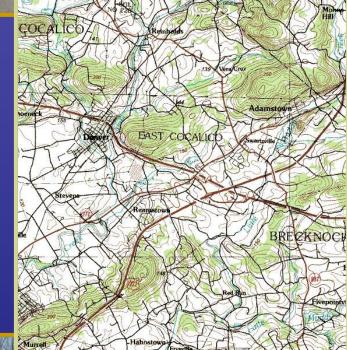


EAST COCALICO TOWNSHIP TRANSPORTATION IMPACT FEE PROGRAM

PART 3: CAPITAL IMPROVEMENTS PLAN











March 21, 2011



DELTA DEVELOPMENT GROUP

TRANSPORTATION IMPACT FEE PROGRAM CAPITAL IMPROVEMENTS PLAN

LANCASTER COUNTY, PENNSYLVANIA

PREPARED FOR: East Cocalico Township 100 Hill Road Denver, Pennsylvania 17517

PREPARED BY: Herbert, Rowland & Grubic, Inc. 1846 Charter Lane, P.O. Box 10337 Lancaster, Pennsylvania 17605 717.291.1783

MARCH 21, 2011

HRG PROJECT NO.: R000866.0431

ACKNOWLEDGMENTS

EAST COCALICO TOWNSHIP BOARD OF SUPERVISORS:

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EAST COCALICO TOWNSHIP TRANSPORTATION IMPACT FEE PROGRAM *CAPITAL IMPROVEMENTS PLAN*

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Introduction

On December 19, 1990, Pennsylvania Act 209 was effectively signed into law. Under this Act, municipalities are able to assess impact fees to new development within their communities. Impact fees are clearly defined in Act 209 as "a fee imposed by a municipality against new development to generate revenue for funding the cost of transportation capital improvements necessitated by and attributable to new development." In order to institute the Act, a four component Transportation Impact Fee Program must be developed and implemented by the municipality. The Transportation Impact Fee Program consists of a *Land Use Assumptions Report*, a *Roadway Sufficiency Analysis*, a *Capital Improvement Plan* and an *Adopting Ordinance*. This process is directed by a Transportation Impact Fee Advisory Committee, which is established by the Board of Supervisors. The East Cocalico Township Board of Supervisor's made public its intention to develop an impact fee program and established the Impact Fee Advisory Committee by Resolution No. 2009-24 on October 15, 2009. The following *Capital Improvements Plan* (CIP) has been prepared on behalf of East Cocalico Township, Lancaster County, Pennsylvania and has been completed in accordance with Pennsylvania Act 209 of 1990 and subsequent updates.

The results of the *Roadway Sufficiency Analysis* served as the basis for the *Capital Improvements Plan* for the Township. As part of the *Roadway Sufficiency Analysis*, the existing transportation system was analyzed to identify existing deficiencies and to determine the preferred level of service. A travel demand model was used to project future traffic volumes, which were used to determine roadway and intersection deficiencies caused by projected growth within the Township. Mitigation improvements were developed for each deficient intersection and roadway segment. This *Capital Improvements Plan* thoroughly investigates the eligibility and feasibility of each improvement identified in the *Roadway Sufficiency Analysis*. This study also determines the appropriate impact fee per PM peak hour site development trip for East Cocalico Township's Transportation Service Areas (hereafter referred to as Transportation Districts).

Purpose

The primary objective of the *Capital Improvements Plan is* to select projects from the list of eligible transportation improvement projects developed during the *Roadway Sufficiency Analysis* that efficiently and safely accommodate anticipated future traffic within the Township. Major tasks were performed in cooperation with the Impact Fee Advisory Committee and Township Staff using generally accepted engineering and planning practices. These tasks included:

- Development of cost estimates for all identified improvements (in accordance with Act 209);
- Distinguish improvements as to whether they are needed to correct existing deficiencies, future base deficiencies and/or new site development traffic;
- Selection of candidate transportation improvement projects that will be included as impact fee projects; and
- Provide a time schedule for when the improvements are to be implemented as part of the CIP.

The following summarizes the process and results of the *Capital Improvements Plan* for East Cocalico Township.

Cost Estimates

Cost estimates were calculated for each improvement proposed in the *Roadway Sufficiency Analysis*. The estimates were completed using the most current (2010) construction costs. In order for the cost

estimates to reflect actual costs in any given year, an inflation rate per year was applied. The inflation rate of 3.76% was used and was based upon statistical review of the construction cost index over the past ten-year period. Therefore, if a project is anticipated to be constructed in 2011, it would reflect a cost 3.76% higher than the cost if the project had been constructed in 2010.

Cost estimates for each proposed project were determined by developing conceptual designs of the improvements. Aerial mapping was used to conceptually design each transportation improvement. Estimated quantities for pavement, earthwork, drainage systems, pavement markings, structures, required right-of-way and various other pay items were determined from the conceptual designs. Utility relocations were estimated based upon visible utilities such as gas valves and utility poles. Lastly, the cost estimates for each pay item were determined by referencing the PennDOT Electronic Contract Management Software (ECMS) website master list of construction items. The conceptual drawings for each applicable improvement project can be viewed in Appendix B and C.

Project Summary Sheets

A detailed summary sheet has been provided for each improvement. The sheets are arranged in ascending order based on the intersection or roadway segment nomenclature defined in the *Roadway Sufficiency Analysis*. Each summary sheet identifies the project location, type of deficiency, and proposed improvement. A suggested project schedule and project-funding scheme has also been provided for each project.

The travel demand model used throughout the *Roadway Sufficiency Analysis* determined anticipated 2034 base traffic volumes as a result of background growth. The travel demand model also determined anticipated 2034 projected traffic volumes which were based on the anticipated development assumptions found in the adopted *Land Use Assumptions Report*. The following five (5) possible funding source classifications were assumed for implementing the identified transportation improvements:

- State and/or Federal;
- Local and/or Other; and
- Impact Fees.

Each project sheet summarizes the estimated cost of each project according to six quantities. The anticipated costs are documented as follows:

- Construction;
- Utility Relocation;
- Right-of-Way Acquisition;
- Engineering;
- Inspection; and
- Admin and Planning*.

*Admin and Planning cost estimates include legal and planning costs for impact fee eligible projects. Also includes consulting costs to secure State and Federal funding related to the non-impact fee share of the projects.

Appendix B includes the project summary sheets for the 2010 existing mitigation projects. Appendix C includes the project summary sheets for the 2034 base mitigation projects. Appendix D includes the project summary sheets and applicable improvement drawings for the projects that were selected for inclusion in the *Capital Improvements Plan*. Appendix E contains (for informational purposes only)

other candidate projects from the *Roadway Sufficiency Analysis* that were not selected to be included in the *Capital Improvements Plan*.

