

AGENDA
EAST GOSHEN TOWNSHIP
BOARD OF SUPERVISORS
Tuesday, August 21, 2012
7:00 PM

1. Call to Order
2. Pledge of Allegiance
3. Moment of Silence – Supervisor Carmen Battavio
4. Ask if anyone is recording the meeting
5. Public Comment – Hearing of Residents (Optional)
6. Chairman's Report
 - a. Announce 2013 Minimum Municipal Obligation for the following Pension Plans:
Fire Pension Plan \$55,396,
Township Non-Uniformed Pension Plan \$0,
Township Non-Uniformed Defined Contribution Pension Plan \$85,624,
Police Commission Non-Uniformed Defined Contribution Pension Plan \$9,663.
7. Public Hearing
 - a. The Board will conduct a conditional use hearing to consider the Goshen Meadows Apartment Project at 1325 West Chester Pike
8. Police/EMS Report – July 2012
 - a. John Dumond – Westtown East Goshen Police Chief (to be distributed at meeting)
 - b. Jerry Fokas, Sr. – Goshen Fire Co. President (to be distributed at meeting)
 - c. Neil Vaughn – Malvern Fire Chief
 - d. Mark Miller – Fire Marshal
9. Financial Report – July 2012 Financial Report and Current Year End Projections
10. Old Business
 - a. Consider ABC Education Session
 - b. Consider Large Format Copier, Scanner, Printer
 - c. Review revisions to the sign section of the Zoning Ordinance
 - d. Consider amending the Zoning Ordinance and lease to allow for the maximum height of wireless communication equipment to be 12 feet.
11. New Business
 - a. Consider the Pumpkin Festival
 - b. Consider authorizing Police Commission to enter into an agreement with East Whiteland to have Chief Dooley become interim Police Chief for WEGO
12. Any Other Matter
13. Approval of Minutes
 - a. August 7, 2012
14. Treasurer's Report
 - a. Report – August 16, 2012
15. Review Action List
 - a. List – August 21, 2012
16. Correspondence, Reports of Interest

17. Dates of Importance

Aug 23, 2012	Farmers Market	3-7:00 PM
Aug 28, 2012	Board of Supervisors	7:00 PM
	Police Services Options WS	
Aug 30, 2012	Farmers Market	3-7:00 PM
Sept 03, 2012	Labor Day	
	Offices Closed	
Sept 04, 2012	Board of Supervisors	7:00 PM
	Mars LD Plan	
	Billboard Hearing	
Sept 05, 2012	Pension Committee	1:00 PM
Sept 05, 2012	Planning Commission	7:00 PM
Sept 06, 2012	Farmers Market	3-7:00 PM
Sept 06, 2012	Park Commission	7:00 PM
Sept 10, 2012	Municipal Authority	7:00 PM
Sept 10, 2012	Commerce Dev Commission	7:00 PM
Sept 11, 2012	Board of Supervisors	7:00 PM
	Police Services Options WS	
Sept 12, 2012	Conservancy Board	7:00 PM
Sept 13, 2012	Farmers Market	7:00 PM
Sept 13, 2012	Historical Commission	7:00 PM
Sept 22, 2012	Township Wide Yard Sale	9-1:00PM
	(Rain date is Sept 23)	

Fall 2012 Newsletter:

Aug 1, 2012	Article Due Date
Oct 1, 2012	Website Posting Date

18. Public Comment – Hearing of Residents

19. Adjournment

The Chairperson, in his or her sole discretion, shall have the authority to rearrange the agenda in order to accommodate the needs of other board members, the public or an applicant.

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6a.

August 7, 2012

Mr. Lewis F. Smith
Secretary
EAST GOSHEN TOWNSHIP
1580 Paoli Pike
West Chester, PA 19380

RE: 2013 Financial Requirement and Minimum Municipal Obligation

Dear Lewis:

Enclosed is the Financial Requirement and Minimum Municipal Obligation (MMO) for your municipality's Pension Plan(s) for the upcoming 2013 plan year. Act 205 requires that the Chief Administrative Officer (CAO) of the pension plan(s) shall submit to the governing body of the municipality the financial requirement of the pension plan(s) for the following plan year (2013). This annual report must be presented to the governing body on or before the last business day in September (September 30, 2012).

The payroll amount used in your 2013 budget was computed by obtaining from you, the earnings for the active full-time members of the pension plan(s) as of June 30, 2012 and then doubling this figure in order to arrive at the projected annual payroll for the year in which the budget is prepared. The budgeted administrative expenses were based upon the expenses reported in the plan(s)' most recent Act 205 actuarial report.

In acknowledging the current economic climate, Act 44 was signed into law which made available a number of actuarial tools intended to provide short-term fiscal relief to local governments. The relief provisions are based upon the recent distress level as determined by the Public Employee Retirement Commission (PERC) which is reflected on line 1 of the plan(s) MMO. If applicable, a 25% amortization reduction was utilized to further reduce the plan's financial obligation, which is reflected on line 11 of the plan(s) MMO. Line 12 of the plan(s) MMO represents the minimum obligation permitted under Act 44.

Page Two

Line 13 reflects the municipal obligation based upon the plan(s) January 1, 2011 market value of assets. The reason we are bringing this figure to your attention is to make you aware of what the plan(s) financial requirement would have been without the Act 44 smoothing provision.

We understand the economic hardships that are facing local governments; however, from an actuarial funding standpoint we would recommend, if at all possible, your municipality gives consideration to providing additional funding above the minimum requirements of Act 44.

In order to avoid any confusion, we are requesting that you identify the line and the amount your municipality elects to utilize in funding the plan's 2013 obligation which can be found just above the signature line on the budget report.

These reporting requirements will be closely monitored by the Department of the Auditor General in future audits. Therefore, if you should have any questions concerning any of the above, please do not hesitate to contact our office. Upon approval, please forward a signed copy of this budget for our records.

Sincerely,

A handwritten signature in black ink, appearing to read 'TJA', with a long horizontal flourish extending to the right.

THOMAS J. ANDERSON

TJA/da
Attachment

**FINANCIAL REQUIREMENT AND MINIMUM MUNICIPAL
OBLIGATION BUDGET FOR 2013**

<i>NAME OF MUNICIPALITY:</i>	EAST GOSHEN TOWNSHIP	
<i>COUNTY:</i>	CHESTER	FIRE PENSION PLAN
1 ACT 44 DISTRESS LEVEL		0
2 TOTAL ANNUAL PAYROLL Estimated Payroll		\$609,516
3 NORMAL COST AS A PERCENTAGE OF PAYROLL (Derived from latest actuarial valuation) 1/1/11		9.02%
4 TOTAL NORMAL COST (Item 2 x Item 3)		\$54,978
5 AMORTIZATION REQUIREMENT (Derived from latest actuarial valuation)		\$10,147
6 TOTAL ADMINISTRATIVE EXPENSES (Derived from latest actuarial valuation)		\$3,985
7 FINANCIAL REQUIREMENT (+ Item 4 + Item 5 + Item 6)		\$69,110
8 TOTAL MEMBERS CONTRIBUTIONS		\$13,714
9 FUNDING ADJUSTMENT (Derived from latest actuarial valuation)		\$0
10 MINIMUM MUNICIPAL OBLIGATION (+ Item 7 - Item 8 - Item 9)		\$55,396
11 ACT 44 AMORTIZATION REDUCTION (+ Item 5 times 25%)		\$0
12 ACT 44 MINIMUM REDUCED MUNICIPAL OBLIGATION (+ Item 10 - Item 11)		\$55,396
13 Minimum Municipal Obligation Based Upon Market Value of Assets		\$55,396

I elect line _____ (10, 12 or 13) as my 2013 MMO in the amount of \$ _____

Signature of Chief Administrative Officer

Date Certified to Governing Body

**FINANCIAL REQUIREMENT AND MINIMUM MUNICIPAL
OBLIGATION BUDGET FOR 2013**

NAME OF MUNICIPALITY:
COUNTY:

EAST GOSHEN TOWNSHIP
CHESTER

NON-UNIFORMED
PENSION PLAN

1 ACT 44 DISTRESS LEVEL	0
2 TOTAL ANNUAL PAYROLL Estimated Payroll	\$0
3 NORMAL COST AS A PERCENTAGE OF PAYROLL (Derived from latest actuarial valuation) 1/1/11	0.00%
4 TOTAL NORMAL COST (Item 2 x Item 3)	\$0
5 AMORTIZATION REQUIREMENT (Derived from latest actuarial valuation)	\$0
6 TOTAL ADMINISTRATIVE EXPENSES (Derived from latest actuarial valuation)	\$7,070
7 FINANCIAL REQUIREMENT (+ Item 4 + Item 5 + Item 6)	\$7,070
8 TOTAL MEMBERS CONTRIBUTIONS	\$0
9 FUNDING ADJUSTMENT (Derived from latest actuarial valuation)	\$63,050
10 MINIMUM MUNICIPAL OBLIGATION (+ Item 7 - Item 8 - Item 9)	\$0
11 ACT 44 AMORTIZATION REDUCTION (+ Item 5 times 25%)	\$0
12 ACT 44 MINIMUM REDUCED MUNICIPAL OBLIGATION (+ Item 10 - Item 11)	\$0
13 Minimum Municipal Obligation Based Upon Market Value of Assets	N/A

NOTE: Since the actuarial value of assets exceeds the actuarial present value of future benefits,
there is no financial requirement or municipal obligation required for the year 2013

I elect line _____ (10, 12 or 13) as my 2013 MMO in the amount of \$ _____

Signature of Chief Administrative Officer

Date Certified to Governing Body

August 7, 2012

Rec 8-10-12

Mr. Lewis F. Smith
Secretary
EAST GOSHEN TOWNSHIP
1580 Paoli Pike
West Chester, PA 19380

RE: 2013 Financial Requirement and Minimum Municipal Obligation

Dear Lewis:

Attached is the Financial Requirement and Minimum Municipal Obligation (MMO) for your municipality's Pension Plan(s) for the upcoming 2013 plan year. Act 205 requires that the Chief Administrative Officer (CAO) of the pension plan(s) shall submit to the governing body of the municipality the financial requirement of the pension plan(s) for the following plan year (2013). This annual report must be presented to the governing body on or before the last business day in September (September 30, 2012).

If you should have any questions concerning any of the above, please do not hesitate to contact me. **Upon approval, please forward a signed copy of this budget for our records.**

Sincerely,



THOMAS J. ANDERSON
TJA/da
Attachment

**FINANCIAL REQUIREMENT AND MINIMUM MUNICIPAL
OBLIGATION BUDGET FOR 2013**

NAME OF MUNICIPALITY: EAST GOSHEN TOWNSHIP
COUNTY: CHESTER

	NON-UNIFORMED DEF. CONT.
1. TOTAL ANNUAL PAYROLL (Estimated payroll)	1,636,472
2. RATE OF CONTRIBUTION AS A % OF PAYROLL (Derived from latest actuarial valuation) 1/1/11	5.00%
3. TOTAL CONTRIBUTION COST (Item 1 times Item 2)	81,824
4. TOTAL ADMINISTRATIVE EXPENSES	3,800
5. TOTAL FINANCIAL REQUIREMENT (+Item 3 +Item 4)	85,624
6. MINIMUM MUNICIPAL OBLIGATION	85,624

Signature of Chief Administrative Officer

Date Certified to Governing Body

**FINANCIAL REQUIREMENT AND MINIMUM MUNICIPAL
OBLIGATION BUDGET FOR 2013**

NAME OF MUNICIPALITY: EAST GOSHEN TOWNSHIP
COUNTY: CHESTER

	NON-UNIFORMED DEF. CONT. COMMISSION EMPLOYEES
1. TOTAL ANNUAL PAYROLL (Estimated payroll)	193,252
2. RATE OF CONTRIBUTION AS A % OF PAYROLL (Derived from latest actuarial valuation) 1/1/11	5.00%
3. TOTAL CONTRIBUTION COST (Item 1 times Item 2)	9,663
4. TOTAL ADMINISTRATIVE EXPENSES	0
5. TOTAL FINANCIAL REQUIREMENT (+Item 3 +Item 4)	9,663
6. MINIMUM MUNICIPAL OBLIGATION	9,663

Signature of Chief Administrative Officer

Date Certified to Governing Body

7a.

Memorandum

East Goshen Township
1580 Paoli Pike
West Chester, PA 19380
Voice: 610-692-7171
Fax: 610-692-8950
E-mail: mgordon@eastgoshen.org

Date: 8/15/2012
To: Board of Supervisors
From: Mark Gordon, Township Zoning Officer *mb*
Re: Goshen Meadows Apartments / Traffic and Circulation

Dear Board Members:

As requested the applicant submitted a completed traffic study and Mr. Kaiser from Orth Rodgers reviewed the traffic study and plans and concurs with the design engineer's analysis of the site and traffic impacts.

August 10, 2012

Mr. Mark Gordon, Zoning Officer
East Goshen Township
1580 Paoli Pike
West Chester, PA 19380-6199

RE: Goshen Meadows Review

Dear Mark:

I am in receipt of Horner & Canter Associates Traffic Impact Study dated July 26, 2012 regarding the 65 unit apartment complex impact to local traffic in the vicinity of the above referenced site located on Mary Fran Drive just off of West Chester Pike. In addition, we received a copy of the Land Development Plans dated February 24, 2012 prepared by Herbert MacCombie, Jr. P.E. The site entails the development of five proposed buildings with 12 apartment units along with an additional five (5) units being built within an existing house on the site all nestled between the existing Goshen Meadows apartment buildings and West Chester Pike.

The following constitutes my review of the impact study and the plans:

Traffic Impact Study

1. ORA concurs with the introduction and the existing conditions reported for West Chester Pike in the vicinity of the site. It should be noted that paved shoulders exist on both sides of West Chester Pike (approximately 8' to 12' wide).

Additionally, no mention of Mary Fran Drive is made in the roadway descriptions (the main access to the proposed apartment complex). This variable width driveway does have a 10' left turn lane, 13.5' shared through/right lane, 7' wide median and 16' wide receiving lane on this approach very close to the driveway being planned to the apartment complex access.

2. ORA concurs with the existing traffic count periods and the peak hours found (7:45-8:45 AM and 4:45-5:45 PM). Per our July 17, 2012 meeting at the Township with PennDOT representation, it was discussed if pedestrians were present. The count data does not indicate if any were, but the discussion confirmed that virtually no pedestrians were present during the count times.
3. A review of the existing traffic conditions at the intersection of West Chester Pike & Mary Fran/Rose Hill Drives indicates that current levels of service are 'C' for the AM and PM peaks. Utilizing Synchro software, which models the signalization conditions a little better than the standard Highway Capacity software, we saw LOS of 'B' for both peaks. In affect, HCA's results are more conservative and thus, acceptable as reported.
4. Site traffic was investigated for the proposed 65 dwelling units. Based on the ITE Trip Generation Manual, the calculated trips are acceptable. The total AM and PM trips were rounded down instead of up but this doesn't adversely affect the operational analyses.

5. Trip distribution of the site traffic was based on current traffic patterns of West Chester Pike. Patterns were presented as 40% to/from the east and 60% to/from the west. In reviewing the AM and PM peak hour counts, I come up with a nearly 50/50 split (more specifically a 49/51 split (westbound/eastbound). Again, not a significant change since there is only a small amount of entering/exiting traffic to the site at the intersection.
6. Future assessments of the signalized intersection indicate that levels of service will still be acceptable during the morning and afternoon peak hours with a growth factor of 1.96% compounded out from the build-out year (2014/2019). Proposed site traffic attributes approximately 1.5% of the total traffic volumes at the intersection in the future and does not look to impact the intersection operation after minor timing adjustments.

ORA also concurs that the queue analysis performed at the intersection indicates the need to lengthen the eastbound West Chester Pike left turn lane from its current 75' length to at least 125' and the westbound left turn from 110' to 150' to accommodate the project queued vehicles that will accumulate during the peak periods.

Land Development Plans

1. Site access is proposed to be relocated approximately 70' north on Mary Fran Drive. The 30' wide access will have 12.5' lanes with a 5' wide median as depicted in the plans.
2. Site circulation looks acceptable, although the 19 parking spaces on the due north side of the site only allow for a 12' cartway width for backing-out maneuvers. This seems tight and would recommend at minimum 16' of clearance to maneuver cleanly.
3. Signing was not provided on the plans for the site.
4. 2.5 parking spaces per unit is required for a total of 160 spaces, of which 6 handicapped spaces need to be provided. The plan indicates that 12 handicapped spaces will be provided within the 160 spaces.
5. The plans will need to be updated to indicate the proposed left turn lane improvements on West Chester Pike.

I can be reached at (610) 407-9700 or dkaiser@orth-roddgers.com if you have any questions or comments regarding this review.

Sincerely:
ORTH-RODDGERS & ASSOCIATES, INC.



DEAN J. KAISER, PE, PTOE
Director of Traffic Signal Operations



EAST GOSHEN CONSERVANCY

August 16, 2012

East Goshen Township
Board of Supervisors
1580 Paoli Pike
West Chester, PA 19380

Re: Conditional Use Application, 1325 West Chester Pike
Goshen Meadows Investors, L.P.
Planned Apartment Community / Adaptive Reuse of a Historic Resource
53-6-56

Dear Board Members:

As requested the Conservancy Board met with to discuss the Conditional Use application on two occasions; first at a special meeting at the Smith Property on July 31, 2012 to conduct a site walk and again during our regularly scheduled meeting on August 8, 2012.

At their site walk on July 31, 2012 the Conservancy Board discussed the plan and specifically the plan for tree removal and for buffer screening for the adjoining properties.

During our regularly scheduled meeting on August 8, 2012 the Board discussed the plan in detail and decided to defer any recommendations until full land development and landscape plans are submitted with the land development application.

During the Land Development process the Conservancy Board will review plans, continue conversations with the applicant and residents and make a formal recommendation for your consideration at that time.

Sincerely,



For Sandra Snyder
Chairman, Conservancy Board

BOARD OF SUPERVISORS

EAST GOSHEN TOWNSHIP

CHESTER COUNTY

1580 PAOLI PIKE, WEST CHESTER, PA 19380-6199

August 16, 2012

East Goshen Township Planning Commission
1580 Paoli Pike
West Chester, PA 19380

Re: Conditional Use application – Planned Apartment Development – Fire Hydrants
Goshen Meadows Investors LP – 1325 West Chester Pike

Dear Commissioners:

As requested I have reviewed the proposed plan for the new Apartment Community at 1325 West Chester Pike to locate the required Fire Hydrants. As I stated in my letter dated June 28, 2012 the apartment building will all be protected by sprinkler systems.

FIRE FLOW REQUIREMENTS: 2009 IFC §B101 - The proposed apartment community is required to have a minimum of 1 fire hydrant within the community. The proposed development is serviced by one fire hydrant near the proposed emergency entrance. A second hydrant is located near the North East Corner of the property however this hydrant is not accessible. The proposed development will require one additional hydrant near the entrance to the site from Mary Fran Drive

I have enclosed a detail of the location for your use. Please don't hesitate to contact me if you have any questions or need further information.

Sincerely,



Mark Miller

Director of Public Works / Township Fire Marshal

Cc: Mr. Mark Thompson, Esq. (Via Email)
Mr. Dennis O'Neill, P.E. (Via Email)

Enclosure

BLDG "A"

PROP. 1
BUILDING 1
12 UNITS

PROP. ENTR. DRIVE

CONCEPTUAL STORMWATER
MANAGEMENT BASIN (TYP.)

N64°40'30"W

TRAFFIC
BOX
CURB M

MAILBOX

-STOPBAR

WHITE LINE™

DASHED WHITE LINE

INLET—
T.G.=387.40
INV.(in)=382.70
INV.(out)=382.70



Malvern Fire Company

424 East King Street
P.O. Box 435
Malvern, PA 19355

Main 610-647-0693
Fax 610-647-0249
www.malvernfireco.com

Monthly Fire Operations Report - July 2012

Calls for Month: 32			Year Total: 188	
Call Type	Malvern	Willistown	East Goshen	Other
Accident	0	1	0	0
Appliance Fire	0	1	0	0
Automatic Fire Alarm	0	19	0	0
Brush/Mulch Fire	1	0	0	0
Carbon Monoxide Alarm	0	1	1	0
Cover Assignment	0	0	0	1
EMS Assist	1	0	0	0
Fire Police Assist	0	0	0	1
Gas Leak (Inside)	0	0	0	0
Gas Leak (Outside)	0	0	0	0
Investigation (Inside)	0	0	0	0
Investigation (Outside)	0	0	0	0
Other Type Rescue	0	0	0	0
Rapid Intervention Team	0	0	0	0
Structure Fire	1	0	1	1
Unknown Fire Type	1	0	0	0
Vehicle Fire	0	1	0	0
Wires Incident	0	0	0	0
MONTH TOTAL	4	23	2	3
YEAR TOTAL	34	105	11	38

Mutual Aid	Given	Received	Month Total	Year Total
Alert Fire Co.	0	0	0	1
Berwyn Fire Co.	0	2	2	8
East Brandywine Fire	0	0	0	1
East Whiteland Fire Co.	2	1	3	34
Fame Fire Co.	0	0	0	1
Glen Moore Fire Co.	0	0	0	1
Goodwill Fire Co.	0	0	0	1
Goshen Fire Co.	0	0	0	9
Lionville Fire Co.	0	1	1	2
Newtown Sq. Fire Co.	1	0	1	4
Paoli Fire Co.	0	1	1	6
Phoenixville Fire Dept.	0	0	0	1

Total Value of Property & Contents	Total Month Loss	Total Year Loss	Total Saved
\$3,000,250	\$22,250	\$122,850	\$3,235,400

Number of Personnel Attending Calls	Year Total	Hours in Service	Year Total
349	1,973	170.04	1129.6

Number of Training Sessions	Year Total	Hours in Service	Year Total
3	30	89	1016.02

Number of Special Assignments	Year Total	Hours in Service	Year Total
10	21	702.75	1187.5

Total Hours in Service (Month)	Total Hours in Service (Year)
961.79	3558.9

Memo

To: Board of Supervisors
From: Jon Altshul
Re: July Financial Report and Current Year End Projections
Date: August 15, 2012

July Financial Report

As of July 31, 2012, the General Fund has a favorable variance of \$944,137, an improvement of \$15,583 over the previous month. There are no noteworthy reasons for this improvement—the timing of the beginning of the paving season this year seems to be the biggest factor. In addition, somewhat higher than expected property tax collections (+\$12,050), a transfer from the Municipal Authority for Public Works labor costs associated with the Lochwood elimination project (+\$7,780), were offset by pledged, but not yet received contributions in July for the 2012 Community Day.

I have attached a copy of the Core Function Summary and Detail reports for your review.

Current Year End Projections

Since my report last month, my year-end projections remain relatively unchanged. I currently anticipate 2012 revenues to exceed expenditures by \$794,279, an improvement of \$13,945 over last month's report. On the expense side, I may have somewhat underestimated the impact of the Lochwood Elimination project on sewer wages (which is offset by a reimbursement from the Municipal Authority). I have also increased year-end projections for legal expenses and for township building maintenance to reflect some of the recent HVAC work. However, these additional costs are more than offset by recent higher-than-expected Earned Income Tax collections in the first half of August, as well as more modest improvements in Real Estate Tax and Real Estate Transfer Tax.

Nevertheless, I believe that these projections remain reasonably conservative. Numerous expense line-items continue to be under-budget, but for which it is still premature to amend last month's projections.

