.00                                      |
| Fire Hydrant Relocation                      | \$1,000.00   | Each        | 0        | \$0.00                                      |
| High Tension Electric Poles                  | \$130,000.00 | Each        | 0        | \$0.00                                      |
| Sanitary Manhole                             | \$2,400.00   | Each        | 0        | \$0.00                                      |
| Street Lights                                | \$5,000.00   | Project     | 3        | \$15,000.00                                 |
| <b>Utility Subtotal:</b>                     |              |             |          | \$15,000.00                                 |
| <b>Contingency</b>                           |              |             |          | 15.0% Of Utility Subtotal \$2,250.00        |
| <b>Total Utility Relocation:</b>             |              |             |          | \$17,250.00                                 |
| <b>Right-of-Way</b>                          |              |             |          |   |
| Right-of-Way - Urban                         | \$150,000.00 | Acres       | 0        | \$0.00                                      |
| Right-of-Way - Rural                         | \$120,000.00 | Acres       | 11.5     | \$1,380,000.00                              |
| Construction Easement (75% of ROW)           |              | Acres       | 0        | \$1,035,000.00                              |
| Structures                                   | \$180,000.00 | Each        | 0        | \$0.00                                      |
| <b>Right-of-Way Subtotal:</b>                |              |             |          | \$2,415,000.00                              |
| <b>Contingency</b>                           |              |             |          | 15.0% Of Right-of-Way Subtotal \$362,250.00 |
| <b>Total Right-of-Way:</b>                   |              |             |          | \$2,777,250.00                              |
| <b>Engineering</b>                           |              |             |          | 11.5% Of Construction Total \$141,945.94    |
| <b>Construction Inspection</b>               |              |             |          | 8.0% Of Construction Total \$98,745.00      |
| <b>Administration and Planning</b>           |              |             |          | 1.5% Of Construction Total \$18,514.69      |
| <b>Total Project Cost:</b>                   |              |             |          | \$4,288,018.13                              |

EXHIBIT "B" - continued

## EXHIBIT "B" - continued

PROJECT CODE: 108

TRANSPORTATION DISTRICT: Eastern/Southern District

**LOCATION:**

Colonel George Howard Boulevard (SR 1040) & Route 222 northbound Ramps

**DEFICIENCY:**

The current intersection geometry is deficient with 2034 base traffic volumes.

**PROPOSED IMPROVEMENTS:**

Construct a clover-leaf interchange.

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |             |
|--------------------|-------------|
| Construction       | 1,234,313   |
| Utility Relocation | 17,250      |
| Right-of-Way       | 2,777,250   |
| Engineering        | 141,946     |
| Inspection         | 98,745      |
| Admin & Planning   | 18,515      |
| TOTAL              | \$4,288,018 |

**CONSTRUCTION YEAR AND PROJECTED COST:**

|                             |             |                       |
|-----------------------------|-------------|-----------------------|
| Construction Year           | 2027        | Inflation Rate: 3.76% |
| Projected Construction Cost | \$8,332,896 |                       |

**PROPOSED FUNDING:**

|               |      |             |
|---------------|------|-------------|
| State/Federal | 100% | \$8,332,896 |
| Other         | 0%   | \$0         |
| Impact Fees   | 0%   | \$0         |

**PROJECT SCHEDULE:**

|                     | Year |
|---------------------|------|
| Secure Funding      | 2025 |
| Acquire ROW         | 2026 |
| Compete Engineering | 2026 |
| Begin Construction  | 2027 |

**TRANSPORTATION DISTRICT COST:**

|                   |     |     |
|-------------------|-----|-----|
| Western District  | 0%  | \$0 |
| Eastern District  | 50% | \$0 |
| Southern District | 50% | \$0 |

**REMARKS:**

# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

| Project Number                         |  | I08          | Done By: BDE             |                           | Checked: MJR   |                |
|--|--|--------------|--------------------------|---------------------------|----------------|----------------|
| Description                            |  | Cost         | Unit                     | Quantity                  | Total          |                |
| Construction Items                     |  |              |                          |                           |                |                |
| Traffic Signals                        |  |              |                          |                           |                |                |
| New Signal (4-way)                     |  | \$200,000.00 | Each                     | 0                         | \$0.00         |                |
| New Signal (3-way)                     |  | \$150,000.00 | Each                     | 1                         | \$150,000.00   |                |
| Signal Modifications                   |  | \$20,000.00  | Each                     | 0                         | \$0.00         |                |
| Emergency Vehicle Preemption Only      |  | \$10,000.00  | Each                     | 0                         | \$0.00         |                |
| Pavement                               |  |              |                          |                           |                |                |
| 1.5" Pavement Overlay and Milling      |  | \$7.00       | Square Yard              | 0                         | \$0.00         |                |
| New Pavement - Arterial Roads          |  | \$46.00      | Square Yard              | 15000                     | \$690,000.00   |                |
| New Pavement - Collector Roads         |  | \$40.00      | Square Yard              | 0                         | \$0.00         |                |
| New Pavement - Local Commercial Roads  |  | \$34.00      | Square Yard              | 0                         | \$0.00         |                |
| New Pavement - Local Residential Roads |  | \$29.00      | Square Yard              | 0                         | \$0.00         |                |
| 4" PBD                                 |  | \$7.25       | Linear Foot              | 5000                      | \$36,250.00    |                |
| Excavation                             |  |              |                          |                           |                |                |
| Excavation (Borrow)                    |  | \$12.00      | Cubic Yard               | 0                         | \$0.00         |                |
| Drainage                               |  |              |                          |                           |                |                |
| Inlet/Manhole                          |  | \$2,400.00   | Each                     | 0                         | \$0.00         |                |
| Pipe and Trenching                     |  | \$55.00      | Linear Foot              | 0                         | \$0.00         |                |
| Culvert                                |  | \$700.00     | Linear Foot              | 0                         | \$0.00         |                |
| Pavement Markings                      |  |              |                          |                           |                |                |
| 4" Pavement Markings                   |  | \$2.00       | Linear Foot              | 10000                     | \$20,000.00    |                |
| 8" Pavement Markings                   |  | \$8.00       | Linear Foot              | 0                         | \$0.00         |                |
| Miscellaneous                          |  |              |                          |                           |                |                |
| Guide Rail                             |  | \$18.00      | Linear Foot              | 5000                      | \$90,000.00    |                |
| Concrete Curb                          |  | \$35.00      | Linear Foot              | 0                         | \$0.00         |                |
| Bituminous Wedge Curb                  |  | \$7.00       | Linear Foot              | 0                         | \$0.00         |                |
| Other Miscellaneous                    |  |              |                          |                           |                |                |
| Post Mounted Signs                     |  | \$200.00     | Each                     | 6                         | \$1,200.00     |                |
|  |  |              |                          |                           | \$0.00         |                |
|  |  |              |                          | Construction Subtotal:    |                | \$987,450.00   |
| Mobilization                           |  | 5.0%         | Of Construction Total    |                           | \$49,372.50    |                |
| Maintenance and Protection of Traffic  |  | 5.0%         | Of Construction Total    |                           | \$49,372.50    |                |
| Contingency                            |  | 15.0%        | Of Construction Total    |                           | \$148,117.50   |                |
|  |  |              |                          | Total Construction:       |                | \$1,234,312.50 |
| Utility Relocation                     |  |              |                          |                           |                |                |
| Utility Pole Relocation                |  | \$3,300.00   | Each                     | 0                         | \$0.00         |                |
| Electric Service                       |  | \$2,000.00   | Each                     | 0                         | \$0.00         |                |
| Water/ Gas Valves                      |  | \$250.00     | Each                     | 0                         | \$0.00         |                |
| Fire Hydrant Relocation                |  | \$1,000.00   | Each                     | 0                         | \$0.00         |                |
| High Tension Electric Poles            |  | \$130,000.00 | Each                     | 0                         | \$0.00         |                |
| Sanitary Manhole                       |  | \$2,400.00   | Each                     | 0                         | \$0.00         |                |
| Street Lights                          |  | \$5,000.00   | Project                  | 3                         | \$15,000.00    |                |
|  |  |              |                          | Utility Subtotal:         |                | \$15,000.00    |
| Contingency                            |  | 15.0%        | Of Utility Subtotal      |                           | \$2,250.00     |                |
|  |  |              |                          | Total Utility Relocation: |                | \$17,250.00    |
| Right-of-Way                           |  |              |                          |                           |                |                |
| Right-of-Way - Urban                   |  | \$150,000.00 | Acres                    | 0                         | \$0.00         |                |
| Right-of-Way - Rural                   |  | \$120,000.00 | Acres                    | 11.5                      | \$1,380,000.00 |                |
| Construction Easement (75% of ROW)     |  |              | Acres                    | 0                         | \$1,035,000.00 |                |
| Structures                             |  | \$180,000.00 | Each                     | 0                         | \$0.00         |                |
|  |  |              |                          | Right-of-Way Subtotal:    |                | \$2,415,000.00 |
| Contingency                            |  | 15.0%        | Of Right-of-Way Subtotal |                           | \$362,250.00   |                |
|  |  |              |                          | Total Right-of-Way:       |                | \$2,777,250.00 |
| Engineering                            |  | 11.5%        | Of Construction Total    |                           | \$141,945.94   |                |
| Construction Inspection                |  | 8.0%         | Of Construction Total    |                           | \$98,745.00    |                |
| Administration and Planning            |  | 1.5%         | Of Construction Total    |                           | \$18,514.69    |                |
|  |  |              |                          | Total Project Cost:       |                | \$4,288,018.13 |

## EXHIBIT "B" - continued

PROJECT CODE: 111A

TRANSPORTATION DISTRICT: Eastern/Western/Southern District

**LOCATION:**

Colonel George Howard Boulevard (SR 1040) / Denver Road (T-901) & Route 272

**DEFICIENCY:**

The current intersection geometry is deficient with 2034 base traffic volumes.

**PROPOSED IMPROVEMENTS:**

Construct a 2nd westbound left turn lane on Col Howard Blvd.

Tie into I07 & I08 SR222 Interchange Project and S22 Col. Howard Blvd. widening project

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |                  |
|--------------------|------------------|
| Construction       | 165,983          |
| Utility Relocation | 5,750            |
| Right-of-Way       | 0                |
| Engineering        | 19,088           |
| Inspection         | 13,279           |
| Admin & Planning   | 2,490            |
| <b>TOTAL</b>       | <b>\$206,589</b> |

**CONSTRUCTION YEAR AND PROJECTED COST:**

|                             |           |
|-----------------------------|-----------|
| Construction Year           | 2027      |
| Projected Construction Cost | \$401,464 |

Inflation Rate: 3.76%

**PROPOSED FUNDING:**

|               |      |           |
|---------------|------|-----------|
| State/Federal | 100% | \$401,464 |
| Other         | 0%   | \$0       |
| Impact Fees   | 0%   | \$0       |

**PROJECT SCHEDULE:**

|                      | Year |
|----------------------|------|
| Secure Funding       | 2025 |
| Acquire ROW          | 2026 |
| Complete Engineering | 2026 |
| Begin Construction   | 2027 |

**TRANSPORTATION DISTRICT COST:**

|                   |     |     |
|-------------------|-----|-----|
| Western District  | 33% | \$0 |
| Eastern District  | 33% | \$0 |
| Southern District | 34% | \$0 |

**REMARKS:**

PENNDOT Project

# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

**Project Number** I11A

Done By: BDE

Checked: MJR

| Description                                  | Cost         | Unit                     | Quantity | Total        |
|--|--------------|--------------------------|----------|--------------|
| <b>Construction Items</b>                    |              |                          |          |              |
| <b>Traffic Signals</b>                       |              |                          |          |              |
| New Signal (4-way)                           | \$200,000.00 | Each                     | 0        | \$0.00       |
| New Signal (3-way)                           | \$150,000.00 | Each                     | 0        | \$0.00       |
| Signal Modifications                         | \$20,000.00  | Each                     | 2        | \$40,000.00  |
| Emergency Vehicle Preemption Only            | \$10,000.00  | Each                     | 0        | \$0.00       |
| <b>Pavement</b>                              |              |                          |          |              |
| 1.5" Pavement Overlay and Milling            | \$7.00       | Square Yard              | 0        | \$0.00       |
| New Pavement - Arterial Roads- Concrete      | \$75.00      | Square Yard              | 533      | \$39,975.00  |
| New Pavement - Collector Roads               | \$40.00      | Square Yard              | 0        | \$0.00       |
| New Pavement - Local Commercial Roads        | \$34.00      | Square Yard              | 0        | \$0.00       |
| New Pavement - Local Residential Roads       | \$29.00      | Square Yard              | 0        | \$0.00       |
| 4" PBD                                       | \$7.25       | Linear Foot              | 600      | \$4,350.00   |
| <b>Excavation</b>                            |              |                          |          |              |
| Excavation (Borrow)                          | \$12.00      | Cubic Yard               | 0        | \$0.00       |
| <b>Drainage</b>                              |              |                          |          |              |
| Inlet/Manhole                                | \$2,400.00   | Each                     | 2        | \$4,800.00   |
| Pipe and Trenching                           | \$55.00      | Linear Foot              | 100      | \$5,500.00   |
| Culvert                                      | \$700.00     | Linear Foot              | 0        | \$0.00       |
| <b>Pavement Markings</b>                     |              |                          |          |              |
| 4" Pavement Markings                         | \$2.00       | Linear Foot              | 2600     | \$5,200.00   |
| 8" Pavement Markings                         | \$8.00       | Linear Foot              | 0        | \$0.00       |
| <b>Miscellaneous</b>                         |              |                          |          |              |
| Guide Rail                                   | \$18.00      | Linear Foot              | 0        | \$0.00       |
| Concrete Curb                                | \$35.00      | Linear Foot              | 500      | \$17,500.00  |
| Bituminous Wedge Curb                        | \$7.00       | Linear Foot              | 0        | \$0.00       |
| <b>Other Miscellaneous</b>                   |              |                          |          |              |
| Post Mounted Signs                           | \$200.00     | Each                     | 10       | \$2,000.00   |
| Partial Removal of Island                    | \$25.00      | SY                       | 145      | \$3,625.00   |
| <b>Construction Subtotal:</b>                |              |                          |          | \$122,950.00 |
| <b>Mobilization</b>                          | 5.0%         | Of Construction Total    |          | \$6,147.50   |
| <b>Maintenance and Protection of Traffic</b> | 5.0%         | Of Construction Total    |          | \$6,147.50   |
| <b>Contingency</b>                           | 25.0%        | Of Construction Total    |          | \$30,737.50  |
| <b>Total Construction:</b>                   |              |                          |          | \$165,982.50 |
| <b>Utility Relocation</b>                    |              |                          |          |              |
| Utility Pole Relocation                      | \$3,300.00   | Each                     | 0        | \$0.00       |
| Electric Service                             | \$2,000.00   | Each                     | 0        | \$0.00       |
| Water/ Gas Valves                            | \$250.00     | Each                     | 0        | \$0.00       |
| Fire Hydrant Relocation                      | \$1,000.00   | Each                     | 0        | \$0.00       |
| High Tension Electric Poles                  | \$130,000.00 | Each                     | 0        | \$0.00       |
| Sanitary Manhole                             | \$2,400.00   | Each                     | 0        | \$0.00       |
| Other  | \$5,000.00   | Project                  | 1        | \$5,000.00   |
| <b>Utility Subtotal:</b>                     |              |                          |          | \$5,000.00   |
| <b>Contingency</b>                           | 15.0%        | Of Utility Subtotal      |          | \$750.00     |
| <b>Total Utility Relocation:</b>             |              |                          |          | \$5,750.00   |
| <b>Right-of-Way</b>                          |              |                          |          |              |
| 2027   | \$150,000.00 | Acres                    | 0        | \$0.00       |
| Right-of-Way - Rural                         | \$120,000.00 | Acres                    | 0        | \$0.00       |
| Construction Easement (75% of ROW)           |              | Acres                    | 0        | \$0.00       |
| Structures                                   | \$180,000.00 | Each                     | 0        | \$0.00       |
| <b>Right-of-Way Subtotal:</b>                |              |                          |          | \$0.00       |
| <b>Contingency</b>                           | 15.0%        | Of Right-of-Way Subtotal |          | \$0.00       |
| <b>Total Right-of-Way:</b>                   |              |                          |          | \$0.00       |
| <b>Engineering</b>                           | 11.5%        | Of Construction Total    |          | \$19,087.99  |
| <b>Construction Inspection</b>               | 8.0%         | Of Construction Total    |          | \$13,278.60  |
| <b>Administration and Planning</b>           | 1.5%         | Of Construction Total    |          | \$2,489.74   |
| <b>Total Project Cost:</b>                   |              |                          |          | \$206,588.83 |

EXHIBIT "B" - continued

## EXHIBIT "B" - continued

PROJECT CODE: I15A

TRANSPORTATION DISTRICT: Eastern/Western District

**LOCATION:**

Route 272 & Route 897

**DEFICIENCY:**

The current intersection geometry is deficient with 2034 base traffic volumes.

**PROPOSED IMPROVEMENTS:**

Construct a 2nd northbound left turn lane on SR 272

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |           |
|--------------------|-----------|
| Construction       | 197,585   |
| Utility Relocation | 16,330    |
| Right-of-Way       | 0         |
| Engineering        | 22,722    |
| Inspection         | 15,807    |
| Admin & Planning   | 2,964     |
| TOTAL              | \$255,408 |

**CONSTRUCTION YEAR AND PROJECTED COST:**

|                             |           |
|-----------------------------|-----------|
| Construction Year           | 2034      |
| Projected Construction Cost | \$642,663 |

Inflation Rate: 3.76%

**PROPOSED FUNDING:**

|               |      |           |
|---------------|------|-----------|
| State/Federal | 100% | \$642,663 |
| Other         | 0%   | \$0       |
| Impact Fees   | 0%   | \$0       |

**PROJECT SCHEDULE:**

|                      | Year |
|----------------------|------|
| Secure Funding       | 2032 |
| Acquire ROW          | 2033 |
| Complete Engineering | 2033 |
| Begin Construction   | 2034 |

**TRANSPORTATION DISTRICT COST:**

|                   |     |     |
|-------------------|-----|-----|
| Western District  | 50% | \$0 |
| Eastern District  | 50% | \$0 |
| Southern District | 0%  | \$0 |

**REMARKS:**

# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

| Project Number                         |  | I15A | Done By: BDE |             | Checked: MJR             |                               |
|--|--|------|--------------|-------------|--------------------------|-------------------------------|
| Description                            |  |      | Cost         | Unit        | Quantity                 | Total                         |
| Construction Items                     |  |      |              |             |                          |                               |
| Traffic Signals                        |  |      |              |             |                          |                               |
| New Signal (4-way)                     |  |      | \$200,000.00 | Each        | 0                        | \$0.00                        |
| New Signal (3-way)                     |  |      | \$150,000.00 | Each        | 0                        | \$0.00                        |
| Signal Modifications                   |  |      | \$20,000.00  | Each        | 1                        | \$20,000.00                   |
| Emergency Vehicle Preemption Only      |  |      | \$10,000.00  | Each        | 0                        | \$0.00                        |
| Pavement                               |  |      |              |             |                          |                               |
| 1.5" Pavement Overlay and Milling      |  |      | \$7.00       | Square Yard | 0                        | \$0.00                        |
| New Pavement - Arterial Roads          |  |      | \$46.00      | Square Yard | 533                      | \$24,518.00                   |
| New Pavement - Collector Roads         |  |      | \$40.00      | Square Yard | 0                        | \$0.00                        |
| New Pavement - Local Commercial Roads  |  |      | \$34.00      | Square Yard | 0                        | \$0.00                        |
| New Pavement - Local Residential Roads |  |      | \$29.00      | Square Yard | 0                        | \$0.00                        |
| 4" PBD                                 |  |      | \$7.25       | Linear Foot | 600                      | \$4,350.00                    |
| Excavation                             |  |      |              |             |                          |                               |
| Excavation (Borrow)                    |  |      | \$12.00      | Cubic Yard  | 0                        | \$0.00                        |
| Drainage                               |  |      |              |             |                          |                               |
| Inlet/Manhole                          |  |      | \$2,400.00   | Each        | 1                        | \$2,400.00                    |
| Pipe and Trenching                     |  |      | \$55.00      | Linear Foot | 0                        | \$0.00                        |
| Culvert                                |  |      | \$700.00     | Linear Foot | 0                        | \$0.00                        |
| Pavement Markings                      |  |      |              |             |                          |                               |
| 4" Pavement Markings                   |  |      | \$2.00       | Linear Foot | 2600                     | \$5,200.00                    |
| 8" Pavement Markings                   |  |      | \$8.00       | Linear Foot | 0                        | \$0.00                        |
| Miscellaneous                          |  |      |              |             |                          |                               |
| Guide Rail                             |  |      | \$18.00      | Linear Foot | 0                        | \$0.00                        |
| Concrete Curb                          |  |      | \$35.00      | Linear Foot | 600                      | \$21,000.00                   |
| Bituminous Wedge Curb                  |  |      | \$7.00       | Linear Foot | 0                        | \$0.00                        |
| Other Miscellaneous                    |  |      |              |             |                          |                               |
| Post Mounted Signs                     |  |      | \$200.00     | Each        | 13                       | \$2,600.00                    |
| Sidewalk                               |  |      | \$65.00      | SY          | 1200                     | \$78,000.00                   |
| Construction Subtotal:                 |  |      |              |             |                          | \$158,068.00                  |
| Mobilization                           |  |      |              | 5.0%        | Of Construction Total    | \$7,903.40                    |
| Maintenance and Protection of Traffic  |  |      |              | 5.0%        | Of Construction Total    | \$7,903.40                    |
| Contingency                            |  |      |              | 15.0%       | Of Construction Total    | \$23,710.20                   |
| Total Construction:                    |  |      |              |             |                          | \$197,585.00                  |
| Utility Relocation                     |  |      |              |             |                          |                               |
| Utility Pole Relocation                |  |      | \$3,300.00   | Each        | 4                        | \$13,200.00                   |
| Electric Service                       |  |      | \$2,000.00   | Each        | 0                        | \$0.00                        |
| Water/ Gas Valves                      |  |      | \$250.00     | Each        | 0                        | EXHIBIT "B" - continue \$0.00 |
| Fire Hydrant Relocation                |  |      | \$1,000.00   | Each        | 1                        | \$1,000.00                    |
| High Tension Electric Poles            |  |      | \$130,000.00 | Each        | 0                        | \$0.00                        |
| Sanitary Manhole                       |  |      | \$2,400.00   | Each        | 0                        | \$0.00                        |
| Other                                  |  |      | \$5,000.00   | Project     | 0                        | \$0.00                        |
| Utility Subtotal:                      |  |      |              |             |                          | \$14,200.00                   |
| Contingency                            |  |      |              | 15.0%       | Of Utility Subtotal      | \$2,130.00                    |
| Total Utility Relocation:              |  |      |              |             |                          | \$16,330.00                   |
| Right-of-Way                           |  |      |              |             |                          |                               |
| Right-of-Way - Urban                   |  |      | \$150,000.00 | Acres       | 0                        | \$0.00                        |
| Right-of-Way - Rural                   |  |      | \$120,000.00 | Acres       | 0                        | \$0.00                        |
| Construction Easement (75% of ROW)     |  |      |              | Acres       | 0                        | \$0.00                        |
| Structures                             |  |      | \$180,000.00 | Each        | 0                        | \$0.00                        |
| Right-of-Way Subtotal:                 |  |      |              |             |                          | \$0.00                        |
| Contingency                            |  |      |              | 15.0%       | Of Right-of-Way Subtotal | \$0.00                        |
| Total Right-of-Way:                    |  |      |              |             |                          | \$0.00                        |
| Engineering                            |  |      |              | 11.5%       | Of Construction Total    | \$22,722.28                   |
| Construction Inspection                |  |      |              | 8.0%        | Of Construction Total    | \$15,806.80                   |
| Administration and Planning            |  |      |              | 1.5%        | Of Construction Total    | \$2,963.78                    |
| Total Project Cost:                    |  |      |              |             |                          | \$255,407.85                  |



## EXHIBIT "B" - continued

PROJECT CODE: I15B

TRANSPORTATION DISTRICT:

Eastern/Western District

**LOCATION:**

Route 272 & Route 897

**DEFICIENCY:**

The current intersection geometry is deficient with 2034 base traffic volumes.

**PROPOSED IMPROVEMENTS:**

Construct a 2nd westbound left turn lane on SR 897.