Selected Projects of the Capital Improvement Plan

The Roadway Sufficiency Analysis, which was completed prior to the Capital Improvements Plan, is a comprehensive planning study projecting traffic conditions over a 25-year horizon based on the adopted Land Use Assumptions Report, as well as many other variables. The transportation recommendations developed in the Roadway Sufficiency Analysis were suggested as mitigations for projected deficiencies anticipated within the next 25-year period to provide a preferred operational Level of Service "D" for all intersections and a preferred operation Level of Service "C" for all roadway segments in East Cocalico Township. Township Staff and the Impact Fee Advisory Committee reviewed improvement projects during various work sessions to arrive at the list of 19 transportation projects that are incorporated into the Capital Improvements Plan. Furthermore, as part of this process, projects were prioritized to arrive at the anticipated construction year for each, as well as adjustments made to the amount of participation by type of funding source. Suggested transportation projects not selected for the Capital Improvements Plan are listed in Appendix C as "candidate projects" and include cost summary sheets with conceptual improvement sketches provided where applicable. Although these projects are not included in this Capital Improvements Plan, these projects may be incorporated into future updates in accordance with Act 209 of 1990 and subsequent updates.

A detailed summary of transportation improvement projects included as part of the *Capital Improvements Plan* are shown in Table 1. The improvements are listed by map number with the intersection or roadway segment location, project description, anticipated year of construction and total project cost with desired funding sources for each project.

The following list notes the information about the 19 selected transportation improvement projects:

- Fourteen (14) transportation projects involved improvements at various study intersections analyzed during the *Roadway Sufficiency Analysis*.
- Four (4) transportation projects involved widening of select roadway segments.
- One (1) transportation project involved realignment of a study intersection.

Transportation Impact Fee Calculations

The transportation impact fee was calculated by dividing the total cost attributable to impact fees for all identified *Capital Improvements Plan* projects by the number of new development trips generated between 2010 and 2034 in the applicable transportation district. The total number of development trips determined during the *Roadway Sufficiency Analysis* was based on the approved *Land Use Assumptions Report*. The following list represents each Transportation District along with the respective anticipated number of new trip ends over the 25-year horizon and the Impact Fee that was calculated per PM peak hour development trip:

- Western District: Anticipate 940 new PM peak hour trips at \$1,512 each.
- Eastern District: Anticipate 2,073 new PM peak hour trips at \$1,507 each.
- Southern District: Anticipate 956 new PM peak hour trips at \$1,510 each.

EAST COCALICO TOWNSHIP IMPACT FEE ORDINANCE CAPITAL IMPROVEMENT PLAN PROJECTS SUMMARY

Table 1

-										
Map Number	Project Code	Intersection or Roadway Segment	Improvement Project Description	Construct- tion 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)	2017	\$1,335,770.66	\$0.00	\$667,885.33	\$667,885.33	\$0.00	\$0.00
-	103	Church Street (SR 1051) & Reamstown Road (T-700)	Install a traffic signal.	2024	\$526,229.06	\$263,114.53	\$0.00	\$0.00	\$0.00	\$263,114.53
1	104A	Church Street (SR 1051) & Route 272	Construct a westbound left turn lane.	2019	\$226,602.91	\$113,301.45	\$0.00	\$0.00	\$0.00	\$113,301.45
1	104B	Church Street (SR 1051) & Route 272	Construct an eastbound left turn lane.	2019	\$174,972.33	\$87,486.16	\$0.00	\$87,486.16	\$0.00	\$0.00
-	S05	Route 897, west of Route 272	Widen to 12' lanes with 6' shoulders.	2034	\$3,419,553.76	\$1,367,821.51	\$1,367,821.51	\$6,839.11	\$677,071.65	\$0.00
-	106	Colonel George Howard Boulevard (SR 1040) & Lesher Road (T-949)	Channelize the southbound right turn movement.	2034	\$210,311.70	\$105,155.85	\$105,155.85	\$0.00	\$0.00	\$0.00
-	107	Colonel George Howard Boulevard (SR 1040) & Route 222 southbound Ramps	Construct a clover-leaf interchange.	2027	\$8,332,895.74	\$4,166,447.87	\$4,166,447.87	\$0.00	\$0.00	\$0.00
-	108	Colonel George Howard Boulevard (SR 1040) & Route 222 northbound Ramps	Construct a clover-leaf interchange.	2027	\$8,332,895.74	\$4,166,447.87	\$4,166,447.87	\$0.00	\$0.00	\$0.00
2	109A	Colonel George Howard Boulevard (SR 1040) & Pepperidge Farm Boulevard (T- 902)	Construct a northbound left turn lane.	2027	\$101,309.65	\$50,654.82	\$0.00	\$0.00	\$50,148.28	\$506.55
2	109B	Colonel George Howard Boulevard (SR 1040) & Pepperidge Farm Boulevard (T- 902)	Construct a northbound right turn lane.	2034	\$158,103.80	\$79,051.90	\$0.00	\$0.00	\$78,261.38	\$790.52
2	109C	Colonel George Howard Boulevard (SR 1040) & Pepperidge Farm Boulevard (T- 902)	Construct dual southbound left turn lanes.	2027	\$264,678.36	\$132,339.18	\$0.00	\$0.00	\$131,015.79	\$1,323.39
2	109D	Colonel George Howard Boulevard (SR 1040) & Pepperidge Farm Boulevard (T- 902)	Construct a southbound right turn lane.	2034	\$147,257.31	\$73,628.66	\$0.00	\$0.00	\$72,892.37	\$736.29
-	110	Colonel George Howard Boulevard (SR 1040) & Reamstown Road (T-700)	Install a traffic signal.	2027	\$440,885.66	\$220,442.83	\$0.00	\$0.00	\$218,238.40	\$2,204.43
3	I11A	Colonel George Howard Boulevard (SR 1040) / Denver Road (T-901) & Route 272	Construct a westbound left turn lane.	2029	\$134,624.08	\$67,312.04	\$67,312.04	\$0.00	\$0.00	\$0.00
3	l11B	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 northbound right turn lane.	2029	\$130,352.11	\$65,176.06	\$0.00	\$651.76	\$63,872.53	\$651.76
3	l11D	Colonel George Howard Boulevard (SR 1040) / Denver Road (T-901) & Route 272	Construct a westbound right turn lane.	2029	\$153,610.63	\$76,805.31	\$0.00	\$768.05	\$75,269.21	\$768.05
-	113	Route 272 & Hill Road (T-846)	Install a traffic signal.	2014	\$272,857.85	\$136,428.93	\$136,428.93	\$0.00	\$0.00	\$0.00

