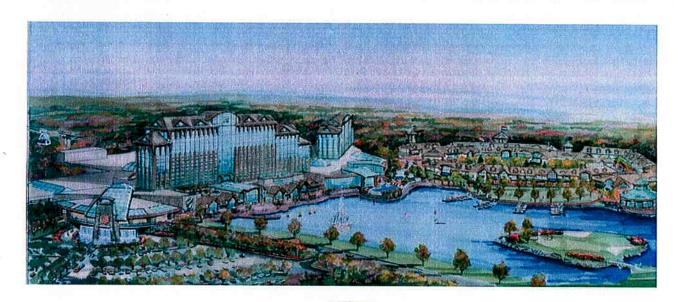
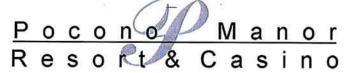


TRAFFIC IMPACT STUDY





Tobyhanna Township Monroe County, PA

Prepared for:
Pocono Manor Investors L.P.
P.O. Box 38, Pocono Manor Inn
Pocono Manor, PA 18349

Prepared by: Pennoni Associates, Inc. 2041 Avenue C, Suite 100 Bethlehem, PA 18017 (610) 231-0600

December 2005 Revised July 2006 Revised November 2006



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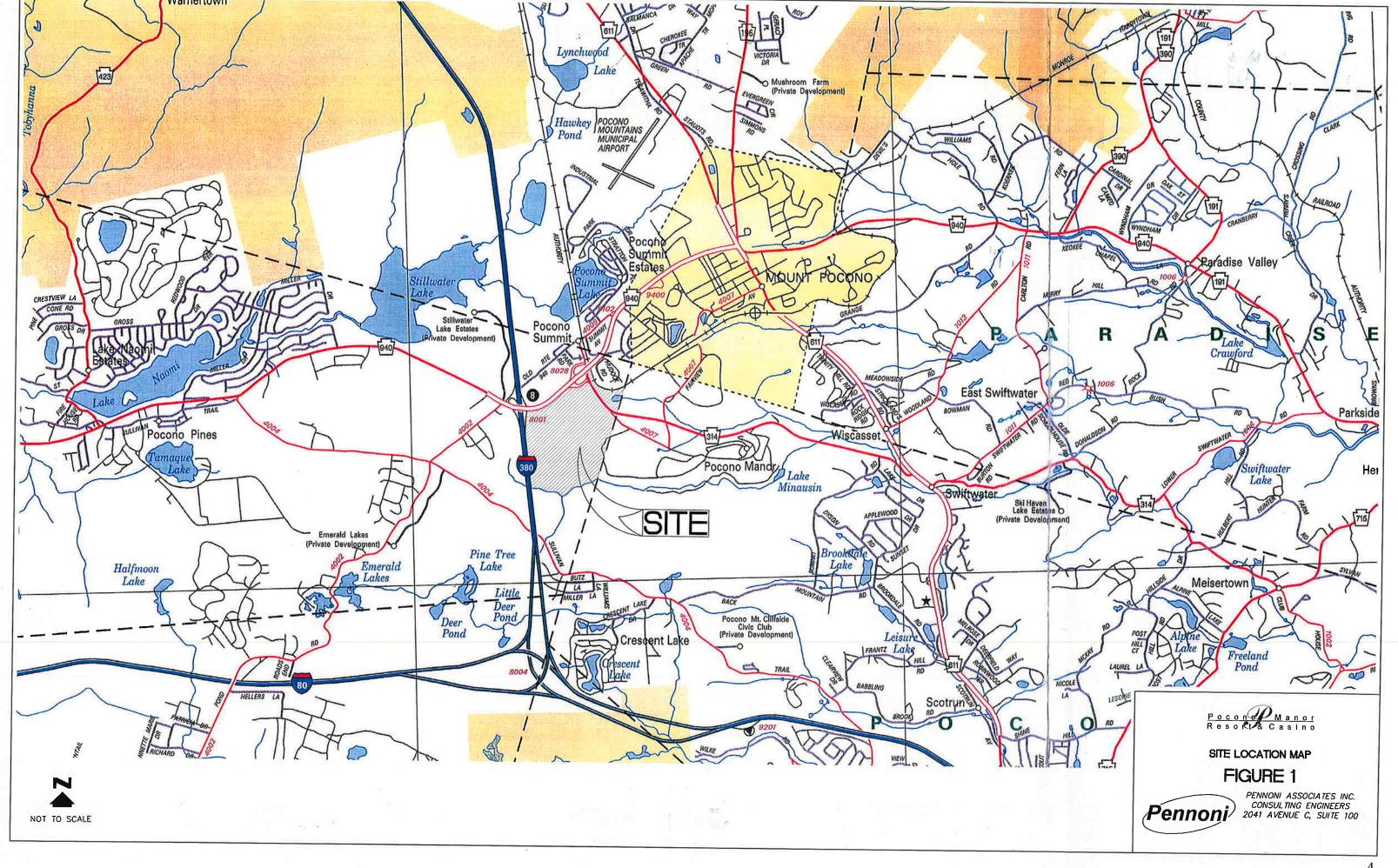
EXECUTIVE SUMMARY