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |           |
|--------------------|-----------|
| Construction       | 106,210   |
| Utility Relocation | 24,725    |
| Right-of-Way       | 0         |
| Engineering        | 12,214    |
| Inspection         | 8,497     |
| Admin & Planning   | 1,593     |
| TOTAL              | \$153,239 |

**CONSTRUCTION YEAR AND PROJECTED COST:**

Construction Year

2034

Inflation Rate: 3.76%

Projected Construction Cost

\$385,584

**PROPOSED FUNDING:**

|               |      |           |
|---------------|------|-----------|
| State/Federal | 100% | \$385,584 |
| Other         | 0%   | \$0       |
| Impact Fees   | 0%   | \$0       |

**PROJECT SCHEDULE:**

|                      | Year |
|----------------------|------|
| Secure Funding       | 2032 |
| Acquire ROW          | 2033 |
| Complete Engineering | 2033 |
| Begin Construction   | 2034 |

**TRANSPORTATION DISTRICT COST:**

|                   |     |     |
|-------------------|-----|-----|
| Western District  | 50% | \$0 |
| Eastern District  | 50% | \$0 |
| Southern District | 0%  | \$0 |

**REMARKS:**



# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

| Project Number                         |  | I15B         | Done By: BDE             |                           | Checked: MJR |              |
|--|--|--------------|--------------------------|---------------------------|--------------|--------------|
| Description                            |  | Cost         | Unit                     | Quantity                  | Total        |              |
| Construction Items                     |  |              |                          |                           |              |              |
| Traffic Signals                        |  |              |                          |                           |              |              |
| New Signal (4-way)                     |  | \$200,000.00 | Each                     | 0                         | \$0.00       |              |
| New Signal (3-way)                     |  | \$150,000.00 | Each                     | 0                         | \$0.00       |              |
| Signal Modifications                   |  | \$20,000.00  | Each                     | 1                         | \$20,000.00  |              |
| Emergency Vehicle Preemption Only      |  | \$10,000.00  | Each                     | 0                         | \$0.00       |              |
| Pavement                               |  |              |                          |                           |              |              |
| 1.5" Pavement Overlay and Milling      |  | \$7.00       | Square Yard              | 0                         | \$0.00       |              |
| New Pavement - Arterial Roads          |  | \$46.00      | Square Yard              | 533                       | \$24,518.00  |              |
| New Pavement - Collector Roads         |  | \$40.00      | Square Yard              | 0                         | \$0.00       |              |
| New Pavement - Local Commercial Roads  |  | \$34.00      | Square Yard              | 0                         | \$0.00       |              |
| New Pavement - Local Residential Roads |  | \$29.00      | Square Yard              | 0                         | \$0.00       |              |
| 4" PBD                                 |  | \$7.25       | Linear Foot              | 600                       | \$4,350.00   |              |
| Excavation                             |  |              |                          |                           |              |              |
| Excavation (Borrow)                    |  | \$12.00      | Cubic Yard               | 0                         | \$0.00       |              |
| Drainage                               |  |              |                          |                           |              |              |
| Inlet/Manhole                          |  | \$2,400.00   | Each                     | 2                         | \$4,800.00   |              |
| Pipe and Trenching                     |  | \$55.00      | Linear Foot              | 0                         | \$0.00       |              |
| Culvert                                |  | \$700.00     | Linear Foot              | 0                         | \$0.00       |              |
| Pavement Markings                      |  |              |                          |                           |              |              |
| 4" Pavement Markings                   |  | \$2.00       | Linear Foot              | 2600                      | \$5,200.00   |              |
| 8" Pavement Markings                   |  | \$8.00       | Linear Foot              | 0                         | \$0.00       |              |
| Miscellaneous                          |  |              |                          |                           |              |              |
| Guide Rail                             |  | \$18.00      | Linear Foot              | 0                         | \$0.00       |              |
| Concrete Curb                          |  | \$35.00      | Linear Foot              | 700                       | \$24,500.00  |              |
| Bituminous Wedge Curb                  |  | \$7.00       | Linear Foot              | 0                         | \$0.00       |              |
| Other Miscellaneous                    |  |              |                          |                           |              |              |
| Post Mounted Signs                     |  | \$200.00     | Each                     | 8                         | \$1,600.00   |              |
| Other                                  |  |              |                          |                           | \$0.00       |              |
|  |  |              |                          | Construction Subtotal:    |              | \$84,968.00  |
| Mobilization                           |  | 5.0%         | Of Construction Total    |                           |              | \$4,248.40   |
| Maintenance and Protection of Traffic  |  | 5.0%         | Of Construction Total    |                           |              | \$4,248.40   |
| Contingency                            |  | 15.0%        | Of Construction Total    |                           |              | \$12,745.20  |
|  |  |              |                          | Total Construction:       |              | \$106,210.00 |
| Utility Relocation                     |  |              |                          |                           |              |              |
| Utility Pole Relocation                |  | \$3,300.00   | Each                     | 5                         | \$16,500.00  |              |
| Electric Service                       |  | \$2,000.00   | Each                     | 0                         | \$0.00       |              |
| Water/ Gas Valves                      |  | \$250.00     | Each                     | 0                         | \$0.00       |              |
| Fire Hydrant Relocation                |  | \$1,000.00   | Each                     | 0                         | \$0.00       |              |
| High Tension Electric Poles            |  | \$130,000.00 | Each                     | 0                         | \$0.00       |              |
| Sanitary Manhole                       |  | \$2,400.00   | Each                     | 0                         | \$0.00       |              |
| Street Light                           |  | \$5,000.00   | Project                  | 1                         | \$5,000.00   |              |
|  |  |              |                          | Utility Subtotal:         |              | \$21,500.00  |
| Contingency                            |  | 15.0%        | Of Utility Subtotal      |                           |              | \$3,225.00   |
|  |  |              |                          | Total Utility Relocation: |              | \$24,725.00  |
| Right-of-Way                           |  |              |                          |                           |              |              |
| Right-of-Way - Urban                   |  | \$150,000.00 | Acres                    | 0                         | \$0.00       |              |
| Right-of-Way - Rural                   |  | \$120,000.00 | Acres                    | 0                         | \$0.00       |              |
| Construction Easement (75% of ROW)     |  |              | Acres                    | 0                         | \$0.00       |              |
| Structures                             |  | \$180,000.00 | Each                     | 0                         | \$0.00       |              |
|  |  |              |                          | Right-of-Way Subtotal:    |              | \$0.00       |
| Contingency                            |  | 15.0%        | Of Right-of-Way Subtotal |                           |              | \$0.00       |
|  |  |              |                          | Total Right-of-Way:       |              | \$0.00       |
| Engineering                            |  | 11.5%        | Of Construction Total    |                           |              | \$12,214.15  |
| Construction Inspection                |  | 8.0%         | Of Construction Total    |                           |              | \$8,496.80   |
| Administration and Planning            |  | 1.5%         | Of Construction Total    |                           |              | \$1,593.15   |
|  |  |              |                          | Total Project Cost:       |              | \$153,239.10 |

## EXHIBIT "B" - continued

PROJECT CODE: I15C

TRANSPORTATION DISTRICT: Eastern/Western District

**LOCATION:**

Route 272 & Route 897

**DEFICIENCY:**

The current intersection geometry is deficient with 2034 base traffic volumes.

**PROPOSED IMPROVEMENTS:**

Construct an eastbound right turn lane on SR 897.

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |                  |
|--------------------|------------------|
| Construction       | 64,741           |
| Utility Relocation | 15,180           |
| Right-of-Way       | 16,616           |
| Engineering        | 7,445            |
| Inspection         | 5,179            |
| Admin & Planning   | 971              |
| <b>TOTAL</b>       | <b>\$110,133</b> |

**CONSTRUCTION YEAR AND PROJECTED COST:**

|                             |           |
|-----------------------------|-----------|
| Construction Year           | 2034      |
| Projected Construction Cost | \$277,118 |

Inflation Rate: 3.76%

**PROPOSED FUNDING:**

|               |      |           |
|---------------|------|-----------|
| State/Federal | 100% | \$277,118 |
| Other         | 0%   | \$0       |
| Impact Fees   | 0%   | \$0       |

**PROJECT SCHEDULE:**

|                      | Year |
|----------------------|------|
| Secure Funding       | 2032 |
| Acquire ROW          | 2033 |
| Complete Engineering | 2033 |
| Begin Construction   | 2034 |

**TRANSPORTATION DISTRICT COST:**

|                   |     |     |
|-------------------|-----|-----|
| Western District  | 50% | \$0 |
| Eastern District  | 50% | \$0 |
| Southern District | 0%  | \$0 |

**REMARKS:**

# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

| Project Number                         |  | I15C         | Done By: BDE             |                           | Checked: MJR                  |              |
|--|--|--------------|--------------------------|---------------------------|-------------------------------|--------------|
| Description                            |  | Cost         | Unit                     | Quantity                  | Total                         |              |
| Construction Items                     |  |              |                          |                           |                               |              |
| Traffic Signals                        |  |              |                          |                           |                               |              |
| New Signal (4-way)                     |  | \$200,000.00 | Each                     | 0                         | \$0.00                        |              |
| New Signal (3-way)                     |  | \$150,000.00 | Each                     | 0                         | \$0.00                        |              |
| Signal Modifications                   |  | \$20,000.00  | Each                     | 1                         | \$20,000.00                   |              |
| Emergency Vehicle Preemption Only      |  | \$10,000.00  | Each                     | 0                         | \$0.00                        |              |
| Pavement                               |  |              |                          |                           |                               |              |
| 1.5" Pavement Overlay and Milling      |  | \$7.00       | Square Yard              | 0                         | \$0.00                        |              |
| New Pavement - Arterial Roads          |  | \$46.00      | Square Yard              | 333                       | \$15,318.00                   |              |
| New Pavement - Collector Roads         |  | \$40.00      | Square Yard              | 0                         | \$0.00                        |              |
| New Pavement - Local Commercial Roads  |  | \$34.00      | Square Yard              | 0                         | \$0.00                        |              |
| New Pavement - Local Residential Roads |  | \$29.00      | Square Yard              | 0                         | \$0.00                        |              |
| 4" PBD                                 |  | \$7.25       | Linear Foot              | 300                       | \$2,175.00                    |              |
| Excavation                             |  |              |                          |                           |                               |              |
| Excavation (Borrow)                    |  | \$12.00      | Cubic Yard               | 0                         | \$0.00                        |              |
| Drainage                               |  |              |                          |                           |                               |              |
| Inlet/Manhole                          |  | \$2,400.00   | Each                     | 1                         | \$2,400.00                    |              |
| Pipe and Trenching                     |  | \$55.00      | Linear Foot              | 0                         | \$0.00                        |              |
| Culvert                                |  | \$700.00     | Linear Foot              | 0                         | \$0.00                        |              |
| Pavement Markings                      |  |              |                          |                           |                               |              |
| 4" Pavement Markings                   |  | \$2.00       | Linear Foot              | 400                       | \$800.00                      |              |
| 8" Pavement Markings                   |  | \$8.00       | Linear Foot              | 0                         | \$0.00                        |              |
| Miscellaneous                          |  |              |                          |                           |                               |              |
| Guide Rail                             |  | \$18.00      | Linear Foot              | 0                         | \$0.00                        |              |
| Concrete Curb                          |  | \$35.00      | Linear Foot              | 300                       | \$10,500.00                   |              |
| Bituminous Wedge Curb                  |  | \$7.00       | Linear Foot              | 0                         | \$0.00                        |              |
| Other Miscellaneous                    |  |              |                          |                           |                               |              |
| Post Mounted Signs                     |  | \$200.00     | Each                     | 3                         | \$600.00                      |              |
| Other                                  |  |              |                          |                           | \$0.00                        |              |
|  |  |              |                          | Construction Subtotal:    |                               | \$51,793.00  |
| Mobilization                           |  | 5.0%         | Of Construction Total    |                           | \$2,589.65                    |              |
| Maintenance and Protection of Traffic  |  | 5.0%         | Of Construction Total    |                           | \$2,589.65                    |              |
| Contingency                            |  | 15.0%        | Of Construction Total    |                           | \$7,768.95                    |              |
|  |  |              |                          | Total Construction:       |                               | \$64,741.25  |
| Utility Relocation                     |  |              |                          |                           |                               |              |
| Utility Pole Relocation                |  | \$3,300.00   | Each                     | 4                         | \$13,200.00                   |              |
| Electric Service                       |  | \$2,000.00   | Each                     | 0                         | \$0.00                        |              |
| Water/ Gas Valves                      |  | \$250.00     | Each                     | 0                         | EXHIBIT "B" - continue \$0.00 |              |
| Fire Hydrant Relocation                |  | \$1,000.00   | Each                     | 0                         | \$0.00                        |              |
| High Tension Electric Poles            |  | \$130,000.00 | Each                     | 0                         | \$0.00                        |              |
| Sanitary Manhole                       |  | \$2,400.00   | Each                     | 0                         | \$0.00                        |              |
| Other                                  |  | \$5,000.00   | Project                  | 0                         | \$0.00                        |              |
|  |  |              |                          | Utility Subtotal:         |                               | \$13,200.00  |
| Contingency                            |  | 15.0%        | Of Utility Subtotal      |                           | \$1,980.00                    |              |
|  |  |              |                          | Total Utility Relocation: |                               | \$15,180.00  |
| Right-of-Way                           |  |              |                          |                           |                               |              |
| Right-of-Way - Urban                   |  | \$150,000.00 | Acres                    | 0                         | \$0.00                        |              |
| Right-of-Way - Rural                   |  | \$120,000.00 | Acres                    | 0.068801653               | \$8,256.20                    |              |
| Construction Easement (75% of ROW)     |  |              | Acres                    | 0                         | \$6,192.15                    |              |
| Structures                             |  | \$180,000.00 | Each                     | 0                         | \$0.00                        |              |
|  |  |              |                          | Right-of-Way Subtotal:    |                               | \$14,448.35  |
| Contingency                            |  | 15.0%        | Of Right-of-Way Subtotal |                           | \$2,167.25                    |              |
|  |  |              |                          | Total Right-of-Way:       |                               | \$16,615.60  |
| Engineering                            |  | 11.5%        | Of Construction Total    |                           | \$7,445.24                    |              |
| Construction Inspection                |  | 8.0%         | Of Construction Total    |                           | \$5,179.30                    |              |
| Administration and Planning            |  | 1.5%         | Of Construction Total    |                           | \$971.12                      |              |
|  |  |              |                          | Total Project Cost:       |                               | \$110,132.51 |

## EXHIBIT "B" - continued

PROJECT CODE: S24

TRANSPORTATION DISTRICT:

Eastern District

**LOCATION:**

Route 897, east of Route 272

**DEFICIENCY:**

The current roadway segment is deficient with 2034 base traffic volumes.

**PROPOSED IMPROVEMENTS:**

Construct additional thru lanes.

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |             |
|--------------------|-------------|
| Construction       | 2,157,603   |
| Utility Relocation | 116,150     |
| Right-of-Way       | 739,248     |
| Engineering        | 248,124     |
| Inspection         | 172,608     |
| Admin & Planning   | 32,364      |
| TOTAL              | \$3,466,097 |

**CONSTRUCTION YEAR AND PROJECTED COST:**

Construction Year

2034

Inflation Rate: 3.76%

Projected Construction Cost

\$8,721,472

**PROPOSED FUNDING:**

|               |      |             |
|---------------|------|-------------|
| State/Federal | 100% | \$8,721,472 |
| Other         | 0%   | \$0         |
| Impact Fees   | 0%   | \$0         |

**PROJECT SCHEDULE:**

|                      | Year |
|----------------------|------|
| Secure Funding       | 2032 |
| Acquire ROW          | 2033 |
| Complete Engineering | 2033 |
| Begin Construction   | 2034 |

**TRANSPORTATION DISTRICT COST:**

|                   |      |     |
|-------------------|------|-----|
| Western District  | 0%   | \$0 |
| Eastern District  | 100% | \$0 |
| Southern District | 0%   | \$0 |

**REMARKS:**

# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

**Project Number** **S24**

Done By: BDE

Checked: MJR

| Description                                  | Cost         | Unit        | Quantity                 | Total                 |
|--|--------------|-------------|--------------------------|-----------------------|
| <b>Construction Items</b>                    |              |             |                          |                       |
| <b>Traffic Signals</b>                       |              |             |                          |                       |
| New Signal (4-way)                           | \$200,000.00 | Each        | 1                        | \$200,000.00          |
| New Signal (3-way)                           | \$150,000.00 | Each        | 0                        | \$0.00                |
| Signal Modifications                         | \$20,000.00  | Each        | 0                        | \$0.00                |
| Emergency Vehicle Preemption Only            | \$10,000.00  | Each        | 0                        | \$0.00                |
| <b>Pavement</b>                              |              |             |                          |                       |
| 1.5" Pavement Overlay and Milling            | \$7.00       | Square Yard | 0                        | \$0.00                |
| New Pavement - Arterial Roads                | \$46.00      | Square Yard | 10667                    | \$490,682.00          |
| New Pavement - Collector Roads               | \$40.00      | Square Yard | 0                        | \$0.00                |
| New Pavement - Local Commercial Roads        | \$34.00      | Square Yard | 0                        | \$0.00                |
| New Pavement - Local Residential Roads       | \$29.00      | Square Yard | 0                        | \$0.00                |
| 4" PBD                                       | \$7.25       | Linear Foot | 8000                     | \$58,000.00           |
| <b>Excavation</b>                            |              |             |                          |                       |
| Excavation (Borrow)                          | \$12.00      | Cubic Yard  | 0                        | \$0.00                |
| <b>Drainage</b>                              |              |             |                          |                       |
| Inlet/Manhole                                | \$2,400.00   | Each        | 10                       | \$24,000.00           |
| Pipe and Trenching                           | \$55.00      | Linear Foot | 0                        | \$0.00                |
| Culvert                                      | \$700.00     | Linear Foot | 0                        | \$0.00                |
| <b>Pavement Markings</b>                     |              |             |                          |                       |
| 4" Pavement Markings                         | \$2.00       | Linear Foot | 16000                    | \$32,000.00           |
| 8" Pavement Markings                         | \$8.00       | Linear Foot | 0                        | \$0.00                |
| <b>Miscellaneous</b>                         |              |             |                          |                       |
| Guide Rail                                   | \$18.00      | Linear Foot | 400                      | \$7,200.00            |
| Concrete Curb                                | \$35.00      | Linear Foot | 4000                     | \$140,000.00          |
| Bituminous Wedge Curb                        | \$7.00       | Linear Foot | 0                        | \$0.00                |
| <b>Other Miscellaneous</b>                   |              |             |                          |                       |
| Post Mounted Signs                           | \$200.00     | Each        | 21                       | \$4,200.00            |
| Widen Bridge Structure                       | \$3,850.00   | SY          | 200                      | \$770,000.00          |
| <b>Construction Subtotal:</b>                |              |             |                          | <b>\$1,726,082.00</b> |
| <b>Mobilization</b>                          |              | 5.0%        | Of Construction Total    | \$86,304.10           |
| <b>Maintenance and Protection of Traffic</b> |              | 5.0%        | Of Construction Total    | \$86,304.10           |
| <b>Contingency</b>                           |              | 15.0%       | Of Construction Total    | \$258,912.30          |
| <b>Total Construction:</b>                   |              |             |                          | <b>\$2,157,602.50</b> |
| <b>Utility Relocation</b>                    |              |             |                          |                       |
| Utility Pole Relocation                      | \$3,300.00   | Each        | 30                       | \$99,000.00           |
| Electric Service                             | \$2,000.00   | Each        | 0                        | \$0.00                |
| Water/ Gas Valves                            | \$250.00     | Each        | 0                        | \$0.00                |
| Fire Hydrant Relocation                      | \$1,000.00   | Each        | 2                        | \$2,000.00            |
| High Tension Electric Poles                  | \$130,000.00 | Each        | 0                        | \$0.00                |
| Sanitary Manhole                             | \$2,400.00   | Each        | 0                        | \$0.00                |
| Other  | \$5,000.00   | Project     | 0                        | \$0.00                |
| <b>Utility Subtotal:</b>                     |              |             |                          | <b>\$101,000.00</b>   |
| <b>Contingency</b>                           |              | 15.0%       | Of Utility Subtotal      | \$15,150.00           |
| <b>Total Utility Relocation:</b>             |              |             |                          | <b>\$116,150.00</b>   |
| <b>Right-of-Way</b>                          |              |             |                          |                       |
| Right-of-Way - Urban                         | \$150,000.00 | Acres       | 0                        | \$0.00                |
| Right-of-Way - Rural                         | \$120,000.00 | Acres       | 2.20392562               | \$264,471.07          |
| Construction Easement (75% of ROW)           |              | Acres       | 0                        | \$198,353.31          |
| Structures                                   | \$180,000.00 | Each        | 1                        | \$180,000.00          |
| <b>Right-of-Way Subtotal:</b>                |              |             |                          | <b>\$642,824.38</b>   |
| <b>Contingency</b>                           |              | 15.0%       | Of Right-of-Way Subtotal | \$96,423.66           |
| <b>Total Right-of-Way:</b>                   |              |             |                          | <b>\$739,248.04</b>   |
| <b>Engineering</b>                           |              | 11.5%       | Of Construction Total    | \$248,124.29          |
| <b>Construction Inspection</b>               |              | 8.0%        | Of Construction Total    | \$172,608.20          |
| <b>Administration and Planning</b>           |              | 1.5%        | Of Construction Total    | \$32,364.04           |
| <b>Total Project Cost:</b>                   |              |             |                          | <b>\$3,466,097.06</b> |

## EXHIBIT "B" - continued

PROJECT CODE: 125

TRANSPORTATION DISTRICT:

Western District

**LOCATION:**

Stevens Road (SR 1045) & Wabash Road (T-669) / Indiantown Road (West Cocalico Township)

**DEFICIENCY:**

The current intersection is deficient with 2034 base traffic volumes.

**PROPOSED IMPROVEMENTS:**

Install a traffic signal.

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |           |
|--------------------|-----------|
| Construction       | 250,000   |
| Utility Relocation | 0         |
| Right-of-Way       | 0         |
| Engineering        | 28,750    |
| Inspection         | 20,000    |
| Admin & Planning   | 3,750     |
| TOTAL              | \$302,500 |

**CONSTRUCTION YEAR AND PROJECTED COST:**

Construction Year

2024

Inflation Rate: 3.76%

Projected Construction Cost

\$526,229

**PROPOSED FUNDING:**

|               |      |           |
|---------------|------|-----------|
| State/Federal | 0%   | \$0       |
| Other         | 100% | \$526,229 |
| Impact Fees   | 0%   | \$0       |

**PROJECT SCHEDULE:**

|                      | Year |
|----------------------|------|
| Secure Funding       | 2022 |
| Acquire ROW          | 2023 |
| Complete Engineering | 2023 |
| Begin Construction   | 2024 |

**TRANSPORTATION DISTRICT COST:**

|                   |      |     |
|-------------------|------|-----|
| Western District  | 100% | \$0 |
| Eastern District  | 0%   | \$0 |
| Southern District | 0%   | \$0 |

**REMARKS:**

# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

| Project Number                         |  | I25          | Done By: BDE             |                           | Checked: MJR |              |
|--|--|--------------|--------------------------|---------------------------|--------------|--------------|
| Description                            |  | Cost         | Unit                     | Quantity                  | Total        |              |
| Construction Items                     |  |              |                          |                           |              |              |
| Traffic Signals                        |  |              |                          |                           |              |              |
| New Signal (4-way)                     |  | \$200,000.00 | Each                     | 1                         | \$200,000.00 |              |
| New Signal (3-way)                     |  | \$150,000.00 | Each                     | 0                         | \$0.00       |              |
| Signal Modifications                   |  | \$20,000.00  | Each                     | 0                         | \$0.00       |              |
| Emergency Vehicle Preemption Only      |  | \$10,000.00  | Each                     | 0                         | \$0.00       |              |
| Pavement                               |  |              |                          |                           |              |              |
| 1.5" Pavement Overlay and Milling      |  | \$7.00       | Square Yard              | 0                         | \$0.00       |              |
| New Pavement - Arterial Roads          |  | \$46.00      | Square Yard              | 0                         | \$0.00       |              |
| New Pavement - Collector Roads         |  | \$40.00      | Square Yard              | 0                         | \$0.00       |              |
| New Pavement - Local Commercial Roads  |  | \$34.00      | Square Yard              | 0                         | \$0.00       |              |
| New Pavement - Local Residential Roads |  | \$29.00      | Square Yard              | 0                         | \$0.00       |              |
| 4" PBD                                 |  | \$7.25       | Linear Foot              | 0                         | \$0.00       |              |
| Excavation                             |  |              |                          |                           |              |              |
| Excavation (Borrow)                    |  | \$12.00      | Cubic Yard               | 0                         | \$0.00       |              |
| Drainage                               |  |              |                          |                           |              |              |
| Inlet/Manhole                          |  | \$2,400.00   | Each                     | 0                         | \$0.00       |              |
| Pipe and Trenching                     |  | \$55.00      | Linear Foot              | 0                         | \$0.00       |              |
| Culvert                                |  | \$700.00     | Linear Foot              | 0                         | \$0.00       |              |
| Pavement Markings                      |  |              |                          |                           |              |              |
| 4" Pavement Markings                   |  | \$2.00       | Linear Foot              | 0                         | \$0.00       |              |
| 8" Pavement Markings                   |  | \$8.00       | Linear Foot              | 0                         | \$0.00       |              |
| Miscellaneous                          |  |              |                          |                           |              |              |
| Guide Rail                             |  | \$18.00      | Linear Foot              | 0                         | \$0.00       |              |
| Concrete Curb                          |  | \$35.00      | Linear Foot              | 0                         | \$0.00       |              |
| Bituminous Wedge Curb                  |  | \$7.00       | Linear Foot              | 0                         | \$0.00       |              |
| Other Miscellaneous                    |  |              |                          |                           |              |              |
| Post Mounted Signs                     |  | \$200.00     | Each                     | 0                         | \$0.00       |              |
| Other                                  |  |              |                          |                           | \$0.00       |              |
|  |  |              |                          | Construction Subtotal:    |              | \$200,000.00 |
| Mobilization                           |  | 5.0%         | Of Construction Total    |                           | \$10,000.00  |              |
| Maintenance and Protection of Traffic  |  | 5.0%         | Of Construction Total    |                           | \$10,000.00  |              |
| Contingency                            |  | 15.0%        | Of Construction Total    |                           | \$30,000.00  |              |
|  |  |              |                          | Total Construction:       |              | \$250,000.00 |
| Utility Relocation                     |  |              |                          |                           |              |              |
| Utility Pole Relocation                |  | \$3,300.00   | Each                     | 0                         | \$0.00       |              |
| Electric Service                       |  | \$2,000.00   | Each                     | 0                         | \$0.00       |              |
| Water/ Gas Valves                      |  | \$250.00     | Each                     | 0                         | \$0.00       |              |
| Fire Hydrant Relocation                |  | \$1,000.00   | Each                     | 0                         | \$0.00       |              |
| High Tension Electric Poles            |  | \$130,000.00 | Each                     | 0                         | \$0.00       |              |
| Sanitary Manhole                       |  | \$2,400.00   | Each                     | 0                         | \$0.00       |              |
| Other                                  |  | \$5,000.00   | Project                  | 0                         | \$0.00       |              |
|  |  |              |                          | Utility Subtotal:         |              | \$0.00       |
| Contingency                            |  | 15.0%        | Of Utility Subtotal      |                           | \$0.00       |              |
|  |  |              |                          | Total Utility Relocation: |              | \$0.00       |
| Right-of-Way                           |  |              |                          |                           |              |              |
| Right-of-Way - Urban                   |  | \$150,000.00 | Acres                    | 0                         | \$0.00       |              |
| Right-of-Way - Rural                   |  | \$120,000.00 | Acres                    | 0                         | \$0.00       |              |
| Construction Easement (75% of ROW)     |  |              | Acres                    | 0                         | \$0.00       |              |
| Structures                             |  | \$180,000.00 | Each                     | 0                         | \$0.00       |              |
|  |  |              |                          | Right-of-Way Subtotal:    |              | \$0.00       |
| Contingency                            |  | 15.0%        | Of Right-of-Way Subtotal |                           | \$0.00       |              |
|  |  |              |                          | Total Right-of-Way:       |              | \$0.00       |
| Engineering                            |  | 11.5%        | Of Construction Total    |                           | \$28,750.00  |              |
| Construction Inspection                |  | 8.0%         | Of Construction Total    |                           | \$20,000.00  |              |
| Administration and Planning            |  | 1.5%         | Of Construction Total    |                           | \$3,750.00   |              |
|  |  |              |                          | Total Project Cost:       |              | \$302,500.00 |

## EXHIBIT "B" - continued

PROJECT CODE: 126

TRANSPORTATION DISTRICT:

Western District

**LOCATION:**

Stevens Road (SR 1045) / Line Road (SR 1045) & Sevens Road (SR 1030) / south Main Street (West Cocalico

**DEFICIENCY:**

The current intersection is deficient with 2034 base traffic volumes.