EAST COCALICO TOWNSHIP IMPACT FEE ORDINANCE CAPITAL IMPROVEMENT PLAN PROJECTS SUMMARY

Table 1

Map Number	Project Code	Intersection or Roadway Segment	Improvement Project Description	Construct- tion 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)
-	114	Route 272 & Muddy Creek Road (T- 816)	Install a traffic signal.	2014	\$363,810.47	\$181,905.24	\$181,905.24	\$0.00	\$0.00	\$0.00
-	I15A	Route 272 & Route 897	Construct a northbound left turn lane.	2034	\$3,314,325.39	\$1,657,162.70	\$1,657,162.70	\$0.00	\$0.00	\$0.00
-	I15B	Route 272 & Route 897	Construct a westbound left turn lane.	2034	\$385,583.70	\$192,791.85	\$192,791.85	\$0.00	\$0.00	\$0.00
-	115C	Route 272 & Route 897	Construct an eastbound right turn lane.	2034	\$277,117.93	\$138,558.96	\$138,558.96	\$0.00	\$0.00	\$0.00
4	l18	Route 272 & Pepperidge Farm Driveway	Realign and Signalize with Route 272 & Hill Road (T-846).	2029	\$1,214,058.81	\$607,029.41	\$0.00	\$6,070.29	\$600,959.11	\$0.00
5	122	Muddy Creek Road (SR 1059) & Trost Road (T-953)	Install all-way stop control and channelize the eastbound right turn movement.	2034	\$858,331.71	\$429,165.85	\$0.00	\$0.00	\$175,958.00	\$253,207.85
2	S22	Colonel George Howard Boulevard (SR 1040)	Construct additional thru lanes (triple thrus in each direction are also required as mitigation for intersection #9 but are only needed between Route 272 and the first Route 222 ramp).	2034	\$3,824,236.16	\$1,529,694.47	\$1,529,694.47	\$0.00	\$313,587.37	\$451,259.87
-	123	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
-	125	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
-	126	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	\$263,114.53	\$263,114.53	\$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	\$12,753,930.63	\$12,753,930.63	\$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	\$4,682,907.04	\$4,682,907.04	\$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	\$417,041.02	\$417,041.02	\$0.00	\$0.00	\$208,520.51
-	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

EAST COCALICO TOWNSHIP IMPACT FEE ORDINANCE CAPITAL IMPROVEMENT PLAN PROJECTS SUMMARY

Table 1

Map Number	Project Code	Intersection or Roadway Segment	Improvement Project Description	Construct- tion 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	130	Route 272 & Denver Road (T-901)	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	\$1,055,896.50	\$527,948.25	\$0.00	\$517,389.28	\$0.00	\$10,558.96
			Subtotal 2010 Existing		\$35,510,344	\$17,755,172	\$17,755,172	\$0	\$0	\$0
			Subtotal 2034 Base		\$31,085,199	\$20,065,093	\$11,020,106	\$0	\$0	\$0
			Subtotal 2034 Projected		\$16,374,778	\$6,690,864	\$4,245,557	\$1,290,945	\$2,836,612	\$1,310,799
Legend			Consultant		\$79,100	-	-	\$1,230.73	\$2,704.29	\$1,249.65
2010 Existing Mitigation Subto			Subtotal					\$1,292,176	\$2,839,316	\$1,312,049
	2034 Base Mitig	pation	10 Percent Contingency					\$129,218	\$283,932	\$131,205
	Selected Projec	t	Total Fee					\$1,421,394	\$3,123,248	\$1,443,254
	Candidate Project 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			1,421,394	3,123,248	1,443,254					
					Adjusted Total of New Trip Ends			940	2,073	956
					Fee Per Trip			\$1,512	\$1,507	\$1,510

APPENDIX A Impact Fee Advisory Committee Resolution No. 2009-24 OF October 15th, 2009



RESOLUTION NO. 2009 - 24

A RESOLUTION OF THE BOARD OF SUPERVISORS OF THE TOWNSHIP OF EAST COCALICO, LANCASTER COUNTY, PENNSYLVANIA ESTABLISHING AN IMPACT FEE ADVISORY COMMITTEE AND AUTHORIZING THE PREPARATION AND PUBLIC ADVERTISEMENT OF THE TOWNSHIP'S NOTICE OF INTENTION TO ADOPT AN IMPACT FEE ORDINANCE PURSUANT TO ACT 209 OF 1990 AND FURTHER PROVIDING FOR THE APPLICATION OF A FEE FOR UP TO 18 MONTHS DURING THE ADOPTION OF THE PROGRAM.

WHEREAS, East Cocalico Township desires to provide appropriate levels of transportation services to their residents so as to adequately protect the health, safety and welfare; and

WHEREAS, East Cocalico Township has experienced growth in both residential and commercial development; and

WHEREAS, the Township expects that the residential and commercial growth will continue; and

WHEREAS, in order to continue to undertake appropriate transportation capital improvements, alternative funding sources need to be made available for that purpose; and

WHEREAS, Act 209 of 1990 and the Pennsylvania Municipalities Planning Code (MPC) as amended, empowers municipalities to provide for transportation capital improvements through the imposition of impact fees upon new development following the enactment of an appropriate impact fee ordinance adopted pursuant to the provisions of Act 209 of 1990 and the MPC; and

WHEREAS, East Cocalico Township desires to establish an Impact Fee Advisory Committee for the purpose of developing Transportation Impact Fee Ordinances under the terms of Section 504-A of Act 209 of 1990 and the MPC; and

WHEREAS, the Township pursuant to Section 505-A(c) intends that the provisions of the ordinance have retroactive application for a period not to exceed 18 months after the adoption of the resolution creating the impact fee advisory committee pursuant to section 504-A(b)(1), to preliminary or tentative applications for land development, subdivision or PRD, with the municipality on or after the first publication of the municipality's intention to adopt an impact fee ordinance provided that the fee imposed shall not exceed \$1,000 per anticipated peak hour trip.

NOW, THEREFORE, be resolved and enacted by the Board of Supervisors of the Township of East Cocalico, and it is hereby resolved and enacted by the authority of the same that :

- **SECTION 1** The East Cocalico Township impact fee program shall cover the entire geographic area of East Cocalico Township.
- **SECTION 2** The East Cocalico Township Impact Fee Advisory Committee is hereby created and shall consist of no fewer than 7 nor more than 15 members to be appointed by the Board of Supervisors during subsequent meeting(s) in compliance with Act 209 of 1990 and the MPC.

- **SECTION 3** All members of the advisory committee shall be residents of East Cocalico Township or conduct business within the Township and are not employees or officials of the Township.
- **SECTION 4** Not less than forty percent (40%) of the members shall be representatives of the real estate, commercial and residential development and building industries.
- **SECTION 5** All of the members shall serve without compensation.
- **SECTION 6** The Impact Fee Advisory Committee shall serve in an advisory capacity and shall have the duties assigned pursuant to the MPC:
- **SECTION 7** The Board of Supervisors of East Cocalico Township shall have the right to replace any member of the Impact Fee Advisory Committee appointed by the municipality, upon notice for failure to complete tasks assigned, for failure to attend three (3) consecutive regularly scheduled meetings, or for conduct that damages the credibility of the committee specifically or East Cocalico Township in general.
- **SECTION 8** The impact fee advisory committee members shall serve for a period of two years from the adoption of this resolution or until replaced by the Board of Supervisors.
- **SECTION 9** East Cocalico Township hereby establishes a fee of \$1,000 per PM peak hour vehicular trip generated by new development proposed, during the period pending adoption of the Impact Fee Ordinance, but not to exceed 18 months from the adoption of this resolution. Such fee shall become effective after the first publication of the Township's intention to adopt an impact fee ordinance.
- **SECTION 10** The Township staff is hereby authorized to prepare and publicly advertise the Township's Notice of Intention to Adopt an Impact Fee Ordinance pursuant to section 505-A(c) of Act 209 of 1990 and the MPC.