EAST GOSHEN TOWNSHIP
YTD THROUGH MAY FINANCIAL RESULTS
July 31, 2012

Account Title	Annual Budget	Y-T-D Actual	Y-T-D Budget	Y-T-D Variance
GENERAL FUND				
EMERGENCY SERVICES EXPENSE	3,883,897	2,722,645	2,725,138	2,493
PUBLIC WORKS EXPENSE	2,225,286	835,723	983,285	147,562
ADMINISTRATION EXPENSES	1,502,920	806,567	826,331	19,764
ZONING/PERMITS/CODES EXPENSES	425,042	193,706	248,353	54,647
PARK AND RECREATION EXPENSES	513,404	297,286	283,556	(13,730)
TOTAL CORE FUNCTION EXPENSES	8,550,549	4,855,927	5,066,663	210,736
EMERGENCY SERVICES REVENUE	51,320	211,536	27,662	183,874
PUBLIC WORKS REVENUE	902,852	322,674	293,967	28,707
ADMINISTRATIVE REVENUES	250,893	102,134	102,978	(844)
CODES REVENUE	270,570	165,163	149,817	15,346
PARK AND REC REVENUE	113,622	74,415	82,477	(8,062)
TOTAL CORE FUNCTION REVENUES	1,589,257	875,922	656,901	219,021
NET EMERGENCY SERVICES	3,832,577	2,511,109	2,697,476	186,367
NET PUBLIC WORKS	1,322,434	513,049	689,318	176,269
NET ADMINISTRATION	1,252,027	704,433	723,353	18,920
NET CODES	154,472	28,543	98,536	69,993
NET PARK AND REC	399,782	222,871	201,079	(21,792)
CORE FUNCTION NET SUBTOTAL	6,961,292	3,980,005	4,409,762	429,757
DEBT - PRINCIPAL	605,000	188,000	188,000	0
DEBT - INTEREST	228,304	135,851	135,381	(470)
TOTAL DEBT	833,304	323,851	323,381	(470)
TOTAL CORE FUNCTION NET	7,794,596	4,303,856	4,733,143	429,287
NON-CORE FUNCTION REVENUE				
REAL ESTATE PROPERTY TAX	2,027,056	1,988,726	1,979,707	9,019
OTHER INCOME	42,662	29,279	20,592	8,687
CABLE TV FRANCHISE	415,431	197,111	206,995	(9,884)
REAL ESTATE TRANSFER TAX	480,000	533,112	280,000	253,112
EARNED INCOME TAXES	4,250,000	2,822,976	2,542,441	280,535
LOCAL SERVICES TAX	340,000	171,712	198,331	(26,619)
TOTAL NON CORE FUNCTION REVENUE	7,555,149	5,742,916	5,228,066	514,850
NET RESULT	(239,447)	1,439,060	494,923	944,137

10 a.

Memo
East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

Voice (610) 692-7171

Fax (610) 425-8950

E-mail rsmith@eastgoshen.org

Date: August 9, 2012

To: Board of Supervisors

From: Rick Smith, Township Manager

Re: ABC Education Session

As requested, Thom Clapper, Chuck Proctor and I have developed a syllabus for an education session for the ABC members. I would add that we need to acknowledge the contributions made by Ann Cummings, a Township resident, who met with us and provided suggestions on this matter. ***This memo includes the changes suggested by the Board in May.***

Step 1- Survey

Send out a survey to all current ABC members asking:

1. Member's assessment of effectiveness of their ABC
2. Suggestions for improvements in making their ABC more effective.
3. Comments in general

The information from the survey would then be used as a component in an educational session for all ABC members.

The Survey was mailed on July 25, 2012, with responses due by August 15, 2012.

Step 2 – Education Session

Conduct a session for all ABC members. Suggest having the session in the fall after school is back in session. It would be a ½ day session (coffee/tea and cookies at 8:30 am, the Session would start at 9:00 am and run to noon. Topics for the session would include the following:

It has been suggested that we do not have the session on Saturday, due to conflicts with youth sports and other activities. Therefore, I would recommend that we have the session on Tuesday, September 18, 2012. Wednesday, September 26, 2012. We could start at 6:00 pm and finish by 9:30 pm. We would provide sandwiches to the attendees.

An agenda is attached.

1. Brief overview of the Township's place in the governmental hierarchy.
We would have an Organizational Chart
2. Summary and high points of state laws and Township resolutions that affect ABCs

Second Class Township Code
Sunshine Law
Right to Know Law
Ethics Act
Township's E-mail Policy

3. Brief summary of the roles, responsibilities and relationships of each ABC.
We would have an Organizational Chart.
4. Chairmen rotation throughout the ABC membership.
A member can only serve as chairperson for two years in a row.
5. ABC Term Limits
A member can only serve the equivalency of two full consecutive terms.
6. Code of Conduct – Review Resolution 09-29 (attached) in some detail
7. Controversial Issues – Discuss how to address a controversial issue. We would suggest soliciting comments from ABC members at the session on this topic. The ABC members would develop the game plan.
8. Discuss any issues from survey.

Other Steps - We would also suggest that the Board consider the following:

ABC Promotion – We need to spotlight the contributions that the ABCs make. To that end we would suggest the following:

1. Consider providing each ABC member with a Township shirt or jacket.
2. Consider providing each ABC member with a permanent name tag.
3. Recognize a specific ABC on the web page on a regular basis.
4. Provide each ABC with a location on the Township web page at which they can post articles of interest.

We are still working on this initiative

Neighborhood University - The impetus for the Neighborhood University was to enlighten residents about what the Township does in order to encourage residents to apply for the various ABCs. We would suggest making the Neighborhood University a yearly event to be held in September. We publish the ABC ad in October, so we could give each participant an application with their certificate. We will also look into the possibility of holding a Neighborhood University session in Hershey's Mill.

Mark Gordon is reviewing the course outline for the Neighborhood University. His goal is to tighten it up so that we can conclude each evening's session by 9:30 pm. We would suggest having the sessions on Tuesday, October 23 and 30 Thursday October 18 and 25.

ABC Appointments– The annual ABC advertisement for volunteers is published in the Daily Local News in October, and we post a copy on the Township web page.

We have prepared a synopsis of what each ABC does, its members' terms and meeting dates, etc. and posted it under the Employment and Volunteer Opportunities Tab on the Township web page.

Consider announcements at Township events such as the Harvest Festival or temporary signage at the Township Park advising residents that the Township is accepting applications for ABCs.

F:\Data\Shared Data\ABC'S\general\Training\Training Session 080912.docx

ABC TRAINING SESSION

6:00 pm Dinner

6:20 pm **Senya Isayeff**

Welcome

6:30 pm ~~Chuck Proctor~~ **Marty Shane**

Brief overview of the Township's place in the governmental hierarchy.

Summary and high points of state laws and Township resolutions that affect ABCs

Second Class Township Code

Sunshine Law

Right to Know Law

Ethics Act

Township's E-mail Policy

Summary of the roles, responsibilities and relationships of each ABC.

7:30 pm **Thom Clapper**

Chairperson Rotation

ABC Term Limits

Code of Conduct – (Resolution 09-29)

8:20 pm **Senya Isayeff**

Controversial Issues

Issues from ABC Survey

9:20 pm **Senya Isayeff**

Closing Remarks

9:30 pm Adjourn

106.

Memorandum

East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

Voice: 610-692-7171

Fax: 610-692-8950

E-mail: mgordon@eastgoshen.org

Date: 8/15/2012

To: Board of Supervisors

From: Mark Gordon, Zoning Officer

mb

Re: Large Format Copier, Scanner, Printer

Dear Board Members,

To answer the questions you had on the Multi function, Large Format copier; I offer the following:

The maintenance and warrantee does not cover paper and ink.

ARC is located in King of Prussia.

This machine will copy, print and scan in color and grayscale (B&W).

I asked for a paper and ink cost analysis and I have attached a copy for your review.

Canon imagePROGRAF iPF765/760

Cost Per Print and Ink Yield Analysis

		Universal Bond Paper		Matte Coated Paper 170gsm		Glossy Photographic Paper 240gsm	
		Print Mode	Draft	Standard	High	Standard	High
iPF765/760 ARCH D 24"x36" (6 sq.ft.) COLOR CAD FILE (Cottage plan and elevation.dwg)	N5 (a.k.a., Bicycle)	Ink Cost	\$0.58	\$0.71	\$0.78	\$0.84	\$0.91
		Media Cost (24" roll)	\$0.51	\$0.51	\$1.04	\$1.04	\$2.97
		Total	\$1.09	\$1.22	\$1.82	\$3.88	\$3.89
		Ink Cost per sq.ft.	\$0.097	\$0.118	\$0.129	\$0.151	\$0.154
		Media Cost (24" roll) per sq.ft.	\$0.085	\$0.085	\$0.174	\$0.494	\$0.494
		Total Cost per sq.ft.	\$0.182	\$0.203	\$0.303	\$0.645	\$0.648
		Avg. No. of Prints/Ink Set	694	568	521	443	438
		Ink Cost	\$0.18	\$0.24	\$0.21	\$0.21	
		Media Cost (24" roll)	\$0.51	\$0.51	\$1.04	\$1.04	
		Total	\$0.69	\$0.75	\$1.25	\$1.25	
CAD FILE (Building.dwf, Monochrome Mode)		Ink Cost per sq.ft.	\$0.029	\$0.039	\$0.034	\$0.035	
		Media Cost (24" roll) per sq.ft.	\$0.085	\$0.085	\$0.174	\$0.174	
		Total Cost per sq.ft.	\$0.114	\$0.124	\$0.208	\$0.209	
		Avg. No. of Prints/Ink Set	2,363	1,729	2,005	1,950	
		Ink Cost	\$0.14	\$0.17	\$0.14	\$0.16	
		Media Cost (24" roll)	\$0.51	\$0.51	\$1.04	\$1.04	
		Total	\$0.65	\$0.68	\$1.18	\$1.20	
		Ink Cost per sq.ft.	\$0.022	\$0.029	\$0.023	\$0.026	
		Media Cost (24" roll) per sq.ft.	\$0.085	\$0.085	\$0.174	\$0.174	
		Total Cost per sq.ft.	\$0.107	\$0.114	\$0.197	\$0.200	
iPF765/760 ARCH E 36"x48" (12 sq.ft.) COLOR CAD FILE (Cottage plan and elevation.dwg)	N5 (a.k.a., Bicycle)	Avg. No. of Prints/Ink Set	3,058	2,392	2,921	2,680	
		Ink Cost	\$1.17	\$1.42	\$1.49	\$1.66	\$1.79
		Media Cost (36" roll)	\$1.02	\$1.02	\$2.06	\$2.06	\$5.45
		Total	\$2.19	\$2.44	\$3.55	\$3.72	\$7.24
		Ink Cost per sq.ft.	\$0.097	\$0.118	\$0.124	\$0.139	\$0.149
		Media Cost (36" roll) per sq.ft.	\$0.085	\$0.085	\$0.172	\$0.172	\$0.455
		Total Cost per sq.ft.	\$0.182	\$0.203	\$0.296	\$0.311	\$0.610
		Avg. No. of Prints/Ink Set	346	284	270	242	225
		Ink Cost	\$0.27	\$0.36	\$0.33	\$0.37	
		Media Cost (36" roll)	\$1.02	\$1.02	\$2.06	\$2.06	
CAD FILE (Building.dwf, Monochrome Mode)		Total	\$1.29	\$1.38	\$2.39	\$2.43	
		Ink Cost per sq.ft.	\$0.022	\$0.030	\$0.028	\$0.031	
		Media Cost (36" roll) per sq.ft.	\$0.085	\$0.085	\$0.172	\$0.172	
		Total Cost per sq.ft.	\$0.107	\$0.115	\$0.200	\$0.203	
		Avg. No. of Prints/Ink Set	1,523	1,135	1,238	1,114	
		Ink Cost	\$0.26	\$0.34	\$0.26	\$0.27	
		Media Cost (36" roll)	\$1.02	\$1.02	\$2.06	\$2.06	
		Total	\$1.28	\$1.36	\$2.32	\$2.33	
		Ink Cost per sq.ft.	\$0.021	\$0.028	\$0.022	\$0.023	
		Media Cost (36" roll) per sq.ft.	\$0.085	\$0.085	\$0.172	\$0.172	
		Total Cost per sq.ft.	\$0.106	\$0.113	\$0.194	\$0.195	
		Avg. No. of Prints/Ink Set	1,604	1,209	1,578	1,502	

Ink Cartridge	Item No.	MSRP	Cost/ml
PFI-102MBK Matte Black Ink Tank 130ml	0894B001AA	\$66	\$0.508
PFI-102BK Black Tank 130ml	0895B001AA	\$66	\$0.508
PFI-102C Cyan Ink Tank 130ml	0896B001AA	\$66	\$0.508
PFI-104M Magenta Ink Tank 130ml	3631B001AA	\$66	\$0.508
PFI-102Y Yellow Ink Tank 130ml	0898B001AA	\$66	\$0.508

Media	Item No.	MSRP	Cost/sq.ft.
Universal Bond Paper 17"x150ft	0834V792	\$17.95	\$0.085
Universal Bond Paper 24"x150ft	0834V793	\$25.30	\$0.085
Universal Bond Paper 36"x150ft	0834V794	\$37.95	\$0.085
Matte Coated Paper 17"x100ft	0849V348	\$28.90	\$0.204
Matte Coated Paper 24"x100ft	0849V349	\$34.65	\$0.174
Matte Coated Paper 36"x100ft	0849V350	\$51.45	\$0.172
Glossy Photographic Paper 17"x100ft	1154V522	\$68.65	\$0.485
Glossy Photographic Paper 24"x100ft	0849V336	\$98.80	\$0.494
Glossy Photographic Paper 36"x100ft	0849V337	\$136.25	\$0.455

The ink cost analysis is based on actual ink usage, using the specified type of paper and print mode with the printer driver under conditions stated left. For Universal Bond paper, Plain Paper setting was used, for Matte Coated Paper 170gsm, Heavyweight Coated Paper setting was used, and for Glossy Photographic Paper 240gsm, Glossy Photo Paper setting was used to measure the ink amount.

The media cost analysis is based on square footage from the size of the paper using roll feed paper. The total cost is a sum of the ink cost and the media cost, and does not include the cost of other customer replaceable items such as a print head, a cutter and a maintenance cartridge. The average cartridge yield represents the average number of prints that can be printed with a set of five ink cartridges.

All prices used in this analysis are based on MSRP in U.S. dollars as of June 2009. This document was created and published in June 2009, and specifications are subject to change without notice.

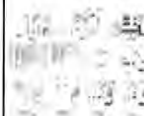
Sample Images used in this analysis



N5(ISO-JIS SCID a.k.a. "Bicycle Chart) OS: Windows XP SP2, CPU: Pentium4 3.2 GHz, RAM: 1 GB, Application: Adobe Photoshop 7.0, Interface: USB 2.0 Hi-Speed, Output Image size: ARCH E: 33.11" x 46.81"; ARCH D: 23.39" x 33.11"



COLOR CAD File ("Cottage plan and elevation.dwg") OS: Windows XP SP2, CPU: Pentium4 3.2 GHz, RAM: 1 GB, Application: Adobe Photoshop 7.0, Interface: USB 2.0 Hi-Speed, Output Image size: ARCH E: 33.11" x 46.81"; ARCH D: 23.39" x 33.11"



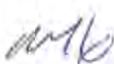
CAD File ("Building.dwf") OS: Windows XP SP2, CPU: Pentium4 3.2 GHz, RAM: 1 GB, Application: Autodesk DWF Viewer, Interface: Network Connection, Output Image size: ARCH E: 31.75" x 45.5"; ARCH D: 22.25" x 32.25", Mode: Monochrome (BK ink)



Memorandum

East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

Voice: 610-692-7171
Fax: 610-692-8950
E-mail: mgordon@eastgoshen.org

Date: 7/30/2012
To: Board of Supervisors
From: Mark Gordon, Zoning Officer 
Re: Large Format Copier, Scanner, Printer

Dear Board Members,

You may know that we have a large format Savin 7700W copier that copies large size prints single sided and one at a time, which is ten years old. We also have a large format HP Design Jet printer that is nearing ten years old and needs some maintenance.

I met with a Cannon representative back in May and he has put together a very attractive offer to replace both machines with a combination large Format Copier, Scanner, and Printer. This machine will also integrate with our document management server and our file server to allow for better records management.

The cost to purchase the machine (1 year warrantee included) plus a 2 year service pack through Cannon totaling three years of coverage is \$9,344; which includes a trade in of the existing Savin large format copier for the amount of \$2,745. The 36 month term is basically a rental and maintenance is covered for 3 years through their local K.O.P. office. We would have options to purchase or upgrade after the term, similar to a lease.

We may be able to get around \$2000 for the HP Design Jet printer on Municipi Bid, I see other used Design Jet's selling for \$2,700 on Ebay.

I would like the Board to consider authorizing the staff to replace these two pieces of office equipment with one that does more and will enhance productivity.



East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

7-30-2012

Attention: Mark Gordon
From: Sean Crowley

Mark,

We are pleased to provide this proposal as a solution for a wide-format printer. The **Canon ipf760 MFP** unit will improve your office's workflow.

Canon ipf760 MFP

- Horizontal Flat Stacker Basket
- Top Loading Media
- Scan to Copy/Email/File
- Economy Print Mode
- Energy Star Certified



Purchase:	\$6,749.00
2-year Care Pack:	\$2,595.00
36 Month Term:	\$291.00 per month
36 Month Maintenance:	Included

Above pricing includes delivery, installation, and training.

Benefits of Partnering with ARC

- No 3rd party leasing company
- Increased equipment exchange flexibility
- No return fees when the term ends
- Small Format office copiers and printers available, ability to bring all print needs under one roof

Again thank you for this opportunity, please do not hesitate to call with any questions. This proposal is considered confidential and all quoted prices are valid for 45 days.

Sincerely,

Sean Crowley


Disclosure Statement

The content within this proposal contains "Trade Secrets" of American Reprographics Company. The "Trade Secrets" remain the exclusive property of American Reprographics Company, and may not be disclosed by the addressee, its agents, affiliates or contractors to any third party, directly or indirectly, without written consent of American Reprographics Company.

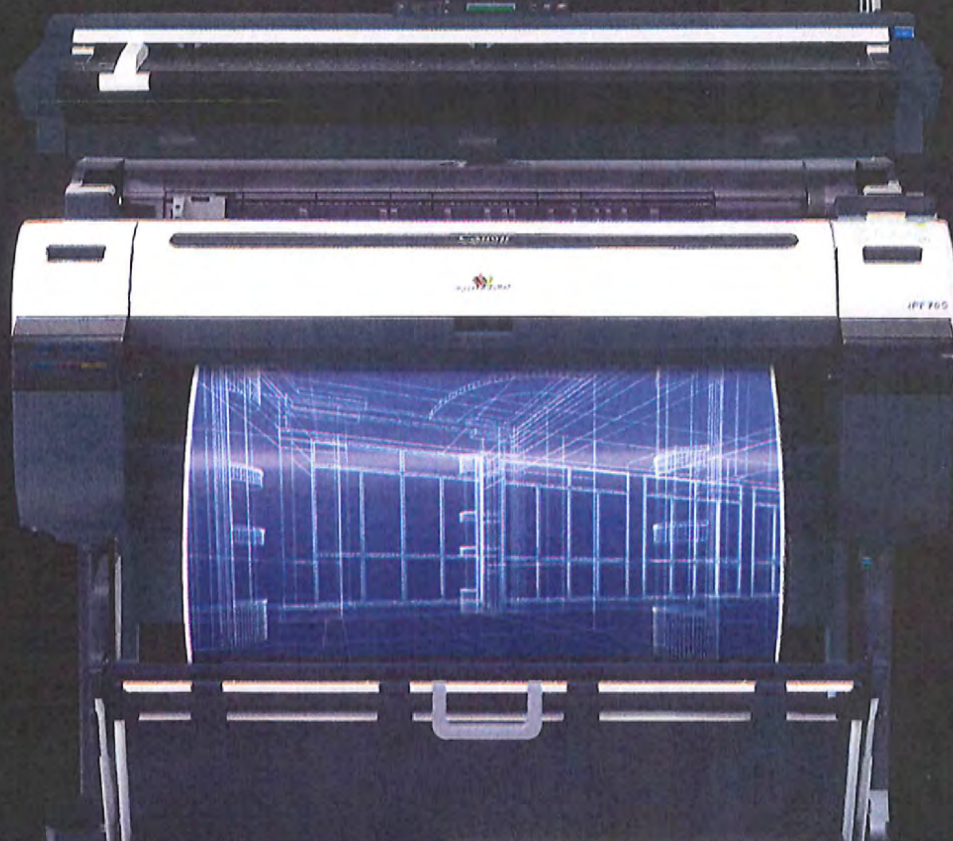
Period of Validity

The terms set forth in this proposal remain valid for a period of 45 days from the date of submission.

Canon

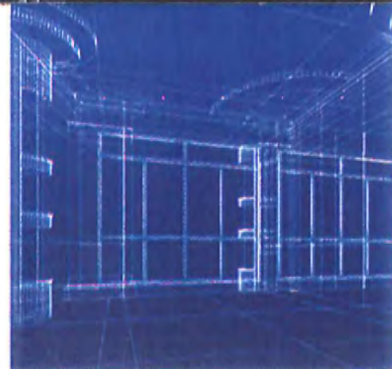
 **imagePROGRAF**
IPF765/760MFP

imagePROGRAF



**TECHNICAL
DOCUMENTS**

MFP LARGE-FORMAT IMAGING





36" imagePROGRAF iPF765/760 MFP Systems

Large-format scan-to-copy/file/e-mail solutions for technical document environments.

Designed for AEC, CAD, and GIS technical documents and general use, the 36" imagePROGRAF MFP large-format imaging systems help unlock the full potential of your productivity. These iPF MFP systems have a scanner stand that connects directly to the printer stand to create a one-piece structure. And, you now have options to configure the monitor's position.

FEATURES

- A complete workflow solution includes large-format scanner, printer, **integrated stand**, computer, and intuitive touch-screen interface.
- The scanner stand connects **directly to the printer** stand to create a one-piece structure.
- **Monitor configuration options** include swing arm, height, and left- or right-side mounting.
- Horizontal **Flat Stacker/Basket** neatly stacks up to twenty 24" x 36" plain paper prints.
- Achieve maximum scan speeds of up to **ten inches per second** for monochrome documents.
- Economy Print Mode allows **for lower cost of operation**.

imagePROGRAF MFP

TECHNICAL INNOVATIONS

Built with the user in mind, the imagePROGRAF iPF765/760 MFP Systems include features that make them easy and practical to use.

HARDWARE DESIGN

The scanner stand is designed to connect directly to the printer stand to create a **one-piece structure** that helps reduce the total footprint of the iPF MFP. The stand gives you the flexibility to use as an "all-in-one" configuration or be set up as an independent scanner stand. There also are options for the monitor position incorporated into the new design. You can choose which side of the stand to place the monitor and whether to use a straight or a swing arm. When using the swing arm, you can choose between two height options. This single-stand design eliminates the need to move the printer and scanner, piece by piece, when setting up or relocating the MFP. The integrated **Flat Stacker/Basket** provides the capability to neatly stack up to twenty 24" x 36" plain paper prints. The basket can be configured as a regular basket, a small stacker, or a larger flat stacker/basket.

EMBEDDED SECURITY

A new **interface lock system** enhances the security functions of the printer. This feature provides an option for administrative control to restrict usage to the printer. The imagePROGRAF iPF765 printer is equipped with a hard drive erase feature that completely erases data sent to the printer from the printer's hard disk.

CIS SCANNING TECHNOLOGY

The imagePROGRAF iPF MFP uses CIS technology to capture the finest image detail in technical documents, maps, sketches, hand-annotated drawings, and complex schematics. With true **600-dpi optical resolution**, you can achieve exceptional monochrome performance with very sharp, clean images as well as high-definition color reproduction. And dynamic preview ensures that scans and copies match original hard-copy documents every time.