**PROPOSED IMPROVEMENTS:**

Install a traffic signal.

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |           |
|--------------------|-----------|
| Construction       | 250,000   |
| Utility Relocation | 0         |
| Right-of-Way       | 0         |
| Engineering        | 28,750    |
| Inspection         | 20,000    |
| Admin & Planning   | 3,750     |
| TOTAL              | \$302,500 |

**CONSTRUCTION YEAR AND PROJECTED COST:**

Construction Year

2024

Inflation Rate: 3.76%

Projected Construction Cost

\$526,229

**PROPOSED FUNDING:**

|               |      |           |
|---------------|------|-----------|
| State/Federal | 0%   | \$0       |
| Other         | 100% | \$526,229 |
| Impact Fees   | 0%   | \$0       |

**PROJECT SCHEDULE:**

|                      | Year |
|----------------------|------|
| Secure Funding       | 2022 |
| Acquire ROW          | 2023 |
| Complete Engineering | 2023 |
| Begin Construction   | 2024 |

**TRANSPORTATION DISTRICT COST:**

|                   |      |     |
|-------------------|------|-----|
| Western District  | 100% | \$0 |
| Eastern District  | 0%   | \$0 |
| Southern District | 0%   | \$0 |

**REMARKS:**



# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

**Project Number** **I26**

Done By: BDE

Checked: MJR

| Description                                  | Cost         | Unit                     | Quantity | Total        |
|--|--------------|--------------------------|----------|--------------|
| <b>Construction Items</b>                    |              |                          |          |              |
| <b>Traffic Signals</b>                       |              |                          |          |              |
| New Signal (4-way)                           | \$200,000.00 | Each                     | 1        | \$200,000.00 |
| New Signal (3-way)                           | \$150,000.00 | Each                     | 0        | \$0.00       |
| Signal Modifications                         | \$20,000.00  | Each                     | 0        | \$0.00       |
| Emergency Vehicle Preemption Only            | \$10,000.00  | Each                     | 0        | \$0.00       |
| <b>Pavement</b>                              |              |                          |          |              |
| 1.5" Pavement Overlay and Milling            | \$7.00       | Square Yard              | 0        | \$0.00       |
| New Pavement - Arterial Roads                | \$46.00      | Square Yard              | 0        | \$0.00       |
| New Pavement - Collector Roads               | \$40.00      | Square Yard              | 0        | \$0.00       |
| New Pavement - Local Commercial Roads        | \$34.00      | Square Yard              | 0        | \$0.00       |
| New Pavement - Local Residential Roads       | \$29.00      | Square Yard              | 0        | \$0.00       |
| 4" PBD                                       | \$7.25       | Linear Foot              | 0        | \$0.00       |
| <b>Excavation</b>                            |              |                          |          |              |
| Excavation (Borrow)                          | \$12.00      | Cubic Yard               | 0        | \$0.00       |
| <b>Drainage</b>                              |              |                          |          |              |
| Inlet/Manhole                                | \$2,400.00   | Each                     | 0        | \$0.00       |
| Pipe and Trenching                           | \$55.00      | Linear Foot              | 0        | \$0.00       |
| Culvert                                      | \$700.00     | Linear Foot              | 0        | \$0.00       |
| <b>Pavement Markings</b>                     |              |                          |          |              |
| 4" Pavement Markings                         | \$2.00       | Linear Foot              | 0        | \$0.00       |
| 8" Pavement Markings                         | \$8.00       | Linear Foot              | 0        | \$0.00       |
| <b>Miscellaneous</b>                         |              |                          |          |              |
| Guide Rail                                   | \$18.00      | Linear Foot              | 0        | \$0.00       |
| Concrete Curb                                | \$35.00      | Linear Foot              | 0        | \$0.00       |
| Bituminous Wedge Curb                        | \$7.00       | Linear Foot              | 0        | \$0.00       |
| <b>Other Miscellaneous</b>                   |              |                          |          |              |
| Post Mounted Signs                           | \$200.00     | Each                     | 0        | \$0.00       |
| Other  |              |                          |          | \$0.00       |
| <b>Construction Subtotal:</b>                |              |                          |          | \$200,000.00 |
| <b>Mobilization</b>                          | 5.0%         | Of Construction Total    |          | \$10,000.00  |
| <b>Maintenance and Protection of Traffic</b> | 5.0%         | Of Construction Total    |          | \$10,000.00  |
| <b>Contingency</b>                           | 15.0%        | Of Construction Total    |          | \$30,000.00  |
| <b>Total Construction:</b>                   |              |                          |          | \$250,000.00 |
| <b>Utility Relocation</b>                    |              |                          |          |              |
| Utility Pole Relocation                      | \$3,300.00   | Each                     | 0        | \$0.00       |
| Electric Service                             | \$2,000.00   | Each                     | 0        | \$0.00       |
| Water/ Gas Valves                            | \$250.00     | Each                     | 0        | \$0.00       |
| Fire Hydrant Relocation                      | \$1,000.00   | Each                     | 0        | \$0.00       |
| High Tension Electric Poles                  | \$130,000.00 | Each                     | 0        | \$0.00       |
| Sanitary Manhole                             | \$2,400.00   | Each                     | 0        | \$0.00       |
| Other  | \$5,000.00   | Project                  | 0        | \$0.00       |
| <b>Utility Subtotal:</b>                     |              |                          |          | \$0.00       |
| <b>Contingency</b>                           | 15.0%        | Of Utility Subtotal      |          | \$0.00       |
| <b>Total Utility Relocation:</b>             |              |                          |          | \$0.00       |
| <b>Right-of-Way</b>                          |              |                          |          |              |
| Right-of-Way - Urban                         | \$150,000.00 | Acres                    | 0        | \$0.00       |
| Right-of-Way - Rural                         | \$120,000.00 | Acres                    | 0        | \$0.00       |
| Construction Easement (75% of ROW)           |              | Acres                    | 0        | \$0.00       |
| Structures                                   | \$180,000.00 | Each                     | 0        | \$0.00       |
| <b>Right-of-Way Subtotal:</b>                |              |                          |          | \$0.00       |
| <b>Contingency</b>                           | 15.0%        | Of Right-of-Way Subtotal |          | \$0.00       |
| <b>Total Right-of-Way:</b>                   |              |                          |          | \$0.00       |
| <b>Engineering</b>                           | 11.5%        | Of Construction Total    |          | \$28,750.00  |
| <b>Construction Inspection</b>               | 8.0%         | Of Construction Total    |          | \$20,000.00  |
| <b>Administration and Planning</b>           | 1.5%         | Of Construction Total    |          | \$3,750.00   |
| <b>Total Project Cost:</b>                   |              |                          |          | \$302,500.00 |

## EXHIBIT "B" - continued

PROJECT CODE: S29

TRANSPORTATION DISTRICT:

Southern District

**LOCATION:**

Church Street (SR 1051), between Red Run Road (SR 1044) & Napierville

**DEFICIENCY:**

The current roadway segment is deficient with 2034 base traffic volumes.

**PROPOSED IMPROVEMENTS:**

Widen to 12' lanes with 4' shoulders.

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |                  |
|--------------------|------------------|
| Construction       | 196,600          |
| Utility Relocation | 99,820           |
| Right-of-Way       | 0                |
| Engineering        | 22,609           |
| Inspection         | 15,728           |
| Admin & Planning   | 2,949            |
| <b>TOTAL</b>       | <b>\$337,706</b> |

**CONSTRUCTION YEAR AND PROJECTED COST:**

Construction Year

2034

Inflation Rate: 3.76%

Projected Construction Cost

\$849,744

**PROPOSED FUNDING:**

State/Federal

100%

\$849,744

Other

0%

\$0

Impact Fees

0%

\$0

**PROJECT SCHEDULE:**

Secure Funding

Year

2032

Acquire ROW

2033

Complete Engineering

2033

Begin Construction

2034

**TRANSPORTATION DISTRICT COST:**

Western District

0%

\$0

Eastern District

0%

\$0

Southern District

100%

\$0

**REMARKS:**

# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

**Project Number** **S29** Done By: BDE Checked: MJR

| Description                                  | Cost         | Unit        | Quantity                 | Total               |
|--|--------------|-------------|--------------------------|---------------------|
| <b>Construction Items</b>                    |              |             |                          |                     |
| <b>Traffic Signals</b>                       |              |             |                          |                     |
| New Signal (4-way)                           | \$200,000.00 | Each        | 0                        | \$0.00              |
| New Signal (3-way)                           | \$150,000.00 | Each        | 0                        | \$0.00              |
| Signal Modifications                         | \$20,000.00  | Each        | 0                        | \$0.00              |
| Emergency Vehicle Preemption Only            | \$10,000.00  | Each        | 0                        | \$0.00              |
| <b>Pavement</b>                              |              |             |                          |                     |
| 1.5" Pavement Overlay and Milling            | \$7.00       | Square Yard | 0                        | \$0.00              |
| New Pavement - Arterial Roads                | \$46.00      | Square Yard | 0                        | \$0.00              |
| New Pavement - Collector Roads               | \$40.00      | Square Yard | 2667                     | \$106,680.00        |
| New Pavement - Local Commercial Roads        | \$34.00      | Square Yard | 0                        | \$0.00              |
| New Pavement - Local Residential Roads       | \$29.00      | Square Yard | 0                        | \$0.00              |
| 4" PBD                                       | \$7.25       | Linear Foot | 4000                     | \$29,000.00         |
| <b>Excavation</b>                            |              |             |                          |                     |
| Excavation (Borrow)                          | \$12.00      | Cubic Yard  | 0                        | \$0.00              |
| <b>Drainage</b>                              |              |             |                          |                     |
| Inlet/Manhole                                | \$2,400.00   | Each        | 8                        | \$19,200.00         |
| Pipe and Trenching                           | \$55.00      | Linear Foot | 0                        | \$0.00              |
| Culvert                                      | \$700.00     | Linear Foot | 0                        | \$0.00              |
| <b>Pavement Markings</b>                     |              |             |                          |                     |
| 4" Pavement Markings                         | \$2.00       | Linear Foot | 0                        | \$0.00              |
| 8" Pavement Markings                         | \$8.00       | Linear Foot | 0                        | \$0.00              |
| <b>Miscellaneous</b>                         |              |             |                          |                     |
| Guide Rail                                   | \$18.00      | Linear Foot | 0                        | \$0.00              |
| Concrete Curb                                | \$35.00      | Linear Foot | 0                        | \$0.00              |
| Bituminous Wedge Curb                        | \$7.00       | Linear Foot | 0                        | \$0.00              |
| <b>Other Miscellaneous</b>                   |              |             |                          |                     |
| Post Mounted Signs                           | \$200.00     | Each        | 12                       | \$2,400.00          |
| Other  |              |             |                          | \$0.00              |
| <b>Construction Subtotal:</b>                |              |             |                          | <b>\$157,280.00</b> |
| <b>Mobilization</b>                          |              | 5.0%        | Of Construction Total    | \$7,864.00          |
| <b>Maintenance and Protection of Traffic</b> |              | 5.0%        | Of Construction Total    | \$7,864.00          |
| <b>Contingency</b>                           |              | 15.0%       | Of Construction Total    | \$23,592.00         |
| <b>Total Construction:</b>                   |              |             |                          | <b>\$196,600.00</b> |
| <b>Utility Relocation</b>                    |              |             |                          |                     |
| Utility Pole Relocation                      | \$3,300.00   | Each        | 26                       | \$85,800.00         |
| Electric Service                             | \$2,000.00   | Each        | 0                        | \$0.00              |
| Water/ Gas Valves                            | \$250.00     | Each        | 0                        | \$0.00              |
| Fire Hydrant Relocation                      | \$1,000.00   | Each        | 1                        | \$1,000.00          |
| High Tension Electric Poles                  | \$130,000.00 | Each        | 0                        | \$0.00              |
| Sanitary Manhole                             | \$2,400.00   | Each        | 0                        | \$0.00              |
| Other  | \$5,000.00   | Project     | 0                        | \$0.00              |
| <b>Utility Subtotal:</b>                     |              |             |                          | <b>\$86,800.00</b>  |
| <b>Contingency</b>                           |              | 15.0%       | Of Utility Subtotal      | \$13,020.00         |
| <b>Total Utility Relocation:</b>             |              |             |                          | <b>\$99,820.00</b>  |
| <b>Right-of-Way</b>                          |              |             |                          |                     |
| Right-of-Way - Urban                         | \$150,000.00 | Acres       | 0                        | \$0.00              |
| Right-of-Way - Rural                         | \$120,000.00 | Acres       | 0                        | \$0.00              |
| Construction Easement (75% of ROW)           |              | Acres       | 0                        | \$0.00              |
| Structures                                   | \$180,000.00 | Each        | 0                        | \$0.00              |
| <b>Right-of-Way Subtotal:</b>                |              |             |                          | <b>\$0.00</b>       |
| <b>Contingency</b>                           |              | 15.0%       | Of Right-of-Way Subtotal | \$0.00              |
| <b>Total Right-of-Way:</b>                   |              |             |                          | <b>\$0.00</b>       |
| <b>Engineering</b>                           |              | 11.5%       | Of Construction Total    | \$22,609.00         |
| <b>Construction Inspection</b>               |              | 8.0%        | Of Construction Total    | \$15,728.00         |
| <b>Administration and Planning</b>           |              | 1.5%        | Of Construction Total    | \$2,949.00          |
| <b>Total Project Cost:</b>                   |              |             |                          | <b>\$337,706.00</b> |

## EXHIBIT "B" - continued

PROJECT CODE: S01

TRANSPORTATION DISTRICT:

Western District

**LOCATION:**

Denver Road Bridge (T-901)

**DEFICIENCY:**

The current roadway segment is deficient with 2034 projected traffic volumes.

**PROPOSED IMPROVEMENTS:**

Widen to 12' lanes with 6' shoulders (upgrade to community collector)

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |                    |
|--------------------|--------------------|
| Construction       | 804,938            |
| Utility Relocation | 7,590              |
| Right-of-Way       | 53,130             |
| Engineering        | 201,234            |
| Inspection         | 80,494             |
| Admin & Planning   | 12,074             |
| <b>TOTAL</b>       | <b>\$1,159,460</b> |

**CONSTRUCTION YEAR AND PROJECTED COST:**

Construction Year

2014

Inflation Rate: 3.76%

Projected Construction Cost

\$1,394,458

**PROPOSED FUNDING:**

|               |      |             |
|---------------|------|-------------|
| State/Federal | 0%   | \$0         |
| Other         | 0%   | \$0         |
| Impact Fees   | 100% | \$1,394,458 |

**PROJECT SCHEDULE:**

|                      | Year |
|----------------------|------|
| Secure Funding       | 2012 |
| Acquire ROW          | 2012 |
| Complete Engineering | 2013 |
| Begin Construction   | 2014 |

**TRANSPORTATION DISTRICT COST:**

|                   |      |             |
|-------------------|------|-------------|
| Western District  | 100% | \$1,394,458 |
| Eastern District  | 0%   | \$0         |
| Southern District | 0%   | \$0         |

**REMARKS:**

# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

| Project Number                         |  | S01          | Done By: BDE             |                           | Checked: MJR |                |
|--|--|--------------|--------------------------|---------------------------|--------------|----------------|
| Description                            |  | Cost         | Unit                     | Quantity                  | Total        |                |
| Construction Items                     |  |              |                          |                           |              |                |
| Traffic Signals                        |  |              |                          |                           |              |                |
| New Signal (4-way)                     |  | \$200,000.00 | Each                     | 0                         | \$0.00       |                |
| New Signal (3-way)                     |  | \$150,000.00 | Each                     | 0                         | \$0.00       |                |
| Signal Modifications                   |  | \$20,000.00  | Each                     | 0                         | \$0.00       |                |
| Emergency Vehicle Preemption Only      |  | \$10,000.00  | Each                     | 0                         | \$0.00       |                |
| Pavement                               |  |              |                          |                           |              |                |
| 1.5" Pavement Overlay and Milling      |  | \$7.00       | Square Yard              | 0                         | \$0.00       |                |
| New Pavement - Arterial Roads          |  | \$46.00      | Square Yard              | 0                         | \$0.00       |                |
| New Pavement - Collector Roads         |  | \$40.00      | Square Yard              | 4000                      | \$160,000.00 |                |
| New Pavement - Local Commercial Roads  |  | \$34.00      | Square Yard              | 0                         | \$0.00       |                |
| New Pavement - Local Residential Roads |  | \$29.00      | Square Yard              | 0                         | \$0.00       |                |
| 4" PBD                                 |  | \$7.25       | Linear Foot              | 2000                      | \$14,500.00  |                |
| Excavation                             |  |              |                          |                           |              |                |
| Excavation (Borrow)                    |  | \$12.00      | Cubic Yard               | 0                         | \$0.00       |                |
| Drainage                               |  |              |                          |                           |              |                |
| Inlet/Manhole                          |  | \$2,400.00   | Each                     | 4                         | \$9,600.00   |                |
| Pipe and Trenching                     |  | \$55.00      | Linear Foot              | 222                       | \$12,210.00  |                |
| Culvert                                |  | \$700.00     | Linear Foot              | 0                         | \$0.00       |                |
| Pavement Markings                      |  |              |                          |                           |              |                |
| 4" Pavement Markings                   |  | \$0.16       | Linear Foot              | 4000                      | \$640.00     |                |
| 8" Pavement Markings                   |  | \$8.00       | Linear Foot              | 0                         | \$0.00       |                |
| Miscellaneous                          |  |              |                          |                           |              |                |
| Guide Rail                             |  | \$25.00      | Linear Foot              | 500                       | \$12,500.00  |                |
| Concrete Curb                          |  | \$35.00      | Linear Foot              | 2000                      | \$70,000.00  |                |
| Bituminous Wedge Curb                  |  | \$7.00       | Linear Foot              | 0                         | \$0.00       |                |
| Other Miscellaneous                    |  |              |                          |                           |              |                |
| Post Mounted Signs                     |  | \$200.00     | Each                     | 0                         | \$0.00       |                |
| New Bridge Structure                   |  | \$1,350.00   | Square Yard              | 270                       | \$364,500.00 |                |
|  |  |              |                          | Construction Subtotal:    |              | \$643,950.00   |
| Mobilization                           |  | 5.0%         | Of Construction Total    |                           | \$32,197.50  |                |
| Maintenance and Protection of Traffic  |  | 5.0%         | Of Construction Total    |                           | \$32,197.50  |                |
| Contingency                            |  | 15.0%        | Of Construction Total    |                           | \$96,592.50  |                |
|  |  |              |                          | Total Construction:       |              | \$804,937.50   |
| Utility Relocation                     |  |              |                          |                           |              |                |
| Utility Pole Relocation                |  | \$3,300.00   | Each                     | 2                         | \$6,600.00   |                |
| Electric Service                       |  | \$2,000.00   | Each                     | 0                         | \$0.00       |                |
| Water/ Gas Valves                      |  | \$250.00     | Each                     | 0                         | \$0.00       |                |
| Fire Hydrant Relocation                |  | \$1,000.00   | Each                     | 0                         | \$0.00       |                |
| High Tension Electric Poles            |  | \$130,000.00 | Each                     | 0                         | \$0.00       |                |
| Sanitary Manhole                       |  | \$2,400.00   | Each                     | 0                         | \$0.00       |                |
| Other                                  |  | \$5,000.00   | Project                  | 0                         | \$0.00       |                |
|  |  |              |                          | Utility Subtotal:         |              | \$6,600.00     |
| Contingency                            |  | 15.0%        | Of Utility Subtotal      |                           | \$990.00     |                |
|  |  |              |                          | Total Utility Relocation: |              | \$7,590.00     |
| Right-of-Way                           |  |              |                          |                           |              |                |
| Right-of-Way - Urban                   |  | \$150,000.00 | Acres                    | 0                         | \$0.00       |                |
| Right-of-Way - Rural                   |  | \$120,000.00 | Acres                    | 0.31                      | \$37,200.00  |                |
| Construction Easement (25% of ROW)     |  | \$30,000.00  | Acres                    | 0.3                       | \$9,000.00   |                |
| Structures                             |  | \$180,000.00 | Each                     | 0                         | \$0.00       |                |
|  |  |              |                          | Right-of-Way Subtotal:    |              | \$46,200.00    |
| Contingency                            |  | 15.0%        | Of Right-of-Way Subtotal |                           | \$6,930.00   |                |
|  |  |              |                          | Total Right-of-Way:       |              | \$53,130.00    |
| Engineering                            |  | 25.0%        | Of Construction Total    |                           | \$201,234.38 |                |
| Construction Inspection                |  | 10.0%        | Of Construction Total    |                           | \$80,493.75  |                |
| Administration and Planning            |  | 1.5%         | Of Construction Total    |                           | \$12,074.06  |                |
|  |  |              |                          | Total Project Cost:       |              | \$1,159,459.69 |

## EXHIBIT "B" - continued

PROJECT CODE: I03

TRANSPORTATION DISTRICT:

Southern District

**LOCATION:**

Church Street (SR 1051) & Reamstown Road (T-700)

**DEFICIENCY:**

The current intersection is deficient with 2034 projected traffic volumes.

**PROPOSED IMPROVEMENTS:**

Install a traffic signal.