RESOLVED AND ENACTED this <u>15th</u> day of <u>October</u>, 2009 by the Board of Supervisors of East Cocalico Township.

EAST COCALICO TOWNSHIP

B) Mackley, Chairman of the Board

Alan R. Fry, Vice-Chairman of the Board

Noelle B. Fortna, Secretary of the Board

ATTEST And M. Alusian

APPENDIX B 2010 Existing Mitigation Cost Summaries



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
TOTAL	\$226,875

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2014
Projected Construction Cost	\$272,858

PROPOSED FUNDING:

State/Federal	50%	\$136,429
Other	50%	\$136,429
Impact Fees	0%	\$0

TRANSPORTATION DISTRICT COST:

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

Inflation Rate: 3.76%

PROJECT SCHEDULE:

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

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	2014
Projected Construction Cost	\$363,810

PROPOSED FUNDING:

State/Federal	50%	\$181,905
Other	50%	\$181,905
Impact Fees	0%	\$0

TRANSPORTATION DISTRICT COST:

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

Inflation Rate: 3.76%

PROJECT SCHEDULE:

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

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
Projected Construction Cost	\$25,507,861

PROPOSED FUNDING:

State/Federal	50%	\$12,753,931
Other	50%	\$12,753,931
Impact Fees	0%	\$0

TRANSPORTATION DISTRICT COST:

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

PROJECT SCHEDULE:

Inflation Rate: 3.76%

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

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

PROPOSED FUNDING:

State/Federal	50%	\$4,682,907
Other	50%	\$4,682,907
Impact Fees	0%	\$0

TRANSPORTATION DISTRICT COST:

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

PROJECT SCHEDULE:

Inflation Rate: 3.76%

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

APPENDIX C 2034 Base Mitigation Cost Summaries



LOCATION:

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

DEFICIENCY:

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

PROPOSED IMPROVEMENTS:

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
TOTAL	\$83,582

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2034
Projected Construction Cost	\$210,312

PROPOSED FUNDING:

State/Federal	50%	\$105,156
Other	50%	\$105,156
Impact Fees	0%	\$0

TRANSPORTATION DISTRICT COST:

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

Inflation Rate: 3.76%

PROJECT SCHEDULE:

	rear
Secure Funding	2032
Acquire ROW	2033
Complete Engineering	2033
Begin Construction	2034

Voor

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

PROPOSED FUNDING:

State/Federal	50%	\$4,166,448
Other	50%	\$4,166,448
Impact Fees	0%	\$0

TRANSPORTATION DISTRICT COST:

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

PROJECT SCHEDULE:

Inflation Rate: 3.76%

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

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
Projected Construction Cost	\$8,332,896

PROPOSED FUNDING:

State/Federal	50%	\$4,166,448
Other	50%	\$4,166,448
Impact Fees	0%	\$0

TRANSPORTATION DISTRICT COST:

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

Inflation Rate: 3.76%

PROJECT SCHEDULE:

rear
2025
2026
2026
2027

Voor

PROJECT CODE: I11A

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 westbound left turn lane.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	53,179
Utility Relocation	0
Right-of Way	0
Engineering	6,116
Inspection	4,254
Admin & Planning	798
TOTAL	\$64,346

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2029
Projected Construction Cost	\$134,624

PROPOSED FUNDING:

State/Federal	50%	\$67,312
Other	50%	\$67,312
Impact Fees	0%	\$0

TRANSPORTATION DISTRICT COST:

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

Inflation Rate: 3.76%

PROJECT SCHEDULE:

rear
2027
2028
2028
2029

Voor

PROJECT CODE: 115A

LOCATION:

Route 272 & Route 897

DEFICIENCY:

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

PROPOSED IMPROVEMENTS:

Construct a northbound left turn lane.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	1,075,085
Utility Relocation	16,330
Right-of Way	0
Engineering	123,635
Inspection	86,007
Admin & Planning	16,126
TOTAL	\$1,317,183

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2034
Projected Construction Cost	\$3,314,325

PROPOSED FUNDING:

State/Federal	50%	\$1,657,163
Other	50%	\$1,657,163
Impact Fees	0%	\$0

TRANSPORTATION DISTRICT COST:

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

Inflation Rate: 3.76%

PROJECT SCHEDULE:

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

PROJECT CODE: 115B

LOCATION:

Route 272 & Route 897

DEFICIENCY:

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

PROPOSED IMPROVEMENTS:

Construct a westbound left turn lane.

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
Projected Construction Cost	\$385,584

PROPOSED FUNDING:

State/Federal	50%	\$192,792
Other	50%	\$192,792
Impact Fees	0%	\$0

TRANSPORTATION DISTRICT COST:

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

Inflation Rate: 3.76%

PROJECT SCHEDULE:

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

PROJECT CODE: 115C

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.

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
TOTAL	\$110,133

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2034
Projected Construction Cost	\$277,118

PROPOSED FUNDING:

State/Federal	50%	\$138,559
Other	50%	\$138,559
Impact Fees	0%	\$0

TRANSPORTATION DISTRICT COST:

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

Inflation Rate: 3.76%

PROJECT SCHEDULE:

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

TRANSPORTATION 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
Projected Construction Cost	\$8,721,472

PROPOSED FUNDING:

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

TRANSPORTATION DISTRICT COST:

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

Inflation Rate: 3.76%

PROJECT SCHEDULE:

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

REMARKS:

Eastern District

TRANSPORTATION 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
Projected Construction Cost	\$526,229

PROPOSED FUNDING:

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

TRANSPORTATION DISTRICT COST:

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

PROJECT SCHEDULE:

Inflation Rate: 3.76%

Year
2022
2023
2023
2024

TRANSPORTATION DISTRICT:

...

LOCATION:

Stevens Road (SR 1045) / Line Road (SR 1045) & Sevens Road (SR 1030) / south Main Street (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
Projected Construction Cost	\$526,229

PROPOSED FUNDING:

State/Federal	50%	\$263,115
Other	50%	\$263,115
Impact Fees	0%	\$0

TRANSPORTATION DISTRICT COST:

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

PROJECT SCHEDULE:

Inflation Rate: 3.76%

Year
2022
2023
2023
2024

TRANSPORTATION 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
TOTAL	\$337,706

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2034
Projected Construction Cost	\$849,744

PROPOSED FUNDING:

State/Federal	100%	\$849,744
Other	0%	\$0
Impact Fees	0%	\$0

TRANSPORTATION DISTRICT COST:

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

Inflation Rate: 3.76%

PROJECT SCHEDULE:

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

APPENDIX D 2034 Projected Mitigation Selected Project Cost Summaries and Drawings



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	611,584
Utility Relocation	7,590
Right-of Way	35,639
Engineering	281,329
Inspection	48,927
Admin & Planning	9,174
TOTAL	\$994,242

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2017
Projected Construction Cost	\$1,335,771