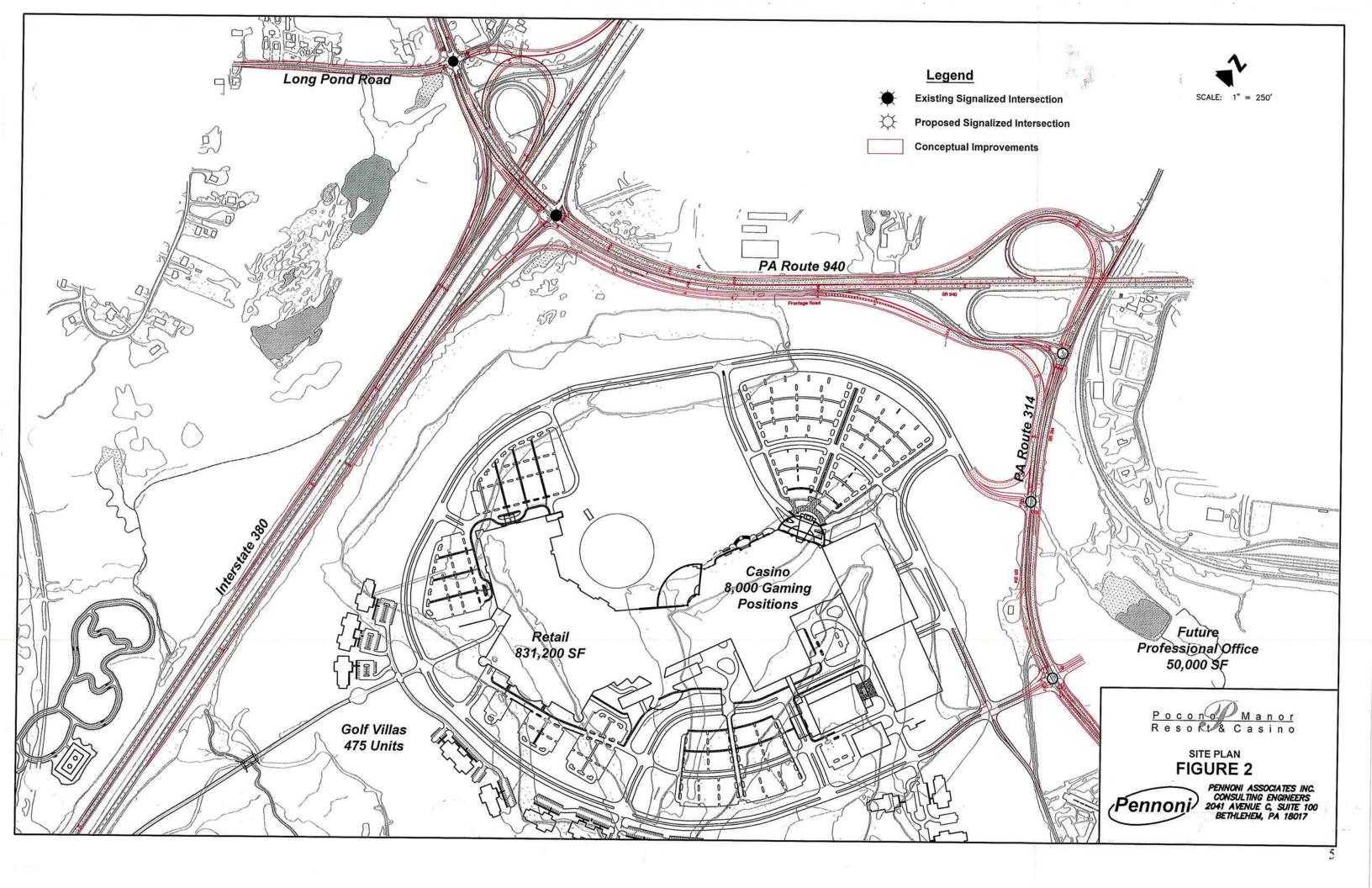
This revised Traffic Impact Study addresses comments made by the Pennsylvania Gaming Control Board (PGCB), the Pennsylvania Department of Transportation (PENNDOT) and the Federal Highway Administration (FHWA). See enclosed correspondence in **Appendix M**.

Pocono Manor Investors L.P. proposes to construct a resort development to be known as Pocono Manor Resort & Casino. The site is ideally located on the southeast quadrant of the intersection of two major highways, Interstate 380 and State Route 940, in Tobyhanna Township, Monroe County (Figure 1). The proposed development will consist of a resort/casino with 8,000 slot machines, an 831,200 square foot multi-level indoor shopping/family entertainment center, a 50,000 square foot professional office building, and 475 residential condominiums/townhouses. In addition to the aforementioned, the resort/casino portion of the development includes the following amenities: hotel rooms/time share villas, pools, spas, convention/meeting rooms, restaurants, theater, retail shops, and a hospitality/gaming school. Figure 2 illustrates the proposed layout for the Pocono Manor Resort & Casino. Access to the site will be provided via two high volume driveways and one medium volume driveway onto State Route 314 and from northbound I-380 via a proposed frontage road access. Enclosed in the back pocket of this report are conceptual roadway improvement plans illustrating the proposed site access. The project is anticipated to be completed by the end of 2009.

The scope of this traffic impact study includes the following off site intersections:

- SR 0940/Long Pond Road/Private Road
- o SR 0940/Southbound I-380 Ramps
- SR 0940/Northbound I-380 Ramps
- o SR 0314/Westbound SR 0940 Ramps
- o SR 0314/Eastbound SR 0940 Ramps
- SR 0940/Spruce Street/Harvest Lane
- SR 0940/Summit Avenue/Commerce Street
- o SR 0940/Industrial Drive
- SR 0940/Oak Street
- o SR 0940/SR 0611/SR 0196/Driveway
- SR 0314 (West Leg)/SR 0611
- SR 0314 (East Leg)/SR 0611





Given that the proposed development is a resort and casino, manual traffic turning movement counts were conducted for a Friday late afternoon peak period (4:00 PM to 6:00 PM – 'peak hour of adjacent street traffic'), a Friday evening peak period (6:00 PM to 8:00 PM - Casino peak) and a Saturday evening peak period (4:00 PM to 8:00 PM - Casino peak).

Trip Generation for the proposed development resulted in a total of 5,792 new trips for the Friday late afternoon peak hour; 6,586 new trips for the Friday evening peak hour; and 6,966 new trips for the Saturday evening peak hour. To accommodate the additional traffic to the area roadways, the following off site roadway improvements are recommended. Conceptual plans are enclosed in the back pocket of this report illustrating the recommended roadway improvements and site access.

SR 0940/ Long Pond Road /Southbound I-380 Off Ramp

- Relocate the ramp to align opposite Long Pond Road and relocate the Stillwater Lake Estates Access west of its existing location (Stillwater Lake Estates Property Owners Association is not opposed to relocation if access that accommodates their needs is provided elsewhere. See enclose letter in **Appendix M**.)
- Dual left turn lanes and a shared through/right turn lane for the Southbound I-380 Off Ramp
- > Dual left turn lanes westbound from SR 0940 to southbound Long Pond Road
- Right turn lane and two through lanes eastbound on SR 0940
- > Dual left turn lanes and a right turn lane northbound on Long Pond Road

SR 0940/Southbound I-380 On Ramp

- > Two ramp lanes
- ➤ Shift southbound I-380 to accommodate four lane section under SR 0940 bridge

SR 0940/Northbound I-380 Off Ramp

- Four through lanes on westbound SR 0940
- Dual left turn lanes on northbound I-380 Off Ramp
- Left turn lane eastbound on SR 0940
- > Frontage road to SR 0314
- > Signal phasing and timing

SR 0314/SR 0940 Westbound Ramps

- ➤ Eliminate the southbound through movement on SR 0314 to provide free flow conditions to/from the ramps
- Dual left turn lanes northbound on SR 0314

SR 0314/SR 0940 Eastbound Ramps

- > Triple right turn lanes off the ramp
- ➤ A left turn lane and three through lanes northbound on SR 0314
- Signalize the intersection

SR 0314/Spruce Street/Harvest Lane

> Signal timing adjustments

SR 0314/Summit Avenue/Commerce Street

Signal timing adjustments

SR 0940/Industrial Drive

Signal timing adjustments

SR 0940/Oak Street

Signal timing adjustments

SR 0940/SR 0611/SR 0196/Driveway

Contribution towards construction of additional lanes on SR 0611

SR 0611/SR 0314 (West leg)

Signalization

SR 0611/SR 0314 (East leg)

> Signal timing adjustments

Two study years were evaluated: 2009 (the year of opening) and 2019 (the ten-year buildout). Table 1 summarizes the levels of service for the study intersections for both study years. Although level of service drops are expected, the proposed off-site improvements mitigate most of the drops. Given the ideal location along Interstate Route 380 and State Route 940, the Pocono Manor Resort & Casino development traffic can be adequately accommodated by the proposed roadway network with the recommended improvements mentioned above. Where mitigation is not attainable, a fair share contribution to the affected municipality is proposed.