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |                  |
|--------------------|------------------|
| Construction       | 250,000          |
| Utility Relocation | 0                |
| Right-of-Way       | 17,250           |
| Engineering        | 28,750           |
| Inspection         | 20,000           |
| Admin & Planning   | 3,750            |
| <b>TOTAL</b>       | <b>\$319,750</b> |

**CONSTRUCTION YEAR AND PROJECTED COST:**

Construction Year

2024

Projected Construction Cost

\$556,237

Inflation Rate: 3.76%

**PROPOSED FUNDING:**

State/Federal

0%

\$0

Other

33%

\$183,558

Impact Fees

67%

\$372,679

**PROJECT SCHEDULE:**

Secure Funding

Year

2022

Acquire ROW

2023

Complete Engineering

2023

Begin Construction

2024

**TRANSPORTATION DISTRICT COST:**

Western District

0%

\$0

Eastern District

0%

\$0

Southern District

100%

\$372,679

**REMARKS:**

# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

**Project Number** 103

Done By: BDE

Checked: MJR

| Description                                  | Cost         | Unit                     | Quantity | Total        |
|--|--------------|--------------------------|----------|--------------|
| <b>Construction Items</b>                    |              |                          |          |              |
| <b>Traffic Signals</b>                       |              |                          |          |              |
| New Signal (4-way)                           | \$200,000.00 | Each                     | 1        | \$200,000.00 |
| New Signal (3-way)                           | \$150,000.00 | Each                     | 0        | \$0.00       |
| Signal Modifications                         | \$20,000.00  | Each                     | 0        | \$0.00       |
| Emergency Vehicle Preemption Only            | \$10,000.00  | Each                     | 0        | \$0.00       |
| <b>Pavement</b>                              |              |                          |          |              |
| 1.5" Pavement Overlay and Milling            | \$7.00       | Square Yard              | 0        | \$0.00       |
| New Pavement - Arterial Roads                | \$46.00      | Square Yard              | 0        | \$0.00       |
| New Pavement - Collector Roads               | \$40.00      | Square Yard              | 0        | \$0.00       |
| New Pavement - Local Commercial Roads        | \$34.00      | Square Yard              | 0        | \$0.00       |
| New Pavement - Local Residential Roads       | \$29.00      | Square Yard              | 0        | \$0.00       |
| 4" PBD                                       | \$7.25       | Linear Foot              | 0        | \$0.00       |
| <b>Excavation</b>                            |              |                          |          |              |
| Excavation (Borrow)                          | \$12.00      | Cubic Yard               | 0        | \$0.00       |
| <b>Drainage</b>                              |              |                          |          |              |
| Inlet/Manhole                                | \$2,400.00   | Each                     | 0        | \$0.00       |
| Pipe and Trenching                           | \$55.00      | Linear Foot              | 0        | \$0.00       |
| Culvert                                      | \$700.00     | Linear Foot              | 0        | \$0.00       |
| <b>Pavement Markings</b>                     |              |                          |          |              |
| 4" Pavement Markings                         | \$2.00       | Linear Foot              | 0        | \$0.00       |
| 8" Pavement Markings                         | \$8.00       | Linear Foot              | 0        | \$0.00       |
| <b>Miscellaneous</b>                         |              |                          |          |              |
| Guide Rail                                   | \$18.00      | Linear Foot              | 0        | \$0.00       |
| Concrete Curb                                | \$35.00      | Linear Foot              | 0        | \$0.00       |
| Bituminous Wedge Curb                        | \$7.00       | Linear Foot              | 0        | \$0.00       |
| <b>Other Miscellaneous</b>                   |              |                          |          |              |
| Post Mounted Signs                           | \$200.00     | Each                     | 0        | \$0.00       |
| Other  |              |                          | 0        | \$0.00       |
| <b>Construction Subtotal:</b>                |              |                          |          | \$200,000.00 |
| <b>Mobilization</b>                          | 5.0%         | Of Construction Total    |          | \$10,000.00  |
| <b>Maintenance and Protection of Traffic</b> | 5.0%         | Of Construction Total    |          | \$10,000.00  |
| <b>Contingency</b>                           | 15.0%        | Of Construction Total    |          | \$30,000.00  |
| <b>Total Construction:</b>                   |              |                          |          | \$250,000.00 |
| <b>Utility Relocation</b>                    |              |                          |          |              |
| Utility Pole Relocation                      | \$3,300.00   | Each                     | 0        | \$0.00       |
| Electric Service                             | \$2,000.00   | Each                     | 0        | \$0.00       |
| Water/ Gas Valves                            | \$250.00     | Each                     | 0        | \$0.00       |
| Fire Hydrant Relocation                      | \$1,000.00   | Each                     | 0        | \$0.00       |
| High Tension Electric Poles                  | \$130,000.00 | Each                     | 0        | \$0.00       |
| Sanitary Manhole                             | \$2,400.00   | Each                     | 0        | \$0.00       |
| Other  | \$5,000.00   | Project                  | 0        | \$0.00       |
| <b>Utility Subtotal:</b>                     |              |                          |          | \$0.00       |
| <b>Contingency</b>                           | 15.0%        | Of Utility Subtotal      |          | \$0.00       |
| <b>Total Utility Relocation:</b>             |              |                          |          | \$0.00       |
| <b>Right-of-Way</b>                          |              |                          |          |              |
| Right-of-Way - Urban                         | \$150,000.00 | Acres                    | 0.1      | \$15,000.00  |
| Right-of-Way - Rural                         | \$120,000.00 | Acres                    | 0        | \$0.00       |
| Construction Easement (75% of ROW)           |              | Acres                    | 0        | \$0.00       |
| Structures                                   | \$180,000.00 | Each                     | 0        | \$0.00       |
| <b>Right-of-Way Subtotal:</b>                |              |                          |          | \$15,000.00  |
| <b>Contingency</b>                           | 15.0%        | Of Right-of-Way Subtotal |          | \$2,250.00   |
| <b>Total Right-of-Way:</b>                   |              |                          |          | \$17,250.00  |
| <b>Engineering</b>                           | 11.5%        | Of Construction Total    |          | \$28,750.00  |
| <b>Construction Inspection</b>               | 8.0%         | Of Construction Total    |          | \$20,000.00  |
| <b>Administration and Planning</b>           | 1.5%         | Of Construction Total    |          | \$3,750.00   |
| <b>Total Project Cost:</b>                   |              |                          |          | \$319,750.00 |



## EXHIBIT "B" - continued

PROJECT CODE: I04A

TRANSPORTATION DISTRICT: Western/Southern District

**LOCATION:**

Church Street (SR 1051) & Route 272

**DEFICIENCY:**

The current intersection geometry is deficient with 2034 projected traffic volumes.

**PROPOSED IMPROVEMENTS:**

Construct a westbound left turn lane and right turn lane, remove/install two signal poles, curb

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |                  |
|--------------------|------------------|
| Construction       | 382,000          |
| Utility Relocation | 35,535           |
| Right-of-Way       | 75,469           |
| Engineering        | 57,300           |
| Inspection         | 38,200           |
| Admin & Planning   | 5,730            |
| <b>TOTAL</b>       | <b>\$594,234</b> |

**CONSTRUCTION YEAR AND PROJECTED COST:**

|                             |           |                       |
|-----------------------------|-----------|-----------------------|
| Construction Year           | 2019      | Inflation Rate: 3.76% |
| Projected Construction Cost | \$859,522 |                       |

**PROPOSED FUNDING:**

|               |     |           |
|---------------|-----|-----------|
| State/Federal | 0%  | \$0       |
| Other         | 50% | \$429,761 |
| Impact Fees   | 50% | \$429,761 |

**PROJECT SCHEDULE:**

|                      |      |
|----------------------|------|
|                      | Year |
| Secure Funding       | 2017 |
| Acquire ROW          | 2018 |
| Complete Engineering | 2018 |
| Begin Construction   | 2019 |

**TRANSPORTATION DISTRICT COST:**

|                   |      |           |
|-------------------|------|-----------|
| Western District  | 0%   | \$0       |
| Eastern District  | 0%   | \$0       |
| Southern District | 100% | \$429,761 |

**REMARKS:**



# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

**Project Number** **I04A**

Done By: BDE

Checked: MJR

| Description                                  | Cost         | Unit        | Quantity                 | Total               |
|--|--------------|-------------|--------------------------|---------------------|
| <b>Construction Items</b>                    |              |             |                          |                     |
| <b>Traffic Signals</b>                       |              |             |                          |                     |
| New Signal (4-way)                           | \$200,000.00 | Each        | 0.5                      | \$100,000.00        |
| New Signal (3-way)                           | \$150,000.00 | Each        | 0                        | \$0.00              |
| Signal Modifications                         | \$20,000.00  | Each        | 0                        | \$0.00              |
| Emergency Vehicle Preemption Only            | \$10,000.00  | Each        | 0                        | \$0.00              |
| <b>Pavement</b>                              |              |             |                          |                     |
| 1.5" Pavement Overlay and Milling            | \$7.00       | Square Yard | 4000                     | \$28,000.00         |
| New Pavement - Arterial Roads                | \$46.00      | Square Yard | 1000                     | \$46,000.00         |
| New Pavement - Collector Roads               | \$40.00      | Square Yard | 0                        | \$0.00              |
| New Pavement - Local Commercial Roads        | \$34.00      | Square Yard | 0                        | \$0.00              |
| New Pavement - Local Residential Roads       | \$29.00      | Square Yard | 400                      | \$11,600.00         |
| 4" PBD                                       | \$7.25       | Linear Foot | 800                      | \$5,800.00          |
| <b>Excavation</b>                            |              |             |                          |                     |
| Excavation (Borrow)                          | \$12.00      | Cubic Yard  | 0                        | \$0.00              |
| <b>Drainage</b>                              |              |             |                          |                     |
| Inlet/Manhole                                | \$2,400.00   | Each        | 5                        | \$12,000.00         |
| Pipe and Trenching                           | \$55.00      | Linear Foot | 800                      | \$44,000.00         |
| Culvert                                      | \$700.00     | Linear Foot | 0                        | \$0.00              |
| <b>Pavement Markings</b>                     |              |             |                          |                     |
| 4" Pavement Markings                         | \$2.00       | Linear Foot | 2600                     | \$5,200.00          |
| 8" Pavement Markings                         | \$8.00       | Linear Foot | 0                        | \$0.00              |
| <b>Miscellaneous</b>                         |              |             |                          |                     |
| Guide Rail                                   | \$18.00      | Linear Foot | 0                        | \$0.00              |
| Concrete Curb                                | \$35.00      | Linear Foot | 1200                     | \$42,000.00         |
| Bituminous Wedge Curb                        | \$7.00       | Linear Foot | 0                        | \$0.00              |
| <b>Other Miscellaneous</b>                   |              |             |                          |                     |
| Post Mounted Signs                           | \$200.00     | Each        | 5                        | \$1,000.00          |
| Other (ADA Ramps)                            | \$2,500.00   | Each        | 4                        | \$10,000.00         |
| <b>Construction Subtotal:</b>                |              |             |                          | <b>\$305,600.00</b> |
| <b>Mobilization</b>                          |              | 5.0%        | Of Construction Total    | \$15,280.00         |
| <b>Maintenance and Protection of Traffic</b> |              | 5.0%        | Of Construction Total    | \$15,280.00         |
| <b>Contingency</b>                           |              | 15.0%       | Of Construction Total    | \$45,840.00         |
| <b>Total Construction:</b>                   |              |             |                          | <b>\$382,000.00</b> |
| <b>Utility Relocation</b>                    |              |             |                          |                     |
| Utility Pole Relocation                      | \$3,300.00   | Each        | 3                        | \$9,900.00          |
| Electric Service                             | \$2,000.00   | Each        | 0                        | \$0.00              |
| Water/ Gas Valves                            | \$250.00     | Each        | 0                        | \$0.00              |
| Fire Hydrant Relocation                      | \$1,000.00   | Each        | 1                        | \$1,000.00          |
| High Tension Electric Poles                  | \$130,000.00 | Each        | 0                        | \$0.00              |
| Sanitary Manhole                             | \$2,400.00   | Each        | 0                        | \$0.00              |
| Other  | \$5,000.00   | Project     | 4                        | \$20,000.00         |
| <b>Utility Subtotal:</b>                     |              |             |                          | <b>\$30,900.00</b>  |
| <b>Contingency</b>                           |              | 15.0%       | Of Utility Subtotal      | \$4,635.00          |
| <b>Total Utility Relocation:</b>             |              |             |                          | <b>\$35,535.00</b>  |
| <b>Right-of-Way</b>                          |              |             |                          |                     |
| Right-of-Way - Urban                         | \$150,000.00 | Acres       | 0.25                     | \$37,500.00         |
| Right-of-Way - Rural                         | \$120,000.00 | Acres       | 0                        | \$0.00              |
| Construction Easement (75% of ROW)           |              | Acres       | 0                        | \$28,125.00         |
| Structures                                   | \$180,000.00 | Each        | 0                        | \$0.00              |
| <b>Right-of-Way Subtotal:</b>                |              |             |                          | <b>\$65,625.00</b>  |
| <b>Contingency</b>                           |              | 15.0%       | Of Right-of-Way Subtotal | \$9,843.75          |
| <b>Total Right-of-Way:</b>                   |              |             |                          | <b>\$75,468.75</b>  |
| <b>Engineering</b>                           |              | 15.0%       | Of Construction Total    | \$57,300.00         |
| <b>Construction Inspection</b>               |              | 10.0%       | Of Construction Total    | \$38,200.00         |
| <b>Administration and Planning</b>           |              | 1.5%        | Of Construction Total    | \$5,730.00          |
| <b>Total Project Cost:</b>                   |              |             |                          | <b>\$594,233.75</b> |

EXHIBIT "B" - continued

## EXHIBIT "B" - continued

PROJECT CODE: I04B

TRANSPORTATION DISTRICT: Western/Southern District

**LOCATION:**

Church Street (SR 1051) & Route 272

**DEFICIENCY:**

The current intersection geometry is deficient with 2034 projected traffic volumes.

**PROPOSED IMPROVEMENTS:**

Construct a Eastbound left turn lane and right turn lane, remove/install two signal poles, curb

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |           |
|--------------------|-----------|
| Construction       | 382,000   |
| Utility Relocation | 45,885    |
| Right-of-Way       | 43,125    |
| Engineering        | 43,930    |
| Inspection         | 30,560    |
| Admin & Planning   | 5,730     |
| TOTAL              | \$551,230 |

**CONSTRUCTION YEAR AND PROJECTED COST:**

|                             |           |
|-----------------------------|-----------|
| Construction Year           | 2019      |
| Projected Construction Cost | \$797,320 |

Inflation Rate: 3.76%

**PROPOSED FUNDING:**

|               |     |           |
|---------------|-----|-----------|
| State/Federal | 0%  | \$0       |
| Other         | 50% | \$398,660 |
| Impact Fees   | 50% | \$398,660 |

**PROJECT SCHEDULE:**

|                      |      |
|----------------------|------|
|                      | Year |
| Secure Funding       | 2017 |
| Acquire ROW          | 2018 |
| Complete Engineering | 2018 |
| Begin Construction   | 2019 |

**TRANSPORTATION DISTRICT COST:**

|                   |      |           |
|-------------------|------|-----------|
| Western District  | 100% | \$398,660 |
| Eastern District  | 0%   | \$0       |
| Southern District | 0%   | \$0       |

**REMARKS:**

# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

**Project Number** **I04B**

Done By: BDE

Checked: MJR

| Description                                  | Cost         | Unit        | Quantity                 | Total               |
|--|--------------|-------------|--------------------------|---------------------|
| <b>Construction Items</b>                    |              |             |                          |                     |
| <b>Traffic Signals</b>                       |              |             |                          |                     |
| New Signal (4-way)                           | \$200,000.00 | Each        | 0.5                      | \$100,000.00        |
| New Signal (3-way)                           | \$150,000.00 | Each        | 0                        | \$0.00              |
| Signal Modifications                         | \$20,000.00  | Each        | 0                        | \$0.00              |
| Emergency Vehicle Preemption Only            | \$10,000.00  | Each        | 0                        | \$0.00              |
| <b>Pavement</b>                              |              |             |                          |                     |
| 1.5" Pavement Overlay and Milling            | \$7.00       | Square Yard | 4000                     | \$28,000.00         |
| New Pavement - Arterial Roads                | \$46.00      | Square Yard | 1000                     | \$46,000.00         |
| New Pavement - Collector Roads               | \$40.00      | Square Yard | 0                        | \$0.00              |
| New Pavement - Local Commercial Roads        | \$34.00      | Square Yard | 0                        | \$0.00              |
| New Pavement - Local Residential Roads       | \$29.00      | Square Yard | 400                      | \$11,600.00         |
| 4" PBD                                       | \$7.25       | Linear Foot | 800                      | \$5,800.00          |
| <b>Excavation</b>                            |              |             |                          |                     |
| Excavation (Borrow)                          | \$12.00      | Cubic Yard  | 0                        | \$0.00              |
| <b>Drainage</b>                              |              |             |                          |                     |
| Inlet/Manhole                                | \$2,400.00   | Each        | 5                        | \$12,000.00         |
| Pipe and Trenching                           | \$55.00      | Linear Foot | 800                      | \$44,000.00         |
| Culvert                                      | \$700.00     | Linear Foot | 0                        | \$0.00              |
| <b>Pavement Markings</b>                     |              |             |                          |                     |
| 4" Pavement Markings                         | \$2.00       | Linear Foot | 2600                     | \$5,200.00          |
| 8" Pavement Markings                         | \$8.00       | Linear Foot | 0                        | \$0.00              |
| <b>Miscellaneous</b>                         |              |             |                          |                     |
| Guide Rail                                   | \$18.00      | Linear Foot | 0                        | \$0.00              |
| Concrete Curb                                | \$35.00      | Linear Foot | 1200                     | \$42,000.00         |
| Bituminous Wedge Curb                        | \$7.00       | Linear Foot | 0                        | \$0.00              |
| <b>Other Miscellaneous</b>                   |              |             |                          |                     |
| Post Mounted Signs                           | \$200.00     | Each        | 5                        | \$1,000.00          |
| Other(ADA Ramps)                             | \$2,500.00   | Each        | 4                        | \$10,000.00         |
| <b>Construction Subtotal:</b>                |              |             |                          | <b>\$305,600.00</b> |
| <b>Mobilization</b>                          |              | 5.0%        | Of Construction Total    | \$15,280.00         |
| <b>Maintenance and Protection of Traffic</b> |              | 5.0%        | Of Construction Total    | \$15,280.00         |
| <b>Contingency</b>                           |              | 15.0%       | Of Construction Total    | \$45,840.00         |
| <b>Total Construction:</b>                   |              |             |                          | <b>\$382,000.00</b> |
| <b>Utility Relocation</b>                    |              |             |                          |                     |
| Utility Pole Relocation                      | \$3,300.00   | Each        | 3                        | \$9,900.00          |
| Electric Service                             | \$2,000.00   | Each        | 0                        | \$0.00              |
| Water/ Gas Valves                            | \$250.00     | Each        | 0                        | \$0.00              |
| Fire Hydrant Relocation                      | \$1,000.00   | Each        | 0                        | \$0.00              |
| High Tension Electric Poles                  | \$130,000.00 | Each        | 0                        | \$0.00              |
| Sanitary Manhole                             | \$2,400.00   | Each        | 0                        | \$0.00              |
| Other  | \$5,000.00   | Project     | 6                        | \$30,000.00         |
| <b>Utility Subtotal:</b>                     |              |             |                          | <b>\$39,900.00</b>  |
| <b>Contingency</b>                           |              | 15.0%       | Of Utility Subtotal      | \$5,985.00          |
| <b>Total Utility Relocation:</b>             |              |             |                          | <b>\$45,885.00</b>  |
| <b>Right-of-Way</b>                          |              |             |                          |                     |
| Right-of-Way - Urban                         | \$150,000.00 | Acres       | 0.25                     | \$37,500.00         |
| Right-of-Way - Rural                         | \$120,000.00 | Acres       | 0                        | \$0.00              |
| Construction Easement (75% of ROW)           |              | Acres       | 0                        | \$0.00              |
| Structures                                   | \$180,000.00 | Each        | 0                        | \$0.00              |
| <b>Right-of-Way Subtotal:</b>                |              |             |                          | <b>\$37,500.00</b>  |
| <b>Contingency</b>                           |              | 15.0%       | Of Right-of-Way Subtotal | \$5,625.00          |
| <b>Total Right-of-Way:</b>                   |              |             |                          | <b>\$43,125.00</b>  |
| <b>Engineering</b>                           |              | 11.5%       | Of Construction Total    | \$43,930.00         |
| <b>Construction Inspection</b>               |              | 8.0%        | Of Construction Total    | \$30,560.00         |
| <b>Administration and Planning</b>           |              | 1.5%        | Of Construction Total    | \$5,730.00          |
| <b>Total Project Cost:</b>                   |              |             |                          | <b>\$551,230.00</b> |

EXHIBIT "B" - continued

## EXHIBIT "B" - continued

PROJECT CODE: S05

TRANSPORTATION DISTRICT:

Eastern/Western District

**LOCATION:**

Route 897, west of Route 272

**DEFICIENCY:**

The current roadway segment is deficient with 2034 projected traffic volumes.

**PROPOSED IMPROVEMENTS:**

Widen to 12' lanes with 6' shoulders.

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |             |
|--------------------|-------------|
| Construction       | 731,383     |
| Utility Relocation | 474,030     |
| Right-of-Way       | 0           |
| Engineering        | 84,109      |
| Inspection         | 58,511      |
| Admin & Planning   | 10,971      |
| TOTAL              | \$1,359,003 |

**CONSTRUCTION YEAR AND PROJECTED COST:**

Construction Year

2034

Inflation Rate: 3.76%

Projected Construction Cost

\$3,419,554

**PROPOSED FUNDING:**

|               |      |             |
|---------------|------|-------------|
| State/Federal | 100% | \$3,419,554 |
| Other         | 0%   | \$0         |
| Impact Fees   | 0%   | \$0         |

**PROJECT SCHEDULE:**

|                      | Year |
|----------------------|------|
| Secure Funding       | 2032 |
| Acquire ROW          | 2033 |
| Complete Engineering | 2033 |
| Begin Construction   | 2034 |

**TRANSPORTATION DISTRICT COST:**

|                   |    |     |
|-------------------|----|-----|
| Western District  | 0% | \$0 |
| Eastern District  | 0% | \$0 |
| Southern District | 0% | \$0 |

**REMARKS:**

Future PENNDOT Project

# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

| Project Number                         | S05          | Done By:                 | BDE      | Checked:                  | MJR                     |
|--|--------------|--------------------------|----------|---------------------------|-------------------------|
| Description                            | Cost         | Unit                     | Quantity | Total                     |                         |
| Construction Items                     |              |                          |          |                           |                         |
| Traffic Signals                        |              |                          |          |                           |                         |
| New Signal (4-way)                     | \$200,000.00 | Each                     | 0        | \$0.00                    |                         |
| New Signal (3-way)                     | \$150,000.00 | Each                     | 0        | \$0.00                    |                         |
| Signal Modifications                   | \$20,000.00  | Each                     | 0        | \$0.00                    |                         |
| Emergency Vehicle Preemption Only      | \$10,000.00  | Each                     | 0        | \$0.00                    |                         |
| Pavement                               |              |                          |          |                           |                         |
| 1.5" Pavement Overlay and Milling      | \$7.00       | Square Yard              | 0        | \$0.00                    |                         |
| New Pavement - Arterial Roads          | \$46.00      | Square Yard              | 7111     | \$327,106.00              |                         |
| New Pavement - Collector Roads         | \$40.00      | Square Yard              | 0        | \$0.00                    |                         |
| New Pavement - Local Commercial Roads  | \$34.00      | Square Yard              | 0        | \$0.00                    |                         |
| New Pavement - Local Residential Roads | \$29.00      | Square Yard              | 0        | \$0.00                    |                         |
| 4" PBD                                 | \$7.25       | Linear Foot              | 16000    | \$116,000.00              |                         |
| Excavation                             |              |                          |          |                           |                         |
| Excavation (Borrow)                    | \$12.00      | Cubic Yard               | 0        | \$0.00                    |                         |
| Drainage                               |              |                          |          |                           |                         |
| Inlet/Manhole                          | \$2,400.00   | Each                     | 31       | \$74,400.00               |                         |
| Pipe and Trenching                     | \$55.00      | Linear Foot              | 0        | \$0.00                    |                         |
| Culvert                                | \$700.00     | Linear Foot              | 0        | \$0.00                    |                         |
| Pavement Markings                      |              |                          |          |                           |                         |
| 4" Pavement Markings                   | \$2.00       | Linear Foot              | 0        | \$0.00                    |                         |
| 8" Pavement Markings                   | \$8.00       | Linear Foot              | 0        | \$0.00                    |                         |
| Miscellaneous                          |              |                          |          |                           |                         |
| Guide Rail                             | \$18.00      | Linear Foot              | 1300     | \$23,400.00               |                         |
| Concrete Curb                          | \$35.00      | Linear Foot              | 1000     | \$35,000.00               |                         |
| Bituminous Wedge Curb                  | \$7.00       | Linear Foot              | 0        | \$0.00                    |                         |
| Other Miscellaneous                    |              |                          |          |                           |                         |
| Post Mounted Signs                     | \$200.00     | Each                     | 46       | \$9,200.00                |                         |
| Other                                  |              |                          |          | \$0.00                    |                         |
|  |              |                          |          | Construction Subtotal:    | \$585,106.00            |
| Mobilization                           | 5.0%         | Of Construction Total    |          | \$29,255.30               |                         |
| Maintenance and Protection of Traffic  | 5.0%         | Of Construction Total    |          | \$29,255.30               |                         |
| Contingency                            | 15.0%        | Of Construction Total    |          | \$87,765.90               |                         |
|  |              |                          |          | Total Construction:       | \$731,382.50            |
| Utility Relocation                     |              |                          |          |                           |                         |
| Utility Pole Relocation                | \$3,300.00   | Each                     | 124      | \$409,200.00              |                         |
| Electric Service                       | \$2,000.00   | Each                     | 0        | \$0.00                    |                         |
| Water/ Gas Valves                      | \$250.00     | Each                     | 0        | \$0.00                    | EXHIBIT "B" - continued |
| Fire Hydrant Relocation                | \$1,000.00   | Each                     | 3        | \$3,000.00                |                         |
| High Tension Electric Poles            | \$130,000.00 | Each                     | 0        | \$0.00                    |                         |
| Sanitary Manhole                       | \$2,400.00   | Each                     | 0        | \$0.00                    |                         |
| Other                                  | \$5,000.00   | Project                  | 0        | \$0.00                    |                         |
|  |              |                          |          | Utility Subtotal:         | \$412,200.00            |
| Contingency                            | 15.0%        | Of Utility Subtotal      |          | \$61,830.00               |                         |
|  |              |                          |          | Total Utility Relocation: | \$474,030.00            |
| Right-of-Way                           |              |                          |          |                           |                         |
| Right-of-Way - Urban                   | \$150,000.00 | Acres                    | 0        | \$0.00                    |                         |
| Right-of-Way - Rural                   | \$120,000.00 | Acres                    | 0        | \$0.00                    |                         |
| Construction Easement (75% of ROW)     |              | Acres                    | 0        | \$0.00                    |                         |
| Structures                             | \$180,000.00 | Each                     | 0        | \$0.00                    |                         |
|  |              |                          |          | Right-of-Way Subtotal:    | \$0.00                  |
| Contingency                            | 15.0%        | Of Right-of-Way Subtotal |          | \$0.00                    |                         |
|  |              |                          |          | Total Right-of-Way:       | \$0.00                  |
| Engineering                            | 11.5%        | Of Construction Total    |          | \$84,108.99               |                         |
| Construction Inspection                | 8.0%         | Of Construction Total    |          | \$58,510.60               |                         |
| Administration and Planning            | 1.5%         | Of Construction Total    |          | \$10,970.74               |                         |
|  |              |                          |          | Total Project Cost:       | \$1,359,002.83          |

## EXHIBIT "B" - continued

PROJECT CODE: I09A

TRANSPORTATION DISTRICT: Eastern/Southern District

**LOCATION:**

Colonel George Howard Boulevard (SR 1040) & Pepperidge Farm Boulevard (T-902)

**DEFICIENCY:**

The current intersection geometry is deficient with 2034 projected traffic volumes.