PROPOSED FUNDING:

State/Federal	0%	\$0
Other	50%	\$667,885
Impact Fees	50%	\$667,885

TRANSPORTATION DISTRICT COST:

Western District	100%	\$667,885
Eastern District	0%	\$0
Southern District	0%	\$0

PROJECT SCHEDULE:

Inflation Rate: 3.76%

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

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	0
Engineering	28,750
Inspection	20,000
Admin & Planning	3,750
TOTAL	\$302,500

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2024
Projected Construction Cost	\$526,229

PROPOSED FUNDING:

State/Federal	50%	\$263,115
Other	0%	\$0
Impact Fees	50%	\$263,115

TRANSPORTATION DISTRICT COST:

Western District	0%	\$0
Eastern District	0%	\$0
Southern District	100%	\$263,115

PROJECT SCHEDULE:

Inflation Rate: 3.76%

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

PROJECT CODE: 104A

TRANSPORTATION 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.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	98,085
Utility Relocation	11,385
Right-of Way	26,595
Engineering	11,280
Inspection	7,847
Admin & Planning	1,471
TOTAL	\$156,663

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year		<mark>2019</mark>
Projected Construction Cost		\$226,603
PROPOSED FUNDING:		
State/Federal	50%	\$113,301
Other	0%	\$0

50%

\$113,301

TRANSPORTATION DISTRICT COST:

Impact Fees

Western District	0%	\$0
Eastern District	0%	\$0
Southern District	100%	\$113,301

PROJECT SCHEDULE:

Inflation Rate: 3.76%

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

...

PROJECT CODE: 104B

TRANSPORTATION DISTRICT:

LOCATION:

Church Street (SR 1051) & Route 272

DEFICIENCY:

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

PROPOSED IMPROVEMENTS:

Construct an eastbound left turn lane.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	68,585
Utility Relocation	11,385
Right-of Way	26,595
Engineering	7,887
Inspection	5,487
Admin & Planning	1,029
TOTAL	\$120,968

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year Projected Construction C	cost	<mark>2019</mark> \$174,972	Inflation Rate: 3.76%
PROPOSED FUNDING:			PROJECT SCHEDULE:
State/Federal Other	50% 0%	\$87,486 \$0	Secure Funding Acquire ROW
	50%	\$87,486	Complete Engineering Begin Construction
TRANSPORTATION DISTRICT COST:		REMARKS	

Western District	100%	\$87,486
Eastern District	0%	\$0
Southern District	0%	\$0

SCHEDULE:

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



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DATE-

PROJECT CODE: S05

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
Projected Construction Cost	\$3,419,554

PROPOSED FUNDING:

State/Federal	40%	\$1,367,822
Other	40%	\$1,367,822
Impact Fees	20%	\$683,911

TRANSPORTATION DISTRICT COST:

Western District	1%	\$6,839
Eastern District	99%	\$677,072
Southern District	0%	\$0

PROJECT SCHEDULE:

Inflation Rate: 3.76%

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

PROJECT CODE: 109A

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 northbound left turn lane.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	43,085
Utility Relocation	0
Right-of Way	0
Engineering	4,955
Inspection	3,447
Admin & Planning	646
TOTAL	\$52,133

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2027
Projected Construction Cost	\$101,310

PROPOSED FUNDING:

State/Federal	50%	\$50,655
Other	0%	\$0
Impact Fees	50%	\$50,655

TRANSPORTATION DISTRICT COST:

Western District	0%	\$0
Eastern District	99%	\$50,148
Southern District	1%	\$507

PROJECT SCHEDULE:

Inflation Rate: 3.76%

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

PROJECT CODE: 109B

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 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	\$158,104

PROPOSED FUNDING:

State/Federal	50%	\$79,052
Other	0%	\$0
Impact Fees	50%	\$79,052

TRANSPORTATION DISTRICT COST:

Western District	0%	\$0
Eastern District	99%	\$78,261
Southern District	1%	\$791

PROJECT SCHEDULE:

Inflation Rate: 3.76%

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

PROJECT CODE: 109C

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.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	112,563
Utility Relocation	0
Right-of Way	0
Engineering	12,945
Inspection	9,005
Admin & Planning	1,688
TOTAL	\$136,201

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2027
Projected Construction Cost	\$264,678

PROPOSED FUNDING:

State/Federal	50%	\$132,339
Other	0%	\$0
Impact Fees	50%	\$132,339

TRANSPORTATION DISTRICT COST:

Western District	0%	\$0
Eastern District	99%	\$131,016
Southern District	1%	\$1,323

PROJECT SCHEDULE:

Inflation Rate: 3.76%

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

PROJECT CODE: 109D

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 southbound right turn lane.

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
Projected Construction Cost	\$147,257

PROPOSED FUNDING:

State/Federal	50%	\$73,629
Other	0%	\$0
Impact Fees	50%	\$73,629

TRANSPORTATION DISTRICT COST:

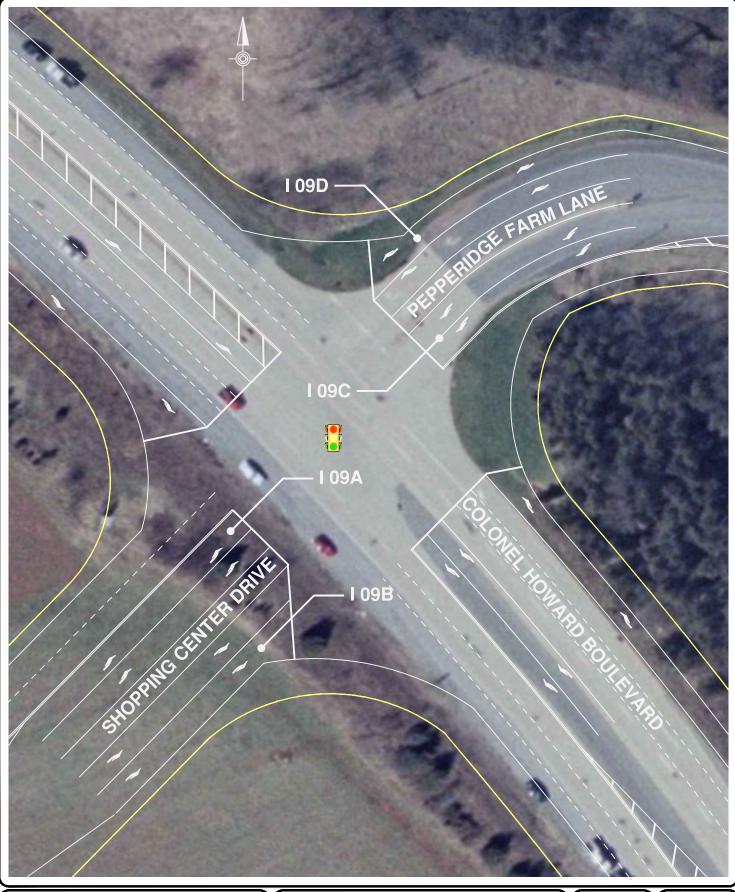
Western District	0%	\$0
Eastern District	99%	\$72,892
Southern District	1%	\$736