TABLE 1
LEVEL OF SERVICE COMPARISON
November 2006

Intersection	Move	2009 After No-Build	2009 PM No-Build	2009 SAT No-Build	2009 After Build	2009 PM Build	2009 SAT Build	2019 After No-Build	2019 PM No-Build	2019 SAT No-Build	2019 After Build	2019 PM Build	2019 SAT Build
	EB L	С	В	В	n/a	n/a	n/a	С	В	В	n/a	n/a	n/a
	EB T	F(91.1)	С	С	D	С	C	F(211.0)	D	D	D	С	С
	EB R				Α	A	A	F(211.0)	ט	D	Α	Α	A
SR 0940/Long Pond Road/ Private Road/I-380 Relocated SB	WB L	F(92.3)	В	В	D	D	C	F(255.4)	D	D	Е	D	D
	WB T	- A	Α	A	В	В	В	۸	٨		C	В	В
	WB R		A		n/a	n/a	n/a	A	Α	А	n/a	n/a	n/a
Ramp	NB L				Е	D	D				Е	D	D
	NB T	F(106.3)	С	C	n/a	n/a	n/a	F(195.5)	D	Е	n/a	n/a	n/a
	NB R				Α	Α	A				A	Α	A
	SB L	С	СС	С	D	С	С	D	C	C	D	С	С
	SB TR				В	В	В	Б	Ü		С	В	В
Overall Intersection		Е	В	В	C	С	С	F(143.5)	C	D	D	С	С

Intersection	Move	2009 After No-Build	2009 PM No-Build	2009 SAT No-Build	2009 After Build	2009 PM Build	2009 SAT Build	2019 After No-Build	2019 PM No-Build	2019 SAT No-Build	2019 After Build	2019 PM Build	2019 SAT Build
	ЕВ Т	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	EB R	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
SR 0940/	WB T	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
I-380 Southbound Ramps	WB R	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	SB L	F(ERR)	F(250.7)	F(238.9)	n/a	n/a	n/a	F(ERR)	F(ERR)	F(1005.0)	n/a	n/a	n/a
	SB R	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Overall Intersection		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Intersection	Move	2009 After No-Build	2009 PM No-Build	2009 SAT No-Build	2009 After Build	2009 PM Build	2009 SAT Build	2019 After No-Build	2019 PM No-Build	2019 SAT No-Build	2019 After Build	2019 PM Build	2019 SAT Build
	EB L	С	A	В	D	C	C	F(176,6)	В	В	Е	C	D
SR 0940/	EB T		A	Б	A	A,	A	F(1/0.0)	ь	ь	A	A	A
I-380 Northbound Ramps	WB T	C	В	В	C	C	C	D	В	В	Е	C	С
1 500 Horanbound Ramps	NB L	D	C	R	D	C	С	F(123.6)	D	C	Е	D	С
	NB R			Б	A	A	A	1 (123.0)	D	C	Α	A	A
Overall Intersection		С	В	В	С	В	C	F(95.8)	С	В	D	С	С

Intersection	Move	2009 After No-Build	2009 PM No-Build	2009 SAT No-Build	2009 After Build	2009 PM Build	2009 SAT Build	2019 After No-Build	2019 PM No-Build	2019 SAT No-Build	2019 After Build	2019 PM Build	2019 SAT Build
	EB L	Δ	Ã	A	n/a	n/a	n/a	В	Α		n/a	n/a	n/a
SR 0314/	EB R	21	A	A.	n/a	n/a	n/a	Б	A	A	n/a	n/a	n/a
	NB L	A	Α	A	n/a	n/a	n/a	Α	Α	A	n/a	n/a	n/a
	NB LT	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	SB T	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	SB R	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Overall Intersection		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

TABLE 1
LEVEL OF SERVICE COMPARISON
November 2006

Intersection	Move	2009 After No-Build	2009 PM No-Build	2009 SAT No-Build	2009 After Build	2009 PM Build	2009 SAT Build	2019 After No-Build	2019 PM No-Build	2019 SAT No-Build	2019 After Build	2019 PM Build	2019 SAT Build
	EB L	В	B	В	D	D	D	C	D	D	D	D	D
	EB R	ь	ь	ь	n/a	n/a	n/a	C	В	В	n/a	n/a	n/a
SR 0314/	NB L	A	A	A	A	A	Α	A	Α	Α	A	A	A
SR 0940 Eastbound Ramps	NB T	n/a	n/a	n/a	A	Α	В	n/a	n/a	n/a	В	A	С
	SB T	n/a	n/a	n/a	A	Α	A	n/a	n/a	n/a	A	Α	A
	SB R	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Overall Intersection		n/a	n/a	n/a	A	A	В	n/a	n/a	n/a	В	A	С

Intersection	Move	2009 After No-Build	2009 PM No-Build	2009 SAT No-Build	2009 After Build	2009 PM Build	2009 SAT Build	2019 After No-Build	2019 PM No-Build	2019 SAT No-Build	2019 After Build	2019 PM Build	2019 SAT Build
	EB L	В	Α	A	В	Α	A	Α	Α	A	A	A	A
	EB TR	A	A	A	A	A	Α	Α	A	Α	A	Α	A
SR 0940/	WB L	Α	A	A	A	Α	A	A	A	Α	A	Α	A
Spruce Street	WB TR	В	Α	Α	D	A	В	F(118.9)	A	A	F(216.7)	Α	Α
	NB LTR	D	С	В	E	C	В	Е	С	С	Е	С	С
	SB LTR	C	С	В	D	В	В	D	С	С	D	В	В
Overall Intersection		В	A	A	C	A	В	Е	A	A	F(113.0)	A	A