INNOVATIVE SOFTWARE



The included SmartWorks MFP software provides users with an easy-to-use interface that requires less interaction between the user and the software. This will reduce the time spent preparing each print and streamline the process as well. The interface includes labels for each button, making printing a file or scanning to copy or file/e-mail as easy as 1-2-3. The large preview screen makes it easier for users to make edits and see dynamic changes on-screen.

Large preview screen

- Make edits and see dynamic changes on-screen
- Press green button and apply all changes to original scanned file

Image Editing Capabilities

- Manual Deskew Feature
- Brighten Feature
- Crop Feature
- Zoom In/Out Feature

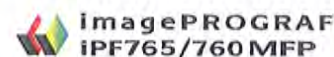
HIGH-QUALITY OUTPUT

Print complex schematics with super-clear small text fonts and crisp lines over color backgrounds, even on uncoated technical papers. A super-high-density print-head ejects tiny 4pl droplets of ink that consistently produce **2400 x 1200 dpi output with fine lines within +/- 0.10% accuracy** and as thin as 0.02mm. And Canon's unique 5-color Reactive ink-set delivers durable, smudge-resistant prints with sharp lines and text, bold colors, and smooth fills.

With four lines of imagePROGRAF large-format solutions... whatever your needs, Canon has the answer.

imagePROGRAF

SCANNER SPECIFICATIONS



Scan Speed*

- 24-bit Full Color @ 200 dpi: 1.67" (per second)
- 8-bit Grayscale and Monochrome @ 200 dpi: 10" (per second)

Scan Modes

- 16.7-million Color RGB (24-bit)
- 256 color RGB adaptive indexed color palette (8-bit)
- 256-level Grayscale (8-bit)
- Black and White (1-bit)

Color Space

Normalized RGB

Resolution

- 2400 dpi (maximum)
- 600 dpi (optical)

Scan Accuracy**

+/- 0.1% ; +/- 1 pixel

Maximum Image Width

40 Inches

Maximum Media Width

41 Inches

Maximum Scan Length

96 Inches

Maximum Media Thickness

0.012 Inches (0.3mm)

Media Feed System

Single large diameter precision ground drive roller; adaptive CIS media focus management and media guide mechanism; intuitive face-up, front-loading, and front-exit media path with side justification; automatic media size detection with reliable optical media sensors

Digital Imaging Technology

- Contact Image Sensor (CIS) Technology
- 5x close-spaced "deep focus" CIS (25,000 pixels)
- 48-bit RGB digital color image capture
- 16-bit grayscale image capture
- Panchromatic monochrome and black and white
- Bi-directional extra long-life LED light system for optimum object illumination and instant-on scanning capability

Digital Image Processing

- 2D Intelligent Adaptive Thresholding (IAT) (1-bit mode)
- Fixed Threshold Black and White (1-bit mode)
- Dynamic Normalization Application (DNA) with 16-bit super sampling

User Status and One-Touch Operation

Center mounted LCD scanner control panel; walk-up operation and user selection of scanner mode with stop, forward, rewind, scan, and copy buttons; local language options, panel overlay, and Magnetic Media Guide

Included Software

SmartWorks MFP scan-to-file, copy, e-mail with real-time image viewer, Supports TIFF, JPEG, TIFF G4, and PDF

Operating System

Windows 7 Professional (64-bit)

User Maintenance

Installable plug-n-play scanner; simple cleaning

Scanner Interface Kit

USB 2 Hi-speed

Operating Environments

10 - 30°C, 35-80% RH, non-condensing

External Power Supply

100-250 VAC autosensing +/- 10%, 50-60 Hz

Scanner Power Consumption

- 40Wh (Scanning)
- 4.2Wh (Stand-by)

Compliances

CB, CE, FCC, UL, RoHS, ENERGY STAR®

MFP Dimensions

- Height: Swing arm high: 63"
- Swing arm low: 56.2"
- Straight arm: 68.2"
- Width: With swing arm extended: 78.5"
- With straight arm: 61.2"
- Depth: Flat stacker: 47.3"
- Regular basket: 38.4"
- Closed: 31.2"

What's In The Box?

- imagePROGRAF Printer***
- Ci C40 Scanner with power cord and USB 2.0 Cable (Scanner to Server)
- 2 Meter USB Cable (Server to Printer)
- Ci C40 MFP Stand
- Ci C40 MFP Stand Assembly Instructions
- SmartWorks MFP Software
- Computer
- Flat Panel Touch-screen Display
- Installation and Operation Manual
- Operator Manual on CD-ROM

* The scan rate is proportional across the full range of resolutions supported by the scanner. Actual scan times will depend on the host system performance. Quoted top speeds may be limited by the effective bandwidth of the USB 2 and is not guaranteed for all media types.

** The quoted scan accuracy may vary depending on the operating environment and the thickness of the media.

*** Please refer to www.usa.canon.com/imageprograf for specifications for imagePROGRAF printer models.

Canon
image*ANYWARE*

1-800-OK-CANON
www.usa.canon.com

Canon U.S.A., Inc.
One Canon Plaza
Lake Success, NY 11042

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0412-IPF765/760MFP-PDF-NR



 **DRAFT**
100.

**EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA**

ORDINANCE NO.

**AN ORDINANCE OF EAST GOSHEN TOWNSHIP,
CHESTER COUNTY, PENNSYLVANIA, AMENDING
CHAPTER 240 OF THE EAST GOSHEN TOWNSHIP
CODE, TITLED, "ZONING"**

BE IT ENACTED AND ORDAINED by the Board of Supervisors of East Goshen Township, Chapter 240 of the East Goshen Township Code, titled, "Zoning", shall be amended as follows:

SECTION 1. Section 240-22.1(2) shall be amended as follows:

"(2) Signs giving notice of the sale or rental of the property on which the sign is located, provided that such sign does not exceed eight square feet in area in the R-1 (PRD Residential Area), R-2, R-3, R-4 and R-5 Zoning Districts, and 20 square feet in area in the R-1 (PRD Commercial Area), C-1, C-2, C-4, C-5, I-1, I-2 and BP Zoning Districts, and are removed within 72 hours upon settlement of the sale or upon signing of the lease of rental. Open house directional signs with a maximum size of two square feet may be installed two hours prior to the open house and must be removed immediately following the event."

SECTION 2. Section 240-22.P(4)(b) shall be amended as follows:

"(b) Freestanding signs.

[1] A shopping center use in the C-2 District or within a PRD may have a freestanding sign with a maximum area of 120 square feet and a maximum height of fourteen feet on each street frontage. No more than one freestanding sign shall be permitted on each street frontage.

[2] All other freestanding signs shall not exceed 10 square feet in area nor five feet in height. No more than one freestanding sign shall be permitted on each street frontage."

SECTION 3. The Summary Sign Chart 1 located at the end of Section 240-22 shall be amended as follows:

Summary Sign Chart 1

Maximum Size per Type of Sign

Sign Type	Residential Districts	Residential Districts , Local Shopping facilities in Apt. dev.	Commercial Districts, Individual structure on a single lot	Commercial Districts, Structure with more than one establishment	Commercial Districts, off premises	Industrial and Business Park Districts	Shopping centers in the C-2 or within a PRD
Wall	20% of signable area or 32 sq.ft.	4 sq. ft.	2 sq. ft. of area per linear ft. of wall signable area (60 sq.ft. maximum)	32 sq. ft.	100 sq.ft.	2 sq.ft. in area per linear ft. of wall signable area(100 sq. ft. maximum)	32 sq. ft.
Free standing	32 sq.ft.	20 sq. ft. (8 ft. high)	10 sq. ft.	10 sq. ft. (5 ft. high)	20 sq. ft.	20 sq. ft.	120 sq. ft. (14 ft. high)
Window	20% of window area	20% of window area	20% of window area	20% of window area	n/a	n/a	20% of window area

SECTION 4. Severability. If any sentence, clause, section, or part of this Ordinance is for any reason found to be unconstitutional, illegal or invalid, such unconstitutionality, illegality or invalidity shall not affect or impair any of the remaining provisions, sentences, clauses, sections, or parts hereof. It is hereby declared as the intent of the Board of Supervisors that this Ordinance would have been adopted had such unconstitutional, illegal or invalid sentence, clause, section or part thereof not been included herein.

SECTION 5. Repealer. All ordinances or parts of ordinances conflicting with any provision of this Ordinance are hereby repealed insofar as the same affects this Ordinance.

SECTION 6. Effective Date. This Ordinance shall become effective in five days from the date of adoption.

ENACTED AND ORDAINED this _____ day of _____, 2012.

ATTEST:

**EAST GOSHEN TOWNSHIP
BOARD OF SUPERVISORS**

Louis F. Smith, Secretary

Senya D. Isayeff, Chairman

Thom Clapper Ph.D, Vice-Chairman

E. Martin Shane, Member

Carmen Battavio, Member

Charles W. Proctor, III, Esquire, Member



THE COUNTY OF CHESTER

COMMISSIONERS

Terence Farrell
Kathi Cozzone
Ryan A. Costello

Ronald T. Bailey, AICP
Executive Director

PLANNING COMMISSION

Government Services Center, Suite 270
601 Westtown Road
P.O. Box 2747
West Chester, PA 19380-0990
(610) 344-6285 Fax: (610) 344-6515



July 26, 2012

RECEIVED
BY: _____

JUL 26 2012

Louis F. Smith, Jr., Manager
East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

Re: Zoning Ordinance Amendment – Temporary Signs and Freestanding Signs
ZA-6-12-6288 - East Goshen Township

Dear Mr. Smith:

The Chester County Planning Commission has reviewed the proposed ordinance amendment as submitted pursuant to the provisions of the Pennsylvania Municipalities Planning Code, Section 609(e). The referral for review was received by this office on June 26, 2012. We offer the following comments to assist in your review of the proposed ordinance amendment.

COMMENTS ON THE AMENDMENT:

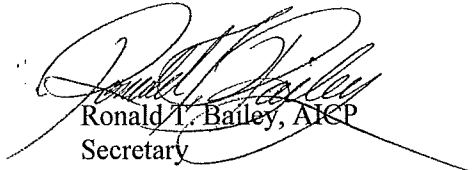
This amendment relates to signs. Open house directional signs are regulated and permitted with a maximum size of two square feet, and may be installed two hours prior to the open house event. Shopping center signs in the C-2 Local Convenience Center District and within a Planned Residential Development may be up to 120 square feet with a maximum height of 14 feet on each street frontage, with not more than one freestanding sign on each street frontage.

The Township may wish to clarify that the open house directional signs may be installed not more than two hours prior to the open house event (and with the approval of the property owner); the current language may permit such signs to be placed at any time prior to the event. We also suggest that the Township may not be able to enforce the two-hour limit unless then sign contains the time of the open house event.

RECOMMENDATION: East Goshen Township should consider the comments in this letter before acting on the proposed amendment.

We request an official copy of the decision made by the Board of Supervisors, as required by Section 609(g) of the Pennsylvania Municipalities Planning Code. This will allow us to maintain a current file copy of your ordinance.

Sincerely,


Ronald T. Bailey, AICP
Secretary

10d.

Memorandum

East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

Voice: 610-692-7171
Fax: 610-692-8950
E-mail: mgordon@eastgoshen.org

Date: 8/16/2012
To: Board of Supervisors
From: Mark Gordon, Zoning Officer *MG*
Re: WCF Equipment Height / Liberty Tower

Dear Board Members,

As It turns out equipment shelters for the Wireless Communications industry are now built to a minimum height of ten (10) feet tall. Our ordinance only permits shelters to be 8 feet tall.

AT&T applied for a building permit to construct their equipment facility and antennas on the new tower and they proposed a 10 foot tall equipment shelter. **This matter has risen again with Verizon Wireless.** Verizon is using a 10' 7" tall shelter. As you know shelters and equipment are permitted to be a maximum of 8 feet tall in the Zoning Ordinance.

Liberty has agreed to amend all the lease documents and build the fence and columns to a height of 12 feet tall. Those site plans are being revised and we should have them shortly

There are a couple of things that need to happen in order to move forward:

1. Amend the ordinance, I have provided a proposed amendment for your review and have also forwarded it to the CCPC for their review.
2. Approve a change to the site plan Exhibit B and C from the Liberty Towner Lease agreement. This information has not been forwarded to me yet however I'm told that Liberty is working on it.

If all of this comes together and the Board agrees you'll be able to hold a hearing on October 2nd to adopt the ordinance and to review and approve the changes to the Liberty tower site plan.

Once we have a date set for a hearing and to discuss the lease I'll send a letter to all property owners within 1000' to inform them of the meeting.

EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA

ORDINANCE NO. -2012

AN ORDINANCE OF EAST GOSHEN TOWNSHIP, CHESTER COUNTY, PENNSYLVANIA, AMENDING CHAPTER 240 OF THE EAST GOSHEN TOWNSHIP CODE, TITLED, "ZONING", TO ADD A DEFINITION FOR CONTRACTOR'S ESTABLISHMENT; TO ALLOW SUCH USE BY RIGHT IN THE C-1 COMMUNITY COMMERCIAL DISTRICT; AND TO AMEND SECTION 240-31.C(3)(h) TO ALLOW THE MAXIMUM HEIGHT OF A WIRELESS COMMUNICATIONS EQUIPMENT BUILDING TO BE 12 FEET.

BE IT ENACTED AND ORDAINED, by the Board of Supervisors of East Goshen Township, that Chapter 240 of the Code of the Township of East Goshen, titled, "Zoning", shall be amended as follows:

SECTION 1. Section 240-6 shall be amended by adding the following definition:

"CONTRACTOR'S ESTABLISHMENT- A commercial use which involves administrative offices and the storage of supplies, equipment, machinery and materials for contractors and tradesmen such as but not limited to builders, masons, carpenters, plumbers and trade businesses."

SECTION 2. Section 240-14.B shall be amended to add a new subparagraph (15) which shall provide as follows:

“(15) Contractor’s Establishment.”

SECTION 3. Section 240-31.C(3)[h][2][d] shall be amended as follows:

“[d] Wireless communications equipment building or pad. Either one single-story wireless communications equipment building not exceeding 500 square feet in area, or a concrete pad not exceeding 500 square feet in area that houses the equipment necessary for the proper functioning of the tower and commercial communications antenna(s) may be located on the property where the tower is located. This pad must be setback a minimum of ten feet from any property line and the combined height of the pad and any structures erected on such pad may not exceed twelve feet. Each unrelated company sharing commercial communications antenna(e) space on the tower may have its own building or pad provided that the total area of all buildings or pads on the site shall not exceed 500 square feet, unless otherwise approved by the Board.”

SECTION 4. Section 240-31.C(3)[h][3][d] shall be amended as follows:

"[d] Wireless communications equipment. A concrete pad not exceeding 10 feet by 20 feet in area that contains up to three metal boxes housing the equipment necessary for the proper functioning of the antenna may be located on the property where the commercial communications antenna will be located. This pad must be setback a minimum of ten feet from any property line and the combined height of the pad and boxes may not exceed twelve feet. Each unrelated company having an antenna on the existing structure may have its own concrete pad provided that the total area of all pads for all carriers located on the structure shall not exceed 500 square feet, unless otherwise approved by the Board."

SECTION 5. Severability. If any sentence, clause, section, or part of this Ordinance is for any reason found to be unconstitutional, illegal or invalid, such unconstitutionality, illegality or invalidity shall not affect or impair any of the remaining provisions, sentences, clauses, sections, or parts hereof. It is hereby declared as the intent of the Board of Supervisors that this Ordinance would have been adopted had such unconstitutional, illegal or invalid sentence, clause, section or part thereof not been included herein.

SECTION 6. Repealer. All ordinances or parts of ordinances conflicting with any provision of this Ordinance are hereby repealed insofar as the same affects this Ordinance.

SECTION 7. Effective Date. This Ordinance shall become effective in five days from the date of adoption.

ENACTED AND ORDAINED this ____ day of _____, 2012.

ATTEST:

**EAST GOSHEN TOWNSHIP
BOARD OF SUPERVISORS**

Louis F. Smith, Secretary

Senya D. Isayeff, Chairman

Thom Clapper Ph.D, Vice-Chairman

E. Martin Shane, Member

Carmen Battavio, Member

Charles W. Proctor, III, Esquire, Member

119.

Memo
East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

Voice 610-692-7171

Fax 610-692-8950

E-mail rsmith@eastgoshen.org

Date: August 14, 2012
To: Board of Supervisors
From: Rick Smith, Township Manager
Re: Pumpkin Festival

The Park and Rec Commission would like to have a Pumpkin Festival on October 13th. The 2012 Budget includes an expense line of \$3,500 for the event; however, it also includes receipts of \$3,500. When the budget was adopted it was with the understanding that this type of event would be funded by the Friends of East Goshen.

However, based on the latest letter from the Friends it appears that they will not fund the Pumpkin Festival. The new Friends of East Goshen is still in the development stage so I do not see them being in a position to fund the event.

Does the Board want to pay for the event?

If not is it ok for the Park Commission to solicit funds for the event if they chose to?

116.

Memo
East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

Voice 610-692-7171

Fax 610-692-8950

E-mail rsmith@eastgoshen.org

Date: August 17, 2012

To: Board of Supervisors

From: Rick Smith

Re: WEGO Police Chief

We met with Terry Woodman and Chief Dooley on Thursday and they have agreed to help us out by having East Whiteland Police Chief Dooley serve as interim Chief of Police for WEGO. It is anticipated that Chief Dooley would start on August 27, 2012 which would enable him to work with Chief Dumond for a week.

The memorandum of understanding between East Whiteland and the Police Commission is being finalized and the Commission expected to approve it the middle of next week.

Our Police Agreement with Westtown Township allows the Commission to hire and fire employees, and enter into contracts. While I do not think Board approval is necessary, after discussing the matter with Carmen we decided to play it safe and place the matter on the agenda.

Cc: Bob Layman

F:\Data\Shared Data\Police Dept\East Whiteland\Memo to BoS 081712.docx

13 a.

**EAST GOSHEN TOWNSHIP
BOARD OF SUPERVISORS MEETING
1580 PAOLI PIKE
August 7, 2012 – 6:30pm
Draft Minutes**

Present: Chairman Senya D. Isayeff, Vice-Chairman Thom Clapper and Supervisors Marty Shane, Carmen Battavio and Chuck Proctor. Also present were Township Manager Rick Smith, CFO Jon Altshul, Erich Meyer and John Jamgochian (Park & Rec), Kathryn Yahraes (Historical Commission), Sandra Snyder (Conservancy Board), Susan Carty (Planning Commission), and reporter Michael Price from the *Daily Local*. Township Solicitor Kristin Camp was present for the Public Hearing.

Executive Session

The Board met in Executive Session from 6:30pm to 7:06pm to discuss the police contract and personnel matters.

Call to Order & Pledge of Allegiance

Senya called the meeting to order at 7:07pm. Reporter Michael Price led everyone in the Pledge of Allegiance.

Moment of Silence

Carmen Battavio called for a moment of silence to honor the troops.

Recording of Meeting

Michael Price of the *Daily Local* said he would be recording the meeting.

Public Comment on Non-Agenda Items

None.

Chairman's Report

Senya announced that the Board met in Executive Session after the July 17 meeting and on July 24 to discuss the police labor contract.

Public Hearing – Create Township Building Code Board of Appeals

The Board held a public hearing to consider approving an ordinance amendment to create a Township Building Code Board of Appeals.

Marty moved to adopt Ordinance No. 129-C-2012 to create the East Goshen Township Building Code Board of Appeals. Thom seconded the motion. There was no public comment. The motion passed unanimously.

Marty then moved to adopt Resolution 2012-66 establishing the East Goshen Township Board of Appeals. Thom seconded the motion. There was no public comment. The motion passed unanimously.

1 A court reporter was present and will provide a complete transcript of the proceedings.

2
3 **Hershey Mill Dam**

4 Adam Brower of Edward B. Walsh and Associates provided an update on the status of the
5 proposed spillway and berm construction at the Hershey Mill Dam. He said he has received
6 estimates from construction companies to do all the work at a total cost of approximately \$215K
7 to \$240K at prevailing wage. These quotes do not include silt removal.

8
9 Marty noted that when the project is finished it will look more similar to what is there today than
10 how it looked in the past with a pond. It will basically be a wetland. Rick said there will be a
11 shallow pond once the project is complete, and Marty said it will still basically be a wetland.

12
13 *Public Comment: Art Polishuk, Grand Oak Lane* – Asked if it's possible a contractor would be
14 interested in hauling some of the silt away to use on another project, and whether the silt would
15 be usable for such a purpose. Mr. Brower said it's possible someone local might be interested in
16 the silt but not likely.

17
18 *Public Comment: Fran Beck, Foxglove Lane* – Expressed disappointment that Mr. Brower's
19 presentation was not provided in hard copy format for the residents, and that there was no artist's
20 rendering. Senya said that Mr. Brower was providing an update on the effort being driven by
21 Neil DeRiemer, which has been discussed at great length in many prior public meetings, many of
22 them attended by Mr. Beck. Mr. Beck indicated he had not heard any of this before, and he was
23 under the impression the pond was going to be dredged and would look similar to how it did in
24 the past. Rick noted that Neil is planning to have an artist's rendering made now that the plans
25 are in hand. Mr. Brower said that it was his wish to speak to the Board about the plans tonight
26 before the rendering was made.

27
28 Mr. Beck requested that a written copy of Mr. Brower's presentation be provided to the
29 residents. He said at this point it might be just as well to leave the dam as it is. Rick noted that
30 DEP will not allow the Township to leave the dam as-is; it must be brought up to their
31 specifications.

32
33 Marty told the Board he believes it would be appropriate to schedule a meeting for the residents
34 so they can hear the plans, see a rendering, and ask any questions they may have.

35
36 Mr. Beck said the residents were ready to raise money for the dam restoration but after hearing
37 the presentation tonight he's not sure it will happen. Senya said that Mr. DeRiemer never had
38 the intention of dredging the pond, and he urged Mr. Beck to call Mr. DeRiemer this evening to
39 discuss the matter. Mr. Beck said talking to Mr. DeRiemer won't do any good. The Township
40 has to let the residents know what's going on. Senya said the staff will print out copies of all
41 applicable meeting minutes for him to bring him up to speed.

42
43 Carmen told Mr. Beck that with all due respect, the issue of dredging the pond has not been
44 discussed for a very long time. The goal all along has been to meet DEP standards and restore
45 some of the character of the dam.