Inflation Rate: 3.76%

PROJECT SCHEDULE:

	rear
Secure Funding	2032
Acquire ROW	2033
Complete Engineering	2033
Begin Construction	2034

Voor



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Feb 14, 2011-10:28



1846 Charter Lane Lancaster, PA. 17601 (717) 291 - 1783 Fax (717) 291 - 2093 hrg@hrg-inc.com www.hrg-inc.com INTERSECTION 9 COLONEL HOWARD BOULEVARD AND PEPPERIDGE FARM LANE CAPITAL IMPROVEMENTS PLAN EAST COCALICO TOWNSHIP LANCASTER COUNTY PENNSYLVANIA

١	PROJ. MGR MJR	DRAWING NO.
	DESIGN- BDE	2
	CADD- BDE	2
	CHECKED- MJR	SHEET NO.
	SCALE- 1" = 50'	2 °F 6
J	DATE- JAN 2011	PROJECT R000866.0431

PROJECT CODE: 110

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
TOTAL	\$226,875

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2027
Projected Construction Cost	\$440,886

PROPOSED FUNDING:

State/Federal	50%	\$220,443
Other	0%	\$0
Impact Fees	50%	\$220,443

TRANSPORTATION DISTRICT COST:

Western District	0%	\$0
Eastern District	99%	\$218,238
Southern District	1%	\$2,204

PROJECT SCHEDULE:

Inflation Rate: 3.76%

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

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 Projected Construction Cost		<mark>2034</mark> \$771,052
PROPOSED FUNDING:		
State/Federal	50%	\$385,526
Other	0%	\$0

Impact Fees 50%

TRANSPORTATION DISTRICT COST:

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

PROJECT SCHEDULE:

Inflation Rate: 3.76%

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

REMARKS:

\$385,526

PROJECT CODE: 111C

TRANSPORTATION DISTRICT: Eastern/Western/Southern District

LOCATION:

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

DEFICIENCY:

Other

Impact Fees

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

PROPOSED IMPROVEMENTS:

Construct a 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
TOTAL	\$62,304

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year Projected Construction Cost		<mark>2029</mark> \$130,352	
PROPOSED FUNDING:			Ρ
State/Federal	50%	\$65,176	

0%

50%

TRANSPORTATION DISTRICT COST:

Western District	1%	\$652
Eastern District	98%	\$63,873
Southern District	1%	\$652

Inflation Rate: 3.76%

PROJECT SCHEDULE:

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

REMARKS:

\$0

\$65,176

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 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
TOTAL	\$73,421

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2029
Projected Construction Cost	\$153,611
PROPOSED FUNDING:	I

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

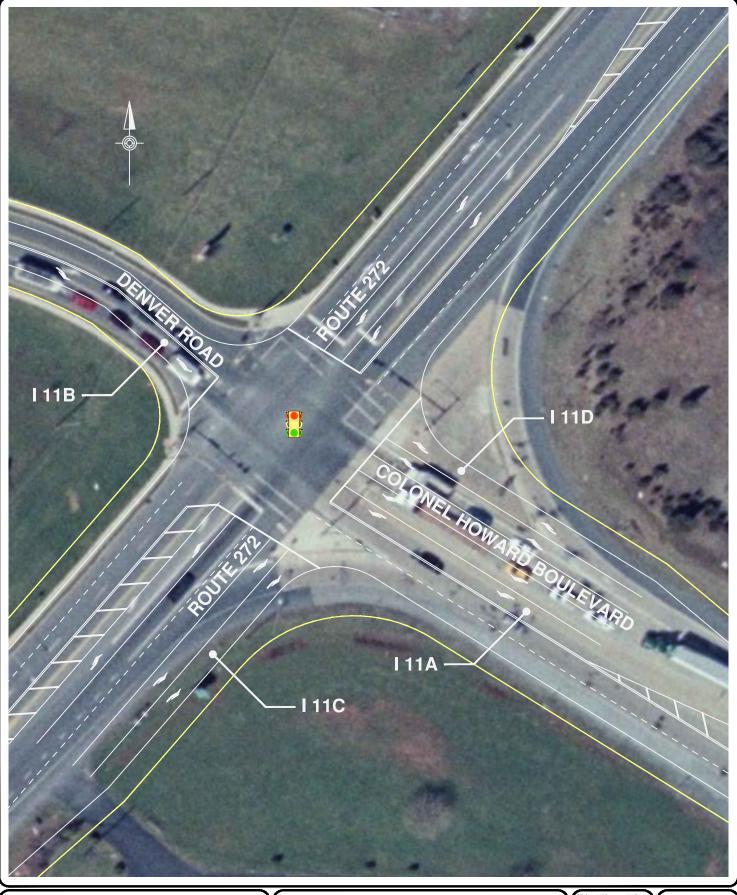
TRANSPORTATION DISTRICT COST:

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

PROJECT SCHEDULE:

Inflation Rate: 3.76%

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





1846 Charter Lane Lancaster, PA. 17601 (717) 291 - 1783 Fax (717) 291 - 2093 hrg@hrg-inc.com www.hrg-inc.com INTERSECTION 11 COLONEL HOWARD BOULEVARD AND ROUTE 272 CAPITAL IMPROVEMENTS PLAN EAST COCALICO TOWNSHIP LANCASTER COUNTY PENNSYLVANIA

1	PROJ. MGR MJR	DRAWING NO.
	DESIGN- BDE	3
	CADD- BDE	5
	CHECKED- MJR	SHEET NO.
	SCALE- 1" = 50'	3 ∘⊦ 6
J	DATE- JAN 2011	PROJECT R000866.0431

PROJECT CODE: 118

TRANSPORTATION 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	167,318
Utility Relocation	64,400
Right-of Way	313,430
Engineering	19,242
Inspection	13,385
Admin & Planning	2,510
TOTAL	\$580,284

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2029
Projected Construction Cost	\$1,214,059
PROPOSED FUNDING:	

State/Federal	50%	\$607,029
Other	0%	\$0
Impact Fees	50%	\$607,029

TRANSPORTATION DISTRICT COST:

Western District	1%	\$6,070
Eastern District	99%	\$600,959
Southern District	0%	\$0

PROJECT SCHEDULE:

Inflation Rate: 3.76%

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





1846 Charter Lane Lancaster, PA. 17601 (212) 291 - 1783 Fax (712) 291 - 2093 ing@ing-inc.com www.ing-inc.com INTERSECTION 18 PEPPERIDGE FARM DRIVEWAY AND ROUTE 272 CAPITAL IMPROVEMENTS PLAN EAST COCALICO TOWNSHIP LANCASTER COUNTY PENNSYLVANIA

1	PROJ. MGR MJR	DRAWING NO.
I	DESIGN- BDE	4
	CADD- BDE	-
	CHECKED- MJR	SHEET NO.
	SCALE- 1" = 50'	4 oF 6
J	DATE- JAN 2011	PROJECT R000866.0431