Intersection	Move	2009 After No-Build	2009 PM No-Build	2009 SAT No-Build	2009 After Build	2009 PM Build	2009 SAT Build	2019 After No-Build	2019 PM No-Build	2019 SAT No-Build	2019 After Build	2019 PM Build	2019 SAT Build
	EB L	В	A	A	Α	A	A	Α	Α	A	Α	A	A
	EB TR	A	A	A	A	A	Α	Α	A	A	В	A	A
SR 0940/	WB L	A	Α	Α	Α	Α	Α	A	A	A	A	A	A
Summit Avenue	WB TR	F(92.8)	Α	A	F(138.8)	В	В	F(243.4)	С	Α	F(291.9)	Е	В
	NB LTR	C	В	C	С	В	С	С	С	С	С	С	C
	SB LTR	F(119.3)	D	D	F(119.3)	D	D	F(160.6)	Е	D	F(160.6)	Е	D
Overall Intersection		Е	A	A	F(82.9)	В	A	F(142.8)	В	A	F(169.8)	C	В

Intersection	Move	2009 After No-Build	2009 PM No-Build	2009 SAT No-Build	2009 After Build	2009 PM Build	2009 SAT Build	2019 After No-Build	2019 PM No-Build	2019 SAT No-Build	2019 After Build	2019 PM Build	2019 SAT Build
	EB L	D	D	D	D	D	D	D	D	D	D	D	D
	EB T	D	С	C	D	C	С	D	С	С	D	С	С
	EB R	В	Α	Α	В	Α	В	В	A	А	В	Α	A
	WB L	D	C	D	D	С	D	F(85.5)	D	Е	Е	D	Е
2	WB T	C	В	В	С	В	В	С	A	В	C	A	В
SR 0940/	WB R	A	Α	Á	Å	A	A	Α	A	Α	Α	A	A
Industrial Drive	NB L	D	C	C	D	C	С	Е	D	D	Е	D	D
	NB T	D	C	C	D	C	C	E	D	D	Е	D	D
	NB R	A	A	A	Α	A	Α	Å	A	A	A	Α	A
	SB L	D	C	C	D	С	С	D	D	C	Е	D	С
	SB T	D	C	С	D	C	С	D	D	С	Е	D	С
	SB R	A	A	Ā	Ā	A	Α	Α	A	A	A	A	A
Overall Intersection		C	В	В	С	С	С	С	С	С	D	C	С

TABLE 1
LEVEL OF SERVICE COMPARISON
November 2006

Intersection	Move	2009 After No-Build	2009 PM No-Build	2009 SAT No-Build	2009 After Build	2009 PM Build	2009 SAT Build	2019 After No-Build	2019 PM No-Build	2019 SAT No-Build	2019 After Build	2019 PM Build	2019 SAT Build
	EB L	A	A	В	Α	Α	В	С	В	С	С	В	С
	EB TR	A	A	A	A	Α	A	В	A	Α	В	A	A
	WB L	С	В	A	C	В	Α	D	С	A	D	C	Α
SR 0940/	WB T	В	В	В	В	В	В	С	С	С	С	C	С
Oak Street	WB R	A	A	A	A	A	A	Α	A	Α	A	Α	Α
Oak Street	NB L	Е	D	C	E	D	С	Е	D	D	Е	D	D
	NB R	A	A	Α	A	A	Α	Α	Α	Α	A	Α	A
	SB L	D	D	С	D	D	С	D	D	D	D	D	D
	SB R	A	A	A	A	A	Α	Α	Α	A	A	Α	A
Overall Intersection		В	В	В	В	В	В	С	В	В	С	В	В

Intersection	Move	2009 After No-Build	2009 PM No-Build	2009 SAT No-Build	2009 After Build	2009 PM Build	2009 SAT Build	2019 After No-Build	2019 PM No-Build	2019 SAT No-Build	2019 After Build	2019 PM Build	2019 SAT Build
	EB L	Е	D	D	E	D	D	F(84.6)	Е	D	F(84.6)	Е	D
	EB T	F(92.8)	F(80.2)	D	F(157.4)	F(132.4)	F(92.4)	F(142.3)	F(159.2)	F(81.9)	F(221.7)	F(241.6)	F(140.7)
	EB R	F(187.7)	С	В	F(253.4)	F(117.0)	В	F(184.7)	F(181.8)	D	F(257.0)	F(319.6)	F(139.8)
	WB L	F(732.5)	E	Е	F(732.5)	Е	F(84.1)	F(437.7)	F(154.5)	Е	F(540.3)	F(154.5)	E
SR 0940 Westbound/	WB TR	D	D	D	Е	F(87.0)	D	D	D	D	Е	Е	D
SR 0611/SR 0196	NB L	F(120.6)	F(92.7)	C	F(185.7)	F(156.9)	D	D	F(173.2)	Е	Е	F(242.1)	F(129.9)
	NB T	A	A	A	В	Α	A	F(84.8)	В	Α	F(93.8)	В	A
	NB R	F(90.8)	С	C	F(92.8)	С	В	F(169.3)	F(111.3)	С	F(172.9))	F(102.4)	С
	SB LT	F(470.9)	D	Е	F(469.3)	D	Е	F(847.9)	F(185.3)	Е	F(847.9)	F(187.8)	Е
	SB R	D	В	Α	D	В	Α	F(184.1)	В	Α	F(184.1)	В	A
Overall Intersection		F(204.7)	D	C	F(220.9)	F(80.3)	D	F(288.7)	F(123.4)	D	F(305.7)	F(162.2)	F(83.6)

Intersection	Move	2009 After No-Build	2009 PM No-Build	2009 SAT No-Build	2009 After Build	2009 PM Build	2009 SAT Build	2019 After No-Build	2019 PM No-Build	2019 SAT No-Build	2019 After Build	2019 PM Build	2019 SAT Build
	EB LTR	F(164.6)	E	D	F(172.5)	Е	F(298.9)	F(717.4)	F(121.6)	F(722.8)	F(717.4)	F(121.6)	F(722.8)
	WB LT	D	D	D	D	D	D	D	D	D	D	D	D
SR 0940 Eastbound/	WB R	Е	C	A	F(192.1)	F(459.4)	A	F(182.3)	В	С	F(273.3)	С	F(88.5)
SR 0611/Driveway	NB L	C	C	C	C	C	C	С	C	С	С	C	С
SK 0011/Dilveway	NB TR	Е	D	D	Е	F(105.1)	D	F(336.4)	F(237.9)	Е	F(316.8)	F(298.3)	F(114.2)
	SB L	F(261.0)	С	В	F(339.9)	D	В	F(227.3)	F(100.6)	В	F(288.0)	F(168.8)	С
	SB TR	F(263.5)	В	В	F(272.2)	В	В	F(508.4)	F(85.0)	В	F(525.2)	F(99.3)	С
Overall Intersection		F(164.5)	D	С	F(204.6)	F(131.9)	С	F(365.0)	F(129.5)	Е	F(386.7)	F(161.1)	F(85.4)