**PROPOSED IMPROVEMENTS:**

Construct a 2nd northbound left turn lane (Left-Left-Thru-Right configuration).

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |                  |
|--------------------|------------------|
| Construction       | 103,210          |
| Utility Relocation | 5,750            |
| Right-of-Way       | 0                |
| Engineering        | 11,869           |
| Inspection         | 8,257            |
| Admin & Planning   | 1,548            |
| <b>TOTAL</b>       | <b>\$130,634</b> |

**CONSTRUCTION YEAR AND PROJECTED COST:**

|                             |           |
|-----------------------------|-----------|
| Construction Year           | 2019      |
| Projected Construction Cost | \$188,954 |

Inflation Rate: 3.76%

**PROPOSED FUNDING:**

|               |      |           |
|---------------|------|-----------|
| State/Federal | 0%   | \$0       |
| Other         | 100% | \$188,954 |
| Impact Fees   | 0%   | \$0       |

**PROJECT SCHEDULE:**

Year

Secure Funding  
Acquire ROW  
Complete Engineering  
Begin Construction

**TRANSPORTATION DISTRICT COST:**

|                   |     |     |
|-------------------|-----|-----|
| Western District  | 0%  | \$0 |
| Eastern District  | 99% | \$0 |
| Southern District | 1%  | \$0 |

**REMARKS:**

Work to be done by Developer of adjacent parcels

# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

**Project Number** 109A

Done By: BDE

Checked: MJR

| Description                                  | Cost         | Unit        | Quantity                 | Total               |
|--|--------------|-------------|--------------------------|---------------------|
| <b>Construction Items</b>                    |              |             |                          |                     |
| <b>Traffic Signals</b>                       |              |             |                          |                     |
| New Signal (4-way)                           | \$200,000.00 | Each        | 0                        | \$0.00              |
| New Signal (3-way)                           | \$150,000.00 | Each        | 0                        | \$0.00              |
| Signal Modifications                         | \$20,000.00  | Each        | 1                        | \$20,000.00         |
| Emergency Vehicle Preemption Only            | \$10,000.00  | Each        | 0                        | \$0.00              |
| <b>Pavement</b>                              |              |             |                          |                     |
| 1.5" Pavement Overlay and Milling            | \$7.00       | Square Yard | 0                        | \$0.00              |
| New Pavement - Arterial Roads                | \$46.00      | Square Yard | 533                      | \$24,518.00         |
| New Pavement - Collector Roads               | \$40.00      | Square Yard | 0                        | \$0.00              |
| New Pavement - Local Commercial Roads        | \$34.00      | Square Yard | 0                        | \$0.00              |
| New Pavement - Local Residential Roads       | \$29.00      | Square Yard | 0                        | \$0.00              |
| 4" PBD                                       | \$7.25       | Linear Foot | 600                      | \$4,350.00          |
| <b>Excavation</b>                            |              |             |                          |                     |
| Excavation (Borrow)                          | \$12.00      | Cubic Yard  | 0                        | \$0.00              |
| <b>Drainage</b>                              |              |             |                          |                     |
| Inlet/Manhole                                | \$2,400.00   | Each        | 0                        | \$0.00              |
| Pipe and Trenching                           | \$55.00      | Linear Foot | 0                        | \$0.00              |
| Culvert                                      | \$700.00     | Linear Foot | 0                        | \$0.00              |
| <b>Pavement Markings</b>                     |              |             |                          |                     |
| 4" Pavement Markings                         | \$2.00       | Linear Foot | 2600                     | \$5,200.00          |
| 8" Pavement Markings                         | \$8.00       | Linear Foot | 0                        | \$0.00              |
| <b>Miscellaneous</b>                         |              |             |                          |                     |
| Guide Rail                                   | \$18.00      | Linear Foot | 0                        | \$0.00              |
| Concrete Curb                                | \$35.00      | Linear Foot | 500                      | \$17,500.00         |
| Bituminous Wedge Curb                        | \$7.00       | Linear Foot | 0                        | \$0.00              |
| <b>Other Miscellaneous</b>                   |              |             |                          |                     |
| Post Mounted Signs                           | \$200.00     | Each        | 5                        | \$1,000.00          |
| Other (ADA upgrades)                         | \$1.00       | LS          | 10000                    | \$10,000.00         |
| <b>Construction Subtotal:</b>                |              |             |                          | <b>\$82,568.00</b>  |
| <b>Mobilization</b>                          |              | 5.0%        | Of Construction Total    | \$4,128.40          |
| <b>Maintenance and Protection of Traffic</b> |              | 5.0%        | Of Construction Total    | \$4,128.40          |
| <b>Contingency</b>                           |              | 15.0%       | Of Construction Total    | \$12,385.20         |
| <b>Total Construction:</b>                   |              |             |                          | <b>\$103,210.00</b> |
| <b>Utility Relocation</b>                    |              |             |                          |                     |
| Utility Pole Relocation                      | \$3,300.00   | Each        | 0                        | \$0.00              |
| Electric Service                             | \$2,000.00   | Each        | 0                        | \$0.00              |
| Water/ Gas Valves                            | \$250.00     | Each        | 0                        | \$0.00              |
| Fire Hydrant Relocation                      | \$1,000.00   | Each        | 0                        | \$0.00              |
| High Tension Electric Poles                  | \$130,000.00 | Each        | 0                        | \$0.00              |
| Sanitary Manhole                             | \$2,400.00   | Each        | 0                        | \$0.00              |
| Other  | \$5,000.00   | Project     | 1                        | \$5,000.00          |
| <b>Utility Subtotal:</b>                     |              |             |                          | <b>\$5,000.00</b>   |
| <b>Contingency</b>                           |              | 15.0%       | Of Utility Subtotal      | \$750.00            |
| <b>Total Utility Relocation:</b>             |              |             |                          | <b>\$5,750.00</b>   |
| <b>Right-of-Way</b>                          |              |             |                          |                     |
| Right-of-Way - Urban                         | \$150,000.00 | Acres       | 0                        | \$0.00              |
| Right-of-Way - Rural                         | \$120,000.00 | Acres       | 0                        | \$0.00              |
| Construction Easement (75% of ROW)           |              | Acres       | 0                        | \$0.00              |
| Structures                                   | \$180,000.00 | Each        | 0                        | \$0.00              |
| <b>Right-of-Way Subtotal:</b>                |              |             |                          | <b>\$0.00</b>       |
| <b>Contingency</b>                           |              | 15.0%       | Of Right-of-Way Subtotal | \$0.00              |
| <b>Total Right-of-Way:</b>                   |              |             |                          | <b>\$0.00</b>       |
| <b>Engineering</b>                           |              | 11.5%       | Of Construction Total    | \$11,869.15         |
| <b>Construction Inspection</b>               |              | 8.0%        | Of Construction Total    | \$8,256.80          |
| <b>Administration and Planning</b>           |              | 1.5%        | Of Construction Total    | \$1,548.15          |
| <b>Total Project Cost:</b>                   |              |             |                          | <b>\$130,634.10</b> |



## EXHIBIT "B" - continued

PROJECT CODE: I09B

TRANSPORTATION DISTRICT: Eastern/Southern District

**LOCATION:**

Colonel George Howard Boulevard (SR 1040) & Pepperidge Farm Boulevard (T-902)

**DEFICIENCY:**

The current intersection geometry is deficient with 2034 projected traffic volumes.

**PROPOSED IMPROVEMENTS:**

I09B Deleted- Work roled into I09A "Construct a northbound right turn lane."

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |          |
|--------------------|----------|
| Construction       | 51,929   |
| Utility Relocation | 0        |
| Right-of-Way       | 0        |
| Engineering        | 5,972    |
| Inspection         | 4,154    |
| Admin & Planning   | 779      |
| TOTAL              | \$62,834 |

**CONSTRUCTION YEAR AND PROJECTED COST:**

|                             |      |
|-----------------------------|------|
| Construction Year           | 2034 |
| Projected Construction Cost | \$0  |

Inflation Rate: 3.76%

**PROPOSED FUNDING:**

|               |    |     |
|---------------|----|-----|
| State/Federal | 0% | \$0 |
| Other         | 0% | \$0 |
| Impact Fees   | 0% | \$0 |

**PROJECT SCHEDULE:**

|                     | Year |
|---------------------|------|
| Secure Funding      | 2032 |
| Acquire ROW         | 2033 |
| Compete Engineering | 2033 |
| Begin Construction  | 2034 |

**TRANSPORTATION DISTRICT COST:**

|                  |     |     |
|------------------|-----|-----|
| Western District | 0%  | \$0 |
| Eastern District | 99% | \$0 |
| Southern Distict | 1%  | \$0 |

**REMARKS:**



# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

| Project Number                         |  | I09B         | Done By: BDE             |          | Checked: MJR              |  |
|--|--|--------------|--------------------------|----------|---------------------------|--|
| Description                            |  | Cost         | Unit                     | Quantity | Total                     |  |
| Construction Items                     |  |              |                          |          |                           |  |
| Traffic Signals                        |  |              |                          |          |                           |  |
| New Signal (4-way)                     |  | \$200,000.00 | Each                     | 0        | \$0.00                    |  |
| New Signal (3-way)                     |  | \$150,000.00 | Each                     | 0        | \$0.00                    |  |
| Signal Modifications                   |  | \$20,000.00  | Each                     | 1        | \$20,000.00               |  |
| Emergency Vehicle Preemption Only      |  | \$10,000.00  | Each                     | 0        | \$0.00                    |  |
| Pavement                               |  |              |                          |          |                           |  |
| 1.5" Pavement Overlay and Milling      |  | \$7.00       | Square Yard              | 0        | \$0.00                    |  |
| New Pavement - Arterial Roads          |  | \$46.00      | Square Yard              | 333      | \$15,318.00               |  |
| New Pavement - Collector Roads         |  | \$40.00      | Square Yard              | 0        | \$0.00                    |  |
| New Pavement - Local Commercial Roads  |  | \$34.00      | Square Yard              | 0        | \$0.00                    |  |
| New Pavement - Local Residential Roads |  | \$29.00      | Square Yard              | 0        | \$0.00                    |  |
| 4" PBD                                 |  | \$7.25       | Linear Foot              | 300      | \$2,175.00                |  |
| Excavation                             |  |              |                          |          |                           |  |
| Excavation (Borrow)                    |  | \$12.00      | Cubic Yard               | 0        | \$0.00                    |  |
| Drainage                               |  |              |                          |          |                           |  |
| Inlet/Manhole                          |  | \$2,400.00   | Each                     | 0        | \$0.00                    |  |
| Pipe and Trenching                     |  | \$55.00      | Linear Foot              | 0        | \$0.00                    |  |
| Culvert                                |  | \$700.00     | Linear Foot              | 0        | \$0.00                    |  |
| Pavement Markings                      |  |              |                          |          |                           |  |
| 4" Pavement Markings                   |  | \$2.00       | Linear Foot              | 400      | \$800.00                  |  |
| 8" Pavement Markings                   |  | \$8.00       | Linear Foot              | 0        | \$0.00                    |  |
| Miscellaneous                          |  |              |                          |          |                           |  |
| Guide Rail                             |  | \$18.00      | Linear Foot              | 0        | \$0.00                    |  |
| Concrete Curb                          |  | \$35.00      | Linear Foot              | 0        | \$0.00                    |  |
| Bituminous Wedge Curb                  |  | \$7.00       | Linear Foot              | 0        | \$0.00                    |  |
| Other Miscellaneous                    |  |              |                          |          |                           |  |
| Post Mounted Signs                     |  | \$200.00     | Each                     | 0        | \$0.00                    |  |
| Removal of Channelizing Island         |  | \$25.00      | SY                       | 130      | \$3,250.00                |  |
|  |  |              |                          |          | Construction Subtotal:    |  |
|  |  |              |                          |          | \$41,543.00               |  |
| Mobilization                           |  | 5.0%         | Of Construction Total    |          | \$2,077.15                |  |
| Maintenance and Protection of Traffic  |  | 5.0%         | Of Construction Total    |          | \$2,077.15                |  |
| Contingency                            |  | 15.0%        | Of Construction Total    |          | \$6,231.45                |  |
|  |  |              |                          |          | Total Construction:       |  |
|  |  |              |                          |          | \$51,928.75               |  |
| Utility Relocation                     |  |              |                          |          |                           |  |
| Utility Pole Relocation                |  | \$3,300.00   | Each                     | 0        | \$0.00                    |  |
| Electric Service                       |  | \$2,000.00   | Each                     | 0        | \$0.00                    |  |
| Water/ Gas Valves                      |  | \$250.00     | Each                     | 0        | \$0.00                    |  |
| Fire Hydrant Relocation                |  | \$1,000.00   | Each                     | 0        | \$0.00                    |  |
| High Tension Electric Poles            |  | \$130,000.00 | Each                     | 0        | \$0.00                    |  |
| Sanitary Manhole                       |  | \$2,400.00   | Each                     | 0        | \$0.00                    |  |
| Other                                  |  | \$5,000.00   | Project                  | 0        | \$0.00                    |  |
|  |  |              |                          |          | Utility Subtotal:         |  |
|  |  |              |                          |          | \$0.00                    |  |
| Contingency                            |  | 15.0%        | Of Utility Subtotal      |          | \$0.00                    |  |
|  |  |              |                          |          | Total Utility Relocation: |  |
|  |  |              |                          |          | \$0.00                    |  |
| Right-of-Way                           |  |              |                          |          |                           |  |
| Right-of-Way - Urban                   |  | \$150,000.00 | Acres                    | 0        | \$0.00                    |  |
| Right-of-Way - Rural                   |  | \$120,000.00 | Acres                    | 0        | \$0.00                    |  |
| Construction Easement (75% of ROW)     |  |              | Acres                    | 0        | \$0.00                    |  |
| Structures                             |  | \$180,000.00 | Each                     | 0        | \$0.00                    |  |
|  |  |              |                          |          | Right-of-Way Subtotal:    |  |
|  |  |              |                          |          | \$0.00                    |  |
| Contingency                            |  | 15.0%        | Of Right-of-Way Subtotal |          | \$0.00                    |  |
|  |  |              |                          |          | Total Right-of-Way:       |  |
|  |  |              |                          |          | \$0.00                    |  |
| Engineering                            |  | 11.5%        | Of Construction Total    |          | \$5,971.81                |  |
| Construction Inspection                |  | 8.0%         | Of Construction Total    |          | \$4,154.30                |  |
| Administration and Planning            |  | 1.5%         | Of Construction Total    |          | \$778.93                  |  |
|  |  |              |                          |          | Total Project Cost:       |  |
|  |  |              |                          |          | \$62,833.79               |  |

## EXHIBIT "B" - continued

PROJECT CODE: 109C

TRANSPORTATION DISTRICT:

Eastern/Southern District

**LOCATION:**

Colonel George Howard Boulevard (SR 1040) & Pepperidge Farm Boulevard (T-902)

**DEFICIENCY:**

The current intersection geometry is deficient with 2034 projected traffic volumes.

**PROPOSED IMPROVEMENTS:**

Construct dual southbound left turn lanes. Maintain existing SB RT Lane and Thru lane.

Maintain existing signals and install median to create protected EB RT lane

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |           |
|--------------------|-----------|
| Construction       | 310,568   |
| Utility Relocation | 5,750     |
| Right-of-Way       | 0         |
| Engineering        | 35,715    |
| Inspection         | 24,845    |
| Admin & Planning   | 4,659     |
| TOTAL              | \$381,537 |

**CONSTRUCTION YEAR AND PROJECTED COST:**

Construction Year

2019

Inflation Rate: 3.76%

Projected Construction Cost

\$551,869

**PROPOSED FUNDING:**

|               |      |           |
|---------------|------|-----------|
| State/Federal | 0%   | \$0       |
| Other         | 100% | \$551,869 |
| Impact Fees   | 0%   | \$0       |

**PROJECT SCHEDULE:**

Year

Secure Funding  
Acquire ROW  
Complete Engineering  
Begin Construction

**TRANSPORTATION DISTRICT COST:**

|                   |     |     |
|-------------------|-----|-----|
| Western District  | 0%  | \$0 |
| Eastern District  | 99% | \$0 |
| Southern District | 1%  | \$0 |

**REMARKS:**

Work to be done by Developer of adjacent parcels

# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

| Project Number                           |  | I09C  | Done By: BDE             |             | Checked: MJR |                                |
|--|--|-------|--------------------------|-------------|--------------|--------------------------------|
| Description                              |  |       | Cost                     | Unit        | Quantity     | Total                          |
| Construction Items                       |  |       |                          |             |              |                                |
| Traffic Signals                          |  |       |                          |             |              |                                |
| New Signal (4-way)                       |  |       | \$200,000.00             | Each        | 0            | \$0.00                         |
| New Signal (3-way)                       |  |       | \$150,000.00             | Each        | 0            | \$0.00                         |
| Signal Modifications                     |  |       | \$20,000.00              | Each        | 1            | \$20,000.00                    |
| Emergency Vehicle Preemption Only        |  |       | \$10,000.00              | Each        | 0            | \$0.00                         |
| Pavement                                 |  |       |                          |             |              |                                |
| 1.5" Pavement Overlay and Milling        |  |       | \$7.00                   | Square Yard | 0            | \$0.00                         |
| New Pavement - Arterial Roads (Concrete) |  |       | \$70.00                  | Square Yard | 1600         | \$112,000.00                   |
| New Pavement - Collector Roads           |  |       | \$40.00                  | Square Yard | 0            | \$0.00                         |
| New Pavement - Local Commercial Roads    |  |       | \$34.00                  | Square Yard | 0            | \$0.00                         |
| New Pavement - Local Residential Roads   |  |       | \$29.00                  | Square Yard | 0            | \$0.00                         |
| 4" PBD                                   |  |       | \$7.25                   | Linear Foot | 1000         | \$7,250.00                     |
| Excavation                               |  |       |                          |             |              |                                |
| Excavation (Borrow)                      |  |       | \$12.00                  | Cubic Yard  | 0            | \$0.00                         |
| Drainage                                 |  |       |                          |             |              |                                |
| Inlet/Manhole                            |  |       | \$2,400.00               | Each        | 0            | \$0.00                         |
| Pipe and Trenching                       |  |       | \$55.00                  | Linear Foot | 0            | \$0.00                         |
| Culvert                                  |  |       | \$700.00                 | Linear Foot | 0            | \$0.00                         |
| Pavement Markings                        |  |       |                          |             |              |                                |
| 4" Pavement Markings                     |  |       | \$2.00                   | Linear Foot | 4400         | \$8,800.00                     |
| 8" Pavement Markings                     |  |       | \$8.00                   | Linear Foot | 0            | \$0.00                         |
| Miscellaneous                            |  |       |                          |             |              |                                |
| Guide Rail                               |  |       | \$18.00                  | Linear Foot | 0            | \$0.00                         |
| Concrete Curb (Vertical and Mountable)   |  |       | \$35.00                  | Linear Foot | 2000         | \$70,000.00                    |
| Bituminous Wedge Curb                    |  |       | \$7.00                   | Linear Foot | 0            | \$0.00                         |
| Other Miscellaneous                      |  |       |                          |             |              |                                |
| Post Mounted Signs                       |  |       | \$200.00                 | Each        | 10           | \$2,000.00                     |
| ADA Upgrades                             |  |       | \$1.00                   | LS          | 10,000       | \$10,000.00                    |
| Construction Subtotal:                   |  |       |                          |             |              | \$230,050.00                   |
| Mobilization                             |  | 5.0%  | Of Construction Total    |             | \$11,502.50  |                                |
| Maintenance and Protection of Traffic    |  | 5.0%  | Of Construction Total    |             | \$11,502.50  |                                |
| Contingency                              |  | 25.0% | Of Construction Total    |             | \$57,512.50  |                                |
| Total Construction:                      |  |       |                          |             |              | \$310,567.50                   |
| Utility Relocation                       |  |       |                          |             |              |                                |
| Utility Pole Relocation                  |  |       | \$3,300.00               | Each        | 0            | \$0.00                         |
| Electric Service                         |  |       | \$2,000.00               | Each        | 0            | \$0.00                         |
| Water/ Gas Valves                        |  |       | \$250.00                 | Each        | 0            | EXHIBIT "B" - continued \$0.00 |
| Fire Hydrant Relocation                  |  |       | \$1,000.00               | Each        | 0            | \$0.00                         |
| High Tension Electric Poles              |  |       | \$130,000.00             | Each        | 0            | \$0.00                         |
| Sanitary Manhole                         |  |       | \$2,400.00               | Each        | 0            | \$0.00                         |
| Other                                    |  |       | \$5,000.00               | Project     | 1            | \$5,000.00                     |
| Utility Subtotal:                        |  |       |                          |             |              | \$5,000.00                     |
| Contingency                              |  | 15.0% | Of Utility Subtotal      |             | \$750.00     |                                |
| Total Utility Relocation:                |  |       |                          |             |              | \$5,750.00                     |
| Right-of-Way                             |  |       |                          |             |              |                                |
| Right-of-Way - Urban                     |  |       | \$150,000.00             | Acres       | 0            | \$0.00                         |
| Right-of-Way - Rural                     |  |       | \$120,000.00             | Acres       | 0            | \$0.00                         |
| Construction Easement (75% of ROW)       |  |       |                          | Acres       | 0            | \$0.00                         |
| Structures                               |  |       | \$180,000.00             | Each        | 0            | \$0.00                         |
| Right-of-Way Subtotal:                   |  |       |                          |             |              | \$0.00                         |
| Contingency                              |  | 15.0% | Of Right-of-Way Subtotal |             | \$0.00       |                                |
| Total Right-of-Way:                      |  |       |                          |             |              | \$0.00                         |
| Engineering                              |  | 11.5% | Of Construction Total    |             | \$35,715.26  |                                |
| Construction Inspection                  |  | 8.0%  | Of Construction Total    |             | \$24,845.40  |                                |
| Administration and Planning              |  | 1.5%  | Of Construction Total    |             | \$4,658.51   |                                |
| Total Project Cost:                      |  |       |                          |             |              | \$381,536.68                   |

## EXHIBIT "B" - continued

PROJECT CODE: I09D

TRANSPORTATION DISTRICT: Eastern/Southern District

**LOCATION:**

Colonel George Howard Boulevard (SR 1040) & Pepperidge Farm Boulevard (T-902)

**DEFICIENCY:**

The current intersection geometry is deficient with 2034 projected traffic volumes.