PROJECT CODE: 122

TRANSPORTATION 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:

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
TOTAL	\$341,119

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2034
Projected Construction Cost	\$858,332

PROPOSED FUNDING:

State/Federal	50%	\$429,166
Other	0%	\$0
Impact Fees	50%	\$429,166

TRANSPORTATION DISTRICT COST:

Western District	0%	\$0
Eastern District	41%	\$175,958
Southern District	59%	\$253,208

PROJECT SCHEDULE:

Inflation Rate: 3.76%

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





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INTERSECTION 22 TROST ROAD AND MUDDY CREEK ROAD **CAPITAL IMPROVEMENTS PLAN** EAST COCALICO TOWNSHIP LANCASTER COUNTY

PROJ. MGR. -MJR DRAWING NO. DESIGN- BDE 5 CADD- BDE CHECKED- MJR SHEET NO. 5 OF 6 SCALE- 1" = 50' PROJECT R000866.0431 DATE-JAN 2011

PENNSYLVANIA

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 thru lanes (triple thrus in each direction are also required as mitigation for intersection #9 but are only needed between Route 272 and the first Route 222 ramp).

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	1,233,915
Utility Relocation	26,795
Right-of Way	0
Engineering	141,900
Inspection	98,713
Admin & Planning	18,509
TOTAL	\$1,519,832

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2034
Projected Construction Cost	\$3,824,236

PROPOSED FUNDING:

State/Federal	40%	\$1,529,694
Other	40%	\$1,529,694
Impact Fees	20%	\$764,847

TRANSPORTATION DISTRICT COST:

Western District	0%	\$0
Eastern District	41%	\$313,587
Southern District	59%	\$451,260

PROJECT SCHEDULE:

Inflation Rate: 3.76%

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

PROJECT CODE: 123

TRANSPORTATION 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
Projected Construction Cost	\$3,045

PROPOSED FUNDING:

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

TRANSPORTATION DISTRICT COST:

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

Inflation Rate: 3.76%

PROJECT SCHEDULE:

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

REMARKS:

Eastern District

PROJECT CODE: S28

TRANSPORTATION 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
Projected Construction Cost	\$1,042,603

PROPOSED FUNDING:

State/Federal	40%	\$417,041
Other	40%	\$417,041
Impact Fees	20%	\$208,521

TRANSPORTATION DISTRICT COST:

Western District	0%	\$0
Eastern District	0%	\$0
Southern District	100%	\$208,521

PROJECT SCHEDULE:

Inflation Rate: 3.76%

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

PROJECT CODE: 130

TRANSPORTATION DISTRICT:

LOCATION:

Route 272 & Denver Road (T-901)

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	
PROPOSED FUNDING:			F
State/Federal	50%	\$527,948	
Other	0%	\$0	

50%

\$527,948

TRANSPORTATION DISTRICT COST:

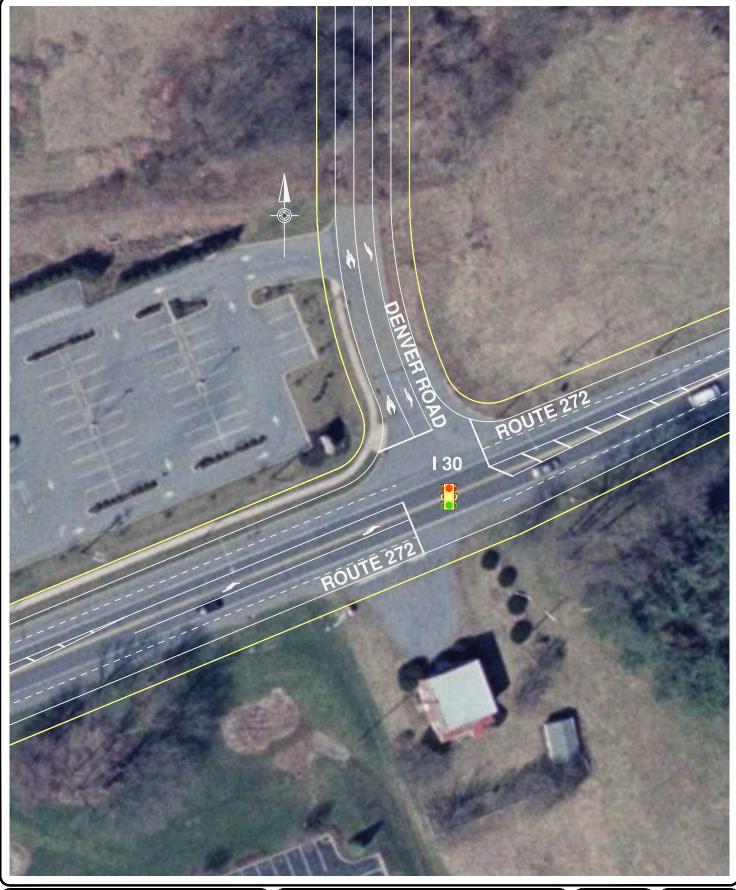
Impact Fees

Western District	98%	\$517,389
Eastern District	0%	\$0
Southern District	2%	\$10,559

PROJECT SCHEDULE:

Inflation Rate: 3.76%

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





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INTERSECTION 30 ROUTE 272 AND DENVER ROAD CONNECTOR CAPITAL IMPROVEMENTS PLAN PENNSYLVANIA

PROJ. MGR. -MJR DRAWING NO. DESIGN- BDE 6 CADD-BDE CHECKED- MJR SHEET NO. 6 OF 6 SCALE- 1" = 50' PROJECT R000866.0431 DATE-JAN 2011

EAST COCALICO TOWNSHIP LANCASTER COUNTY

APPENDIX E 2034 Projected Mitigation Candidate Project Cost Summaries and Drawings



PROJECT CODE: S26

LOCATION:

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

DEFICIENCY:

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

PROPOSED IMPROVEMENTS:

Construct additional thru lanes.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	6,255,415
Utility Relocation	564,880
Right-of Way	9,359,116
Engineering	719,373
Inspection	500,433
Admin & Planning	93,831
TOTAL	\$17,493,048

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year Projected Construction	n Cost	<mark>0</mark> \$0
PROPOSED FUNDING:		
State/Federal Other Impact Fees	45% 45% 10%	\$0 \$0 \$0
TRANSPORTATION DISTRICT COST:		

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

Inflation Rate: 3.76%

PROJECT SCHEDULE:

	Year
Secure Funding	-2
Acquire ROW	-1
Complete Engineering	-1
Begin Construction	0

PROJECT CODE: S27

LOCATION:

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

DEFICIENCY:

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

PROPOSED IMPROVEMENTS:

Construct additional thru lanes.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	2,536,898
Utility Relocation	199,295
Right-of Way	2,513,446
Engineering	291,743
Inspection	202,952
Admin & Planning	38,053
TOTAL	\$5,782,387

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year Projected Construction Cost		<mark>0</mark> \$0
PROPOSED FUNDING:		
State/Federal	45%	\$0
Other	45%	\$0
Impact Fees	10%	\$0