Intersection	Move	2009 After No-Build	2009 PM No-Build	2009 SAT No-Build	2009 After Build	2009 PM Build	2009 SAT Build	2019 After No-Build	2019 PM No-Build	2019 SAT No-Build	2019 After Build	-2019 PM Build	2019 SAT Build
	EB LR	F(ERR)	E	В	В	В	В	F(ERR)	F(461.7)	C	C	C	В
SR 0611/	NB L	Е	Α	A	С	В	В	F(223.2)	В	В	D	C	С
SR 0314 (West Leg)	NB T	n/a	n/a	n/a	A	A	Α	n/a	n/a	n/a	A	Α	A
	SB TR	n/a	n/a	n/a	С	В	A	n/a	n/a	n/a	D	В	В
Overall Intersection		n/a	n/a	n/a	В	В	A	n/a	n/a	n/a	С	В	A

TABLE 1
LEVEL OF SERVICE COMPARISON
November 2006

Intersection	Move	2009 After No-Build	2009 PM No-Build	2009 SAT No-Build	2009 After Build	2009 PM Build	2009 SAT Build	2019 After No-Build	2019 PM No-Build	2019 SAT No-Build	2019 After Build	2019 PM Build	2019 SAT Build
<u> </u>	WB L	Е	С	С	D	D	D	F(128.9)	С	С	F(118.9)	D	D
	WB R	A	A	A	В	A	В	В	Α	A	Α	В	В
SR 0314 (East Leg)	NB TR	С	В	В	D	В	В	F(183.2)	F(131.6)	В	F(180.7)	С	В
on out (East Leg)	SB L	В	В	Α	С	С	A	В	В	A	D	D	В
	SB TR	A	A	Α	В	Α	A	В	A	Α	A	A	A
Overall Intersection		C	В	A	D	В	Α	F(107.8)	F(80.5)	В	F(104.1)	C	В

Intersection	Move	2009 After No-Build	2009 PM No-Build	2009 SAT No-Build	2009 After Build	2009 PM Build	2009 SAT Build	2019 After No-Build	2019 PM No-Build	2019 SAT No-Build	2019 After Build	2019 PM Build	2019 SAT Build
	EB L				D	D	E				D	D	Е
GD and M	EB R				A	A	Α				Α	Α	A
SR 0314/	NB L		\ /		С	С	C	_	\ /		С	С	С
Site Driveway A	NB T		\times		С	С	D		\sim		C	С	E
	SB T	/	/ \	_	С	С	С	_	/ \	_	С	С	C
	SB R				n/a	n/a	n/a				n/a	n/a	n/a
Overall Intersection					C	С	D				C	С	D

Intersection	Move	2009 After No-Build	2009 PM No-Build	2009 SAT No-Build	2009 After Build	2009 PM Build	2009 SAT Build	2019 After No-Build	2019 PM No-Build	2019 SAT No-Build	2019 After Build	2019 PM Build	2019 SAT Build
	EB L				D	D	D				D	D	D
	EB LT				D	D	D				D	D	D
	EB R				A	A	A				A	Α	A
	WB LT		\ /		D	D	D	\	. ,	/	D	D	D
SR 0314/	WB R		\ /		Е	D	D		\ /		Е	D	D
Site Driveway B	NB L		X		С	C	D		\times		D	С	D
	NB TR		/ \		С	C	C				D	С	C
	SB L	/			В	A	В	/		\	В	A	В
	SB T				В	A	В				В	Α	В
	SB R				C	C	В				C	В	В
Overall Intersection					D	D	D				D	D	· D

PROJECT DESCRIPTION

Pocono Manor Investors L.P. proposes to construct a resort development to be known as Pocono Manor Resort & Casino. The site is ideally located on the southeast quadrant of the intersection of two major highways, Interstate 380 and State Route 940, in Tobyhanna Township, Monroe County. The proposed development will consist of a resort/casino with 8,000 slot machines, an 831,200 square foot multi-level indoor shopping/family entertainment center, a 50,000 square foot professional office building, and 475 residential condominiums/townhouses. In addition to the aforementioned, the resort/casino portion of the development includes the following amenities: hotel rooms/time share villas, pools, spas, convention/meeting rooms, restaurants, theater, retail shops, and a hospitality/gaming school. Access to the site will be provided via two high volume driveways and one medium volume driveway onto State Route 314 and from northbound I-380 via a proposed frontage road access. Enclosed in the back pocket of this report are conceptual roadway improvement plans illustrating the proposed site access. The project is anticipated to be completed by the end of 2009.

EXISTING ROADWAY CHARACTERISTICS

Following are descriptions of the major roadways in the vicinity of the site which are expected to carry site traffic to/from the proposed Pocono Manor Resort & Casino.

<u>Interstate 380</u> is a north-south roadway that borders the Pocono Manor Resort & Casino development to the west providing about 6,600 feet of frontage. The road is classified as an Urban Interstate. The I-380 Northbound Off Ramp onto SR 0940 is signalized with a two-phase operation while the Southbound Off Ramp is stop controlled. The Traffic Signal Permit Plan for the intersection of SR 0940 and the I-380 Northbound Off Ramp is located in **Appendix A**.

SR 0940 is a state maintained road with a primarily east-west orientation that borders the Pocono Manor Resort & Casino development to the north providing about 3,600 feet of frontage. It is classified an Urban Minor Arterial in the vicinity of the site frontage. SR 0940 has two through travel lanes in each direction with varying widths of shoulder and is posted with a speed limit of 45 miles-per-hour. At its intersection with Long Pond Road, it is signalized with a three-phase operation. The westbound approach of SR 0940 is provided an advance phase. Left turn lanes

are provided for both the eastbound and westbound approaches of SR 0940. At its intersection with Industrial Drive, it is signalized with a six-phase operation. Advance phases are provided for the westbound approach of SR 0940 and the northbound and southbound approaches of Industrial Drive. Eastbound left turns are prohibited at the intersection but are accommodated via a nearside jughandle. At its intersections with Oak Street SR 0940 is also signalized with a six-phase operation. The eastbound and westbound approaches of SR 0940 are provided advances and Oak Street is split-phased to accommodate the southbound dual left turn lanes. Through movements across Oak Street are prohibited. Traffic Signal Permit Plans for the aforementioned intersections are located in **Appendix A**.

SR 0611 is a north-south state-maintained road in the vicinity of the site. It is classified as a Central Rural Minor Arterial near the site. The road has two travel lanes in each direction with none to 10-foot shoulders and is posted with a speed limit of 45 miles-per-hour. At its intersection with SR 0940 and SR 0196 the intersection is signalized with a five-phase operation to accommodate the six legs of the intersection. Locally, this intersection is known as the 'Five Points' intersection. The Traffic Signal Permit Plan is located in **Appendix A**.