**PROPOSED IMPROVEMENTS:**

**I09D Deleted- Work roled into I09C "Construct a southbound right turn lane."**

**Existing SB Right Turn Lane can be maintained following Cocalico Commons HOP work.**

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |          |
|--------------------|----------|
| Construction       | 48,366   |
| Utility Relocation | 0        |
| Right-of-Way       | 0        |
| Engineering        | 5,562    |
| Inspection         | 3,869    |
| Admin & Planning   | 725      |
| TOTAL              | \$58,523 |

**CONSTRUCTION YEAR AND PROJECTED COST:**

|                             |      |                       |
|-----------------------------|------|-----------------------|
| Construction Year           | 2034 | Inflation Rate: 3.76% |
| Projected Construction Cost | \$0  |                       |

**PROPOSED FUNDING:**

|               |    |     |
|---------------|----|-----|
| State/Federal | 0% | \$0 |
| Other         | 0% | \$0 |
| Impact Fees   | 0% | \$0 |

**PROJECT SCHEDULE:**

|                     | Year |
|---------------------|------|
| Secure Funding      | 2032 |
| Acquire ROW         | 2033 |
| Compete Engineering | 2033 |
| Begin Construction  | 2034 |

**TRANSPORTATION DISTRICT COST:**

|                  |     |     |
|------------------|-----|-----|
| Western District | 0%  | \$0 |
| Eastern District | 99% | \$0 |
| Southern Distict | 1%  | \$0 |

**REMARKS:**

# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

**Project Number** **I09D**

Done By: BDE

Checked: MJR

| Description                                  | Cost         | Unit        | Quantity | Total                                  |
|--|--------------|-------------|----------|--|
| <b>Construction Items</b>                    |              |             |          |  |
| <b>Traffic Signals</b>                       |              |             |          |  |
| New Signal (4-way)                           | \$200,000.00 | Each        | 0        | \$0.00                                 |
| New Signal (3-way)                           | \$150,000.00 | Each        | 0        | \$0.00                                 |
| Signal Modifications                         | \$20,000.00  | Each        | 1        | \$20,000.00                            |
| Emergency Vehicle Preemption Only            | \$10,000.00  | Each        | 0        | \$0.00                                 |
| <b>Pavement</b>                              |              |             |          |  |
| 1.5" Pavement Overlay and Milling            | \$7.00       | Square Yard | 0        | \$0.00                                 |
| New Pavement - Arterial Roads                | \$46.00      | Square Yard | 333      | \$15,318.00                            |
| New Pavement - Collector Roads               | \$40.00      | Square Yard | 0        | \$0.00                                 |
| New Pavement - Local Commercial Roads        | \$34.00      | Square Yard | 0        | \$0.00                                 |
| New Pavement - Local Residential Roads       | \$29.00      | Square Yard | 0        | \$0.00                                 |
| 4" PBD                                       | \$7.25       | Linear Foot | 300      | \$2,175.00                             |
| <b>Excavation</b>                            |              |             |          |  |
| Excavation (Borrow)                          | \$12.00      | Cubic Yard  | 0        | \$0.00                                 |
| <b>Drainage</b>                              |              |             |          |  |
| Inlet/Manhole                                | \$2,400.00   | Each        | 0        | \$0.00                                 |
| Pipe and Trenching                           | \$55.00      | Linear Foot | 0        | \$0.00                                 |
| Culvert                                      | \$700.00     | Linear Foot | 0        | \$0.00                                 |
| <b>Pavement Markings</b>                     |              |             |          |  |
| 4" Pavement Markings                         | \$2.00       | Linear Foot | 400      | \$800.00                               |
| 8" Pavement Markings                         | \$8.00       | Linear Foot | 0        | \$0.00                                 |
| <b>Miscellaneous</b>                         |              |             |          |  |
| Guide Rail                                   | \$18.00      | Linear Foot | 0        | \$0.00                                 |
| Concrete Curb                                | \$35.00      | Linear Foot | 0        | \$0.00                                 |
| Bituminous Wedge Curb                        | \$7.00       | Linear Foot | 0        | \$0.00                                 |
| <b>Other Miscellaneous</b>                   |              |             |          |  |
| Post Mounted Signs                           | \$200.00     | Each        | 2        | \$400.00                               |
|  |              |             |          | \$0.00                                 |
| <b>Construction Subtotal:</b>                |              |             |          | <b>\$38,693.00</b>                     |
| <b>Mobilization</b>                          |              |             |          | 5.0% Of Construction Total \$1,934.65  |
| <b>Maintenance and Protection of Traffic</b> |              |             |          | 5.0% Of Construction Total \$1,934.65  |
| <b>Contingency</b>                           |              |             |          | 15.0% Of Construction Total \$5,803.95 |
| <b>Total Construction:</b>                   |              |             |          | <b>\$48,366.25</b>                     |
| <b>Utility Relocation</b>                    |              |             |          |  |
| Utility Pole Relocation                      | \$3,300.00   | Each        | 0        | \$0.00                                 |
| Electric Service                             | \$2,000.00   | Each        | 0        | \$0.00                                 |
| Water/ Gas Valves                            | \$250.00     | Each        | 0        | \$0.00                                 |
| Fire Hydrant Relocation                      | \$1,000.00   | Each        | 0        | \$0.00                                 |
| High Tension Electric Poles                  | \$130,000.00 | Each        | 0        | \$0.00                                 |
| Sanitary Manhole                             | \$2,400.00   | Each        | 0        | \$0.00                                 |
| Other  | \$5,000.00   | Project     | 0        | \$0.00                                 |
| <b>Utility Subtotal:</b>                     |              |             |          | <b>\$0.00</b>                          |
| <b>Contingency</b>                           |              |             |          | 15.0% Of Utility Subtotal \$0.00       |
| <b>Total Utility Relocation:</b>             |              |             |          | <b>\$0.00</b>                          |
| <b>Right-of-Way</b>                          |              |             |          |  |
| Right-of-Way - Urban                         | \$150,000.00 | Acres       | 0        | \$0.00                                 |
| Right-of-Way - Rural                         | \$120,000.00 | Acres       | 0        | \$0.00                                 |
| Construction Easement (75% of ROW)           |              | Acres       | 0        | \$0.00                                 |
| Structures                                   | \$180,000.00 | Each        | 0        | \$0.00                                 |
| <b>Right-of-Way Subtotal:</b>                |              |             |          | <b>\$0.00</b>                          |
| <b>Contingency</b>                           |              |             |          | 15.0% Of Right-of-Way Subtotal \$0.00  |
| <b>Total Right-of-Way:</b>                   |              |             |          | <b>\$0.00</b>                          |
| <b>Engineering</b>                           |              |             |          | 11.5% Of Construction Total \$5,562.12 |
| <b>Construction Inspection</b>               |              |             |          | 8.0% Of Construction Total \$3,869.30  |
| <b>Administration and Planning</b>           |              |             |          | 1.5% Of Construction Total \$725.49    |
| <b>Total Project Cost:</b>                   |              |             |          | <b>\$58,523.16</b>                     |

EXHIBIT "B" - continued

## EXHIBIT "B" - continued

PROJECT CODE: I10

TRANSPORTATION DISTRICT:

Eastern/Southern District

**LOCATION:**

Colonel George Howard Boulevard (SR 1040) & Reamstown Road (T-700)

**DEFICIENCY:**

The current intersection is deficient with 2034 projected traffic volumes.

**PROPOSED IMPROVEMENTS:**

Install a traffic signal.

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |                  |
|--------------------|------------------|
| Construction       | 187,500          |
| Utility Relocation | 0                |
| Right-of-Way       | 0                |
| Engineering        | 21,563           |
| Inspection         | 15,000           |
| Admin & Planning   | 2,813            |
| <b>TOTAL</b>       | <b>\$226,875</b> |

**CONSTRUCTION YEAR AND PROJECTED COST:**

Construction Year

2027

Inflation Rate: 3.76%

Projected Construction Cost

\$440,886

**PROPOSED FUNDING:**

|               |     |           |
|---------------|-----|-----------|
| State/Federal | 33% | \$145,492 |
| Other         | 0%  | \$0       |
| Impact Fees   | 67% | \$295,393 |

**PROJECT SCHEDULE:**

|                      | Year |
|----------------------|------|
| Secure Funding       | 2025 |
| Acquire ROW          | 2026 |
| Complete Engineering | 2026 |
| Begin Construction   | 2027 |

**TRANSPORTATION DISTRICT COST:**

|                   |     |           |
|-------------------|-----|-----------|
| Western District  | 0%  | \$0       |
| Eastern District  | 75% | \$221,545 |
| Southern District | 25% | \$73,848  |

**REMARKS:**

# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

| Project Number                         |  | I10   | Done By: BDE             |             | Checked: MJR |                               |
|--|--|-------|--------------------------|-------------|--------------|-------------------------------|
| Description                            |  |       | Cost                     | Unit        | Quantity     | Total                         |
| Construction Items                     |  |       |                          |             |              |                               |
| Traffic Signals                        |  |       |                          |             |              |                               |
| New Signal (4-way)                     |  |       | \$200,000.00             | Each        | 0            | \$0.00                        |
| New Signal (3-way)                     |  |       | \$150,000.00             | Each        | 1            | \$150,000.00                  |
| Signal Modifications                   |  |       | \$20,000.00              | Each        | 0            | \$0.00                        |
| Emergency Vehicle Preemption Only      |  |       | \$10,000.00              | Each        | 0            | \$0.00                        |
| Pavement                               |  |       |                          |             |              |                               |
| 1.5" Pavement Overlay and Milling      |  |       | \$7.00                   | Square Yard | 0            | \$0.00                        |
| New Pavement - Arterial Roads          |  |       | \$46.00                  | Square Yard | 0            | \$0.00                        |
| New Pavement - Collector Roads         |  |       | \$40.00                  | Square Yard | 0            | \$0.00                        |
| New Pavement - Local Commercial Roads  |  |       | \$34.00                  | Square Yard | 0            | \$0.00                        |
| New Pavement - Local Residential Roads |  |       | \$29.00                  | Square Yard | 0            | \$0.00                        |
| 4" PBD                                 |  |       | \$7.25                   | Linear Foot | 0            | \$0.00                        |
| Excavation                             |  |       |                          |             |              |                               |
| Excavation (Borrow)                    |  |       | \$12.00                  | Cubic Yard  | 0            | \$0.00                        |
| Drainage                               |  |       |                          |             |              |                               |
| Inlet/Manhole                          |  |       | \$2,400.00               | Each        | 0            | \$0.00                        |
| Pipe and Trenching                     |  |       | \$55.00                  | Linear Foot | 0            | \$0.00                        |
| Culvert                                |  |       | \$700.00                 | Linear Foot | 0            | \$0.00                        |
| Pavement Markings                      |  |       |                          |             |              |                               |
| 4" Pavement Markings                   |  |       | \$2.00                   | Linear Foot | 0            | \$0.00                        |
| 8" Pavement Markings                   |  |       | \$8.00                   | Linear Foot | 0            | \$0.00                        |
| Miscellaneous                          |  |       |                          |             |              |                               |
| Guide Rail                             |  |       | \$18.00                  | Linear Foot | 0            | \$0.00                        |
| Concrete Curb                          |  |       | \$35.00                  | Linear Foot | 0            | \$0.00                        |
| Bituminous Wedge Curb                  |  |       | \$7.00                   | Linear Foot | 0            | \$0.00                        |
| Other Miscellaneous                    |  |       |                          |             |              |                               |
| Post Mounted Signs                     |  |       | \$200.00                 | Each        | 0            | \$0.00                        |
|  |  |       |                          |             |              | \$0.00                        |
| Construction Subtotal:                 |  |       |                          |             |              | \$150,000.00                  |
| Mobilization                           |  | 5.0%  | Of Construction Total    |             | \$7,500.00   |                               |
| Maintenance and Protection of Traffic  |  | 5.0%  | Of Construction Total    |             | \$7,500.00   |                               |
| Contingency                            |  | 15.0% | Of Construction Total    |             | \$22,500.00  |                               |
| Total Construction:                    |  |       |                          |             |              | \$187,500.00                  |
| Utility Relocation                     |  |       |                          |             |              |                               |
| Utility Pole Relocation                |  |       | \$3,300.00               | Each        | 0            | \$0.00                        |
| Electric Service                       |  |       | \$2,000.00               | Each        | 0            | \$0.00                        |
| Water/ Gas Valves                      |  |       | \$250.00                 | Each        | 0            | EXHIBIT "B" - continue \$0.00 |
| Fire Hydrant Relocation                |  |       | \$1,000.00               | Each        | 0            | \$0.00                        |
| High Tension Electric Poles            |  |       | \$130,000.00             | Each        | 0            | \$0.00                        |
| Sanitary Manhole                       |  |       | \$2,400.00               | Each        | 0            | \$0.00                        |
| Other                                  |  |       | \$5,000.00               | Project     | 0            | \$0.00                        |
| Utility Subtotal:                      |  |       |                          |             |              | \$0.00                        |
| Contingency                            |  | 15.0% | Of Utility Subtotal      |             | \$0.00       |                               |
| Total Utility Relocation:              |  |       |                          |             |              | \$0.00                        |
| Right-of-Way                           |  |       |                          |             |              |                               |
| Right-of-Way - Urban                   |  |       | \$150,000.00             | Acres       | 0            | \$0.00                        |
| Right-of-Way - Rural                   |  |       | \$120,000.00             | Acres       | 0            | \$0.00                        |
| Construction Easement (75% of ROW)     |  |       |                          | Acres       | 0            | \$0.00                        |
| Structures                             |  |       | \$180,000.00             | Each        | 0            | \$0.00                        |
| Right-of-Way Subtotal:                 |  |       |                          |             |              | \$0.00                        |
| Contingency                            |  | 15.0% | Of Right-of-Way Subtotal |             | \$0.00       |                               |
| Total Right-of-Way:                    |  |       |                          |             |              | \$0.00                        |
| Engineering                            |  | 11.5% | Of Construction Total    |             | \$21,562.50  |                               |
| Construction Inspection                |  | 8.0%  | Of Construction Total    |             | \$15,000.00  |                               |
| Administration and Planning            |  | 1.5%  | Of Construction Total    |             | \$2,812.50   |                               |
| Total Project Cost:                    |  |       |                          |             |              | \$226,875.00                  |

## EXHIBIT "B" - continued

PROJECT CODE: I11B

TRANSPORTATION DISTRICT: Eastern/Western/Southern District

**LOCATION:**

Colonel George Howard Boulevard (SR 1040) / Denver Road (T-901) & Route 272

**DEFICIENCY:**

The current intersection geometry is deficient with 2034 projected traffic volumes.

**PROPOSED IMPROVEMENTS:**

Prohibit left turns and thru movements exiting the eastbound approach. Project I30 is required prerequisite or concurrently.

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |           |
|--------------------|-----------|
| Construction       | 253,250   |
| Utility Relocation | 0         |
| Right-of-Way       | 0         |
| Engineering        | 29,124    |
| Inspection         | 20,260    |
| Admin & Planning   | 3,799     |
| TOTAL              | \$306,433 |

**CONSTRUCTION YEAR AND PROJECTED COST:**

|                             |           |                       |
|-----------------------------|-----------|-----------------------|
| Construction Year           | 2034      | Inflation Rate: 3.76% |
| Projected Construction Cost | \$771,052 |                       |

**PROPOSED FUNDING:**

|               |     |           |
|---------------|-----|-----------|
| State/Federal | 50% | \$385,526 |
| Other         | 0%  | \$0       |
| Impact Fees   | 50% | \$385,526 |

**PROJECT SCHEDULE:**

|                      | Year |
|----------------------|------|
| Secure Funding       | 2032 |
| Acquire ROW          | 2033 |
| Complete Engineering | 2033 |
| Begin Construction   | 2034 |

**TRANSPORTATION DISTRICT COST:**

|                   |     |           |
|-------------------|-----|-----------|
| Western District  | 1%  | \$3,855   |
| Eastern District  | 98% | \$377,816 |
| Southern District | 1%  | \$3,855   |

**REMARKS:**



# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

| Project Number                         |  | I11B         | Done By: BDE             |                           | Checked: MJR                   |              |
|--|--|--------------|--------------------------|---------------------------|--------------------------------|--------------|
| Description                            |  | Cost         | Unit                     | Quantity                  | Total                          |              |
| Construction Items                     |  |              |                          |                           |                                |              |
| Traffic Signals                        |  |              |                          |                           |                                |              |
| New Signal (4-way)                     |  | \$200,000.00 | Each                     | 1                         | \$200,000.00                   |              |
| New Signal (3-way)                     |  | \$150,000.00 | Each                     | 0                         | \$0.00                         |              |
| Signal Modifications                   |  | \$20,000.00  | Each                     | 0                         | \$0.00                         |              |
| Emergency Vehicle Preemption Only      |  | \$10,000.00  | Each                     | 0                         | \$0.00                         |              |
| Pavement                               |  |              |                          |                           |                                |              |
| 1.5" Pavement Overlay and Milling      |  | \$7.00       | Square Yard              | 0                         | \$0.00                         |              |
| New Pavement - Arterial Roads          |  | \$46.00      | Square Yard              | 0                         | \$0.00                         |              |
| New Pavement - Collector Roads         |  | \$40.00      | Square Yard              | 0                         | \$0.00                         |              |
| New Pavement - Local Commercial Roads  |  | \$34.00      | Square Yard              | 0                         | \$0.00                         |              |
| New Pavement - Local Residential Roads |  | \$29.00      | Square Yard              | 0                         | \$0.00                         |              |
| 4" PBD                                 |  | \$7.25       | Linear Foot              | 0                         | \$0.00                         |              |
| Excavation                             |  |              |                          |                           |                                |              |
| Excavation (Borrow)                    |  | \$12.00      | Cubic Yard               | 0                         | \$0.00                         |              |
| Drainage                               |  |              |                          |                           |                                |              |
| Inlet/Manhole                          |  | \$2,400.00   | Each                     | 0                         | \$0.00                         |              |
| Pipe and Trenching                     |  | \$55.00      | Linear Foot              | 0                         | \$0.00                         |              |
| Culvert                                |  | \$700.00     | Linear Foot              | 0                         | \$0.00                         |              |
| Pavement Markings                      |  |              |                          |                           |                                |              |
| 4" Pavement Markings                   |  | \$2.00       | Linear Foot              | 1300                      | \$2,600.00                     |              |
| 8" Pavement Markings                   |  | \$8.00       | Linear Foot              | 0                         | \$0.00                         |              |
| Miscellaneous                          |  |              |                          |                           |                                |              |
| Guide Rail                             |  | \$18.00      | Linear Foot              | 0                         | \$0.00                         |              |
| Concrete Curb                          |  | \$35.00      | Linear Foot              | 0                         | \$0.00                         |              |
| Bituminous Wedge Curb                  |  | \$7.00       | Linear Foot              | 0                         | \$0.00                         |              |
| Other Miscellaneous                    |  |              |                          |                           |                                |              |
| Post Mounted Signs                     |  | \$200.00     | Each                     | 0                         | \$0.00                         |              |
|  |  |              |                          |                           | \$0.00                         |              |
|  |  |              |                          | Construction Subtotal:    |                                | \$202,600.00 |
| Mobilization                           |  | 5.0%         | Of Construction Total    |                           | \$10,130.00                    |              |
| Maintenance and Protection of Traffic  |  | 5.0%         | Of Construction Total    |                           | \$10,130.00                    |              |
| Contingency                            |  | 15.0%        | Of Construction Total    |                           | \$30,390.00                    |              |
|  |  |              |                          | Total Construction:       |                                | \$253,250.00 |
| Utility Relocation                     |  |              |                          |                           |                                |              |
| Utility Pole Relocation                |  | \$3,300.00   | Each                     | 0                         | \$0.00                         |              |
| Electric Service                       |  | \$2,000.00   | Each                     | 0                         | \$0.00                         |              |
| Water/ Gas Valves                      |  | \$250.00     | Each                     | 0                         | EXHIBIT "B" - continued \$0.00 |              |
| Fire Hydrant Relocation                |  | \$1,000.00   | Each                     | 0                         | \$0.00                         |              |
| High Tension Electric Poles            |  | \$130,000.00 | Each                     | 0                         | \$0.00                         |              |
| Sanitary Manhole                       |  | \$2,400.00   | Each                     | 0                         | \$0.00                         |              |
| Other                                  |  | \$5,000.00   | Project                  | 0                         | \$0.00                         |              |
|  |  |              |                          | Utility Subtotal:         |                                | \$0.00       |
| Contingency                            |  | 15.0%        | Of Utility Subtotal      |                           | \$0.00                         |              |
|  |  |              |                          | Total Utility Relocation: |                                | \$0.00       |
| Right-of-Way                           |  |              |                          |                           |                                |              |
| Right-of-Way - Urban                   |  | \$150,000.00 | Acres                    | 0                         | \$0.00                         |              |
| Right-of-Way - Rural                   |  | \$120,000.00 | Acres                    | 0                         | \$0.00                         |              |
| Construction Easement (75% of ROW)     |  |              | Acres                    | 0                         | \$0.00                         |              |
| Structures                             |  | \$180,000.00 | Each                     | 0                         | \$0.00                         |              |
|  |  |              |                          | Right-of-Way Subtotal:    |                                | \$0.00       |
| Contingency                            |  | 15.0%        | Of Right-of-Way Subtotal |                           | \$0.00                         |              |
|  |  |              |                          | Total Right-of-Way:       |                                | \$0.00       |
| Engineering                            |  | 11.5%        | Of Construction Total    |                           | \$29,123.75                    |              |
| Construction Inspection                |  | 8.0%         | Of Construction Total    |                           | \$20,260.00                    |              |
| Administration and Planning            |  | 1.5%         | Of Construction Total    |                           | \$3,798.75                     |              |
|  |  |              |                          | Total Project Cost:       |                                | \$306,432.50 |

## EXHIBIT "B" - continued

PROJECT CODE: I11C

TRANSPORTATION DISTRICT: Eastern/Western/Southern District

**LOCATION:**

Colonel George Howard Boulevard (SR 1040) / Denver Road (T-901) & Route 272

**DEFICIENCY:**

The current intersection geometry is deficient with 2034 projected traffic volumes.

**PROPOSED IMPROVEMENTS:**

Construct a 2nd northbound right turn lane.

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |                 |
|--------------------|-----------------|
| Construction       | 51,491          |
| Utility Relocation | 0               |
| Right-of-Way       | 0               |
| Engineering        | 5,921           |
| Inspection         | 4,119           |
| Admin & Planning   | 772             |
| <b>TOTAL</b>       | <b>\$62,304</b> |

**CONSTRUCTION YEAR AND PROJECTED COST:**

|                             |                  |
|-----------------------------|------------------|
| Construction Year           | <b>2029</b>      |
| Projected Construction Cost | <b>\$130,352</b> |

Inflation Rate: 3.76%

**PROPOSED FUNDING:**

|               |            |          |
|---------------|------------|----------|
| State/Federal | <b>50%</b> | \$65,176 |
| Other         | <b>0%</b>  | \$0      |
| Impact Fees   | <b>50%</b> | \$65,176 |

**PROJECT SCHEDULE:**

|                      | Year |
|----------------------|------|
| Secure Funding       | 2027 |
| Acquire ROW          | 2028 |
| Complete Engineering | 2028 |
| Begin Construction   | 2029 |

**TRANSPORTATION DISTRICT COST:**

|                   |            |          |
|-------------------|------------|----------|
| Western District  | <b>1%</b>  | \$652    |
| Eastern District  | <b>98%</b> | \$63,873 |
| Southern District | <b>1%</b>  | \$652    |

**REMARKS:**

# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

| Project Number                         | I11C | Done By: BDE |                          | Checked: MJR |             |
|--|------|--------------|--------------------------|--------------|-------------|
| Description                            |      | Cost         | Unit                     | Quantity     | Total       |
| Construction Items                     |      |              |                          |              |             |
| Traffic Signals                        |      |              |                          |              |             |
| New Signal (4-way)                     |      | \$200,000.00 | Each                     | 0            | \$0.00      |
| New Signal (3-way)                     |      | \$150,000.00 | Each                     | 0            | \$0.00      |
| Signal Modifications                   |      | \$20,000.00  | Each                     | 1            | \$20,000.00 |
| Emergency Vehicle Preemption Only      |      | \$10,000.00  | Each                     | 0            | \$0.00      |
| Pavement                               |      |              |                          |              |             |
| 1.5" Pavement Overlay and Milling      |      | \$7.00       | Square Yard              | 0            | \$0.00      |
| New Pavement - Arterial Roads          |      | \$46.00      | Square Yard              | 333          | \$15,318.00 |
| New Pavement - Collector Roads         |      | \$40.00      | Square Yard              | 0            | \$0.00      |
| New Pavement - Local Commercial Roads  |      | \$34.00      | Square Yard              | 0            | \$0.00      |
| New Pavement - Local Residential Roads |      | \$29.00      | Square Yard              | 0            | \$0.00      |
| 4" PBD                                 |      | \$7.25       | Linear Foot              | 300          | \$2,175.00  |
| Excavation                             |      |              |                          |              |             |
| Excavation (Borrow)                    |      | \$12.00      | Cubic Yard               | 0            | \$0.00      |
| Drainage                               |      |              |                          |              |             |
| Inlet/Manhole                          |      | \$2,400.00   | Each                     | 0            | \$0.00      |
| Pipe and Trenching                     |      | \$55.00      | Linear Foot              | 0            | \$0.00      |
| Culvert                                |      | \$700.00     | Linear Foot              | 0            | \$0.00      |
| Pavement Markings                      |      |              |                          |              |             |
| 4" Pavement Markings                   |      | \$2.00       | Linear Foot              | 400          | \$800.00    |
| 8" Pavement Markings                   |      | \$8.00       | Linear Foot              | 0            | \$0.00      |
| Miscellaneous                          |      |              |                          |              |             |
| Guide Rail                             |      | \$18.00      | Linear Foot              | 0            | \$0.00      |
| Concrete Curb                          |      | \$35.00      | Linear Foot              | 0            | \$0.00      |
| Bituminous Wedge Curb                  |      | \$7.00       | Linear Foot              | 0            | \$0.00      |
| Other Miscellaneous                    |      |              |                          |              |             |
| Post Mounted Signs                     |      | \$200.00     | Each                     | 2            | \$400.00    |
| Removal of Channelizing Island         |      | \$25.00      | SY                       | 100          | \$2,500.00  |
| Construction Subtotal:                 |      |              |                          |              | \$41,193.00 |
| Mobilization                           |      | 5.0%         | Of Construction Total    |              | \$2,059.65  |
| Maintenance and Protection of Traffic  |      | 5.0%         | Of Construction Total    |              | \$2,059.65  |
| Contingency                            |      | 15.0%        | Of Construction Total    |              | \$6,178.95  |
| Total Construction:                    |      |              |                          |              | \$51,491.25 |
| Utility Relocation                     |      |              |                          |              |             |
| Utility Pole Relocation                |      | \$3,300.00   | Each                     | 0            | \$0.00      |
| Electric Service                       |      | \$2,000.00   | Each                     | 0            | \$0.00      |
| Water/ Gas Valves                      |      | \$250.00     | Each                     | 0            | \$0.00      |
| Fire Hydrant Relocation                |      | \$1,000.00   | Each                     | 0            | \$0.00      |
| High Tension Electric Poles            |      | \$130,000.00 | Each                     | 0            | \$0.00      |
| Sanitary Manhole                       |      | \$2,400.00   | Each                     | 0            | \$0.00      |
| Other                                  |      | \$5,000.00   | Project                  | 0            | \$0.00      |
| Utility Subtotal:                      |      |              |                          |              | \$0.00      |
| Contingency                            |      | 15.0%        | Of Utility Subtotal      |              | \$0.00      |
| Total Utility Relocation:              |      |              |                          |              | \$0.00      |
| Right-of-Way                           |      |              |                          |              |             |
| Right-of-Way - Urban                   |      | \$150,000.00 | Acres                    | 0            | \$0.00      |
| Right-of-Way - Rural                   |      | \$120,000.00 | Acres                    | 0            | \$0.00      |
| Construction Easement (75% of ROW)     |      |              | Acres                    | 0            | \$0.00      |
| Structures                             |      | \$180,000.00 | Each                     | 0            | \$0.00      |
| Right-of-Way Subtotal:                 |      |              |                          |              | \$0.00      |
| Contingency                            |      | 15.0%        | Of Right-of-Way Subtotal |              | \$0.00      |
| Total Right-of-Way:                    |      |              |                          |              | \$0.00      |
| Engineering                            |      | 11.5%        | Of Construction Total    |              | \$5,921.49  |
| Construction Inspection                |      | 8.0%         | Of Construction Total    |              | \$4,119.30  |
| Administration and Planning            |      | 1.5%         | Of Construction Total    |              | \$772.37    |
| Total Project Cost:                    |      |              |                          |              | \$62,304.41 |

## EXHIBIT "B" - continued

PROJECT CODE: I11D

TRANSPORTATION DISTRICT: Eastern/Western/Southern District

**LOCATION:**

Colonel George Howard Boulevard (SR 1040) / Denver Road (T-901) & Route 272

**DEFICIENCY:**

The current intersection geometry is deficient with 2034 projected traffic volumes.