1 Rick asked Mr. Brower to get an estimate for dredging the pond so that the residents can have an
2 idea of the cost if they wish to raise money for that work. In the meantime the Township will get
3 a rendering and schedule a meeting for the residents.
4

5 **Police Services Counter-Offer from Thornbury Township**

6 Rick reported that Thornbury Township has rejected the Police Commission's offer and provided
7 a counter-offer in a letter dated July 30. The Police Commission is now seeking guidance from
8 the two charter townships.
9

10 Chuck moved to draft a letter to the Police Commission supporting them in their position to
11 reject the Thornbury counter-offer. Thom seconded the motion.
12

13 At Marty's request, Senya provided the following background on the Thornbury matter. He said
14 that the long-term costs associated with an officer becoming injured in Thornbury and going out
15 on a disability pension are far greater than the \$786,000.00 revenue that the one year extension
16 would generate for WEGO. The full health insurance coverage and disability pension benefits
17 required by the current agreement between WEGO and the Police Association are cost
18 prohibitive and no longer sustainable in this economic environment. The current Agreement
19 requires the continuation of health insurance benefits until the officer becomes eligible for
20 Medicare at age 65 and a disability pension set at 70% of the average of the three previous years
21 of gross income which includes overtime, vacation buy-backs and holiday premium pay for the
22 remainder of the officer's natural life. Based on the age, gross income, and type of health
23 insurance (single, employee and spouse or family) of an officer who may get injured in
24 Thornbury, the East Goshen Township residents along with the Westtown Township residents,
25 our fellow charter members of WEGO, would have a long term liability obligation that could
26 potentially last for decades. As an example, based on the life expectancy of 81 years for men in
27 the US, the health insurance benefits for one of the officers who is on disability pension will
28 continue for 29 years while the disability pension benefits will continue for 45 years. Given the
29 potential for such a long term liability, the East Goshen Township Board of Supervisors cannot
30 support the one year Thornbury contract extension without indemnification of WEGO as the risk
31 far outweighs the benefit of the revenue.
32

33 Thornbury is important to WEGO and to its two charter members as the contract fees help defray
34 the annual operating expenses. Both townships are aware that Thornbury is also talking with the
35 Borough of West Chester, whose Public Safety Committee is meeting this evening in the
36 Borough. Whereas it is of great interest to East Goshen to keep Thornbury, their inability or
37 unwillingness to indemnify WEGO or in the absence of a change to the contract that is currently
38 in effect between WEGO and the police Association, may result in losing them as a client. The
39 loss of Thornbury as a client may have a material effect on the future of WEGO in which case
40 East Goshen will have to be prepared to consider all other options for police services.
41

42 Senya said that East Goshen has the following options:
43

- 44 1. Continuity of the WEGO Regional Police Department with a new contract and Thornbury
45 remaining as a client (this Option is the Township's preference and second only to an
46 expanded Regional Operation).

- 1
- 2 2. Continuity of the WEGO Regional Police Department with a new contract and an
- 3 expanded list of clients or charter members to include Thornbury, Pocopson and any
- 4 other Township that would like to join with WEGO.
- 5

6 If neither of these two options are possible, the Township will have to consider:

7

- 8 3. Changing over to State Police coverage.
- 9 4. Becoming "like a Thornbury" to another Municipality (paying to receive police
- 10 services from another community).
- 11 5. East Goshen going on its own and developing its own police department.
- 12

13 Senya read aloud the following sentence from the Township Supervisors' handbook: "The

14 Supervisor has a role in representing the township's communal interests, past, present and

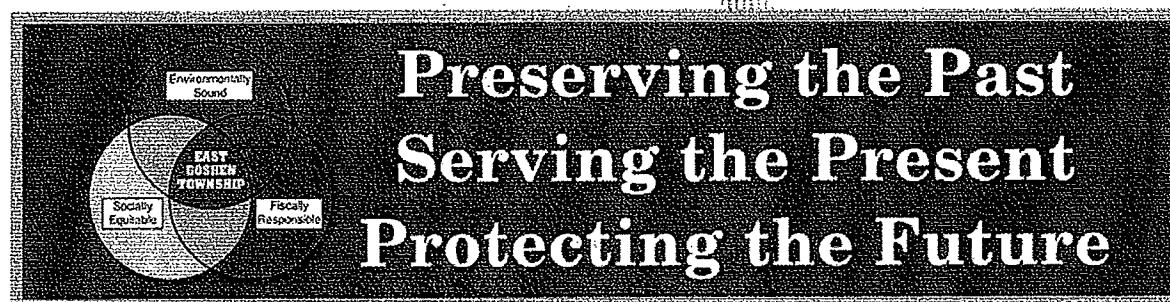
15 future." He then pointed to the banner behind the Supervisors' table and stated that all decisions

16 made by the Board of Supervisors and Township Staff have to be "Environmentally Sound,

17 Socially Equitable and Fiscally Responsible" so that the Township can preserve the past, serve

18 the present and protect the future for all present and future residents.

19



24 Senya also read aloud Paragraph 1 of 'Section 607 - Duties of Supervisors' in the Second Class

25 Township Code book: "The board of supervisors shall: be charged with the general governance

26 of the township and the execution of legislative, executive and administrative powers in order to

27 ensure sound fiscal management and the secure the health, safety and welfare of the citizens of

28 the township."

29 Senya stated it is the intent of the Supervisors and in the interest of the Township to maintain

30 continuity of the current arrangement. However, there is a risk that WEGO could lose

31 Thornbury, and if so, East Goshen must be prepared. Senya said that at no time will the

32 residents of East Goshen have their safety and security compromised by this Board of

33 Supervisors. He proposed that the Board meet the 2nd and 4th Tuesday evening of each month to

34 discuss the options. Marty said he supports the suggestion to begin meeting the 2nd and 4th

35 Tuesdays, and said the special meetings should commence as soon as possible.

36

37 *Public Comment: Andy Wahn, Cornwallis Drive* - Said the police do a great job and he doesn't

38 think anyone will truly appreciate how good they are until they're gone. He questioned whether

39 it would really be more cost effective to dissolve WEGO and start from scratch. He expressed

1 concern that a new police force would be built from rookies and lesser-quality officers (those
2 willing to accept lower salaries) with none of the valuable experience of the existing force.

3
4 Carmen said there is a lot of misinformation being spread. He said that as Police Commissioner
5 it is his responsibility to make sure the police serving East Goshen, whether they are part of
6 WEGO or not, is effective. He requested that any residents hearing rumors and questionable
7 information please bring it before the Board of Supervisors.

8
9 Senya again stated that it is the Board's objective to maintain continuity. However, when the
10 President of the Westtown-East Goshen Police Association was quoted three times in the
11 newspaper as stating that "we've made our last best offer" it means there may be no recourse for
12 East Goshen, and Thornbury may be lost.

13
14 Mr. Wahn asked what kind of notification will be given to the residents when any kind of
15 decision is made and Senya said the residents will be given plenty of notification. Marty said the
16 Board may want to consider drafting a letter to the residents to let them know where things stand.

17
18 *Public Comment: Art Polishuk, Grand Oak Lane* – Asked if it is true that Thornbury was offered
19 the opportunity to come in as a Charter Member of WEGO and they declined. Senya answered
20 yes.

21
22 *Public Comment: Anthony Ruggieri, President of the Westtown-East Goshen Police Assoc.* –
23 Thanked the Board for the opportunity to speak and asked Senya what his (Senya's) life was
24 worth. He told Senya that in his opening comments he should not have used the officer shot in
25 the hand as an example of how costly it is to provide disability pay and pensions to the officers,
26 when that particular officer was injured in the line of duty while serving the residents of East
27 Goshen. Mr. Ruggieri noted that WEGO has been operating without an indemnity clause from
28 Thornbury up until this point, and he doesn't understand why that cannot continue. Senya said
29 that when he used the officer shot in the hand as an example, he was trying to illustrate why
30 WEGO can no longer provide services to Thornbury without indemnity.

31
32 Senya pointed out to Mr. Ruggieri that the illustration he had provided as the reason why East
33 Goshen could not afford to take on a long term liability for an injury occurring in a client
34 municipality with no obligations beyond a fixed annual fee did not name any individual officer
35 or nature of the injury causing him or her to go on disability pension.

36
37 Mr. Ruggieri said that the proposal the Police Commission gave to the Police Association was
38 not legal under Act 600. He then stated that "we are open to any reasonable offer you propose."
39 Senya and Marty observed that statement did not match what Mr. Ruggieri was quoted three
40 times in the newspaper as saying. Marty said that WEGO is available any time Mr. Ruggieri
41 wants to meet. Senya offered to meet over lunch. Mr. Ruggieri said to put a reasonable offer in
42 writing and the Police Association will look at it. Senya said the two groups should meet as soon
43 as possible. Senya said they are willing and prepared to meet with all the members of the Police
44 Association if they wished. Mr. Ruggieri again asked that any reasonable offer be put in writing
45 first. Carmen said he feels that a face-to-face meeting would be best and asked that the Police
46 Association sit down with WEGO. He also stated that all the officers could come too if they

1 wished. Mr. Ruggieri said that with respect, the Association has tried face-to-face meetings and
2 it only led to disagreement about what was actually said at the meeting. He would prefer an
3 offer in writing so there is no misunderstanding.
4

5 Senya reminded Mr. Ruggieri that there was nothing the two groups could have disagreed about
6 as there were only three meetings. The first meeting was over lunch with no specific discussions
7 other than preparing a proposal for the Association to consider – something that no one disagrees
8 with today. The second meeting was when they met and the proposal was read word for word
9 with no discussion and agreement that the Association would provide a written response within
10 Thornbury's timeline requirement – something that no one disagrees with today. The third and
11 final meeting was when the Association said they were not interested in any further discussions –
12 something that no one disagrees with today and has been confirmed in the Daily Local News in
13 three separate articles. Mr. Ruggieri said he would like any proposal to be given to him first
14 before everyone meetings. It could be emailed to him or delivered. Then, after he meets with
15 the Police Association, it can be discussed with WEGO.
16

17 Senya said the WEGO contract for the next five years represents a \$40-\$50 million expenditure
18 and that this amount deserves more than a simple document hand off. It's worthy of a face-to-
19 face meeting.
20

21 Resident Art Polishuk asked for clarification of what was under discussion. Marty said WEGO
22 is looking for an addendum to the existing labor contract with the Police Association which
23 expires at the end of 2013, and they also want the new 5-year agreement to include the indemnity
24 clause.
25

26 Senya asked Mr. Ruggieri if the motion on the floor should be amended to reflect that East
27 Goshen would like Thornbury to allow them another week to respond to their counter-offer. Mr.
28 Ruggieri said the contents of the motion is the call of the Supervisors; however, he would be
29 willing to look at any reasonable offer in writing.
30

31 Marty moved for the Board of Supervisors to meet the 2nd and 4th Tuesday of each month to
32 discuss police matters until such time as the situation is resolved. Carmen seconded the motion.
33

34 Chuck asked that the motion be clarified to indicate that police matters would be the only item
35 on the agenda for those meetings. Other matters, such as the Hershey Mill dam, would not be
36 discussed. Marty and Carmen accepted the amendment to the motion.
37

38 Resident Art Polishuk asked if public comment will be permitted at the meetings, and Senya said
39 certainly this is a monumental decision for the Township, and all input will be welcome. Senya
40 pointed out that for everyone, including Mr. Shane who has been a member of the Board of
41 Supervisors for 27 years and a member of the CCATO (Chester County Association of Township
42 Officials) Board, this will be one of the most important, if not the most important, decisions in
43 their local government service. As such, everyone's input will be invited, encouraged and
44 appreciated. Marty said this is an extraordinarily important matter that will significantly affect
45 the finances of the Township.
46

1 Thom said he was not comfortable having an open-ended roster of new meetings. Senya said it
2 will not take forever, just until the Township comes to some resolution about the police. Marty
3 said that because there is a critical timeline, it's unlikely the meetings will continue on for a long
4 time.

5
6 There was no further discussion or public comment on the motion about the additional meetings.
7 The Board voted unanimously to approve the motion. Senya encouraged everyone to come out
8 to the meetings and to invite their neighbors.

9
10 The Board then discussed which of the Supervisors would shepherd the process of gathering all
11 the research on the various options for police coverage. They decided to put the matter on the
12 agenda for the next meeting.

13
14 Carmen then moved to authorize the expenditure of approximately \$3,000 in postage to send a
15 letter to the residents about the police situation. Thom seconded the motion. There was no
16 discussion or public comment. The motion passed unanimously.

17
18 Marty said it might be prudent for the Township to hire a PR consultant, and asked that it also be
19 put on the agenda for discussion at the next meeting.

20
21 The Board then discussed their immediate next steps and whether to concentrate on getting the
22 addendum to the existing contract which expires at the end of 2013, or to concentrate on getting
23 a new 5-year agreement to include the indemnity clause. Senya, Thom and Chuck were in favor
24 of concentrating on the 5-year agreement, while Marty thought it more important to seize the
25 window of opportunity and seek the addendum for the current contract. (Carmen was out of the
26 room.) Marty said it's important to act fast before Thornbury decides to go with West Chester
27 for their police coverage.

28
29 There was no further discussion or public comment.

30
31 The Board then voted on the original motion made at the start of this discussion (restated below):

32
33 Chuck moved to draft a letter to the Police Commission supporting them in their
34 position to reject the Thornbury counter-offer. Thom seconded the motion.

35
36 The Board voted unanimously to approve the motion.

37
38 The Board then met for 10 minutes in Executive Session. When they came back they said they
39 had agreed to table the issue of sending a letter to the residents until after they can meet with
40 Westtown Township (hopefully on August 8).

41
42 **Vision Partnership Program (VPP) Grant**

43 Marty moved to authorize the Board Chairman to sign the VPP Grant application upon its
44 completion and to authorize the Township Manager to write a letter that confirms the funds are
45 available and budgeted for this Comprehensive Plan Update project. Thom seconded the motion.
46 There was no discussion or public comment. The motion passed unanimously.

1 **ABC Education Session**

2 The Supervisors agreed to table this matter until Thom, Chuck and Rick have more time to select
3 suitable dates for this event.
4

5 **Sewer Plant Operator**

6 Rick reported that the RFP sent out for a Sewer Plant Operator resulted in two bids as follows:
7

- 8 1. M&B Environmental – base monthly fee of \$6,650. They estimate spending 5 hours
9 per day 5 days per week and 2 hours on weekend days at the plant for a total of 29
10 hours per week. Their base fee is \$52.92/hour.
11
- 12 2. Big Fish Environmental - \$10,516/month. Their proposal calls for 6 hours per day 5
13 days per week and 3 hours per day on weekends for a total of 36 hours per week.
14 Their base fee is \$67.11/hour.
15

16 Carmen moved to accept the July 23 recommendation of Rick Smith and Mark Miller to accept
17 the revised proposal from Big Fish Environmental Services to operate the Ridley Creek Sewer
18 Plant in the amount of \$10,516 per month. Marty seconded the motion.
19

20 Thom expressed concern that Big Fish will cost more to operate the plant than M&B Environ-
21 mental. He would like more information about M&B and also wants the staff to check with Big
22 Fish to see if they'd be willing to lower their price.
23

24 Chuck said the Township cannot afford to get into trouble with DEP again. He would prefer to
25 stay with Big Fish, who have been successfully running the plant since February. Rick noted
26 that Scott from Big Fish does a fine job, and because of this he, Mark Miller, and the Public
27 Works crew do not have to spend nearly as much time fixing problems at the plant.
28

29 *Public Comment: Kathryn Yahraes, Vista Drive* – Said that Scott of Big Fish has been doing a
30 great job at the plant since February. Because the Township is comfortable with him and his
31 work, why change it now?
32

33 *Public Comment: Art Polishuk, Grand Oak Lane* – Said he agreed with Kathryn Yahraes.
34

35 There was no further discussion or public comment. The Board voted 4:1 and the motion passed.
36 (Thom was opposed.)
37

38 **Clymer's Woods**

39 Sandy Snyder from the Conservancy Board was present. The Conservancy Board has worked
40 with the Historical Commission on the name selection and proposes "Clymer's Woods" as the
41 name for the reforestation project in Applebrook at the corner of Line Road and Paoli Pike.
42 Sandy noted that George Clymer was a remarkable individual from the area who signed both the
43 Declaration of Independence and the Constitution.
44

45 Carmen moved to accept the recommendation from the Conservancy Board to designate the
46 reforestation project in Applebrook as "Clymer's Woods." The Board would like the

1 Conservancy Board and Historical Commission to work together to get appropriate signage for
2 the location. In addition to providing information about George Clymer, the signage should
3 indicate the nature and purpose of the reforestation project. Thom seconded the motion.

4
5 There was no further discussion and no public comment. The Board voted unanimously to
6 approve the motion.

7 8 **Amphitheatre**

9 The Board reviewed a memo from Mark Miller outlining how the Public Works Department
10 could build an amphitheatre in the Township Park with an out-of-pocket cost of approximately
11 \$1,700.

12
13 Carmen moved to authorize staff to proceed to build a grass amphitheatre in the Township Park
14 per the July 23 recommendation of Mark Miller. Chuck seconded the motion.

15
16 Carmen noted that any events held at the amphitheatre will require more police service which
17 will have to be added into the budget.

18
19 *Public Comment: Erich Meyer, Monte Vista Drive* - Said the amphitheatre will require some
20 maintenance (mowing) by the Township.

21
22 *Public Comment: John Jamgochian, Marydell Drive* - Said he thinks it's a great idea, and the
23 Township could have a snack bar to generate some revenue.

24
25 *Public Comment: Sandra Snyder, Summit House* - Said Miller Park in West Whiteland holds
26 concerts at their gazebo, and it's amazing what great sound the bands can generate from a small
27 venue.

28
29 *Public Comment: Kathryn Yahraes, Vista Drive* - Expressed concern about noise and lights
30 adversely affecting residents of Vista Farms. Does the Township really need an amphitheatre or
31 can it use someone else's venue to hold its events. Does the Township's infrastructure support
32 such a venue. Parking, restrooms, and the noise ordinance need to be considered. Also, does the
33 Park & Rec Commission need more on their plate at this time.

34
35 *Public Comment: Art Polishuk, Grand Oak Lane* - Said he agreed with Kathryn's comments.

36
37 There was no further discussion or public comment. The Board voted unanimously to approve
38 the motion.

39
40 Carmen said the Township should contact the residents for their input.

41 42 **Large Format Copier, Scanner, Printer**

43 The Board decided to table this matter pending more information from staff.
44
45
46

1 **Tractor Replacement**

2 Marty moved to authorize Mark Miller to purchase a John Deere tractor in the amount of
3 \$40,550 which includes the trade-in price for the 1972 tractor. There is \$50,000 in the budget for
4 the new vehicle. Chuck seconded the motion. There was no discussion or public comment. The
5 Board voted unanimously to approve the motion.
6

7 **Dump Truck Replacement**

8 Carmen moved to authorize Mark Miller to purchase a new dump truck in the amount of
9 \$130,965, minus the best trade-in or sale price that Mark is able to get for the old vehicle.
10 Money is available in the Capital Budget for the new vehicle. Chuck seconded the motion.
11 There was no discussion or public comment. The Board voted unanimously to approve the
12 motion.
13

14 **Ordinance Amendment – Maximum Height for a Wireless Communication Facility**

15 The Board reviewed a July 25 memo from Mark Gordon regarding the need to change the
16 Township ordinance for wireless communications facilities (WCF) to permit them to be the
17 industry standard height of 10 feet. The Township ordinance currently allows a maximum height
18 of only 8 feet. Carmen moved to authorize Township staff to proceed with preparing a revised
19 draft ordinance incorporating the change for the Board's review and eventually a public hearing.
20 Also, the Liberty Towers lease agreement will have to be changed. Chuck seconded the motion.
21

22 *Public Comment: Art Polishuk, Grand Oak Lane* – Expressed concern that Liberty Towers did
23 not notice the 2-foot height difference when they made their agreement with the Township to
24 locate their cell tower in East Goshen.
25

26 There was no further discussion or public comment. The Board voted unanimously to approve
27 the motion.
28

29 **Roof Replacement at the Plank House**

30 The Board reviewed an August 1 memo from Mark Miller regarding the need to replace the
31 Plank House roof as the current roof is leaking. For discussion purposes, Carmen moved to
32 accept Mark Miller's recommendation to have Springer Brothers replace the roof at an estimated
33 cost of \$5,400, not to exceed \$6,400. Chuck seconded the motion for discussion.
34

35 *Public Comment: Kathryn Yahraes (Historical Commission)* – Said the firm who replaces the
36 roof should have experience with historic buildings.
37

38 The Board discussed the special requirements of this job and agreed it should be put out to bid.
39

40 There was no further discussion or public comment. The Board voted 5:0 against the motion and
41 it did not pass.
42

43 Rick will have Mark Miller work with the Historical Commission on this matter and get bids for
44 the project. Senya suggested Kathryn try to get an experienced company to do the work on a *pro*
45 *bono* basis.
46

1 **Any Other Matter**

2 The Board reviewed a July 25 letter from resident Donna Stoop of Still Road requesting stop
3 signs be installed in her neighborhood.
4

5 **Review of Minutes**

6 The Board reviewed and corrected the draft minutes of July 17. Senya announced that the
7 minutes would stand approved as corrected.
8

9 **Treasurer's Report & Expenditure Register Report**

10 *See attached Treasurer's Report for August 2, 2012.*
11

12 The Board reviewed the Treasurer's Report and the current invoices. Thom moved to accept the
13 Treasurer's Report of August 2 and the Expenditure Register Report as recommended by the
14 Treasurer, to accept the receipts and to authorize payment of the invoices just reviewed. Chuck
15 seconded the motion. There was no further discussion or public comment. The Board voted
16 unanimously* to approve the motion.
17

18 *Thom abstained from voting on the June 1 purchase from Playset Junction due to a conflict of
19 interest.
20

21 **Action List**

22 TAG Action List – The Board reviewed the updated Action List.
23

24 **Correspondence & Reports of Interest**

25 Senya acknowledged receipt of the following:
26

- 27 • Copy of Aqua Pennsylvania's Public Water Supply Permit application to DEP for the
28 installation of a SolarBee tank mixer in Aqua's existing Milltown water storage tank.
- 29 • Copy of West Goshen Township's Sewer and Sewer Reserve Funds Financial Statements
30 for the period ended December 31, 2011.
- 31 • Letter from Keep Pennsylvania Beautiful regarding the results of their Chester County
32 Illegal Dump Survey.
- 33 • Warrant investigation from Orth-Rodgers & Associates regarding a traffic signal
34 investigation for the intersection of Airport Road and Wrights Lane. Orth-Rodgers has
35 concluded that a traffic signal is not warranted at this location at this time.
- 36 • Letter from RKW Engineering regarding the Ruddy property at 1410 Linden Lane.
- 37 • Letter from Comcast regarding a change to the channel lineup effective the week of
38 August 27.
- 39 • 2nd Quarter Remedial Action Progress Report by Environmental Alliance on behalf of
40 Sunoco for their site at 1425 Paoli Pike.
- 41 • Status Report from Mark Miller regarding the Lockwood closure. Thom asked that the
42 Board give Mark Miller special recognition for once again doing an excellent job, and
43 going above and beyond his job responsibilities to save the Township \$116,000 on this
44 project.
45
46

1 **Meetings & Dates of Importance**

2 Senya noted the upcoming meetings as listed in the agenda.

3
4 **Public Comment Period**

5 *Art Polishuk, Grand Oak Lane* – Suggested that the letter sent to residents regarding the Hershey
6 Mill Dam project status also be sent to the Hershey's Mill Master Association. Senya said the
7 Township is scheduled to meet with the master Association in early September, and will give
8 them an update at that time.

9
10 **Adjournment**

11 There being no further business, the meeting adjourned at 11:18pm.

12
13
14 Anne Meddings

15 Recording Secretary

16 *Attachment: Treasurer's Report*

August 2, 2012

TREASURER'S REPORT
2012 RECEIPTS AND BILLS

GENERAL FUND

Real Estate Tax	\$13,410.81
Earned Income Tax	\$89,212.04
Local Service Tax	\$5,868.30
Transfer Tax	\$43,267.98
General Fund Interest Earned	\$0.00
Total Other Revenue	\$49,317.26
Total Receipts:	<u>\$201,076.39</u>

STATE LIQUID FUELS FUND

Receipts	\$0.00
Interest Earned	<u>\$0.00</u>
Total State Liquid Fuels:	<u>\$0.00</u>

CAPITAL RESERVE

Interest Earned	<u>\$0.00</u>
-----------------	---------------

TRANSPORTATION FUND

Interest Earned	<u>\$0.00</u>
-----------------	---------------

SEWER OPERATING

Receipts	\$196,882.27
Interest Earned	<u>\$0.00</u>
Total Sewer:	<u>\$196,882.27</u>

REFUSE

Receipts	\$72,497.76
Interest Earned	<u>\$0.00</u>
Total Refuse:	<u>\$72,497.76</u>

SEWER CAPITAL RESERVE

Interest Earned	<u>\$52.04</u>
-----------------	----------------

Accounts Payable	286,085.48
Electronic Pmts:	
Health Insurance	\$45,481.13
Credit Card	\$2,047.68
Postage	\$2,000.00
Debt Service	\$19,601.93
Payroll	\$145,000.00
Total Expenditures:	<u>\$500,216.22</u>

(3 Weeks)

Expenditures:	<u>\$0.00</u>
---------------	---------------

Expenditures:	<u>\$0.00</u>
---------------	---------------

Expenditures:	<u>\$1,294.80</u>
---------------	-------------------

Accounts Payable	\$265,069.08
Debt Service	<u>\$30,022.00</u>
Total Expenditures:	<u>\$295,091.08</u>

Expenditures	<u>\$18,328.94</u>
--------------	--------------------

Expenditures	<u>\$15,460.00</u>
--------------	--------------------

15 a.