SR 0314 is a primarily a north-south state maintained road adjacent to the site. The road has one travel lane in each direction. West of SR 0611 the road has ten-foot lanes with four-foot shoulders with a speed limit of 40 miles-per-hour and east of SR 0611 the road has 12-foot lanes with no shoulders with a speed limit of 35 miles-per-hour. The west leg of SR 0314 at SR 0611 is stop controlled while the east leg is signalized with a three-phase operation. The southbound approach of SR 0314 is provided an advance phase. The Traffic Signal Permit Plan for the intersection of SR 0611 and SR 0314 is located in **Appendix A**. SR 0314 also intersects SR 0940 with a grade separate interchange. The SR 0940 Eastbound and Westbound Off Ramps onto SR 0314 are stop controlled.

PLANNED ROADWAY IMPROVEMENTS

The Borough of Mount Pocono currently has a project under design for the 'Five-Points' intersection of SR 0940/SR 0611/SR 0196/Driveway. Construction is expected to be completed by the end of 2006. **Appendix B** contains the proposed traffic signal layout and geometry for the intersection. Proposed additional lanes include:

- Northbound left turn lane from SR 0611 into the Driveway;
- Westbound right turn lane from SR 0940 onto Northbound SR 0611;
- Southbound right turn lane from SR 0196 onto Northbound SR 0611;
- Southbound SR 0611 right turn lane onto Westbound SR 0940; and
- Eastbound SR 0940 right turn lane onto Southbound SR 0611.

The Hirshland/Lowe's development located on SR 0940 east of Industrial Drive in Mount Pocono Borough proposes improvements to the intersection of SR 0940/Idustrial Drive. **Appendix B** contains the proposed traffic signal layout and geometry for the intersection. Proposed improvements include:

- Elimination of the 'jug handle';
- Dual left turn lanes eastbound on SR 0940;
- Right turn lane eastbound on SR 0940;
- Channelized right turn lane southbound on Industrial Drive;
- Dual left turn lanes southbound on Industrial Drive;
- Dual left turn lanes northbound on Industrial Drive; and,
- Signal phasing and timing adjustments.

All of the above listed improvements for the intersections of SR 0611/SR 0940/SR 0196 and SR 0940/Industrial Drive were assumed to be completed by 2010 and were included in both the nobuild analyses.

EXISTING TRAFFIC VOLUMES

Turning movement counts were taken during October 2005 at the following intersections:

- o SR 0940/Long Pond Road/Private Road
- o SR 0940/Southbound I-380 Ramps
- o SR 0940/Northbound I-380 Ramps
- o SR 0314/Westbound SR 0940 Ramps
- o SR 0314/Eastbound SR 0940 Ramps
- o SR 0940/Industrial Drive

- o SR 0940/Oak Street
- o SR 0940/SR 0611/SR 0196/Driveway
- o SR 0314 (West Leg)/SR 0611
- o SR 0314 (East Leg)/SR 0611

Turning movement counts were taken during September 2006 at the following intersections:

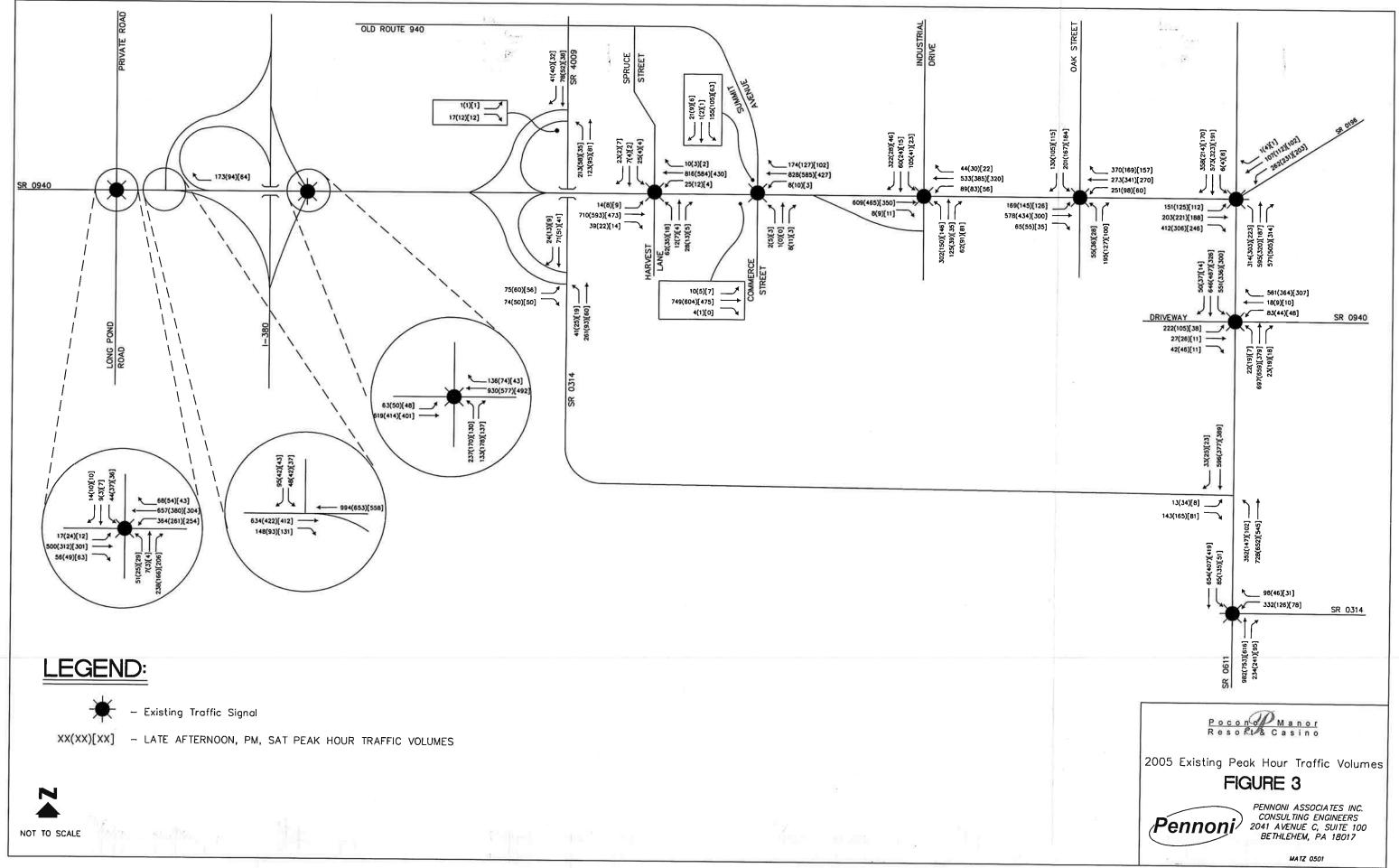
- o SR 0940/ Spruce Street/Harvest Lane
- o SR 0940/ Summit Avenue/Commerce Street

Given that the proposed development is a resort and casino, manual traffic turning movement counts were conducted for a Friday late afternoon peak period (4:00 PM to 6:00 PM – 'peak hour of adjacent street traffic'), a Friday evening peak period (6:00 PM to 8:00 PM - Casino peak) and a Saturday evening peak period (4:00 PM to 8:00 PM - Casino peak). The existing traffic volumes are illustrated in **Figure 3**. Volume data obtained from the manual turning movement counts are located in **Appendix C**.