**PROPOSED IMPROVEMENTS:**

Construct a 2nd westbound right turn lane.

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |                 |
|--------------------|-----------------|
| Construction       | 60,679          |
| Utility Relocation | 0               |
| Right-of-Way       | 0               |
| Engineering        | 6,978           |
| Inspection         | 4,854           |
| Admin & Planning   | 910             |
| <b>TOTAL</b>       | <b>\$73,421</b> |

**CONSTRUCTION YEAR AND PROJECTED COST:**

Construction Year 

|      |
|------|
| 2029 |
|------|

  
Projected Construction Cost \$153,611

Inflation Rate: 3.76%

**PROPOSED FUNDING:**

|               |     |          |
|---------------|-----|----------|
| State/Federal | 50% | \$76,805 |
| Other         | 0%  | \$0      |
| Impact Fees   | 50% | \$76,805 |

**PROJECT SCHEDULE:**

|                      | Year |
|----------------------|------|
| Secure Funding       | 2027 |
| Acquire ROW          | 2028 |
| Complete Engineering | 2028 |
| Begin Construction   | 2029 |

**TRANSPORTATION DISTRICT COST:**

|                   |     |          |
|-------------------|-----|----------|
| Western District  | 1%  | \$768    |
| Eastern District  | 98% | \$75,269 |
| Southern District | 1%  | \$768    |

**REMARKS:**

# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

| Project Number                         | I11D | Done By: BDE |                          | Checked: MJR |             |
|--|------|--------------|--------------------------|--------------|-------------|
| Description                            |      | Cost         | Unit                     | Quantity     | Total       |
| Construction Items                     |      |              |                          |              |             |
| Traffic Signals                        |      |              |                          |              |             |
| New Signal (4-way)                     |      | \$200,000.00 | Each                     | 0            | \$0.00      |
| New Signal (3-way)                     |      | \$150,000.00 | Each                     | 0            | \$0.00      |
| Signal Modifications                   |      | \$20,000.00  | Each                     | 1            | \$20,000.00 |
| Emergency Vehicle Preemption Only      |      | \$10,000.00  | Each                     | 0            | \$0.00      |
| Pavement                               |      |              |                          |              |             |
| 1.5" Pavement Overlay and Milling      |      | \$7.00       | Square Yard              | 0            | \$0.00      |
| New Pavement - Arterial Roads          |      | \$46.00      | Square Yard              | 333          | \$15,318.00 |
| New Pavement - Collector Roads         |      | \$40.00      | Square Yard              | 0            | \$0.00      |
| New Pavement - Local Commercial Roads  |      | \$34.00      | Square Yard              | 0            | \$0.00      |
| New Pavement - Local Residential Roads |      | \$29.00      | Square Yard              | 0            | \$0.00      |
| 4" PBD                                 |      | \$7.25       | Linear Foot              | 300          | \$2,175.00  |
| Excavation                             |      |              |                          |              |             |
| Excavation (Borrow)                    |      | \$12.00      | Cubic Yard               | 0            | \$0.00      |
| Drainage                               |      |              |                          |              |             |
| Inlet/Manhole                          |      | \$2,400.00   | Each                     | 0            | \$0.00      |
| Pipe and Trenching                     |      | \$55.00      | Linear Foot              | 0            | \$0.00      |
| Culvert                                |      | \$700.00     | Linear Foot              | 0            | \$0.00      |
| Pavement Markings                      |      |              |                          |              |             |
| 4" Pavement Markings                   |      | \$2.00       | Linear Foot              | 400          | \$800.00    |
| 8" Pavement Markings                   |      | \$8.00       | Linear Foot              | 0            | \$0.00      |
| Miscellaneous                          |      |              |                          |              |             |
| Guide Rail                             |      | \$18.00      | Linear Foot              | 0            | \$0.00      |
| Concrete Curb                          |      | \$35.00      | Linear Foot              | 0            | \$0.00      |
| Bituminous Wedge Curb                  |      | \$7.00       | Linear Foot              | 0            | \$0.00      |
| Other Miscellaneous                    |      |              |                          |              |             |
| Post Mounted Signs                     |      | \$200.00     | Each                     | 0            | \$0.00      |
| Removal of Channelizing Island         |      | \$25.00      | SY                       | 410          | \$10,250.00 |
| Construction Subtotal:                 |      |              |                          |              | \$48,543.00 |
| Mobilization                           |      | 5.0%         | Of Construction Total    |              | \$2,427.15  |
| Maintenance and Protection of Traffic  |      | 5.0%         | Of Construction Total    |              | \$2,427.15  |
| Contingency                            |      | 15.0%        | Of Construction Total    |              | \$7,281.45  |
| Total Construction:                    |      |              |                          |              | \$60,678.75 |
| Utility Relocation                     |      |              |                          |              |             |
| Utility Pole Relocation                |      | \$3,300.00   | Each                     | 0            | \$0.00      |
| Electric Service                       |      | \$2,000.00   | Each                     | 0            | \$0.00      |
| Water/ Gas Valves                      |      | \$250.00     | Each                     | 0            | \$0.00      |
| Fire Hydrant Relocation                |      | \$1,000.00   | Each                     | 0            | \$0.00      |
| High Tension Electric Poles            |      | \$130,000.00 | Each                     | 0            | \$0.00      |
| Sanitary Manhole                       |      | \$2,400.00   | Each                     | 0            | \$0.00      |
| Other                                  |      | \$5,000.00   | Project                  | 0            | \$0.00      |
| Utility Subtotal:                      |      |              |                          |              | \$0.00      |
| Contingency                            |      | 15.0%        | Of Utility Subtotal      |              | \$0.00      |
| Total Utility Relocation:              |      |              |                          |              | \$0.00      |
| Right-of-Way                           |      |              |                          |              |             |
| Right-of-Way - Urban                   |      | \$150,000.00 | Acres                    | 0            | \$0.00      |
| Right-of-Way - Rural                   |      | \$120,000.00 | Acres                    | 0            | \$0.00      |
| Construction Easement (75% of ROW)     |      |              | Acres                    | 0            | \$0.00      |
| Structures                             |      | \$180,000.00 | Each                     | 0            | \$0.00      |
| Right-of-Way Subtotal:                 |      |              |                          |              | \$0.00      |
| Contingency                            |      | 15.0%        | Of Right-of-Way Subtotal |              | \$0.00      |
| Total Right-of-Way:                    |      |              |                          |              | \$0.00      |
| Engineering                            |      | 11.5%        | Of Construction Total    |              | \$6,978.06  |
| Construction Inspection                |      | 8.0%         | Of Construction Total    |              | \$4,854.30  |
| Administration and Planning            |      | 1.5%         | Of Construction Total    |              | \$910.18    |
| Total Project Cost:                    |      |              |                          |              | \$73,421.29 |

## EXHIBIT "B" - continued

PROJECT CODE: I18

TRANSPORTATION DISTRICT:

Eastern/Western District

**LOCATION:**

Route 272 & Pepperidge Farm Driveway

**DEFICIENCY:**

The current intersection geometry is deficient with 2034 projected traffic volumes.

**PROPOSED IMPROVEMENTS:**

Realign and Signalize with Route 272 & Hill Road (T-846).

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |                  |
|--------------------|------------------|
| Construction       | 581,175          |
| Utility Relocation | 71,990           |
| Right-of-Way       | 0                |
| Engineering        | 66,835           |
| Inspection         | 46,494           |
| Admin & Planning   | 8,718            |
| <b>TOTAL</b>       | <b>\$775,212</b> |

**CONSTRUCTION YEAR AND PROJECTED COST:**

|                             |             |
|-----------------------------|-------------|
| Construction Year           | 2029        |
| Projected Construction Cost | \$1,621,883 |

Inflation Rate: 3.76%

**PROPOSED FUNDING:**

|               |      |             |
|---------------|------|-------------|
| State/Federal | 0%   | \$0         |
| Other         | 0%   | \$0         |
| Impact Fees   | 100% | \$1,621,883 |

**PROJECT SCHEDULE:**

|                      | Year |
|----------------------|------|
| Secure Funding       | 2027 |
| Acquire ROW          | 2028 |
| Complete Engineering | 2028 |
| Begin Construction   | 2029 |

**TRANSPORTATION DISTRICT COST:**

|                   |      |             |
|-------------------|------|-------------|
| Western District  | 0%   | \$0         |
| Eastern District  | 100% | \$1,621,883 |
| Southern District | 0%   | \$0         |

**REMARKS:**

Road to be built when site is developed adjacent to relocated road. Right-of-way to be acquired through the land development process.  
Ownership of Turnpike Bridge to remain with Turnpike.

EXHIBIT "B" - continued

# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

Project Number **I18** Done By: BDE Checked: MJR

| Description                                  | Cost         | Unit                     | Quantity | Total               |
|--|--------------|--------------------------|----------|---------------------|
| <b>Construction Items</b>                    |              |                          |          |                     |
| <b>Traffic Signals</b>                       |              |                          |          |                     |
| New Signal (4-way)                           | \$200,000.00 | Each                     | 0        | \$0.00              |
| New Signal (3-way)                           | \$150,000.00 | Each                     | 0        | \$0.00              |
| Signal Modifications                         | \$20,000.00  | Each                     | 4        | \$80,000.00         |
| Emergency Vehicle Preemption Only            | \$10,000.00  | Each                     | 0        | \$0.00              |
| <b>Pavement</b>                              |              |                          |          |                     |
| 1.5" Pavement Overlay and Milling            | \$7.00       | Square Yard              | 0        | \$0.00              |
| New Pavement - Arterial Roads                | \$46.00      | Square Yard              | 0        | \$0.00              |
| New Pavement - Collector Roads               | \$40.00      | Square Yard              | 3600     | \$144,000.00        |
| New Pavement - Local Commercial Roads        | \$34.00      | Square Yard              | 0        | \$0.00              |
| New Pavement - Local Residential Roads       | \$29.00      | Square Yard              | 0        | \$0.00              |
| 4" PBD                                       | \$7.25       | Linear Foot              | 1600     | \$11,600.00         |
| <b>Excavation</b>                            |              |                          |          |                     |
| Excavation (Borrow)                          | \$12.00      | Cubic Yard               | 0        | \$0.00              |
| <b>Drainage</b>                              |              |                          |          |                     |
| Inlet/Manhole                                | \$2,400.00   | Each                     | 10       | \$24,000.00         |
| Pipe and Trenching                           | \$55.00      | Linear Foot              | 1500     | \$82,500.00         |
| Culvert                                      | \$700.00     | Linear Foot              | 0        | \$0.00              |
| <b>Pavement Markings</b>                     |              |                          |          |                     |
| 4" Pavement Markings                         | \$2.00       | Linear Foot              | 3200     | \$6,400.00          |
| 8" Pavement Markings                         | \$8.00       | Linear Foot              | 0        | \$0.00              |
| <b>Miscellaneous</b>                         |              |                          |          |                     |
| Guide Rail                                   | \$18.00      | Linear Foot              | 0        | \$0.00              |
| Concrete Curb                                | \$35.00      | Linear Foot              | 2000     | \$70,000.00         |
| Bituminous Wedge Curb                        | \$7.00       | Linear Foot              | 0        | \$0.00              |
| <b>Other Miscellaneous</b>                   |              |                          |          |                     |
| Post Mounted Signs                           | \$200.00     | Each                     | 10       | \$2,000.00          |
| ADA Upgrades                                 | \$10,000.00  | LS                       | 1        | \$10,000.00         |
| <b>Construction Subtotal:</b>                |              |                          |          | <b>\$430,500.00</b> |
| <b>Mobilization</b>                          | 5.0%         | Of Construction Total    |          | <b>\$21,525.00</b>  |
| <b>Maintenance and Protection of Traffic</b> | 5.0%         | Of Construction Total    |          | <b>\$21,525.00</b>  |
| <b>Contingency</b>                           | 25.0%        | Of Construction Total    |          | <b>\$107,625.00</b> |
| <b>Total Construction:</b>                   |              |                          |          | <b>\$581,175.00</b> |
| <b>Utility Relocation</b>                    |              |                          |          |                     |
| Utility Pole Relocation                      | \$3,300.00   | Each                     | 2        | \$6,600.00          |
| Electric Service                             | \$2,000.00   | Each                     | 0        | \$0.00              |
| Water/ Gas Valves                            | \$250.00     | Each                     | 0        | \$0.00              |
| Fire Hydrant Relocation                      | \$1,000.00   | Each                     | 1        | \$1,000.00          |
| High Tension Electric Poles                  | \$130,000.00 | Each                     | 0        | \$0.00              |
| Sanitary Manhole                             | \$2,400.00   | Each                     | 0        | \$0.00              |
| Street Lights                                | \$5,000.00   | Project                  | 11       | \$55,000.00         |
| <b>Utility Subtotal:</b>                     |              |                          |          | <b>\$62,600.00</b>  |
| <b>Contingency</b>                           | 15.0%        | Of Utility Subtotal      |          | <b>\$9,390.00</b>   |
| <b>Total Utility Relocation:</b>             |              |                          |          | <b>\$71,990.00</b>  |
| <b>Right-of-Way</b>                          |              |                          |          |                     |
| Right-of-Way - Urban                         | \$150,000.00 | Acres                    | 0        | \$0.00              |
| Right-of-Way - Rural                         | \$120,000.00 | Acres                    | 0        | \$0.00              |
| Construction Easement (75% of ROW)           |              | Acres                    | 0        | \$0.00              |
| Structures                                   | \$180,000.00 | Each                     | 0        | \$0.00              |
| <b>Right-of-Way Subtotal:</b>                |              |                          |          | <b>\$0.00</b>       |
| <b>Contingency</b>                           | 15.0%        | Of Right-of-Way Subtotal |          | <b>\$0.00</b>       |
| <b>Total Right-of-Way:</b>                   |              |                          |          | <b>\$0.00</b>       |
| <b>Engineering</b>                           | 11.5%        | Of Construction Total    |          | <b>\$66,835.13</b>  |
| <b>Construction Inspection</b>               | 8.0%         | Of Construction Total    |          | <b>\$46,494.00</b>  |
| <b>Administration and Planning</b>           | 1.5%         | Of Construction Total    |          | <b>\$8,717.63</b>   |
| <b>Total Project Cost:</b>                   |              |                          |          | <b>\$775,211.75</b> |

## EXHIBIT "B" - continued

PROJECT CODE: 122

TRANSPORTATION DISTRICT:

Eastern/Southern District

**LOCATION:**

Muddy Creek Road (SR 1059) & Trost Road (T-953)

**DEFICIENCY:**

The current intersection geometry is deficient with 2034 projected traffic volumes.

**PROPOSED IMPROVEMENTS:**

**Project Deleted. Not feasible- PENNDOT will not permit installation of All-Way Stop Control**

Install all-way stop control and channelize the eastbound right turn movement.

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |                  |
|--------------------|------------------|
| Construction       | 165,665          |
| Utility Relocation | 7,590            |
| Right-of-Way       | 133,074          |
| Engineering        | 19,051           |
| Inspection         | 13,253           |
| Admin & Planning   | 2,485            |
| <b>TOTAL</b>       | <b>\$341,119</b> |

**CONSTRUCTION YEAR AND PROJECTED COST:**

Construction Year

2034

Inflation Rate: 3.76%

Projected Construction Cost

\$858,332

**PROPOSED FUNDING:**

|               |    |     |
|---------------|----|-----|
| State/Federal | 0% | \$0 |
| Other         | 0% | \$0 |
| Impact Fees   | 0% | \$0 |

**PROJECT SCHEDULE:**

|                      | Year |
|----------------------|------|
| Secure Funding       | 2032 |
| Acquire ROW          | 2033 |
| Complete Engineering | 2033 |
| Begin Construction   | 2034 |

**TRANSPORTATION DISTRICT COST:**

|                   |     |     |
|-------------------|-----|-----|
| Western District  | 0%  | \$0 |
| Eastern District  | 41% | \$0 |
| Southern District | 59% | \$0 |

**REMARKS:**

Candidate project. May turn into future signal project



# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

| Project Number                         |  | I22 | Done By: BDE |                          | Checked: MJR              |              |
|--|--|-----|--------------|--------------------------|---------------------------|--------------|
| Description                            |  |     | Cost         | Unit                     | Quantity                  | Total        |
| Construction Items                     |  |     |              |                          |                           |              |
| Traffic Signals                        |  |     |              |                          |                           |              |
| New Signal (4-way)                     |  |     | \$200,000.00 | Each                     | 0                         | \$0.00       |
| New Signal (3-way)                     |  |     | \$150,000.00 | Each                     | 0                         | \$0.00       |
| Signal Modifications                   |  |     | \$20,000.00  | Each                     | 0                         | \$0.00       |
| Emergency Vehicle Preemption Only      |  |     | \$10,000.00  | Each                     | 0                         | \$0.00       |
| Pavement                               |  |     |              |                          |                           |              |
| 1.5" Pavement Overlay and Milling      |  |     | \$7.00       | Square Yard              | 0                         | \$0.00       |
| New Pavement - Arterial Roads          |  |     | \$46.00      | Square Yard              | 2667                      | \$122,682.00 |
| New Pavement - Collector Roads         |  |     | \$40.00      | Square Yard              | 0                         | \$0.00       |
| New Pavement - Local Commercial Roads  |  |     | \$34.00      | Square Yard              | 0                         | \$0.00       |
| New Pavement - Local Residential Roads |  |     | \$29.00      | Square Yard              | 0                         | \$0.00       |
| 4" PBD                                 |  |     | \$7.25       | Linear Foot              | 200                       | \$1,450.00   |
| Excavation                             |  |     |              |                          |                           |              |
| Excavation (Borrow)                    |  |     | \$12.00      | Cubic Yard               | 0                         | \$0.00       |
| Drainage                               |  |     |              |                          |                           |              |
| Inlet/Manhole                          |  |     | \$2,400.00   | Each                     | 0                         | \$0.00       |
| Pipe and Trenching                     |  |     | \$55.00      | Linear Foot              | 0                         | \$0.00       |
| Culvert                                |  |     | \$700.00     | Linear Foot              | 0                         | \$0.00       |
| Pavement Markings                      |  |     |              |                          |                           |              |
| 4" Pavement Markings                   |  |     | \$2.00       | Linear Foot              | 200                       | \$400.00     |
| 8" Pavement Markings                   |  |     | \$8.00       | Linear Foot              | 0                         | \$0.00       |
| Miscellaneous                          |  |     |              |                          |                           |              |
| Guide Rail                             |  |     | \$18.00      | Linear Foot              | 0                         | \$0.00       |
| Concrete Curb                          |  |     | \$35.00      | Linear Foot              | 200                       | \$7,000.00   |
| Bituminous Wedge Curb                  |  |     | \$7.00       | Linear Foot              | 0                         | \$0.00       |
| Other Miscellaneous                    |  |     |              |                          |                           |              |
| Post Mounted Signs                     |  |     | \$200.00     | Each                     | 5                         | \$1,000.00   |
|  |  |     |              |                          |                           | \$0.00       |
|  |  |     |              |                          | Construction Subtotal:    | \$132,532.00 |
| Mobilization                           |  |     | 5.0%         | Of Construction Total    |                           | \$6,626.60   |
| Maintenance and Protection of Traffic  |  |     | 5.0%         | Of Construction Total    |                           | \$6,626.60   |
| Contingency                            |  |     | 15.0%        | Of Construction Total    |                           | \$19,879.80  |
|  |  |     |              |                          | Total Construction:       | \$165,665.00 |
| Utility Relocation                     |  |     |              |                          |                           |              |
| Utility Pole Relocation                |  |     | \$3,300.00   | Each                     | 2                         | \$6,600.00   |
| Electric Service                       |  |     | \$2,000.00   | Each                     | 0                         | \$0.00       |
| Water/ Gas Valves                      |  |     | \$250.00     | Each                     | 0                         | \$0.00       |
| Fire Hydrant Relocation                |  |     | \$1,000.00   | Each                     | 0                         | \$0.00       |
| High Tension Electric Poles            |  |     | \$130,000.00 | Each                     | 0                         | \$0.00       |
| Sanitary Manhole                       |  |     | \$2,400.00   | Each                     | 0                         | \$0.00       |
| Other                                  |  |     | \$5,000.00   | Project                  | 0                         | \$0.00       |
|  |  |     |              |                          | Utility Subtotal:         | \$6,600.00   |
| Contingency                            |  |     | 15.0%        | Of Utility Subtotal      |                           | \$990.00     |
|  |  |     |              |                          | Total Utility Relocation: | \$7,590.00   |
| Right-of-Way                           |  |     |              |                          |                           |              |
| Right-of-Way - Urban                   |  |     | \$150,000.00 | Acres                    | 0                         | \$0.00       |
| Right-of-Way - Rural                   |  |     | \$120,000.00 | Acres                    | 0.551033058               | \$66,123.97  |
| Construction Easement (75% of ROW)     |  |     |              | Acres                    | 0                         | \$49,592.98  |
| Structures                             |  |     | \$180,000.00 | Each                     | 0                         | \$0.00       |
|  |  |     |              |                          | Right-of-Way Subtotal:    | \$115,716.94 |
| Contingency                            |  |     | 15.0%        | Of Right-of-Way Subtotal |                           | \$17,357.54  |
|  |  |     |              |                          | Total Right-of-Way:       | \$133,074.48 |
| Engineering                            |  |     | 11.5%        | Of Construction Total    |                           | \$19,051.48  |
| Construction Inspection                |  |     | 8.0%         | Of Construction Total    |                           | \$13,253.20  |
| Administraction and Planning           |  |     | 1.5%         | Of Construction Total    |                           | \$2,484.98   |
|  |  |     |              |                          | Total Project Cost:       | \$341,119.13 |

## EXHIBIT "B" - continued

PROJECT CODE: S22

TRANSPORTATION DISTRICT: Eastern/Southern District

**LOCATION:**

Colonel George Howard Boulevard (SR 1040)

**DEFICIENCY:**

The current roadway segment is deficient with 2034 projected traffic volumes.

**PROPOSED IMPROVEMENTS:**

Construct additional 3rd thru lanes (triple thrus in each direction between Route 272 and the first Route 222 ramp). Tie into SR 222 Interchange work (I07 and I08).