EAST GOSHEN TOWNSHIP ACTION LIST

New additions are in bold		21-Aug-12
#	Item	Date
PCZ 11-6	Sign Ordinance	21-Aug-12
PCZ 12-01	Comp Plan	21-Aug-12
PCZ 09-01	Telecom Registration and Reporting	21-Aug-12
DPW 07-02	Hershey's Mill Dam	4-Sep-12
ADM 10-22	TAG Action List	4-Sep-12
PCZ 12-3	Billboard Ordinance	4-Sep-12
ADM 11-13	Quarterly Report Municipal Authority Projects	16-Oct-12
FIN 11-05	Quarterly Financial Reports	16-Oct-12
DPW 08-02	Quarterly Report on I&I	16-Oct-12
ADM 09-04	Quarterly Review of Right to Know Requests	16-Oct-12
ADM 12-4	Light Fixtures ay Municipal Complex	13-Nov-12

EAST GOSHEN TOWNSHIP ACTION ITEM

Item:

Sign Ordinance

No:

PZC 11-6

List Date:

3/24/2011

Completed Date:

Description:

Review ordinance to consider effect of electronic signs

Date	Action
4/5/2011	PC is still reviewing
5/10/2011	PC is still reviewing
6/7/2011	PC is still reviewing
7/12/2011	PC is still reviewing
8/16/2011	PC is still reviewing
9/13/2011	PC is still reviewing
10/11/2011	PC is still reviewing
11/15/2011	PC is still reviewing
1/10/2012	PC is still reviewing
2/7/2012	PC is still reviewing
4/2/2012	PC is still
5/15/2012	Letter from PC on agenda. Board requestd additional info and some changes.
6/19/2012	Board to review revised ordinance
6/19/2012	Board to review revised ordinance and requested it be sent to CCPC for comments
8/21/2012	CCPC Comments received, Draft Ordinance on agenda

EAST GOSHEN TOWNSHIP ACTION ITEM

Item:

Comp Plan

No:

PCZ 12-1

List Date:

2/7/2011

Completed Date:

Description:

Update Com Plan

Date	Action
2/7/2012	Consider applying for Vission Partnership Grant. At 2/7 meeting BoS requested Staff develop RFP for Consultant
3/20/2012	Working on RFP
4/17/2012	Working on RFP
5/15/2012	RFP Issued
6/19/2012	Contracted with Brandywine Conservancy on 6/5
7/17/2012	Working on grant application which is due 8/15/12
8/21/2012	VP Grant Application submitted 8/15/12

TRAFFIC IMPACT STUDY

SMITH PROPERTY PLANNED APARTMENT DEVELOPMENT

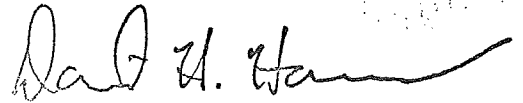
West Chester Pike (PA Route 3)

East Goshen Township
Chester County
Pennsylvania

Prepared by:

HORNER & CANTER ASSOCIATES
A Professional Corporation
4950 York Road, Suite 2C
P.O. Box 301
Holicong, Pennsylvania 18928-0301

July 26, 2012



David H. Horner, P.E., PTOE
Professional Engineer
PA Lic. No. PE-043105-E

File No. 12-033

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Figure 2	Existing AM Peak Hour Traffic Volumes
Figure 3	Existing PM Peak Hour Traffic Volumes
Figure 4	Existing Levels of Service
Figure 5	Site Trips
Figure 6	Future 2019 Build AM Peak Hour Traffic Volumes
Figure 7	Future 2019 Build PM Peak Hour Traffic Volumes
Figure 8	Future 2019 No-Build Levels of Service
Figure 9	Future 2019 Build Levels of Service

APPENDIX

INTRODUCTION

Horner & Canter Associates has prepared this Traffic Impact Study for the proposed planned apartment development of the Smith Property situated adjacent to the existing Goshen Meadows community along the north side of West Chester Pike (PA Route 3) in East Goshen Township, Chester County, Pennsylvania. The applicant is Goshen Meadows Investors, L.P. The property location is depicted in Figure 1.

The proposed development will comprise 65 apartment units. Access is to be provided via a driveway intersecting Mary Fran Drive, which serves the existing Goshen Meadows community. Mary Fran Drive intersects West Chester Pike at a signalized intersection opposite the Rose Hill apartments. There will be no direct vehicular access serving the site via West Chester Pike, although an emergency access is proposed.

The anticipated build-out year for the proposed development is 2014. The five-year-after-build-out horizon year, 2019, is evaluated in accordance with Pennsylvania Department of Transportation (PennDOT) traffic study guidelines.

The purpose of this Traffic Impact Study is to determine the traffic impact the proposed development will have on the surrounding roadway network. This study includes the following scope:

- A site inspection and inventory of existing roadway features such as geometric layout, lane configurations, traffic control devices, and other pertinent physical characteristics.
- Conduct of Manual Turning Movement (MTM) counts during the weekday AM (7:00 AM - 9:00 AM) and weekday PM (4:00 PM - 6:00 PM) peak periods at the study intersection of West Chester Pike/Mary Fran Drive/Rose Hill Drive.
- Analysis of existing traffic conditions at the study intersection.
- Projection of site-generated traffic volumes and distribution of this traffic to the study area.
- Establishment of future traffic volumes for the study horizon year (2019) including background traffic growth projections and the site-generated traffic.

- Analysis of future traffic conditions in 2019 at the study intersection.
- Formulation of conclusions with regard to the traffic impact of the proposed apartment development.

EXISTING CONDITIONS

The study area roadway network was inventoried with regard to the existing physical and operating characteristics as they affect traffic flow. The study area roadway network is described in further detail below.

West Chester Pike (PA Route 3) is a State highway which extends in an east/west direction from the City of Philadelphia to West Chester Borough. In the vicinity of the site, West Chester Pike provides two travel lanes in each direction and has a posted speed limit of 45 miles per hour. The nearest major intersection to the site is the intersection of West Chester Pike (PA Route 3)/Mary Fran Drive/Rose Hill Drive, controlled by a multi-phase traffic control signal. At this intersection, there are separate left-turn lanes on West Chester Pike in both directions, accommodating both left- and U-turns. A reduced-size copy of the Traffic Signal Permit Plan is provided in the Appendix on page A-1.

Existing Traffic Volumes

Since the peak hour traffic conditions reflect the critical periods for evaluation of operating conditions and traffic impact, existing traffic volumes were acquired at the study area intersection through the conduct of Manual Turning Movement (MTM) counts. Weekday peak hour counts were conducted on Thursday, May 17, 2012 during the weekday morning (7:00 AM - 9:00 AM) and the weekday afternoon (4:00 PM - 6:00 PM) peak periods. These count periods were selected to capture both the peak hours of adjacent street traffic, as well as the peak periods of site-generated traffic. The peak hour traffic count summaries are provided in the Appendix on pages A-2 and A-3.

The resultant existing peak hour traffic volumes are presented in Figures 2 and 3 for the weekday AM and weekday PM peak periods, respectively.

Existing Levels of Service

In order to determine the ability of the adjoining streets and intersections to accommodate the expansion-generated traffic, the Level of Service of these facilities is computed. Using the methodologies contained in the Highway Capacity Manual (HCM 2010). Level of Service (LOS) is a measure of the quality of the traffic flow and generally is expressed as follows:

Level of Service A - Excellent - Free flow
 B - Very Good - Minor adjustments in traffic flows
 C - Good - Stable flow of traffic
 D - Satisfactory flow - Occasional short periods with minor delays
 E - CAPACITY FLOW- Regular delays
 F - Forced Flow - Significant delays and queuing

At signalized intersections, LOS is based on the average delay to all motorists at the intersection. The volume-to-capacity (v/c) ratio represents the capacity sufficiency of the intersection and its individual movements based on its physical characteristics.

At unsignalized intersections, Level of Service is based on the average delay to controlled and yielding movements, such as exiting movements from a stop sign or the left-turn from a through street into a side street. The delay thresholds for various Levels of Service are located in the Appendix on pages A-4 and A-5.

The existing operating conditions within the study area were evaluated using the above-described methodology. The resultant Levels of Service for the study area intersection are presented in Figure 4. The detailed capacity analysis worksheets are contained in the Appendix on pages A-6 and A-9.

As shown in Figure 4, the study intersection of West Chester Pike/Mary Fran Drive/Rose Hill Drive currently operates at overall LOS C during both peak periods, with all individual movements operating at acceptable LOS D or better. This level of service is indicative of acceptable operating conditions at this intersection under existing conditions.

SITE TRAFFIC

The determination of the amount of site traffic that a proposed development will generate can best be made by comparison with similar sites. The Institute of Transportation Engineers (ITE) has compiled hundreds of trip generation studies and published the results in Trip Generation, 8th Edition¹, which is the national standard used for estimating site traffic generation rates for a variety of land uses.

For the proposed apartment development, ITE's Land Use Code 220 – Apartments was selected as the most appropriate. The ITE data was applied to the proposed 65 apartment units, yielding the projected site traffic volumes presented in Table 1. The detailed ITE calculation worksheet is provided in the Appendix on page A-10.

Table 1 Site Trips						
	AM Peak Hour			PM Peak Hour		
	In	Out	Total	In	Out	Total
Apartments (65 D.U.)	7	28	35	35	19	54

The site-generated traffic from Table 1 was distributed to the study area roadway network in a manner consistent with the existing traffic patterns. The distribution percentages by direction are presented below:

West Chester Pike	
to/from the east	40%
to/from the west	<u>60%</u>
	100%

The distributed site trips are presented in Figure 5 for both the AM and PM peak periods.

¹ *Trip Generation, 8th Edition*; Institute of Transportation Engineers, Washington, D.C.: 2008

FUTURE CONDITIONS

To assess the impact of the site-generated traffic volumes on the study area roadway network, the future traffic volumes in the five-year-after build-out horizon year (2019) were determined. To account for regional growth that is expected to occur during the intervening period, a background traffic growth rate was applied to the existing traffic volumes. Based on PennDOT's current projections for the area obtained from their Growth Factor Report February 2012 to July 2012, a 1.96 percent per year growth is appropriate for this area. Thus, a total 14.6 percent background growth was applied to the existing traffic volumes to represent the compounded background traffic growth to the year 2019.

The total Build 2019 traffic volumes, which consist of the existing traffic volumes factored upward to account for background traffic growth and the site-generated traffic volumes, are presented in Figures 6 and 7 for the AM and PM study peak periods, respectively.

Assessment

An assessment of the future 2019 No-Build (without development) and Build (with development) operating conditions within the study area was completed. The assessment included both a Level of Service (LOS) and queue analysis of the study intersection in order to determine if the projected traffic volumes can be acceptably accommodated at the intersection and if improvements are required to mitigate the site's traffic impact. The future LOS results are presented in Figures 8 and 9 for the No-Build and Build scenarios, respectively. The detailed capacity analysis worksheets are contained in the Appendix on pages A-11 through A-20.

As shown in Figure 8, the No-Build conditions at the study area intersection will remain essentially the same as existing conditions. The overall LOS will remain LOS C for both peak periods, with all movements continuing to operate at acceptable LOS D or better. With the addition of the site-generated traffic volumes, the Build LOS (Figure 9) will remain unchanged from the No-Build LOS. It is noted that the site-generated traffic will represent only between 1 and 1.5% of total traffic volumes at the off-site study intersection, an insignificant traffic volume contribution.

The warrants for a right-turn deceleration lane on WB West Chester Pike were reviewed under the future Build conditions. Based on the projected traffic volumes, a deceleration right-turn lane is not warranted.

The site access driveway will intersect Mary Fran Drive at a stop-controlled intersection. The intersection will operate at highly acceptable LOS A during both study peak periods.

Queue Analysis

A queue analysis was completed for the study intersection to evaluate the adequacy of the stacking lengths for the existing left-turn lanes at the intersection. The queue results are summarized in Table 2.

Table 2 Queue Analysis (95th percentile) Signalized Intersection of West Chester Pike (S.R. 0003)/Mary Fran Drive/Rose Hill Drive							
		AM Peak Hour			PM Peak Hour		
	Storage Length	Existing	No-Build	Build	Existing	No-Build	Build
West Chester Pike							
EB Left	75'	41'	47'	52'	74'	86'	115'
WB Left	110'	25'	27'	27'	117'	137'	137'
Mary Fran Drive							
SB Left	45'	18'	20'	36'	9'	11'	25'

The queue analysis as summarized in Table 2 indicates that the existing left-turn lanes have acceptable storage lengths to accommodate the AM peak hour traffic volumes under existing, No-Build, and Build conditions. During the PM peak hour, the WB left-turn lane storage length (110') is insufficient to accommodate the existing stacking. The EB left-turn lane storage will be exceeded in the No-Build conditions. The Mary Fran Drive left-turn lane is of acceptable length to accommodate the future Build queues.

In order to fully accommodate the 95% queues during the PM peak period, it is recommended that the EB left-turn lane be extended to 125' in length and the WB left-turn lane be extended to 150' in length. It appears that these geometric improvements can be accommodated through a cutting back of the existing median and will not involve any widening or realignment of West Chester Pike.

With the recommended left-turn lane improvements to accommodate the EB and WB queues, there are no recommended traffic signal timing modifications necessary to maintain acceptable LOS or stacking capacity under future Build conditions. If under post-development conditions the left-turn lane lengths are not sufficient to accommodate the peak hour queues, then signal timing modifications would be considered to provide more green-time to the movements that are deficient. Any timing modifications should also consider the adjacent signalized intersections along the West Chester Pike corridor to maintain a coordinated operation.

CONCLUSIONS

The conduct of this Traffic Impact Study for the proposed 65-unit apartment development in East Goshen Township, Chester County, has led to the following conclusions and recommendations:

1. The development will generate approximately 35 trips in the AM peak hour and 54 trips in the PM peak hour.
2. Access to the development will be provided via one driveway intersecting Mary Fran Drive which serves the existing Goshen Meadows community. There will be no regular vehicular access directly to West Chester Pike.
3. The intersection of West Chester Pike/Mary Fran Drive/Rose Hill Drive will operate at acceptable LOS C or D for all movements in Existing, No-Build, and Build conditions.
4. A deceleration right-turn lane on WB West Chester Pike is not warranted based on the projected traffic volumes.
5. The site access intersection with Mary Fran Drive will operate at highly acceptable LOS A during the peak periods.
6. The proposed development traffic will represent between 1 and 1.5% of the total traffic volumes at the study area intersection, considered to be an insignificant traffic volume contribution.
7. The queue analysis at the signalized intersection indicates that the left-turn lanes on West Chester Pike in both directions are of insufficient length to accommodate the 95% queues during the PM peak period under No-Build or Build conditions. It is recommended to cut-back the existing median to lengthen the EB left-turn lane to 125' and the WB left-turn lane to 150'.

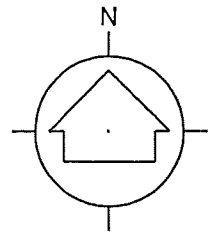


FIGURE 1
SITE LOCATION MAP

SMITH PROPERTY

PROPOSED PLANNED APARTMENT DEVELOPMENT

EAST GOSHEN TOWNSHIP, CHESTER COUNTY, PA

12-033
JUNE 2012

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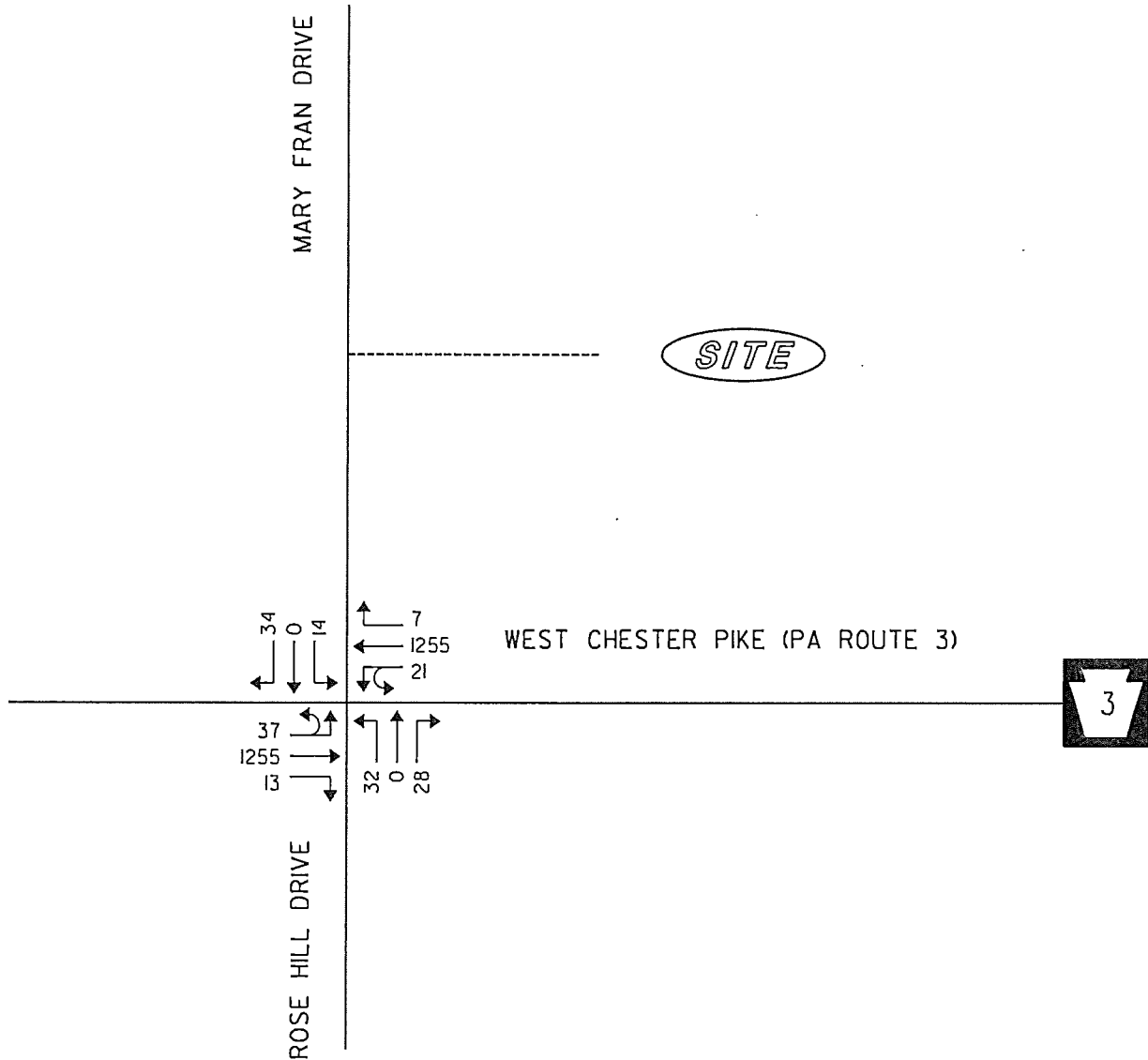
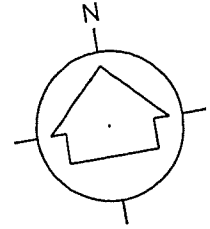