The following table presents the Average Daily Traffic (ADT) for the major roadways in the vicinity of the site as obtained from the PENNDOT ITMS Website.

Road	ADT (vehicles per day)
I-380	22,000
SR 0940	20,000
SR 0314	3,500
SR 0611	14,500

Analysis and discussion of existing operations follow in the Operational Analysis section of the report.



CRASH HISTORY

Appendix D contains collision diagrams and crash data obtained from PENNDOT. As expected, the higher traffic volume intersections experience the higher rate of accidents. The proposed traffic signals at the intersections of SR 0940/Southbound I-380 Ramp and SR 0940/Eastbound SR 0940 Ramps should alleviate the angle accidents.

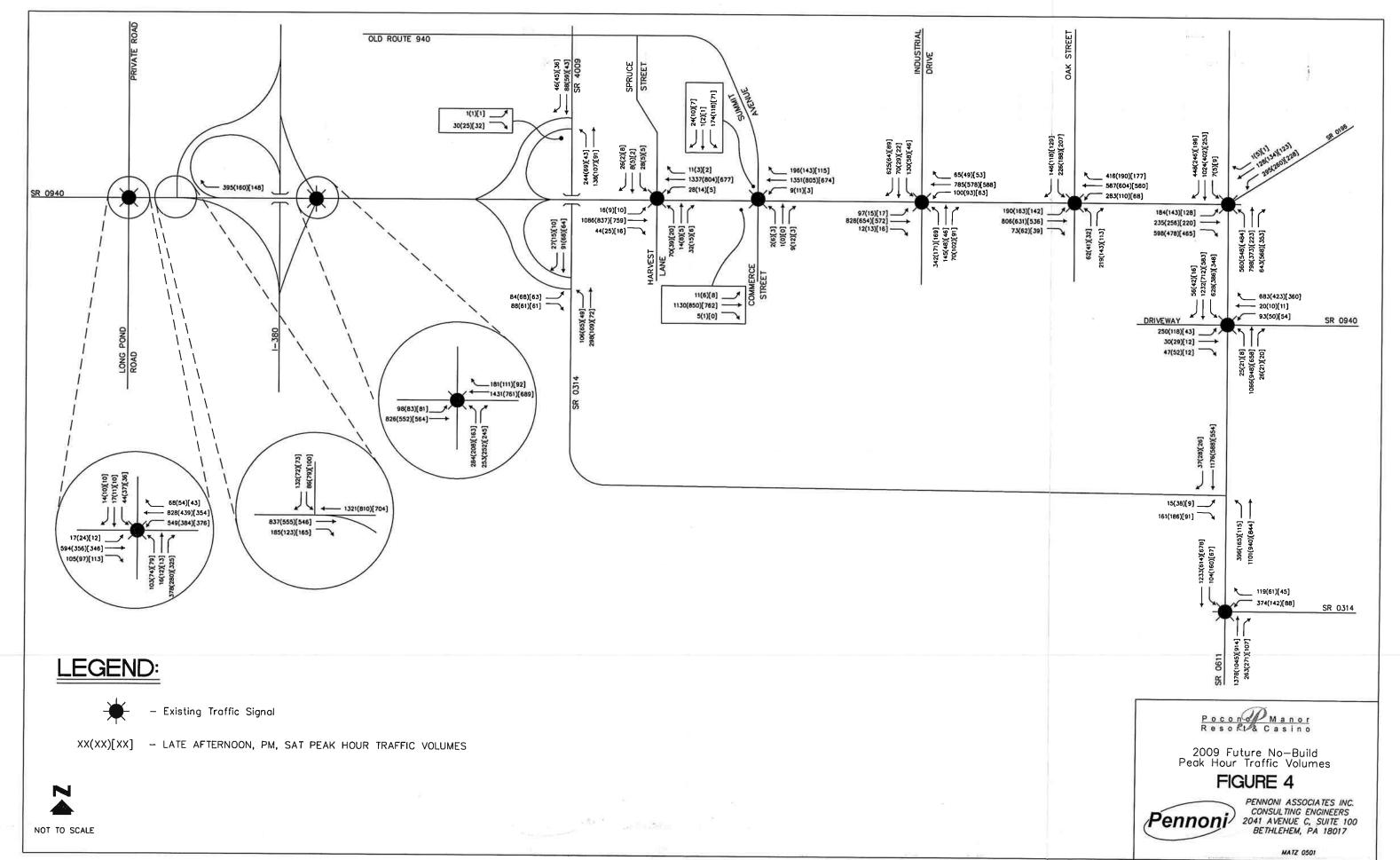
2009 NO-BUILD TRAFFIC VOLUMES

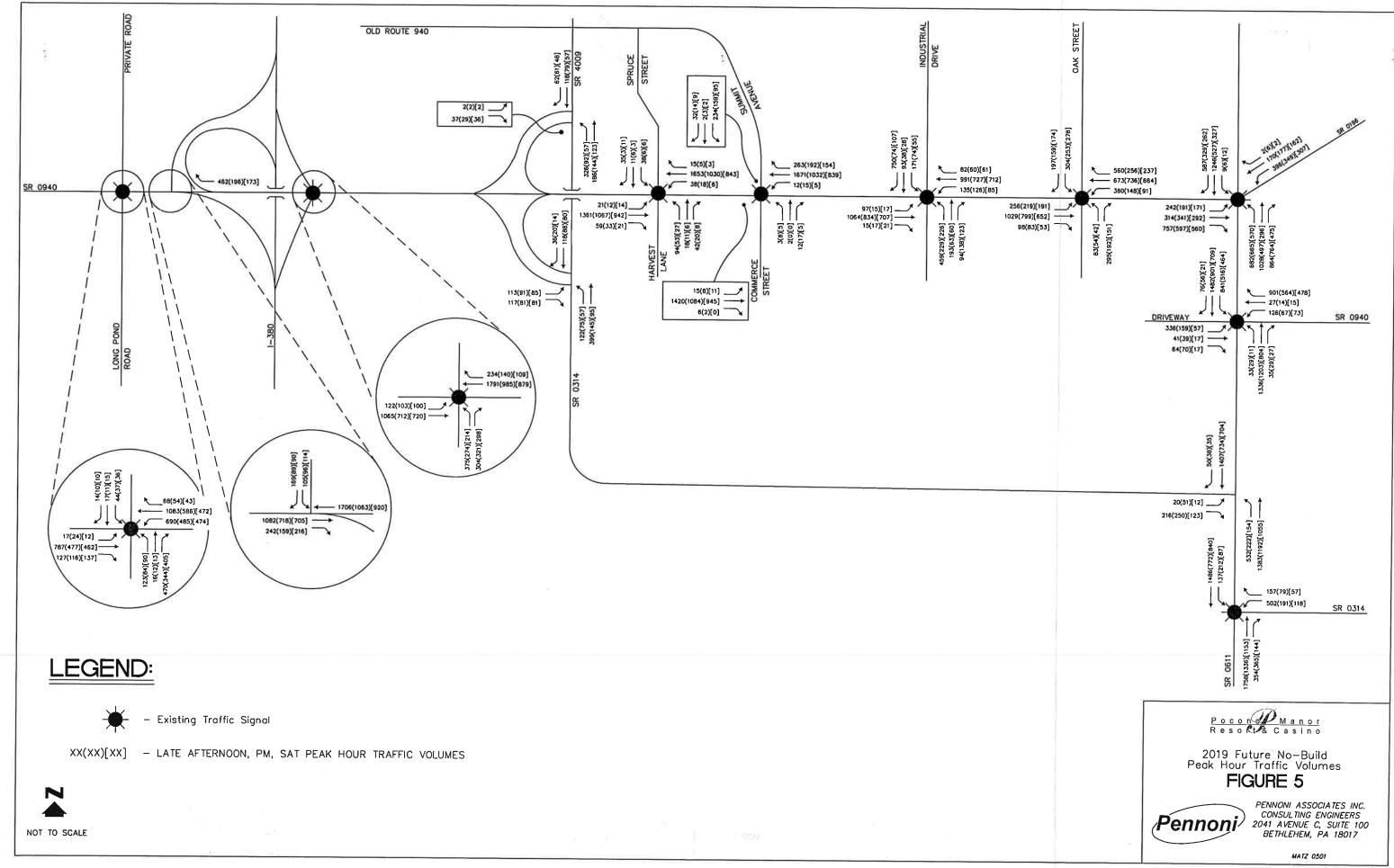
It is expected that the Pocono Manor Resort & Casino development will be fully constructed and operational by the end of 2009. Since the traffic counts were conducted in October 2005 and September 2006, a compounded growth rate of 3.0% was used to calculate future traffic for the opening design year. The 3.0% was obtained from the PENNDOT ITMS Website published population and traffic growth data for Monroe County and the specific roadway classifications. ITMS data can be found in **Appendix E**. **Figure A** in **Appendix E** illustrates the base 2009 traffic volumes.

Typically, in addition to the background growth rate used, traffic volumes from other approved developments in the immediate area should be included in the no-build traffic volumes. Three developments are included in these projects; Lowe's/Hirshland located on SR 0940 west of Industrial Drive; Arcadia located north of Industrial Drive and Hirshland Long Pond located on Long Pond Road south of SR 0940. **Figures C, D and E** in **Appendix E** illustrate site traffic for the aforementioned developments respectively. **Figure 4** illustrates the future 2009 no-build volumes (the summation of values on **Figures A, C, D, and E**).

2019 NO-BUILD TRAFFIC VOLUMES

A ten-year from opening year analysis is provided. A 3.0% compounded growth rate was used to project peak hour traffic volumes to 2019. **Figure B** in **Appendix E** illustrates the base 2019 traffic volumes. **Figure 5** illustrates the 2019 no-build peak hour volumes used in the analyses (the summation of **Figures B, C, D, and E**). Analysis and discussion of future no-build operations follow in the Operational Analysis section of the report.





TRIP GENERATION AND DISTRIBUTION

Trip Generation is the method of determining the amount of future traffic associated with a proposed land use. The Institute of Transportation Engineers' (ITE) Trip Generation, 7th Edition (2003), is the standard publication used to determine anticipated trips generated by a proposed site. Pocono Manor Investors L.P. proposes to construct a resort development to be known as Pocono Manor Resort & Casino. The proposed development will consist of a resort/casino with 8,000 slots machines, an 831,200 square foot multi-level indoor shopping/family