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |             |
|--------------------|-------------|
| Construction       | 1,953,659   |
| Utility Relocation | 26,795      |
| Right-of-Way       | 0           |
| Engineering        | 224,671     |
| Inspection         | 156,293     |
| Admin & Planning   | 29,305      |
| TOTAL              | \$2,390,723 |

**CONSTRUCTION YEAR AND PROJECTED COST:**

|                             |             |                       |
|-----------------------------|-------------|-----------------------|
| Construction Year           | 2027        | Inflation Rate: 3.76% |
| Projected Construction Cost | \$4,645,886 |                       |

**PROPOSED FUNDING:**

|               |     |             |
|---------------|-----|-------------|
| State/Federal | 80% | \$3,716,709 |
| Other         | 0%  | \$0         |
| Impact Fees   | 20% | \$929,177   |

**PROJECT SCHEDULE:**

|                      | Year |
|----------------------|------|
| Secure Funding       | 2025 |
| Acquire ROW          | 2026 |
| Complete Engineering | 2026 |
| Begin Construction   | 2027 |

**TRANSPORTATION DISTRICT COST:**

|                   |     |           |
|-------------------|-----|-----------|
| Western District  | 0%  | \$0       |
| Eastern District  | 41% | \$380,963 |
| Southern District | 59% | \$548,215 |

**REMARKS:**

# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

| Project Number                           | S22          | Done By: BDE             |          | Checked: MJR                   |  |
|--|--------------|--------------------------|----------|--------------------------------|--|
| Description                              | Cost         | Unit                     | Quantity | Total                          |  |
| Construction Items                       |              |                          |          |                                |  |
| Traffic Signals                          |              |                          |          |                                |  |
| New Signal (4-way)                       | \$200,000.00 | Each                     | 3        | \$600,000.00                   |  |
| New Signal (3-way)                       | \$150,000.00 | Each                     | 0        | \$0.00                         |  |
| Signal Modifications                     | \$20,000.00  | Each                     | 0        | \$0.00                         |  |
| Emergency Vehicle Preemption Only        | \$10,000.00  | Each                     | 0        | \$0.00                         |  |
| Pavement                                 |              |                          |          |                                |  |
| 1.5" Pavement Overlay and Milling        | \$7.00       | Square Yard              | 0        | \$0.00                         |  |
| New Pavement - Arterial Roads            | \$75.00      | Square Yard              | 6667     | \$500,025.00                   |  |
| New Pavement - Collector Roads- Shoulder | \$40.00      | Square Yard              | 6667     | \$266,680.00                   |  |
| New Pavement - Local Commercial Roads    | \$34.00      | Square Yard              | 0        | \$0.00                         |  |
| New Pavement - Local Residential Roads   | \$29.00      | Square Yard              | 0        | \$0.00                         |  |
| 4" PBD                                   | \$7.25       | Linear Foot              | 5000     | \$36,250.00                    |  |
| Excavation                               |              |                          |          |                                |  |
| Excavation (Borrow)                      | \$12.00      | Cubic Yard               | 0        | \$0.00                         |  |
| Drainage                                 |              |                          |          |                                |  |
| Inlet/Manhole                            | \$2,400.00   | Each                     | 3        | \$7,200.00                     |  |
| Pipe and Trenching                       | \$55.00      | Linear Foot              | 0        | \$0.00                         |  |
| Culvert                                  | \$700.00     | Linear Foot              | 0        | \$0.00                         |  |
| Pavement Markings                        |              |                          |          |                                |  |
| 4" Pavement Markings                     | \$2.00       | Linear Foot              | 10000    | \$20,000.00                    |  |
| 8" Pavement Markings                     | \$8.00       | Linear Foot              | 0        | \$0.00                         |  |
| Miscellaneous                            |              |                          |          |                                |  |
| Guide Rail                               | \$18.00      | Linear Foot              | 200      | \$3,600.00                     |  |
| Concrete Curb                            | \$35.00      | Linear Foot              | 200      | \$7,000.00                     |  |
| Bituminous Wedge Curb                    | \$7.00       | Linear Foot              | 0        | \$0.00                         |  |
| Other Miscellaneous                      |              |                          |          |                                |  |
| Post Mounted Signs                       | \$200.00     | Each                     | 32       | \$6,400.00                     |  |
|  |              |                          |          | \$0.00                         |  |
| Construction Subtotal:                   |              |                          |          | \$1,447,155.00                 |  |
| Mobilization                             | 5.0%         | Of Construction Total    |          | \$72,357.75                    |  |
| Maintenance and Protection of Traffic    | 5.0%         | Of Construction Total    |          | \$72,357.75                    |  |
| Contingency                              | 25.0%        | Of Construction Total    |          | \$361,788.75                   |  |
| Total Construction:                      |              |                          |          | \$1,953,659.25                 |  |
| Utility Relocation                       |              |                          |          |                                |  |
| Utility Pole Relocation                  | \$3,300.00   | Each                     | 1        | \$3,300.00                     |  |
| Electric Service                         | \$2,000.00   | Each                     | 0        | \$0.00                         |  |
| Water/ Gas Valves                        | \$250.00     | Each                     | 0        | EXHIBIT "B" - continued \$0.00 |  |
| Fire Hydrant Relocation                  | \$1,000.00   | Each                     | 0        | \$0.00                         |  |
| High Tension Electric Poles              | \$130,000.00 | Each                     | 0        | \$0.00                         |  |
| Sanitary Manhole                         | \$2,400.00   | Each                     | 0        | \$0.00                         |  |
| Street Lights                            | \$5,000.00   | Project                  | 4        | \$20,000.00                    |  |
| Utility Subtotal:                        |              |                          |          | \$23,300.00                    |  |
| Contingency                              | 15.0%        | Of Utility Subtotal      |          | \$3,495.00                     |  |
| Total Utility Relocation:                |              |                          |          | \$26,795.00                    |  |
| Right-of-Way                             |              |                          |          |                                |  |
| Right-of-Way - Urban                     | \$150,000.00 | Acres                    | 0        | \$0.00                         |  |
| Right-of-Way - Rural                     | \$120,000.00 | Acres                    | 0        | \$0.00                         |  |
| Construction Easement (75% of ROW)       |              | Acres                    | 0        | \$0.00                         |  |
| Structures                               | \$180,000.00 | Each                     | 0        | \$0.00                         |  |
| Right-of-Way Subtotal:                   |              |                          |          | \$0.00                         |  |
| Contingency                              | 15.0%        | Of Right-of-Way Subtotal |          | \$0.00                         |  |
| Total Right-of-Way:                      |              |                          |          | \$0.00                         |  |
| Engineering                              | 11.5%        | Of Construction Total    |          | \$224,670.81                   |  |
| Construction Inspection                  | 8.0%         | Of Construction Total    |          | \$156,292.74                   |  |
| Administration and Planning              | 1.5%         | Of Construction Total    |          | \$29,304.89                    |  |
| Total Project Cost:                      |              |                          |          | \$2,390,722.69                 |  |

## EXHIBIT "B" - continued

PROJECT CODE: 123

TRANSPORTATION DISTRICT:

Eastern District

**LOCATION:**

Muddy Creek Road (SR 1059) & Stone Hill Road (T-862)

**DEFICIENCY:**

The current intersection is deficient with 2034 projected traffic volumes.

**PROPOSED IMPROVEMENTS:**

Install all-way stop control.

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |         |
|--------------------|---------|
| Construction       | 1,000   |
| Utility Relocation | 0       |
| Right-of-Way       | 0       |
| Engineering        | 115     |
| Inspection         | 80      |
| Admin & Planning   | 15      |
| TOTAL              | \$1,210 |

**CONSTRUCTION YEAR AND PROJECTED COST:**

Construction Year

2034

Inflation Rate: 3.76%

Projected Construction Cost

\$3,045

**PROPOSED FUNDING:**

|               |     |         |
|---------------|-----|---------|
| State/Federal | 50% | \$1,522 |
| Other         | 0%  | \$0     |
| Impact Fees   | 50% | \$1,522 |

**PROJECT SCHEDULE:**

|                      | Year |
|----------------------|------|
| Secure Funding       | 2032 |
| Acquire ROW          | 2033 |
| Complete Engineering | 2033 |
| Begin Construction   | 2034 |

**TRANSPORTATION DISTRICT COST:**

|                   |      |         |
|-------------------|------|---------|
| Western District  | 0%   | \$0     |
| Eastern District  | 100% | \$1,522 |
| Southern District | 0%   | \$0     |

**REMARKS:**

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

|                |     |
|----------------|-----|
| Project Number | 123 |
|----------------|-----|

Done By: BDE

Checked: MJR

| Description                                  | Cost         | Unit                  | Quantity | Total             |
|--|--------------|-----------------------|----------|-------------------|
| <b>Construction Items</b>                    |              |                       |          |                   |
| <b>Traffic Signals</b>                       |              |                       |          |                   |
| New Signal (4-way)                           | \$200,000.00 | Each                  | 0        | \$0.00            |
| New Signal (3-way)                           | \$150,000.00 | Each                  | 0        | \$0.00            |
| Signal Modifications                         | \$20,000.00  | Each                  | 0        | \$0.00            |
| Emergency Vehicle Preemption Only            | \$10,000.00  | Each                  | 0        | \$0.00            |
| <b>Pavement</b>                              |              |                       |          |                   |
| 1.5" Pavement Overlay and Milling            | \$7.00       | Square Yard           | 0        | \$0.00            |
| New Pavement - Arterial Roads                | \$46.00      | Square Yard           | 0        | \$0.00            |
| New Pavement - Collector Roads               | \$40.00      | Square Yard           | 0        | \$0.00            |
| New Pavement - Local Commercial Roads        | \$34.00      | Square Yard           | 0        | \$0.00            |
| New Pavement - Local Residential Roads       | \$29.00      | Square Yard           | 0        | \$0.00            |
| 4" PBD                                       | \$7.25       | Linear Foot           | 0        | \$0.00            |
| <b>Excavation</b>                            |              |                       |          |                   |
| Excavation (Borrow)                          | \$12.00      | Cubic Yard            | 0        | \$0.00            |
| <b>Drainage</b>                              |              |                       |          |                   |
| Inlet/Manhole                                | \$2,400.00   | Each                  | 0        | \$0.00            |
| Pipe and Trenching                           | \$55.00      | Linear Foot           | 0        | \$0.00            |
| Culvert                                      | \$700.00     | Linear Foot           | 0        | \$0.00            |
| <b>Pavement Markings</b>                     |              |                       |          |                   |
| 4" Pavement Markings                         | \$2.00       | Linear Foot           | 0        | \$0.00            |
| 8" Pavement Markings                         | \$8.00       | Linear Foot           | 0        | \$0.00            |
| <b>Miscellaneous</b>                         |              |                       |          |                   |
| Guide Rail                                   | \$18.00      | Linear Foot           | 0        | \$0.00            |
| Concrete Curb                                | \$35.00      | Linear Foot           | 0        | \$0.00            |
| Bituminous Wedge Curb                        | \$7.00       | Linear Foot           | 0        | \$0.00            |
| <b>Other Miscellaneous</b>                   |              |                       |          |                   |
| Post Mounted Signs                           | \$200.00     | Each                  | 4        | \$800.00          |
|  |              |                       |          | \$0.00            |
| <b>Construction Subtotal:</b>                |              |                       |          | \$800.00          |
| <b>Mobilization</b>                          | 5.0%         | Of Construction Total |          | \$40.00           |
| <b>Maintenance and Protection of Traffic</b> | 5.0%         | Of Construction Total |          | \$40.00           |
| <b>Contingency</b>                           | 15.0%        | Of Construction Total |          | \$120.00          |
| <b>Total Construction:</b>                   |              |                       |          | <b>\$1,000.00</b> |

## Utility Relocation

[illegible]

## EXHIBIT "B" - continued

PROJECT CODE: S28

TRANSPORTATION DISTRICT:

Southern District

**LOCATION:**

Church Street (SR 1051), between Route 272 & Red Run Road (SR 1044)

**DEFICIENCY:**

The current roadway segment is deficient with 2034 projected traffic volumes.

**PROPOSED IMPROVEMENTS:**

Widen to 11' lanes with 4' shoulders.

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |           |
|--------------------|-----------|
| Construction       | 204,725   |
| Utility Relocation | 166,635   |
| Right-of-Way       | 0         |
| Engineering        | 23,543    |
| Inspection         | 16,378    |
| Admin & Planning   | 3,071     |
| TOTAL              | \$414,352 |

**CONSTRUCTION YEAR AND PROJECTED COST:**

Construction Year

2034

Inflation Rate: 3.76%

Projected Construction Cost

\$1,042,603

**PROPOSED FUNDING:**

|               |      |             |
|---------------|------|-------------|
| State/Federal | 100% | \$1,042,603 |
| Other         | 0%   | \$0         |
| Impact Fees   | 0%   | \$0         |

**PROJECT SCHEDULE:**

|                      | Year |
|----------------------|------|
| Secure Funding       | 2032 |
| Acquire ROW          | 2033 |
| Complete Engineering | 2033 |
| Begin Construction   | 2034 |

**TRANSPORTATION DISTRICT COST:**

|                   |      |     |
|-------------------|------|-----|
| Western District  | 0%   | \$0 |
| Eastern District  | 0%   | \$0 |
| Southern District | 100% | \$0 |

**REMARKS:**

# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

|  |              |                          |       |                                |       |
|--|--------------|--------------------------|-------|--------------------------------|-------|
| Project Number                         | S28          | Done By: BDE             |       | Checked: MJR                   |       |
| Description                            |              | Cost                     | Unit  | Quantity                       | Total |
| Construction Items                     |              |                          |       |                                |       |
| Traffic Signals                        |              |                          |       |                                |       |
| New Signal (4-way)                     | \$200,000.00 | Each                     | 0     | \$0.00                         |       |
| New Signal (3-way)                     | \$150,000.00 | Each                     | 0     | \$0.00                         |       |
| Signal Modifications                   | \$20,000.00  | Each                     | 0     | \$0.00                         |       |
| Emergency Vehicle Preemption Only      | \$10,000.00  | Each                     | 0     | \$0.00                         |       |
| Pavement                               |              |                          |       |                                |       |
| 1.5" Pavement Overlay and Milling      | \$7.00       | Square Yard              | 0     | \$0.00                         |       |
| New Pavement - Arterial Roads          | \$46.00      | Square Yard              | 0     | \$0.00                         |       |
| New Pavement - Collector Roads         | \$40.00      | Square Yard              | 2222  | \$88,880.00                    |       |
| New Pavement - Local Commercial Roads  | \$34.00      | Square Yard              | 0     | \$0.00                         |       |
| New Pavement - Local Residential Roads | \$29.00      | Square Yard              | 0     | \$0.00                         |       |
| 4" PBD                                 | \$7.25       | Linear Foot              | 10000 | \$72,500.00                    |       |
| Excavation                             |              |                          |       |                                |       |
| Excavation (Borrow)                    | \$12.00      | Cubic Yard               | 0     | \$0.00                         |       |
| Drainage                               |              |                          |       |                                |       |
| Inlet/Manhole                          | \$2,400.00   | Each                     | 0     | \$0.00                         |       |
| Pipe and Trenching                     | \$55.00      | Linear Foot              | 0     | \$0.00                         |       |
| Culvert                                | \$700.00     | Linear Foot              | 0     | \$0.00                         |       |
| Pavement Markings                      |              |                          |       |                                |       |
| 4" Pavement Markings                   | \$2.00       | Linear Foot              | 0     | \$0.00                         |       |
| 8" Pavement Markings                   | \$8.00       | Linear Foot              | 0     | \$0.00                         |       |
| Miscellaneous                          |              |                          |       |                                |       |
| Guide Rail                             | \$18.00      | Linear Foot              | 0     | \$0.00                         |       |
| Concrete Curb                          | \$35.00      | Linear Foot              | 0     | \$0.00                         |       |
| Bituminous Wedge Curb                  | \$7.00       | Linear Foot              | 0     | \$0.00                         |       |
| Other Miscellaneous                    |              |                          |       |                                |       |
| Post Mounted Signs                     | \$200.00     | Each                     | 12    | \$2,400.00                     |       |
|  |              |                          |       | \$0.00                         |       |
| Construction Subtotal:                 |              |                          |       | \$163,780.00                   |       |
| Mobilization                           | 5.0%         | Of Construction Total    |       | \$8,189.00                     |       |
| Maintenance and Protection of Traffic  | 5.0%         | Of Construction Total    |       | \$8,189.00                     |       |
| Contingency                            | 15.0%        | Of Construction Total    |       | \$24,567.00                    |       |
| Total Construction:                    |              |                          |       | \$204,725.00                   |       |
| Utility Relocation                     |              |                          |       |                                |       |
| Utility Pole Relocation                | \$3,300.00   | Each                     | 43    | \$141,900.00                   |       |
| Electric Service                       | \$2,000.00   | Each                     | 0     | \$0.00                         |       |
| Water/ Gas Valves                      | \$250.00     | Each                     | 0     | EXHIBIT "B" - continues \$0.00 |       |
| Fire Hydrant Relocation                | \$1,000.00   | Each                     | 3     | \$3,000.00                     |       |
| High Tension Electric Poles            | \$130,000.00 | Each                     | 0     | \$0.00                         |       |
| Sanitary Manhole                       | \$2,400.00   | Each                     | 0     | \$0.00                         |       |
| Other                                  | \$5,000.00   | Project                  | 0     | \$0.00                         |       |
| Utility Subtotal:                      |              |                          |       | \$144,900.00                   |       |
| Contingency                            | 15.0%        | Of Utility Subtotal      |       | \$21,735.00                    |       |
| Total Utility Relocation:              |              |                          |       | \$166,635.00                   |       |
| Right-of-Way                           |              |                          |       |                                |       |
| Right-of-Way - Urban                   | \$150,000.00 | Acres                    | 0     | \$0.00                         |       |
| Right-of-Way - Rural                   | \$120,000.00 | Acres                    | 0     | \$0.00                         |       |
| Construction Easement (75% of ROW)     |              | Acres                    | 0     | \$0.00                         |       |
| Structures                             | \$180,000.00 | Each                     | 0     | \$0.00                         |       |
| Right-of-Way Subtotal:                 |              |                          |       | \$0.00                         |       |
| Contingency                            | 15.0%        | Of Right-of-Way Subtotal |       | \$0.00                         |       |
| Total Right-of-Way:                    |              |                          |       | \$0.00                         |       |
| Engineering                            | 11.5%        | Of Construction Total    |       | \$23,543.38                    |       |
| Construction Inspection                | 8.0%         | Of Construction Total    |       | \$16,378.00                    |       |
| Administration and Planning            | 1.5%         | Of Construction Total    |       | \$3,070.88                     |       |
| Total Project Cost:                    |              |                          |       | \$414,352.25                   |       |

## EXHIBIT "B" - continued

PROJECT CODE: 130

|                          |                           |
|--------------------------|---------------------------|
| TRANSPORTATION DISTRICT: | Western/Southern District |
|--------------------------|---------------------------|

**LOCATION:**

Route 272 & Denver Road (T-90)

**DEFICIENCY:**

The current intersection geometry is deficient with 2034 projected traffic volumes.

**PROPOSED IMPROVEMENTS:**

Construct a new eastbound approach with dual left turn lanes and a shared right turn lane. Install a traffic signal. Construct a northbound left turn lane.

**ESTIMATED COST SUMMARY:**

(Current Year 2010 Dollars)

|                    |           |
|--------------------|-----------|
| Construction       | 313,400   |
| Utility Relocation | 4,945     |
| Right-of-Way       | 35,477    |
| Engineering        | 36,041    |
| Inspection         | 25,072    |
| Admin & Planning   | 4,701     |
| TOTAL              | \$419,636 |

**CONSTRUCTION YEAR AND PROJECTED COST:**

|                             |             |
|-----------------------------|-------------|
| Construction Year           | 2034        |
| Projected Construction Cost | \$1,055,896 |

Inflation Rate: 3.76%

**PROPOSED FUNDING:**

|               |    |     |
|---------------|----|-----|
| State/Federal | 0% | \$0 |
| Other         | 0% | \$0 |
| Impact Fees   | 0% | \$0 |

**PROJECT SCHEDULE:**

|                      | Year |
|----------------------|------|
| Secure Funding       | 2032 |
| Acquire ROW          | 2033 |
| Complete Engineering | 2033 |
| Begin Construction   | 2034 |

**TRANSPORTATION DISTRICT COST:**

|                   |    |     |
|-------------------|----|-----|
| Western District  | 0% | \$0 |
| Eastern District  | 0% | \$0 |
| Southern District | 0% | \$0 |

**REMARKS:**



# EXHIBIT "B" - continued

## EAST COCALICO TOWNSHIP CAPITAL IMPROVEMENT PLAN - COST ESTIMATE SHEET

**Project Number** I30 **Done By:** BDE **Checked:** MJR

| Description                                  | Cost         | Unit                     | Quantity    | Total        |
|--|--------------|--------------------------|-------------|--------------|
| <b>Construction Items</b>                    |              |                          |             |              |
| <b>Traffic Signals</b>                       |              |                          |             |              |
| New Signal (4-way)                           | \$200,000.00 | Each                     | 1           | \$200,000.00 |
| New Signal (3-way)                           | \$150,000.00 | Each                     | 0           | \$0.00       |
| Signal Modifications                         | \$20,000.00  | Each                     | 0           | \$0.00       |
| Emergency Vehicle Preemption Only            | \$10,000.00  | Each                     | 0           | \$0.00       |
| <b>Pavement</b>                              |              |                          |             |              |
| 1.5" Pavement Overlay and Milling            | \$7.00       | Square Yard              | 0           | \$0.00       |
| New Pavement - Arterial Roads                | \$46.00      | Square Yard              | 533         | \$24,518.00  |
| New Pavement - Collector Roads               | \$40.00      | Square Yard              | 0           | \$0.00       |
| New Pavement - Local Commercial Roads        | \$34.00      | Square Yard              | 178         | \$6,052.00   |
| New Pavement - Local Residential Roads       | \$29.00      | Square Yard              | 0           | \$0.00       |
| 4" PBD                                       | \$7.25       | Linear Foot              | 1400        | \$10,150.00  |
| <b>Excavation</b>                            |              |                          |             |              |
| Excavation (Borrow)                          | \$12.00      | Cubic Yard               | 0           | \$0.00       |
| <b>Drainage</b>                              |              |                          |             |              |
| Inlet/Manhole                                | \$2,400.00   | Each                     | 0           | \$0.00       |
| Pipe and Trenching                           | \$55.00      | Linear Foot              | 0           | \$0.00       |
| Culvert                                      | \$700.00     | Linear Foot              | 0           | \$0.00       |
| <b>Pavement Markings</b>                     |              |                          |             |              |
| 4" Pavement Markings                         | \$2.00       | Linear Foot              | 5000        | \$10,000.00  |
| 8" Pavement Markings                         | \$8.00       | Linear Foot              | 0           | \$0.00       |
| <b>Miscellaneous</b>                         |              |                          |             |              |
| Guide Rail                                   | \$18.00      | Linear Foot              | 0           | \$0.00       |
| Concrete Curb                                | \$35.00      | Linear Foot              | 0           | \$0.00       |
| Bituminous Wedge Curb                        | \$7.00       | Linear Foot              | 0           | \$0.00       |
| <b>Other Miscellaneous</b>                   |              |                          |             |              |
| Post Mounted Signs                           | \$200.00     | Each                     | 0           | \$0.00       |
|  |              |                          |             | \$0.00       |
| <b>Construction Subtotal:</b>                |              |                          |             | \$250,720.00 |
| <b>Mobilization</b>                          | 5.0%         | Of Construction Total    |             | \$12,536.00  |
| <b>Maintenance and Protection of Traffic</b> | 5.0%         | Of Construction Total    |             | \$12,536.00  |
| <b>Contingency</b>                           | 15.0%        | Of Construction Total    |             | \$37,608.00  |
| <b>Total Construction:</b>                   |              |                          |             | \$313,400.00 |
| <b>Utility Relocation</b>                    |              |                          |             |              |
| Utility Pole Relocation                      | \$3,300.00   | Each                     | 1           | \$3,300.00   |
| Electric Service                             | \$2,000.00   | Each                     | 0           | \$0.00       |
| Water/ Gas Valves                            | \$250.00     | Each                     | 0           | \$0.00       |
| Fire Hydrant Relocation                      | \$1,000.00   | Each                     | 1           | \$1,000.00   |
| High Tension Electric Poles                  | \$130,000.00 | Each                     | 0           | \$0.00       |
| Sanitary Manhole                             | \$2,400.00   | Each                     | 0           | \$0.00       |
| Other  | \$5,000.00   | Project                  | 0           | \$0.00       |
| <b>Utility Subtotal:</b>                     |              |                          |             | \$4,300.00   |
| <b>Contingency</b>                           | 15.0%        | Of Utility Subtotal      |             | \$645.00     |
| <b>Total Utility Relocation:</b>             |              |                          |             | \$4,945.00   |
| <b>Right-of-Way</b>                          |              |                          |             |              |
| Right-of-Way - Urban                         | \$150,000.00 | Acres                    | 0           | \$0.00       |
| Right-of-Way - Rural                         | \$120,000.00 | Acres                    | 0.146900826 | \$17,628.10  |
| Construction Easement (75% of ROW)           |              | Acres                    | 0           | \$13,221.07  |
| Structures                                   | \$180,000.00 | Each                     | 0           | \$0.00       |
| <b>Right-of-Way Subtotal:</b>                |              |                          |             | \$30,849.17  |
| <b>Contingency</b>                           | 15.0%        | Of Right-of-Way Subtotal |             | \$4,627.38   |
| <b>Total Right-of-Way:</b>                   |              |                          |             | \$35,476.55  |
| <b>Engineering</b>                           | 11.5%        | Of Construction Total    |             | \$36,041.00  |
| <b>Construction Inspection</b>               | 8.0%         | Of Construction Total    |             | \$25,072.00  |
| <b>Administration and Planning</b>           | 1.5%         | Of Construction Total    |             | \$4,701.00   |
| <b>Total Project Cost:</b>                   |              |                          |             | \$419,635.55 |