FIGURE 2
EXISTING AM PEAK HOUR TRAFFIC VOLUMES

SMITH PROPERTY
PROPOSED PLANNED APARTMENT DEVELOPMENT

EAST GOSHEN TOWNSHIP, CHESTER COUNTY, PA

12-033
JUNE 2012

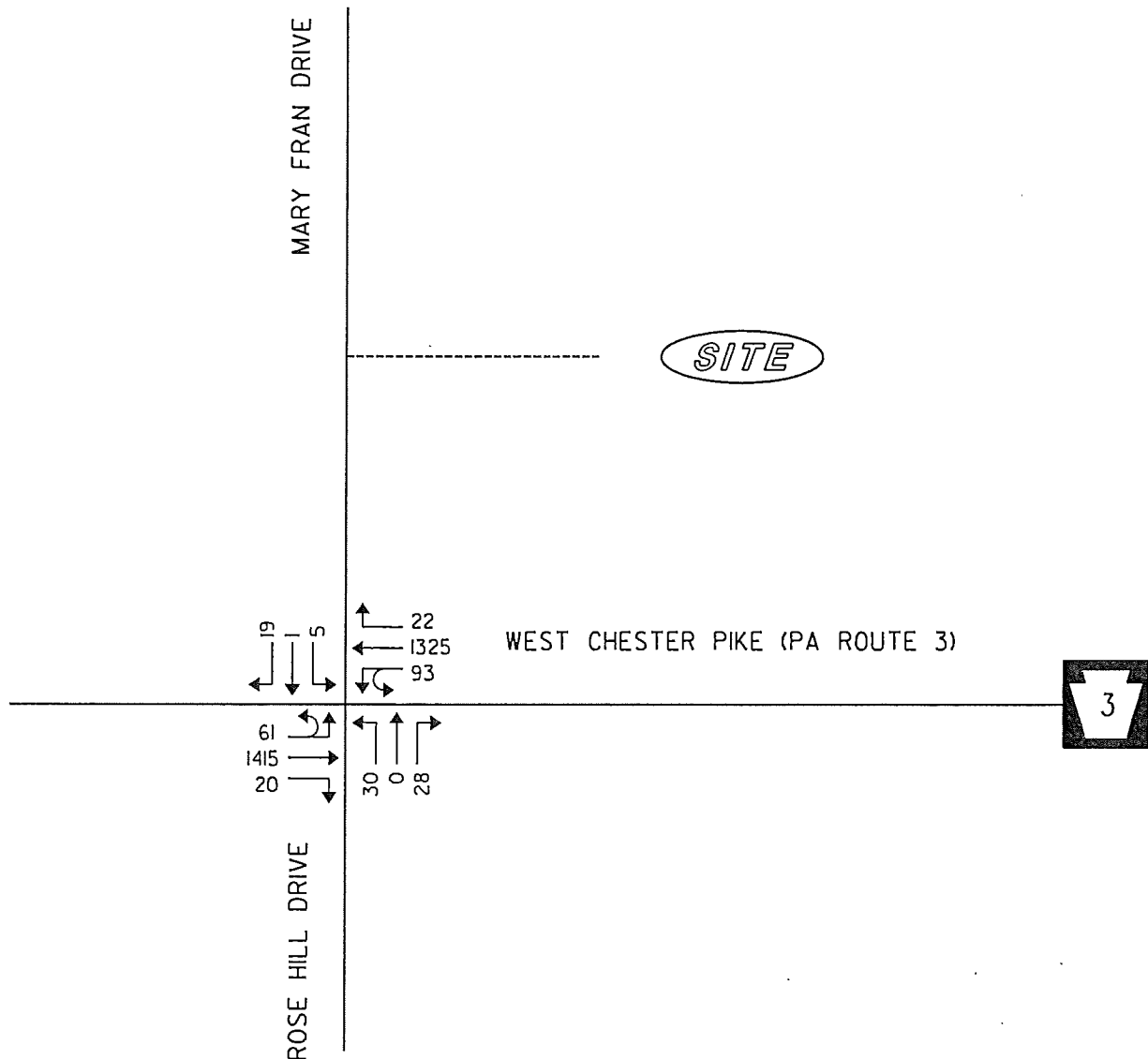
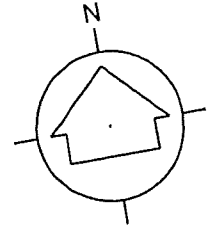
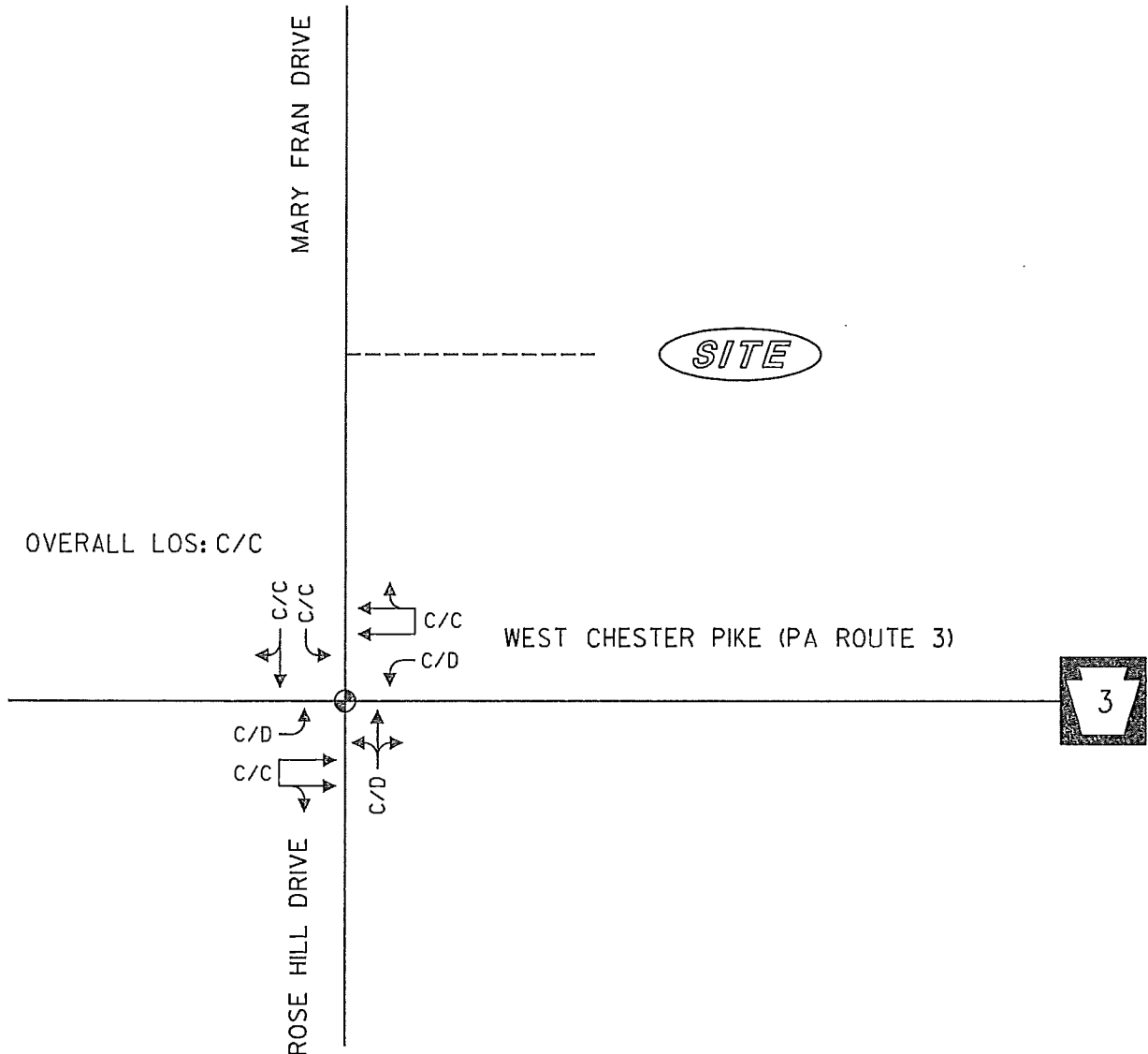
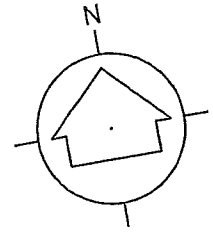


FIGURE 3
EXISTING PM PEAK HOUR TRAFFIC VOLUMES

SMITH PROPERTY
PROPOSED PLANNED APARTMENT DEVELOPMENT

EAST GOSHEN TOWNSHIP, CHESTER COUNTY, PA

12-033
JUNE 2012



LEGEND:

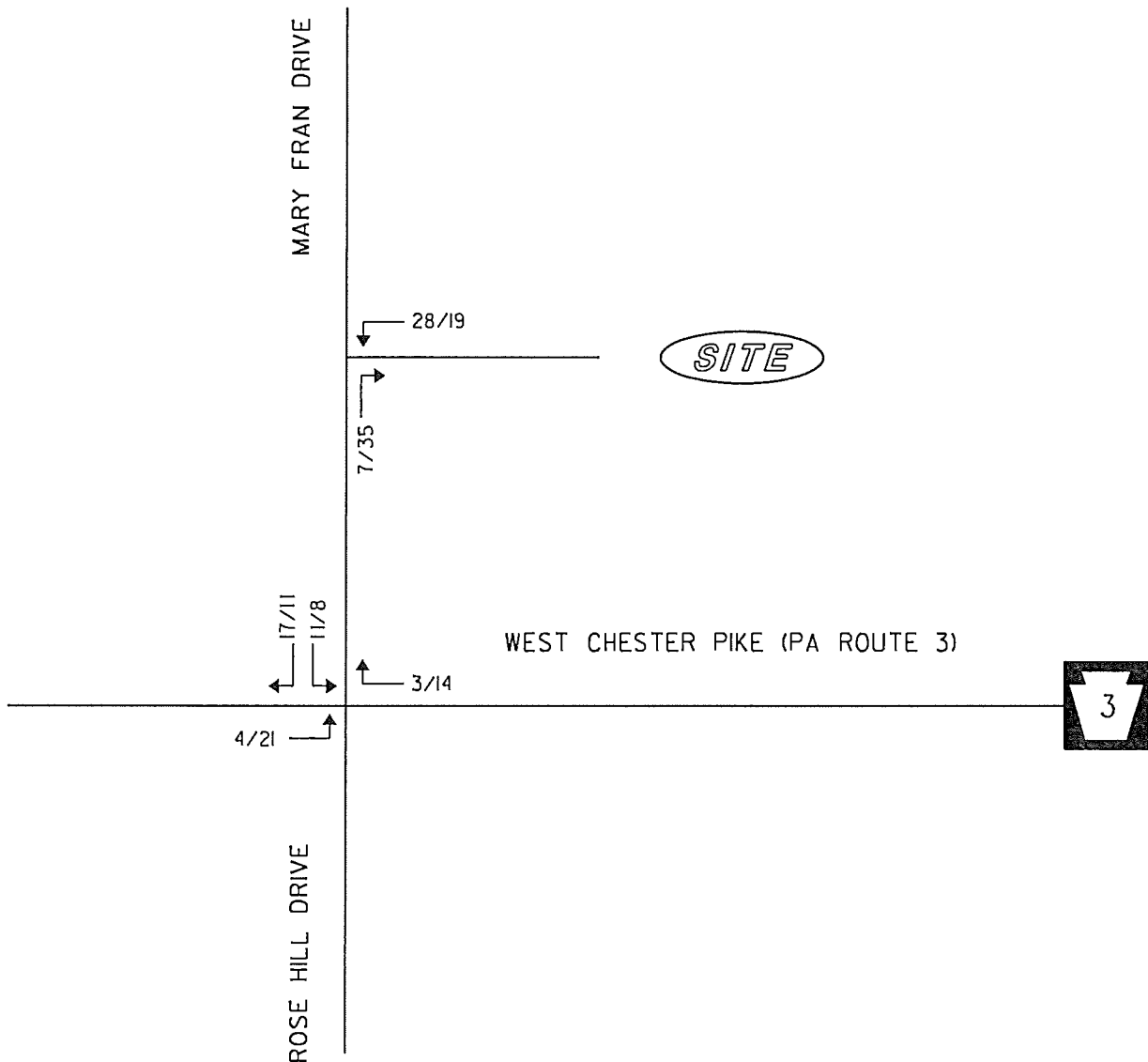
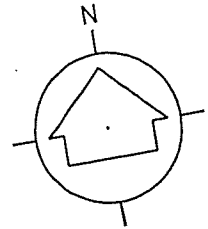
- ← AM/PM PEAK HOURS
- ⊕ TRAFFIC SIGNAL

FIGURE 4
EXISTING LEVELS OF SERVICE

SMITH PROPERTY
PROPOSED PLANNED APARTMENT DEVELOPMENT

EAST GOSHEN TOWNSHIP, CHESTER COUNTY, PA

12-033
JUNE 2012



LEGEND:

← AM/PM PEAK HOURS

FIGURE 5
SITE TRIPS

12-033
JUNE 2012

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SMITH PROPERTY
PROPOSED PLANNED APARTMENT DEVELOPMENT
EAST GOSHEN TOWNSHIP, CHESTER COUNTY, PA

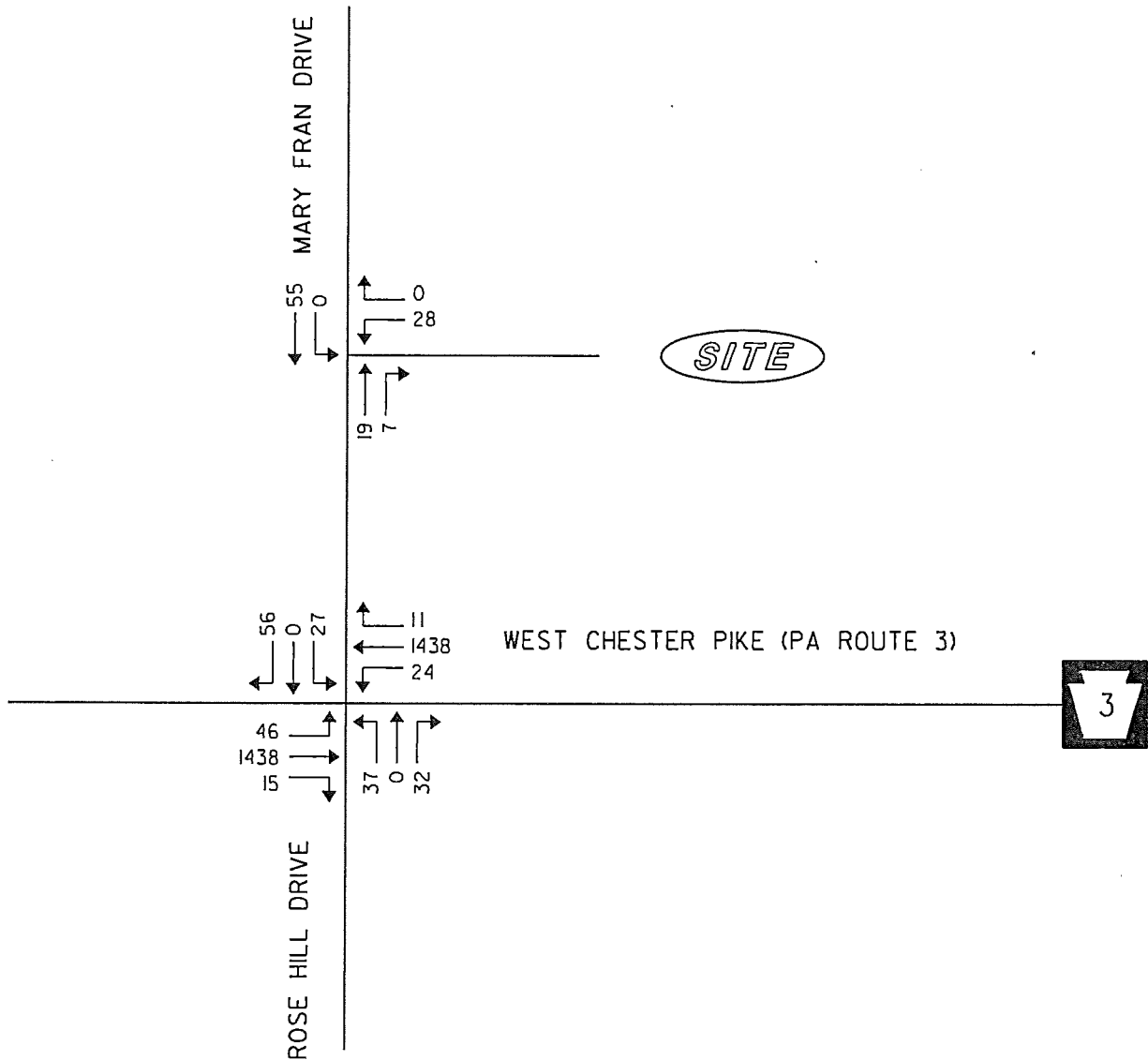
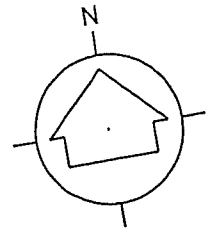


FIGURE 6
FUTURE 2019 BUILD AM PEAK HOUR TRAFFIC VOLUMES

SMITH PROPERTY
PROPOSED PLANNED APARTMENT DEVELOPMENT
EAST GOSHEN TOWNSHIP, CHESTER COUNTY, PA

12-033
JUNE 2012

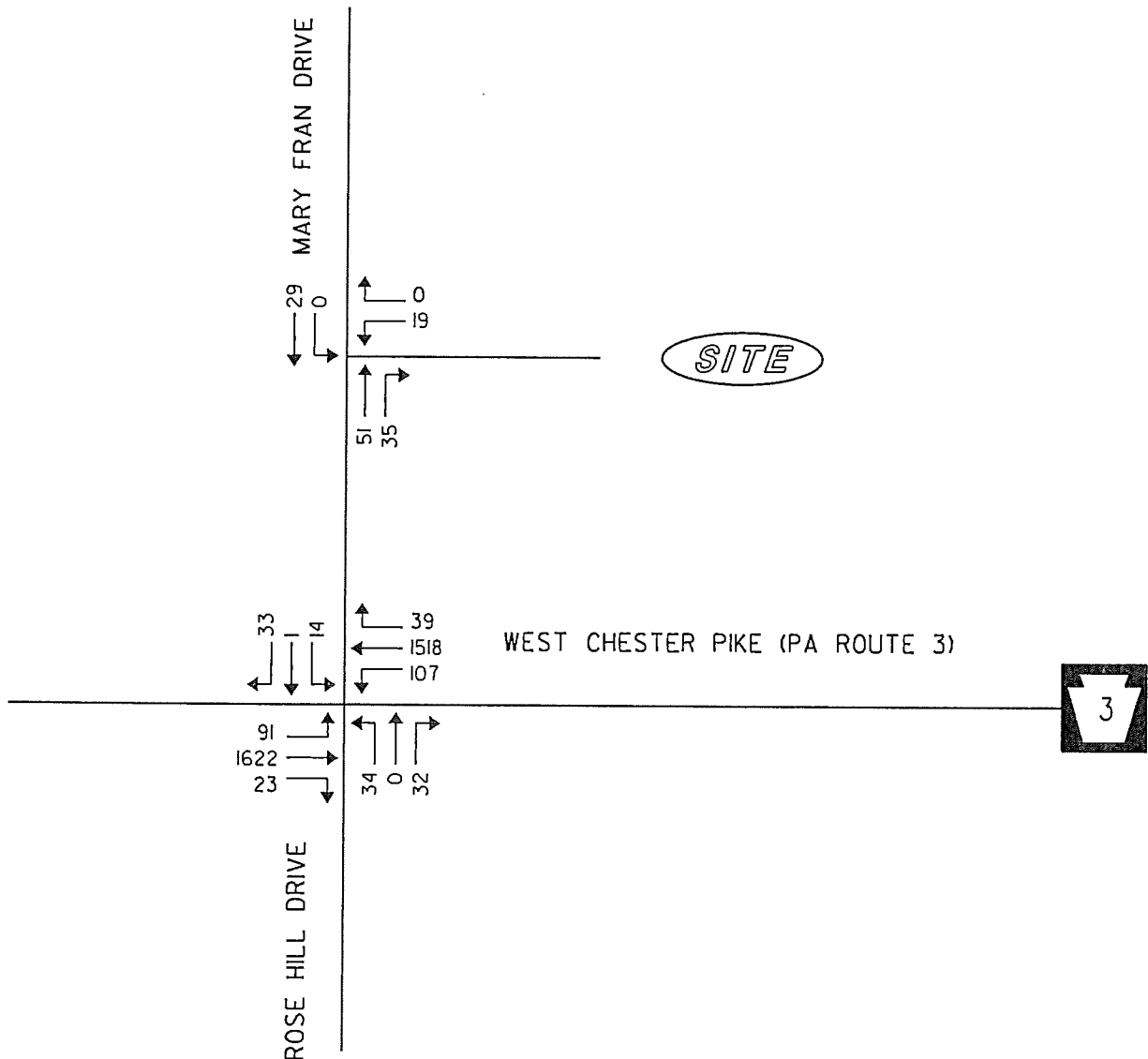
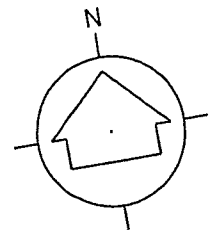


FIGURE 7
FUTURE 2019 BUILD PM PEAK HOUR TRAFFIC VOLUMES

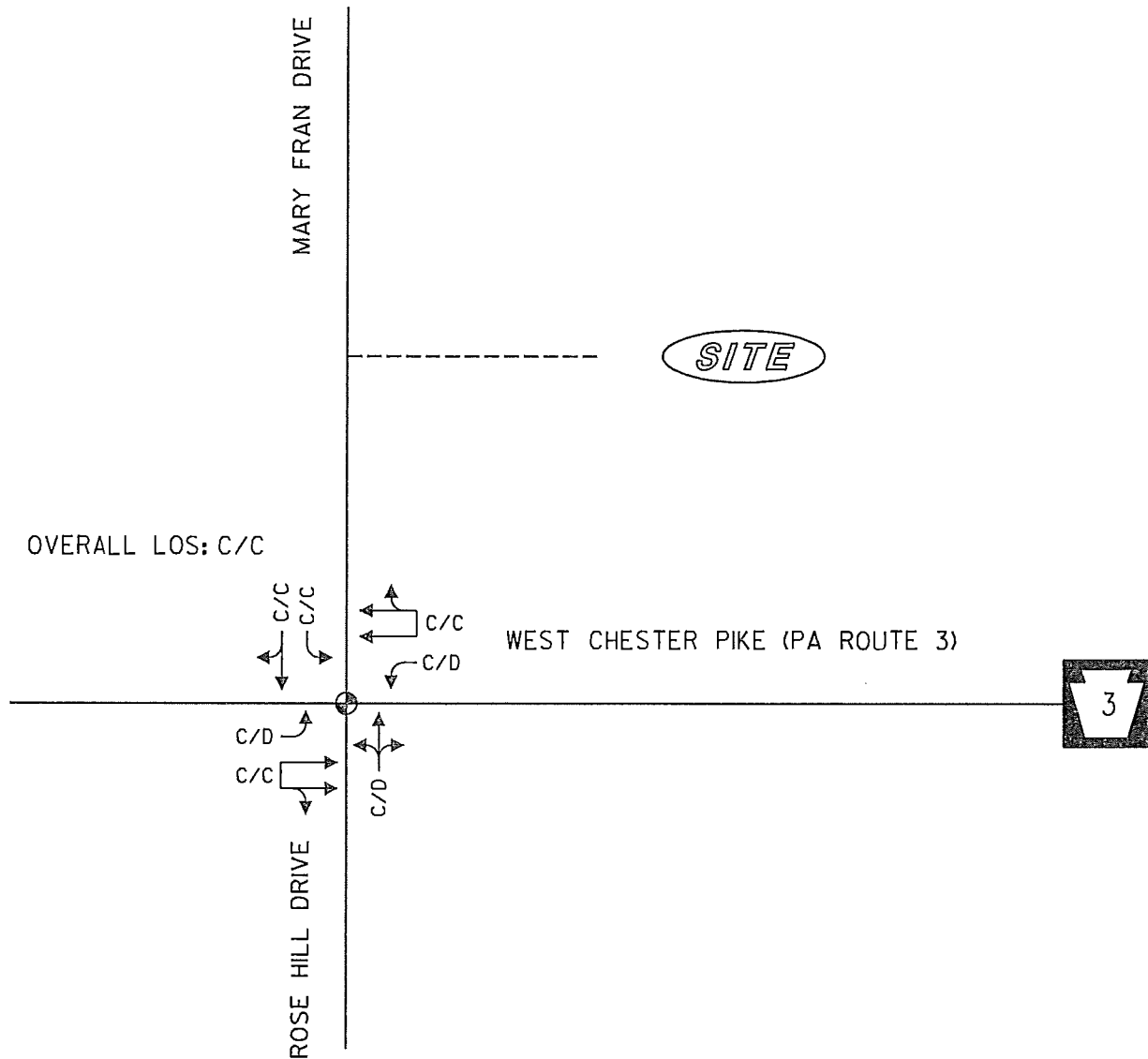
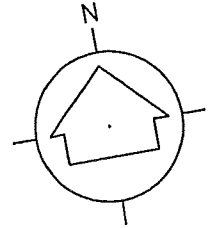
SMITH PROPERTY
PROPOSED PLANNED APARTMENT DEVELOPMENT

EAST GOSHEN TOWNSHIP, CHESTER COUNTY, PA

12-033
JUNE 2012

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LEGEND:

- ← AM/PM PEAK HOURS
- ⊕ TRAFFIC SIGNAL

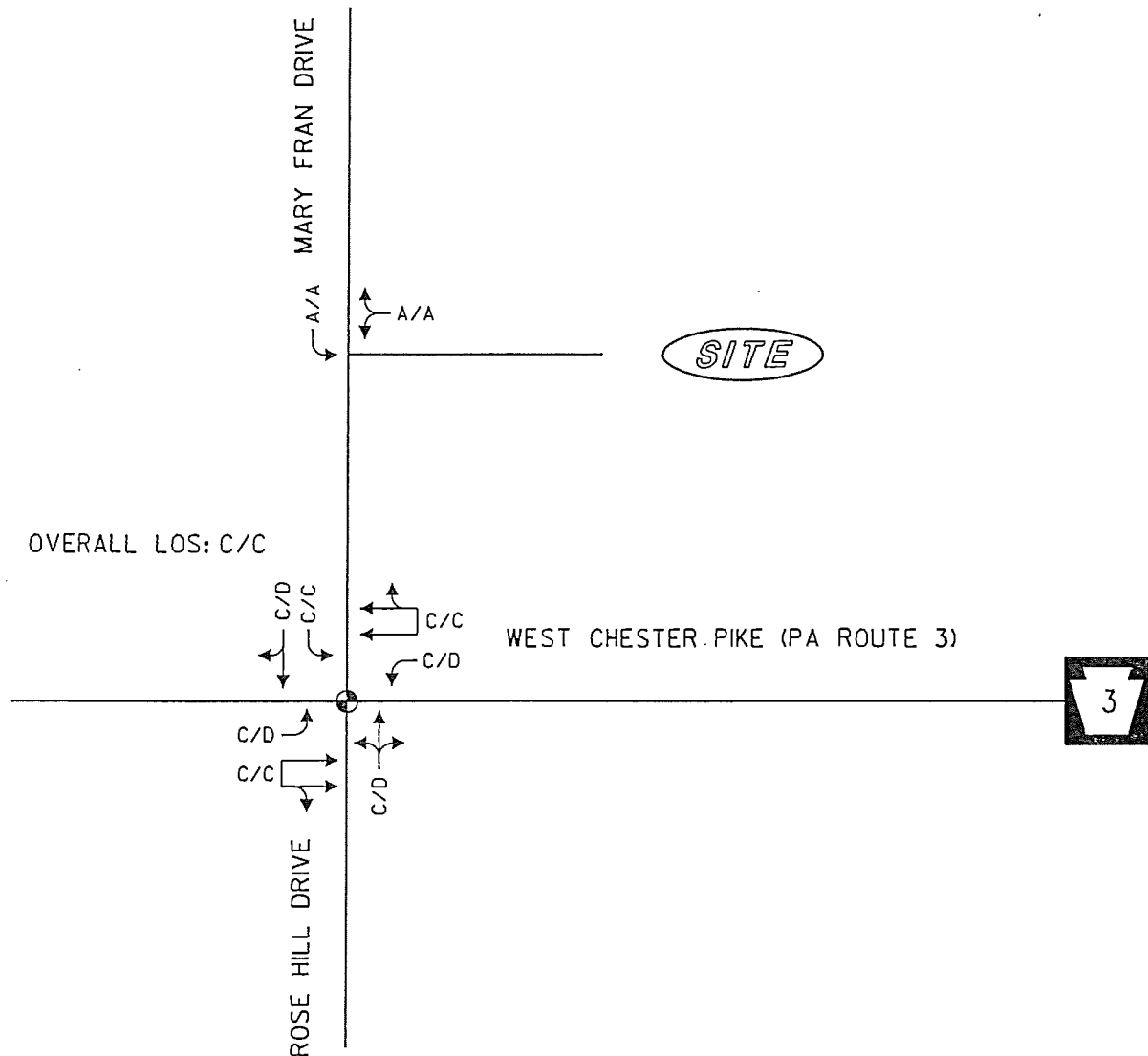
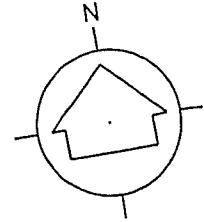
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JUNE 2012

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FIGURE 8
FUTURE 2019 NO-BUILD LEVELS OF SERVICE

SMITH PROPERTY
PROPOSED PLANNED APARTMENT DEVELOPMENT

EAST GOSHEN TOWNSHIP, CHESTER COUNTY, PA



LEGEND:

- ← AM/PM PEAK HOURS
- TRAFFIC SIGNAL

FIGURE 9
FUTURE 2019 BUILD LEVELS OF SERVICE

SMITH PROPERTY
PROPOSED PLANNED APARTMENT DEVELOPMENT

EAST GOSHEN TOWNSHIP, CHESTER COUNTY, PA

12-033
JUNE 2012

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APPENDIX

Horner & Canter Associates
Transportation and Traffic Engineering
 105 Atsion Road - Suite H
 Medford, NJ 08055

NB/SB: Mary Fran Drive/Access
 EB/WB: West Chester Pike (PA -3)
 East Goshen Twp/Chester Co/PA
 Thur/Clear/NKK/E-08

File Name : 12-033-001
 Site Code : 12003001
 Start Date : 5/17/2012
 Page No : 1

Groups Printed- All Vehicles

Start Time	Mary Fran Drive Southbound			West Chester Pike (PA-3) Westbound				Access Northbound			West Chester Pike (PA-3) Eastbound				Int. Total
	Left	Thru	Right	Left	Thru	Right	U-Turns	Left	Thru	Right	Left	Thru	Right	U-Turns	
07:00 AM	3	0	10	0	263	0	3	12	0	2	3	271	0	5	572
07:15 AM	3	0	12	1	278	2	2	15	0	5	4	295	0	3	620
07:30 AM	5	0	9	0	302	1	4	6	0	6	4	315	1	2	655
07:45 AM	4	0	12	2	319	0	2	11	0	7	4	308	0	5	674
Total	15	0	43	3	1162	3	11	44	0	20	15	1189	1	15	2521
08:00 AM	4	0	5	1	359	0	6	10	0	6	2	306	1	8	708
08:15 AM	4	0	11	0	300	6	2	6	0	6	1	301	9	5	651
08:30 AM	2	0	6	2	277	1	6	5	0	9	3	340	3	9	663
08:45 AM	1	0	5	2	252	1	10	8	0	3	2	289	2	7	582
Total	11	0	27	5	1188	8	24	29	0	24	8	1236	15	29	2604
*** BREAK ***															
04:00 PM	1	0	2	5	295	3	18	14	0	3	4	310	4	6	665
04:15 PM	0	0	4	9	282	5	13	4	0	4	11	319	2	2	655
04:30 PM	0	0	4	2	318	3	15	3	0	2	4	322	9	7	689
04:45 PM	0	0	4	4	295	6	18	11	0	7	6	346	7	10	714
Total	1	0	14	20	1190	17	64	32	0	16	25	1297	22	25	2723
05:00 PM	1	0	5	5	347	6	19	4	0	5	6	355	4	10	767
05:15 PM	2	0	3	10	327	7	14	5	0	4	5	369	7	12	765
05:30 PM	2	1	7	5	356	3	18	10	0	12	6	345	2	6	773
05:45 PM	3	0	6	4	350	3	13	8	0	4	7	288	10	6	702
Total	8	1	21	24	1380	19	64	27	0	25	24	1357	23	34	3007
Grand Total	35	1	105	52	4920	47	163	132	0	85	72	5079	61	103	10855
Apprch %	24.8	0.7	74.5	1	94.9	0.9	3.1	60.8	0	39.2	1.4	95.6	1.1	1.9	
Total %	0.3	0	1	0.5	45.3	0.4	1.5	1.2	0	0.8	0.7	46.8	0.6	0.9	

Horner & Canter Associates
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File Name : 12-033-001
 Site Code : 12003001
 Start Date : 5/17/2012
 Page No : 2

	Mary Fran Drive Southbound				West Chester Pike (PA-3) Westbound					Access Northbound				West Chester Pike (PA-3) Eastbound					
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	U-Turns	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	U-Turns	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1																			
Peak Hour for Entire Intersection Begins at 07:45 AM																			
07:45 AM	4	0	12	16	2	319	0	2	323	11	0	7	18	4	308	0	5	317	674
08:00 AM	4	0	5	9	1	359	0	6	366	10	0	6	16	2	306	1	8	317	708
08:15 AM	4	0	11	15	0	300	6	2	308	6	0	6	12	1	301	9	5	316	651
08:30 AM	2	0	6	8	2	277	1	6	286	5	0	9	14	3	340	3	9	355	663
Total Volume	14	0	34	48	5	1255	7	16	1283	32	0	28	60	10	1255	13	27	1305	2696
% App. Total																			
PHF	.875	.000	.708	.750	.625	.874	.292	.667	.876	.727	.000	.778	.833	.625	.923	.361	.750	.919	.952

Peak Hour Analysis From 12:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 04:45 PM

04:45 PM	0	0	4	4	4	295	6	18	323	11	0	7	18	6	346	7	10	369	714
05:00 PM	1	0	5	6	5	347	6	19	377	4	0	5	9	6	355	4	10	375	767
05:15 PM	2	0	3	5	10	327	7	14	358	5	0	4	9	5	369	7	12	393	765
05:30 PM	2	1	7	10	5	356	3	18	382	10	0	12	22	6	345	2	6	359	773
Total Volume	5	1	19	25	24	1325	22	69	1440	30	0	28	58	23	1415	20	38	1496	3019
% App. Total																			
PHF	.625	.250	.679	.625	.600	.930	.786	.908	.942	.682	.000	.583	.659	.958	.959	.714	.792	.952	.976

Level of Service Criteria

Level of Service at intersections is defined in terms of DELAY. Delay is a measure of driver discomfort, frustration, and lost travel time, thus the rating of delay from highly acceptable LOS A to unacceptable LOS F.

At traffic signals, delay is a complex measure and is dependent on a number of variables including signal progression, the cycle length, the green-time ratio, clearance times, trucks, pedestrians, parking, and signal phasing.

At unsignalized intersections, delay is dependent on the available gaps in the two-way flow of the uninterrupted traffic movement, intersection width, and queuing.

Intersection LOS

	<u>Signalized</u>	<u>Unsignalized</u>
LOS A	Less than 10.0 sec/veh	Less than 10.0 sec/veh
B	10.0 to 20.0 sec/veh	10.0 to 15.0 sec/veh
C	20.0 to 35.0 sec/veh	15.0 to 25.0 sec/veh
D	35.0 to 55.0 sec/veh	25.0 to 35.0 sec/veh
E	55.0 to 80.0 sec/veh	35.0 to 50.0 sec/veh
F	Greater than 80.0 sec/veh	Greater than 50.0 sec/veh

LEVEL OF SERVICE FOR SIGNALIZED INTERSECTIONS

Level of service for signalized intersections is defined in terms of delay. Delay is a measure of driver discomfort, frustration, fuel consumption, and lost travel time.

- **LEVEL-OF-SERVICE A** describes operations with very low delay, i.e., less than 10.0 sec per vehicle. This occurs when progression is extremely favorable, and most vehicles arrive during the green phase. Most vehicles do not stop at all. Short cycle lengths may also contribute to low delay.
- **LEVEL-OF-SERVICE B** describes operations with delay in the range of 10.0 to 20.0 sec per vehicle. This generally occurs with good progression and/or short cycle lengths. More vehicles stop than for LOS A, causing higher levels of average delay.
- **LEVEL-OF-SERVICE C** describes operations with delay in the range of 20.0 to 35.0 sec per vehicle. These higher delays may result from fair progression and/or longer cycle lengths. Individual cycle failures may begin to appear in this level. The number of vehicles stopping is significant at this level, although many still pass through the intersection without stopping.
- **LEVEL-OF-SERVICE D** describes operations with delay in the range of 35.0 to 55.0 sec per vehicle. At level D, the influence of congestion becomes more noticeable. Longer delays may result from some combination of unfavorable progression, long cycle lengths, or high v/c ratios. Many vehicles stop, and the proportion of vehicles not stopping declines. Individual cycle failures are noticeable.
- **LEVEL-OF-SERVICE E** describes operations with delay in the range of 55.0 to 80.0 sec per vehicle. This is considered to be the limit of acceptable delay. These high delay values generally indicate poor progression, long cycle lengths, and high v/c ratios. Individual cycle failures are frequent occurrences.
- **LEVEL-OF-SERVICE F** describes operations with delay in excess of 80.0 sec per vehicle. This is considered to be unacceptable to most drivers. This condition often occurs with over saturation, i.e., when arrival flow rates exceed the capacity of the intersection. It may also occur at high v/c ratios below 1.00 with many individual cycle failures. Poor progression and long cycle lengths may also be major contributing causes to such delay levels.

SHORT REPORT												
General Information						Site Information						
Analyst <i>HAK</i>						Intersection <i>W Chester Pk/Mary</i>						
Agency or Co. <i>Horner & Canter Associates</i>						Fran/Rose						
Date Performed <i>6/11/2012</i>						Area Type <i>All other areas</i>						
Time Period <i>AM Peak Hour</i>						Jurisdiction <i>Goshen TWP</i>						
						Analysis Year <i>Existing</i>						
Volume and Timing Input												
	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Number of Lanes	1	2	0	1	2	0	0	1	0	1	1	0
Lane Group	L	TR		L	TR			LTR		L	TR	
Volume (vph)	37	1255	13	21	1255	7	32	0	28	14	0	34
% Heavy Vehicles	2	2	2	2	2	2	2	2	2	2	2	2
PHF	0.92	0.92	0.92	0.88	0.88	0.88	0.83	0.83	0.83	0.75	0.75	0.75
Pretimed/Actuated (P/A)	A	P	P	A	P	P	A	A	A	A	A	A
Startup Lost Time	2.0	2.0		2.0	2.0			2.0		2.0	2.0	
Extension of Effective Green	2.0	2.0		2.0	2.0			2.0		2.0	2.0	
Arrival Type	3	3		3	3			3		3	3	
Unit Extension	3.0	3.0		3.0	3.0			3.0		3.0	3.0	
Ped/Bike/RTOR Volume	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width	12.0	12.0		12.0	12.0			12.0		12.0	12.0	
Parking/Grade/Parking	N	0	N	N	0	N	N	0	N	N	0	N
Parking/Hour												
Bus Stops/Hour	0	0		0	0			0		0	0	
Minimum Pedestrian Time		3.2			3.2			3.2			3.2	
Phasing	Excl. Left	Thru & RT	03	04	NS Perm	06	07	08				
Timing	G = 8.0	G = 39.0	G =	G =	G = 12.0	G =	G =	G =				
	Y = 7	Y = 7	Y =	Y =	Y = 7	Y =	Y =	Y =				
Duration of Analysis (hrs) = 0.25						Cycle Length C = 80.0						
Lane Group Capacity, Control Delay, and LOS Determination												
	EB			WB			NB			SB		
Adjusted Flow Rate	40	1378		24	1434			73		19	45	
Lane Group Capacity	177	1726		177	1728			212		198	237	
v/c Ratio	0.23	0.80		0.14	0.83			0.34		0.10	0.19	
Green Ratio	0.10	0.49		0.10	0.49			0.15		0.15	0.15	
Uniform Delay d ₁	33.1	17.2		32.8	17.6			30.5		29.3	29.7	
Delay Factor k	0.11	0.50		0.11	0.50			0.11		0.11	0.11	
Incremental Delay d ₂	0.7	4.0		0.4	4.8			1.0		0.2	0.4	
PF Factor	1.000	1.000		1.000	1.000			1.000		1.000	1.000	
Control Delay	33.8	21.2		33.2	22.4			31.5		29.5	30.1	
Lane Group LOS	C	C		C	C			C		C	C	
Approach Delay	21.5			22.6			31.5			30.0		
Approach LOS	C			C			C			C		
Intersection Delay	22.5			Intersection LOS						C		

BACK-OF-QUEUE WORKSHEET												
General Information												
Project Description 12-033 Smith Property												
Average Back of Queue												
	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Lane Group	L	TR		L	TR			LTR		L	TR	
Initial Queue/Lane	0.0	0.0		0.0	0.0			0.0		0.0	0.0	
Flow Rate/Lane Group	40	1378		24	1434			73		19	45	
Satflow/Lane	1770	1859		1770	1861			1412		1322	1583	
Capacity/Lane Group	177	1726		177	1728			212		198	237	
Flow Ratio	0.0	0.4		0.0	0.4			0.1		0.0	0.0	
v/c Ratio	0.23	0.80		0.14	0.83			0.34		0.10	0.19	
I Factor	1.000	1.000		1.000	1.000			1.000		1.000	1.000	
Arrival Type	3	3		3	3			3		3	3	
Platoon Ratio	1.00	1.00		1.00	1.00			1.00		1.00	1.00	
PF Factor	1.00	1.00		1.00	1.00			1.00		1.00	1.00	
Q1	0.8	13.5		0.5	14.4			1.5		0.4	0.9	
kB	0.2	1.0		0.2	1.0			0.3		0.2	0.3	
Q2	0.1	3.4		0.0	4.0			0.1		0.0	0.1	
Q Average	0.9	16.9		0.5	18.4			1.6		0.4	0.9	
Percentile Back of Queue (95th percentile)												
fB%	2.1	1.6		2.1	1.6			2.0		2.1	2.1	
Back of Queue	1.8	27.5		1.1	29.9			3.3		0.8	1.9	
Queue Storage Ratio												
Queue Spacing	25.0	25.0		25.0	25.0			25.0		25.0	25.0	
Queue Storage	0	0		0	0			0		0	0	
Average Queue Storage Ratio												
95% Queue Storage Ratio												

SHORT REPORT												
General Information						Site Information						
Analyst <i>HAK</i> Agency or Co. <i>Horner & Canter Associates</i> Date Performed <i>6/11/2012</i> Time Period <i>PM Peak Hour</i>						Intersection <i>W Chester Pk/Mary Fran/Rose</i> Area Type <i>All other areas</i> Jurisdiction <i>Goshen TWP</i> Analysis Year <i>Existing</i>						
Volume and Timing Input												
	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Number of Lanes	1	2	0	1	2	0	0	1	0	1	1	0
Lane Group	L	TR		L	TR			LTR		L	TR	
Volume (vph)	61	1415	20	93	1325	22	30	0	28	5	1	19
% Heavy Vehicles	2	2	2	2	2	2	2	2	2	2	2	2
PHF	0.95	0.95	0.95	0.94	0.94	0.94	0.66	0.66	0.66	0.63	0.63	0.63
Pretimed/Actuated (P/A)	A	P	P	A	P	P	A	A	A	A	A	A
Startup Lost Time	2.0	2.0		2.0	2.0			2.0		2.0	2.0	
Extension of Effective Green	2.0	2.0		2.0	2.0			2.0		2.0	2.0	
Arrival Type	3	3		3	3			3		3	3	
Unit Extension	3.0	3.0		3.0	3.0			3.0		3.0	3.0	
Ped/Bike/RTOR Volume	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width	12.0	12.0		12.0	12.0			12.0		12.0	12.0	
Parking/Grade/Parking	N	0	N	N	0	N	N	0	N	N	0	N
Parking/Hour												
Bus Stops/Hour	0	0		0	0			0		0	0	
Minimum Pedestrian Time		3.2			3.2			3.2			3.2	
Phasing	Excl. Left	Thru & RT	03	04	NS Perm	06	07	08				
Timing	G = 10.0	G = 47.0	G =	G =	G = 12.0	G =	G =	G =				
	Y = 7	Y = 7	Y =	Y =	Y = 7	Y =	Y =	Y =				
Duration of Analysis (hrs) = 0.25						Cycle Length C = 90.0						
Lane Group Capacity, Control Delay, and LOS Determination												
	EB			WB			NB			SB		
Adjusted Flow Rate	64	1510		99	1433			87		8	32	
Lane Group Capacity	197	1848		197	1848			191		178	213	
v/c Ratio	0.32	0.82		0.50	0.78			0.46		0.04	0.15	
Green Ratio	0.11	0.52		0.11	0.52			0.13		0.13	0.13	
Uniform Delay d ₁	36.9	17.9		37.7	17.3			36.0		34.0	34.5	
Delay Factor k	0.11	0.50		0.11	0.50			0.11		0.11	0.11	
Incremental Delay d ₂	1.0	4.1		2.0	3.3			1.7		0.1	0.3	
PF Factor	1.000	1.000		1.000	1.000			1.000		1.000	1.000	
Control Delay	37.9	22.1		39.7	20.5			37.7		34.1	34.8	
Lane Group LOS	D	C		D	C			D		C	C	
Approach Delay	22.7			21.8			37.7			34.7		
Approach LOS	C			C			D			C		
Intersection Delay	22.8			Intersection LOS						C		

BACK-OF-QUEUE WORKSHEET												
General Information												
Project Description 12-033 Smith Property												
Average Back of Queue												
	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Lane Group	L	TR		L	TR			LTR		L	TR	
Initial Queue/Lane	0.0	0.0		0.0	0.0			0.0		0.0	0.0	
Flow Rate/Lane Group	64	1510		99	1433			87		8	32	
Satflow/Lane	1770	1858		1770	1858			1429		1336	1601	
Capacity/Lane Group	197	1848		197	1848			191		178	213	
Flow Ratio	0.0	0.4		0.1	0.4			0.1		0.0	0.0	
v/c Ratio	0.32	0.82		0.50	0.78			0.46		0.04	0.15	
I Factor	1.000	1.000		1.000	1.000			1.000		1.000	1.000	
Arrival Type	3	3		3	3			3		3	3	
Platoon Ratio	1.00	1.00		1.00	1.00			1.00		1.00	1.00	
PF Factor	1.00	1.00		1.00	1.00			1.00		1.00	1.00	
Q1	1.5	16.5		2.3	15.1			2.0		0.2	0.7	
kB	0.3	1.1		0.3	1.1			0.3		0.2	0.3	
Q2	0.1	4.2		0.3	3.4			0.2		0.0	0.0	
Q Average	1.6	20.7		2.6	18.5			2.2		0.2	0.8	
Percentile Back of Queue (95th percentile)												
fb%	2.0	1.6		2.0	1.6			2.0		2.1	2.1	
Back of Queue	3.3	33.5		5.2	30.1			4.5		0.4	1.6	
Queue Storage Ratio												
Queue Spacing	25.0	25.0		25.0	25.0			25.0		25.0	25.0	
Queue Storage	0	0		0	0			0		0	0	
Average Queue Storage Ratio												
95% Queue Storage Ratio												

Smith Property - Proposed Planned Apartment Development
Summary of Trip Generation Calculation
For 65 Dwelling Units of Apartments
June 07, 2012

	Average Rate	Standard Deviation	Adjustment Factor	Driveway Volume
Avg. Weekday 2-Way Volume	7.96	0.00	1.00	517
7-9 AM Peak Hour Enter	0.11	0.00	1.00	7
7-9 AM Peak Hour Exit	0.44	0.00	1.00	28
7-9 AM Peak Hour Total	0.55	0.00	1.00	3635
4-6 PM Peak Hour Enter	0.53	0.00	1.00	35
4-6 PM Peak Hour Exit	0.29	0.00	1.00	19
4-6 PM Peak Hour Total	0.82	0.00	1.00	5354
Saturday 2-Way Volume	3.91	0.00	1.00	254
Saturday Peak Hour Enter	0.00	0.00	1.00	0
Saturday Peak Hour Exit	0.00	0.00	1.00	0
Saturday Peak Hour Total	0.71	0.00	1.00	46

Note: A zero indicates no data available.

The above rates were calculated from these equations:

24-Hr. 2-Way Volume: $T = 6.06(X) + 123.56, R^2 = 0.87$
7-9 AM Peak Hr. Total: $T = .49(X) + 3.73$
 $R^2 = 0.83, 0.2 \text{ Enter}, 0.8 \text{ Exit}$
4-6 PM Peak Hr. Total: $T = .55(X) + 17.65$
 $R^2 = 0.77, 0.65 \text{ Enter}, 0.35 \text{ Exit}$
AM Gen Pk Hr. Total: $T = .54(X) + 2.45$
 $R^2 = 0.82, 0.29 \text{ Enter}, 0.71 \text{ Exit}$
PM Gen Pk Hr. Total: $T = .6(X) + 14.91$
 $R^2 = 0.8, 0.61 \text{ Enter}, 0.39 \text{ Exit}$
Sat. 2-Way Volume: $T = 7.85(X) + -256.19, R^2 = 0.85$
Sat. Pk Hr. Total: $T = .41(X) + 19.23$
 $R^2 = 0.56, 0 \text{ Enter}, 0 \text{ Exit}$
Sun. 2-Way Volume: $T = 6.42(X) + -101.12, R^2 = 0.82$
Sun. Pk Hr. Total: 0
 $R^2 = 0, 0 \text{ Enter}, 0 \text{ Exit}$

Source: Institute of Transportation Engineers
Trip Generation, 8th Edition, 2008.