TRANSPORTATION DISTRICT COST:

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

Inflation Rate: 3.76%

PROJECT SCHEDULE:

	Year
Secure Funding	-2
Acquire ROW	-1
Complete Engineering	-1
Begin Construction	0

APPENDIX F Public Hearing Transcripts



MEETING MINUTES

DATE: March 21, 2011

SUBJECT: East Cocalico Township Transportation Impact Fee Advisory Committee

LOCATION: East Cocalico Township Municipal Building, 100 Hill Road, Denver, PA 17517

ATTENDEES:

NAME	COMPANY	PHONE	E-MAIL
Louis Hurst	TIF Advisory Committee	(717) 629-5788	lghurst@comcast.net
Mark Janke	TIF Advisory Committee	(717) 336-5796	mjanke@ptd.net
Paul Keller	TIF Advisory Committee	(717) 799-2229	j1974@ptd.net
Sean Killen	TIF Advisory Committee	(717) 336-4888	skillen@fultonbank.com
David Lutz	TIF Advisory Committee	(717) 629-1920	david_lutz@cocalico.org
Marcia Martin	TIF Advisory Committee	(717) 484-0995	marciamar3@aol.com
Doug Nedimyer	TIF Advisory Committee	(717) 336-4444	doug.nedimyer@wellsfargo.com
May Roth	TIF Advisory Committee	(717) 336-6776	<u>rothmy@yahoo.com</u>
Shad Sahm	TIF Advisory Committee	(717) 587-2487	athomein@ptd.net
Jamie Sweigart	TIF Advisory Committee	(717) 824-1542	jsweigart@high.net
Lynn Weaver	TIF Advisory Committee	(717) 335-4512	lweaver@martinlimestone.com
Brian Wise	TIF Advisory Committee	(717) 587-4207	dynowise@ptd.net
Mark Hiester	East Cocalico Township	(717) 336-1720	manager@eastcocalicotownship.com
Brent Lied	Becker Engineering	(717) 295-4975	<u>bl@beckereng.net</u>
Josele Cleary	Morgan, Hallgren, Crosswell & Kane, P.C.	(717) 299-5251	jcleary@mhck.com
Matt Radinovic	Herbert, Rowland & Grubic, Inc.	(724) 779-4777	mradinovic@hrg-inc.com
Christopher May	Herbert, Rowland & Grubic, Inc.	(717) 291-1783	cmay@hrg-inc.com

The purpose of the meeting was to hold a public hearing on the draft Capital Improvements Plan (CIP) Report. The following is a summary of significant comments made at this meeting:

1. A motion to open the public hearing on the draft Capital Improvements Plan (CIP) Report was approved by unanimous vote at 7:04 PM with motion by Mark Janke and second by David Lutz. The following is a list of significant comments made during the public hearing:

- A. A listing of visitors in attendance at the public hearing are as follows:
 - a) None in attendance
- B. AC Chairman Sweigart identified the purpose of the public hearing is to receive feedback from the public relating to the CIP draft report.
- C. AC Chairman Sweigart identified that meeting minutes will be taken during the public hearing proceedings and will be incorporated into the CIP draft document prior to being sent to the Board of Supervisors.
- D. AC Chairman Sweigart identified that the public hearing had been properly advertised, with advertisements running on March 4th and March 11th in the Intelligencer Journal-New Era.
- E. AC Chairman Sweigart identified that the draft CIP Report has been made available for public review at the front desk at the Township building and on the Township's website for more than 10 days prior to the public hearing.
- F. AC Chairman Sweigart requested Matt Radinovic from HRG to provide a brief overview of the draft CIP Report as follows:
 - a) The draft CIP Report builds upon both the Land Use Assumptions (LUA) and the Roadway Sufficiency Analysis (RSA) reports. The RSA report was completed and the AC recommended by resolution that it be adopted by the Board of Supervisors. The Board did take action at their March 16, 2011 meeting, to adopt the Roadway Sufficiency Analysis.
 - b) The two remaining steps in completing a Transportation Impact Fee Program include this Public Hearing with the subsequent adoption of the CIP and finally the adoption of the Transportation Impact Fee Ordinance.
 - c) The CIP is the document that establishes the per trip, per unit fee for transportation impact fees in the Township.
 - d) The CIP is developed by taking candidate projects identified in the RSA report and selecting those projects that the Township desires to be part of the Traffic Impact Fee Program.
 - e) Three transportation service districts were established as part of the East Cocalico transportation impact fee program, all of which are under the seven-square-mile requirement of the PA Municipality's Planning Code.
 - f) The CIP includes a Table on pages 4, 5, and 6 which lists the capital improvement projects that will be contained in the plan with the year in which they're projected to be completed as part of the program. The projects are highlighted by type of project and include:
 - 1. Green highlight existing deficiency projects (not attributable to new development).

- 2. Yellow highlight projects which are considered for 2034 base deficiency projects (also not attributable to new site development).
- 3. Red highlight projects which are considered a candidate project that is eligible to be included in the CIP but based on the recommendations of the AC, the engineers and Township staff, it will not be a project that will be contained in the program at this time.
- 4. Non highlighted projects include projects that have been selected as part of the CIP program which mitigate the impact of projected new development and which apply to impact fees.
- g) The CIP Report identifies the Impact Fees per PM Peak Hour Trip for each of the three (3) Transportation Service Areas (TSA) as follows:
 - 1. Western District \$1,512/PM Peak Hour Trip
 - 2. Eastern District \$1,507/PM Peak Hour Trip
 - 3. Southern District \$1,510/PM Peak Hour Trip
- G. No written comments from the public were received at the Township office on the CIP Report, and no representatives from the general public were in attendance at the public hearing to express comments, therefore, no public comment has been received.
- H. A motion to close the public hearing for the CIP Report was approved by unanimous vote at 7:45 PM with motion by Brian Wise and second by David Lutz.
- 2. A motion to recommend, by Transportation Impact Fee Advisory Committee Resolution 2011-2, to the East Cocalico Township Board of Supervisors that they approve the CIP Report as prepared and submitted by the Impact Fee Advisory Committee, dated March 21, 2011, and including the public comments from the public hearing was approved by unanimous vote with motion by Louis Hurst and second by Paul Keller.

We believe these minutes accurately reflect the items discussed during the subject meeting. If there are any revisions or corrections to these minutes, please contact the undersigned within ten (10) days of receipt of these minutes. If no revisions or corrections are requested, the minutes will stand approved as submitted.

Respectfully submitted,

Herbert, Rowland & Grubic, Inc.

Christopher-W. May, P.E., PTOE

MJR/CWM/aw R000866.0431 ph 03 P:0008:000866_0431\Admin\Corres\Meetings:AC Meeting 20110321 CIP Public Hearing\Meeting Minutes ECT TIF 20110321 CIP Public Hearing.doc c: All Attendees

Herbert, Rowland & Grubic, Inc. 1846 Charter Lane P.O. Box 10337 Lancaster, Pennsylvania 17605 (717) 291-1783 (717) 291-2093 fax www.hrg-inc.com