TRIP GENERATION BY MICROTRANS

SHORT REPORT												
General Information						Site Information						
Analyst <i>HAK</i> Agency or Co. <i>Horne & Canter Associates</i> Date Performed <i>6/11/2012</i> Time Period <i>AM Peak Hour</i>						Intersection <i>W Chester Pk/Mary Fran/Rose</i> Area Type <i>All other areas</i> Jurisdiction <i>Goshen TWP</i> Analysis Year <i>No-Build</i>						
Volume and Timing Input												
	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Number of Lanes	1	2	0	1	2	0	0	1	0	1	1	0
Lane Group	L	TR		L	TR			LTR		L	TR	
Volume (vph)	42	1438	15	24	1438	8	37	0	32	16	0	39
% Heavy Vehicles	2	2	2	2	2	2	2	2	2	2	2	2
PHF	0.92	0.92	0.92	0.88	0.88	0.88	0.83	0.83	0.83	0.75	0.75	0.75
Pretimed/Actuated (P/A)	A	P	P	A	P	P	A	A	A	A	A	A
Startup Lost Time	2.0	2.0		2.0	2.0			2.0		2.0	2.0	
Extension of Effective Green	2.0	2.0		2.0	2.0			2.0		2.0	2.0	
Arrival Type	3	3		3	3			3		3	3	
Unit Extension	3.0	3.0		3.0	3.0			3.0		3.0	3.0	
Ped/Bike/RTOR Volume	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width	12.0	12.0		12.0	12.0			12.0		12.0	12.0	
Parking/Grade/Parking	N	0	N	N	0	N	N	0	N	N	0	N
Parking/Hour												
Bus Stops/Hour	0	0		0	0			0		0	0	
Minimum Pedestrian Time		3.2			3.2			3.2			3.2	
Phasing	Excl. Left	Thru & RT	03	04	NS Perm	06	07	08				
Timing	G = 8.0	G = 39.0	G =	G =	G = 12.0	G =	G =	G =				
	Y = 7	Y = 7	Y =	Y =	Y = 7	Y =	Y =	Y =				
Duration of Analysis (hrs) = 0.25			Cycle Length C = 80.0									
Lane Group Capacity, Control Delay, and LOS Determination												
	EB			WB			NB			SB		
Adjusted Flow Rate	46	1579		27	1643			84		21	52	
Lane Group Capacity	177	1726		177	1728			211		196	237	
v/c Ratio	0.26	0.91		0.15	0.95			0.40		0.11	0.22	
Green Ratio	0.10	0.49		0.10	0.49			0.15		0.15	0.15	
Uniform Delay d ₁	33.3	19.0		32.9	19.6			30.7		29.4	29.9	
Delay Factor k	0.11	0.50		0.11	0.50			0.11		0.11	0.11	
Incremental Delay d ₂	0.8	9.1		0.4	12.8			1.2		0.2	0.5	
PF Factor	1.000	1.000		1.000	1.000			1.000		1.000	1.000	
Control Delay	34.0	28.0		33.3	32.4			32.0		29.6	30.4	
Lane Group LOS	C	C		C	C			C		C	C	
Approach Delay	28.2			32.4			32.0			30.1		
Approach LOS	C			C			C			C		
Intersection Delay	30.3			Intersection LOS						C		

BACK-OF-QUEUE WORKSHEET

General Information

Project Description 12-033 Smith Property

Average Back of Queue

	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Lane Group	L	TR		L	TR			LTR		L	TR	
Initial Queue/Lane	0.0	0.0		0.0	0.0			0.0		0.0	0.0	
Flow Rate/Lane Group	46	1579		27	1643			84		21	52	
Satflow/Lane	1770	1859		1770	1861			1404		1308	1583	
Capacity/Lane Group	177	1726		177	1728			211		196	237	
Flow Ratio	0.0	0.4		0.0	0.5			0.1		0.0	0.0	
v/c Ratio	0.26	0.91		0.15	0.95			0.40		0.11	0.22	
I Factor	1.000	1.000		1.000	1.000			1.000		1.000	1.000	
Arrival Type	3	3		3	3			3		3	3	
Platoon Ratio	1.00	1.00		1.00	1.00			1.00		1.00	1.00	
PF Factor	1.00	1.00		1.00	1.00			1.00		1.00	1.00	
Q1	0.9	17.0		0.5	18.3			1.7		0.4	1.0	
kB	0.2	1.0		0.2	1.0			0.3		0.2	0.3	
Q2	0.1	6.4		0.0	7.9			0.2		0.0	0.1	
Q Average	1.0	23.4		0.6	26.1			1.9		0.4	1.1	

Percentile Back of Queue (95th percentile)

fb%	2.1	1.6		2.1	1.6			2.0		2.1	2.1	
Back of Queue	2.1	37.7		1.2	42.0			3.8		0.9	2.3	

Queue Storage Ratio

Queue Spacing	25.0	25.0		25.0	25.0			25.0		25.0	25.0	
Queue Storage	0	0		0	0			0		0	0	
Average Queue Storage Ratio												
95% Queue Storage Ratio												

SHORT REPORT												
General Information						Site Information						
Analyst <i>HAK</i> Agency or Co. <i>Horner & Canter Associates</i> Date Performed <i>6/11/2012</i> Time Period <i>PM Peak Hour</i>						Intersection <i>W Chester Pk/Mary Fran/Rose</i> Area Type <i>All other areas</i> Jurisdiction <i>Goshen TWP</i> Analysis Year <i>No-Build</i>						
Volume and Timing Input												
	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Number of Lanes	1	2	0	1	2	0	0	1	0	1	1	0
Lane Group	L	TR		L	TR			LTR		L	TR	
Volume (vph)	70	1622	23	107	1518	25	34	0	32	6	1	22
% Heavy Vehicles	2	2	2	2	2	2	2	2	2	2	2	2
PHF	0.95	0.95	0.95	0.94	0.94	0.94	0.66	0.66	0.66	0.63	0.63	0.63
Pretimed/Actuated (P/A)	A	P	P	A	P	P	A	A	A	A	A	A
Startup Lost Time	2.0	2.0		2.0	2.0			2.0		2.0	2.0	
Extension of Effective Green	2.0	2.0		2.0	2.0			2.0		2.0	2.0	
Arrival Type	3	3		3	3			3		3	3	
Unit Extension	3.0	3.0		3.0	3.0			3.0		3.0	3.0	
Ped/Bike/RTOR Volume	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width	12.0	12.0		12.0	12.0			12.0		12.0	12.0	
Parking/Grade/Parking	N	0	N	N	0	N	N	0	N	N	0	N
Parking/Hour												
Bus Stops/Hour	0	0		0	0			0		0	0	
Minimum Pedestrian Time		3.2			3.2			3.2			3.2	
Phasing	Excl. Left	Thru & RT	03	04	NS Perm	06	07	08				
Timing	G = 10.0 Y = 7	G = 47.0 Y = 7	G = Y =	G = Y =	G = 12.0 Y = 7	G = Y =	G = Y =	G = Y =				
Duration of Analysis (hrs) = 0.25							Cycle Length C = 90.0					
Lane Group Capacity, Control Delay, and LOS Determination												
	EB			WB			NB			SB		
Adjusted Flow Rate	74	1731		114	1642			100		10	37	
Lane Group Capacity	197	1848		197	1848			190		182	213	
v/c Ratio	0.38	0.94		0.58	0.89			0.53		0.05	0.17	
Green Ratio	0.11	0.52		0.11	0.52			0.13		0.13	0.13	
Uniform Delay d ₁	37.1	20.1		38.0	19.2			36.4		34.0	34.6	
Delay Factor k	0.11	0.50		0.17	0.50			0.13		0.11	0.11	
Incremental Delay d ₂	1.2	10.5		4.2	6.8			2.7		0.1	0.4	
PF Factor	1.000	1.000		1.000	1.000			1.000		1.000	1.000	
Control Delay	38.3	30.6		42.2	26.0			39.1		34.2	35.0	
Lane Group LOS	D	C		D	C			D		C	C	
Approach Delay	30.9			27.1			39.1			34.8		
Approach LOS	C			C			D			C		
Intersection Delay	29.4			Intersection LOS						C		

BACK-OF-QUEUE WORKSHEET												
General Information												
Project Description 12-033 Smith Property												
Average Back of Queue												
	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Lane Group	L	TR		L	TR			LTR		L	TR	
Initial Queue/Lane	0.0	0.0		0.0	0.0			0.0		0.0	0.0	
Flow Rate/Lane Group	74	1731		114	1642			100		10	37	
Satflow/Lane	1770	1858		1770	1858			1423		1363	1598	
Capacity/Lane Group	197	1848		197	1848			190		182	213	
Flow Ratio	0.0	0.5		0.1	0.5			0.1		0.0	0.0	
v/c Ratio	0.38	0.94		0.58	0.89			0.53		0.05	0.17	
I Factor	1.000	1.000		1.000	1.000			1.000		1.000	1.000	
Arrival Type	3	3		3	3			3		3	3	
Platoon Ratio	1.00	1.00		1.00	1.00			1.00		1.00	1.00	
PF Factor	1.00	1.00		1.00	1.00			1.00		1.00	1.00	
Q1	1.7	21.3		2.7	19.2			2.3		0.2	0.8	
kB	0.3	1.1		0.3	1.1			0.3		0.2	0.3	
Q2	0.2	8.1		0.3	6.1			0.3		0.0	0.1	
Q Average	1.9	29.4		3.1	25.3			2.6		0.2	0.9	
Percentile Back of Queue (95th percentile)												
fb%	2.0	1.6		2.0	1.6			2.0		2.1	2.1	
Back of Queue	3.8	47.0		6.1	40.7			5.3		0.5	1.8	
Queue Storage Ratio												
Queue Spacing	25.0	25.0		25.0	25.0			25.0		25.0	25.0	
Queue Storage	0	0		0	0			0		0	0	
Average Queue Storage Ratio												
95% Queue Storage Ratio												

SHORT REPORT												
General Information						Site Information						
Analyst <i>HAK</i> Agency or Co. <i>Horne & Canter Associates</i> Date Performed <i>6/11/2012</i> Time Period <i>AM Peak Hour</i>						Intersection <i>W Chester Pk/Mary Fran/Rose</i> Area Type <i>All other areas</i> Jurisdiction <i>Goshen TWP</i> Analysis Year <i>Build</i>						
Volume and Timing Input												
	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Number of Lanes	1	2	0	1	2	0	0	1	0	1	1	0
Lane Group	L	TR		L	TR			LTR		L	TR	
Volume (vph)	46	1438	15	24	1438	11	37	0	32	27	0	56
% Heavy Vehicles	2	2	2	2	2	2	2	2	2	2	2	2
PHF	0.92	0.92	0.92	0.88	0.88	0.88	0.83	0.83	0.83	0.75	0.75	0.75
Pretimed/Actuated (P/A)	A	P	P	A	P	P	A	A	A	A	A	A
Startup Lost Time	2.0	2.0		2.0	2.0			2.0		2.0	2.0	
Extension of Effective Green	2.0	2.0		2.0	2.0			2.0		2.0	2.0	
Arrival Type	3	3		3	3			3		3	3	
Unit Extension	3.0	3.0		3.0	3.0			3.0		3.0	3.0	
Ped/Bike/RTOR Volume	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width	12.0	12.0		12.0	12.0			12.0		12.0	12.0	
Parking/Grade/Parking	N	0	N	N	0	N	N	0	N	N	0	N
Parking/Hour												
Bus Stops/Hour	0	0		0	0			0		0	0	
Minimum Pedestrian Time		3.2			3.2			3.2			3.2	
Phasing	Excl. Left	Thru & RT	03	04	NS Perm	06	07	08				
Timing	G = 8.0	G = 39.0	G =	G =	G = 12.0	G =	G =	G =				
	Y = 7	Y = 7	Y =	Y =	Y = 7	Y =	Y =	Y =				
Duration of Analysis (hrs) = 0.25			Cycle Length C = 80.0									
Lane Group Capacity, Control Delay, and LOS Determination												
	EB			WB			NB			SB		
Adjusted Flow Rate	50	1579		27	1647			84		36	75	
Lane Group Capacity	177	1726		177	1727			207		196	237	
v/c Ratio	0.28	0.91		0.15	0.95			0.41		0.18	0.32	
Green Ratio	0.10	0.49		0.10	0.49			0.15		0.15	0.15	
Uniform Delay d ₁	33.3	19.0		32.9	19.6			30.8		29.7	30.3	
Delay Factor k	0.11	0.50		0.11	0.50			0.11		0.11	0.11	
Incremental Delay d ₂	0.9	9.1		0.4	13.2			1.3		0.5	0.8	
PF Factor	1.000	1.000		1.000	1.000			1.000		1.000	1.000	
Control Delay	34.2	28.0		33.3	32.8			32.1		30.2	31.1	
Lane Group LOS	C	C		C	C			C		C	C	
Approach Delay	28.2			32.8			32.1			30.8		
Approach LOS	C			C			C			C		
Intersection Delay	30.6			Intersection LOS						C		

BACK-OF-QUEUE WORKSHEET												
General Information												
Project Description 12-033 Smith Property												
Average Back of Queue												
	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Lane Group	L	TR		L	TR			LTR		L	TR	
Initial Queue/Lane	0.0	0.0		0.0	0.0			0.0		0.0	0.0	
Flow Rate/Lane Group	50	1579		27	1647			84		36	75	
Satflow/Lane	1770	1859		1770	1860			1383		1308	1583	
Capacity/Lane Group	177	1726		177	1727			207		196	237	
Flow Ratio	0.0	0.4		0.0	0.5			0.1		0.0	0.0	
v/c Ratio	0.28	0.91		0.15	0.95			0.41		0.18	0.32	
I Factor	1.000	1.000		1.000	1.000			1.000		1.000	1.000	
Arrival Type	3	3		3	3			3		3	3	
Platoon Ratio	1.00	1.00		1.00	1.00			1.00		1.00	1.00	
PF Factor	1.00	1.00		1.00	1.00			1.00		1.00	1.00	
Q1	1.0	17.0		0.5	18.4			1.7		0.7	1.5	
kB	0.2	1.0		0.2	1.0			0.3		0.2	0.3	
Q2	0.1	6.4		0.0	8.0			0.2		0.1	0.1	
Q Average	1.1	23.4		0.6	26.4			1.9		0.8	1.6	
Percentile Back of Queue (95th percentile)												
fb%	2.1	1.6		2.1	1.6			2.0		2.1	2.0	
Back of Queue	2.3	37.7		1.2	42.4			3.8		1.6	3.3	
Queue Storage Ratio												
Queue Spacing	25.0	25.0		25.0	25.0			25.0		25.0	25.0	
Queue Storage	0	0		0	0			0		0	0	
Average Queue Storage Ratio												
95% Queue Storage Ratio												

SHORT REPORT												
General Information							Site Information					
Analyst <i>HAK</i> Agency or Co. <i>Horner & Canter Associates</i> Date Performed <i>6/11/2012</i> Time Period <i>PM Peak Hour</i>							Intersection <i>W Chester Pk/Mary Fran/Rose</i> Area Type <i>All other areas</i> Jurisdiction <i>Goshen TWP</i> Analysis Year <i>Build</i>					
Volume and Timing Input												
	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Number of Lanes	1	2	0	1	2	0	0	1	0	1	1	0
Lane Group	L	TR		L	TR			LTR		L	TR	
Volume (vph)	91	1622	23	107	1518	39	34	0	32	14	1	33
% Heavy Vehicles	2	2	2	2	2	2	2	2	2	2	2	2
PHF	0.95	0.95	0.95	0.94	0.94	0.94	0.66	0.66	0.66	0.63	0.63	0.63
Pretimed/Actuated (P/A)	A	P	P	A	P	P	A	A	A	A	A	A
Startup Lost Time	2.0	2.0		2.0	2.0			2.0		2.0	2.0	
Extension of Effective Green	2.0	2.0		2.0	2.0			2.0		2.0	2.0	
Arrival Type	3	3		3	3			3		3	3	
Unit Extension	3.0	3.0		3.0	3.0			3.0		3.0	3.0	
Ped/Bike/RTOR Volume	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width	12.0	12.0		12.0	12.0			12.0		12.0	12.0	
Parking/Grade/Parking	N	0	N	N	0	N	N	0	N	N	0	N
Parking/Hour												
Bus Stops/Hour	0	0		0	0			0		0	0	
Minimum Pedestrian Time		3.2			3.2			3.2			3.2	
Phasing	Excl. Left	Thru & RT	03	04	NS Perm	06	07	08				
Timing	G = 10.0	G = 47.0	G =	G =	G = 12.0	G =	G =	G =				
	Y = 7	Y = 7	Y =	Y =	Y = 7	Y =	Y =	Y =				
Duration of Analysis (hrs) = 0.25							Cycle Length C = 90.0					
Lane Group Capacity, Control Delay, and LOS Determination												
	EB			WB			NB			SB		
Adjusted Flow Rate	96	1731		114	1656			100		22	54	
Lane Group Capacity	197	1848		197	1845			188		182	213	
v/c Ratio	0.49	0.94		0.58	0.90			0.53		0.12	0.25	
Green Ratio	0.11	0.52		0.11	0.52			0.13		0.13	0.13	
Uniform Delay d ₁	37.6	20.1		38.0	19.3			36.4		34.4	35.0	
Delay Factor k	0.11	0.50		0.17	0.50			0.13		0.11	0.11	
Incremental Delay d ₂	1.9	10.5		4.2	7.4			2.9		0.3	0.6	
PF Factor	1.000	1.000		1.000	1.000			1.000		1.000	1.000	
Control Delay	39.5	30.6		42.2	26.7			39.3		34.7	35.6	
Lane Group LOS	D	C		D	C			D		C	D	
Approach Delay	31.1			27.7			39.3			35.3		
Approach LOS	C			C			D			D		
Intersection Delay	29.8			Intersection LOS						C		

BACK-OF-QUEUE WORKSHEET

General Information

Project Description 12-033 Smith Property

Average Back of Queue

	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Lane Group	L	TR		L	TR			LTR		L	TR	
Initial Queue/Lane	0.0	0.0		0.0	0.0			0.0		0.0	0.0	
Flow Rate/Lane Group	96	1731		114	1656			100		22	54	
Satflow/Lane	1770	1858		1770	1855			1408		1363	1594	
Capacity/Lane Group	197	1848		197	1845			188		182	213	
Flow Ratio	0.1	0.5		0.1	0.5			0.1		0.0	0.0	
v/c Ratio	0.49	0.94		0.58	0.90			0.53		0.12	0.25	
I Factor	1.000	1.000		1.000	1.000			1.000		1.000	1.000	
Arrival Type	3	3		3	3			3		3	3	
Platoon Ratio	1.00	1.00		1.00	1.00			1.00		1.00	1.00	
PF Factor	1.00	1.00		1.00	1.00			1.00		1.00	1.00	
Q1	2.3	21.3		2.7	19.5			2.3		0.5	1.2	
kB	0.3	1.1		0.3	1.1			0.3		0.2	0.3	
Q2	0.2	8.1		0.3	6.4			0.3		0.0	0.1	
Q Average	2.5	29.4		3.1	25.9			2.6		0.5	1.3	

Percentile Back of Queue (95th percentile)

fb%	2.0	1.6		2.0	1.6			2.0		2.1	2.1	
Back of Queue	5.1	47.0		6.1	41.6			5.3		1.1	2.7	

Queue Storage Ratio

Queue Spacing	25.0	25.0		25.0	25.0			25.0		25.0	25.0	
Queue Storage	0	0		0	0			0		0	0	
Average Queue Storage Ratio												
95% Queue Storage Ratio												

TWO-WAY STOP CONTROL SUMMARY									
General Information					Site Information				
Analyst		HAK			Intersection		Mary Fran Drive & Site Access		
Agency/Co.		Horner & Canter Associates			Jurisdiction		East Goshen TWP		
Date Performed		7/27/2012			Analysis Year		Build		
Analysis Time Period		AM Peak Hour							
Project Description 12-033 Smith Property - Prop. Planned Apartment Development									
East/West Street: Site Access					North/South Street: Mary Fran Drive				
Intersection Orientation: North-South					Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments									
Major Street		Northbound			Southbound				
Movement		1	2	3	4	5	6		
		L	T	R	L	T	R		
Volume (veh/h)			19	7	0	55			
Peak-Hour Factor, PHF		1.00	0.75	0.75	0.75	0.75	1.00		
Hourly Flow Rate, HFR (veh/h)		0	25	9	0	73	0		
Percent Heavy Vehicles		0	--	--	0	--	--		
Median Type		Undivided							
RT Channelized				0			0		
Lanes		0	1	0	0	1	0		
Configuration				TR	LT				
Upstream Signal			0			0			
Minor Street		Eastbound			Westbound				
Movement		7	8	9	10	11	12		
		L	T	R	L	T	R		
Volume (veh/h)					28		0		
Peak-Hour Factor, PHF		1.00	1.00	1.00	0.80	1.00	0.80		
Hourly Flow Rate, HFR (veh/h)		0	0	0	34	0	0		
Percent Heavy Vehicles		0	0	0	0	0	0		
Percent Grade (%)		0			0				
Flared Approach			N			N			
Storage			0			0			
RT Channelized				0			0		
Lanes		0	0	0	0	0	0		
Configuration						LR			
Delay, Queue Length, and Level of Service									
Approach		Northbound	Southbound	Westbound			Eastbound		
Movement		1	4	7	8	9	10	11	12
Lane Configuration			LT		LR				
v (veh/h)			0		34				
C (m) (veh/h)			1591		900				
v/c			0.00		0.04				
95% queue length			0.00		0.12				
Control Delay (s/veh)			7.3		9.2				
LOS			A		A				
Approach Delay (s/veh)		--	--	9.2					
Approach LOS		--	--	A					

TWO-WAY STOP CONTROL SUMMARY

General Information				Site Information			
Analyst	HAK			Intersection	Mary Fran Drive & Site Access		
Agency/Co.	Horner & Canter Associates			Jurisdiction	East Goshen TWP		
Date Performed	7/27/2012			Analysis Year	Build		
Analysis Time Period	PM Peak Hour						
Project Description 12-033 Smith Property - Prop. Planned Apartment Development							
East/West Street: Site Access				North/South Street: Mary Fran Drive			
Intersection Orientation: North-South				Study Period (hrs): 0.25			
Vehicle Volumes and Adjustments							
Major Street	Northbound			Southbound			
Movement	1	2	3	4	5	6	
	L	T	R	L	T	R	
Volume (veh/h)		51	35	0	29		
Peak-Hour Factor, PHF	1.00	0.63	0.63	0.63	0.63	1.00	
Hourly Flow Rate, HFR (veh/h)	0	81	56	0	46	0	
Percent Heavy Vehicles	0	--	--	0	--	--	
Median Type	Undivided						
RT Channelized			0			0	
Lanes	0	1	0	0	1	0	
Configuration			TR	LT			
Upstream Signal		0			0		
Minor Street	Eastbound			Westbound			
Movement	7	8	9	10	11	12	
	L	T	R	L	T	R	
Volume (veh/h)				19		0	
Peak-Hour Factor, PHF	1.00	1.00	1.00	0.80	1.00	0.80	
Hourly Flow Rate, HFR (veh/h)	0	0	0	23	0	0	
Percent Heavy Vehicles	0	0	0	0	0	0	
Percent Grade (%)	0			0			
Flared Approach		N			N		
Storage		0			0		
RT Channelized			0			0	
Lanes	0	0	0	0	0	0	
Configuration					LR		
Delay, Queue Length, and Level of Service							
Approach	Northbound	Southbound	Westbound			Eastbound	
Movement	1	4	7	8	9	10	11 12
Lane Configuration		LT		LR			
v (veh/h)		0		23			
C (m) (veh/h)		1459		841			
v/c		0.00		0.03			
95% queue length		0.00		0.08			
Control Delay (s/veh)		7.5		9.4			
LOS		A		A			
Approach Delay (s/veh)	--	--	9.4				
Approach LOS	--	--	A				