entertainment center, a 50,000 square foot professional office building, and 475 condominiums/townhouses (golf villas). In addition to the aforementioned, the resort/casino portion of the development includes the following amenities: hotel rooms/time share villas, pools, spas, convention/meeting rooms, restaurants, theater, retail shops, and a hospitality/gaming school. The Trip Generation manual does not contain data for a resort/casino; however, the ITE Journal has presented data for resort/casino developments throughout the country. Appendix F contains copies of the documents presented by ITE. Trip generation for the Friday afternoon adjacent street traffic and the Friday and Saturday casino peak hour traffic are based on ITE article "Trip Generation Characteristics of Small & Medium Size Casinos" trip generation rates found in Tables 2 and 3 of that article. For the shopping/family entertainment center, ITE's 'shopping Center' land use code was assumed. According to ITE a shopping center "is an integrated group of commercial establishments that is planned, developed, owned and managed as a unit. Shopping centers, including neighborhood centers, community centers, regional centers and super regional centers, were surveyed for this land use. Some of these centers contained non-merchandising facilities such as office buildings, movie theaters, restaurants, post offices, banks, health clubs, and recreational facilities (for example, ice skating rinks or indoor miniature golf courses.) The centers ranged in size from 1,700 to 2.2 million square feet of gross leasable area (GLA)." To provide a conservative (highest volume) estimate, it was assumed that the outlying golf villas would generate traffic typical of a year round standard residential community. Table 2 provides a trip generation summary for the Pocono Manor Resort & Casino development.

TABLE 2: TRIP GENERATION SUMMARY

		•		Friday Late Afternoon			riday PN	M	Saturday PM			
	X		Total	Enter	Exit	Total	Enter	Exit	Total	Enter	Exit	
Casino	8000	slots	4720	2480	2240	5520	2880	2640	6240	3360	2880	
Shopping Center (LUC 820)	831.2	ksf	2533	1216	1317	2210	1143	1067	1514	417	1097	
General Office (LUC 710)	50	ksf	135	23	112	7	2	5	7	2	5	
Golf Villas (LUC 230)	475	units	216	145	71	105	64	41	105	64	41	
Total Trips			7604	3864	3740	7842	4089	3753	7866	3843	4023	

ITE suggests that retail-oriented developments, such as the shopping center portion of the Pocono Manor Casino & Resort, often attract a portion of their trips from traffic passing the site on the way from an origin to an ultimate destination. Diverted linked trips are defined by ITE as trips that are attracted from the traffic volume on roadways within the vicinity of the generator but that require a diversion from that roadway to another roadway to gain access to the site. These trips could travel on highways adjacent to a generator, but without access to the generator. Diverted linked trips add traffic to streets adjacent to a site, but may not add traffic to the areas major travel routes. Therefore, it was determined that a percentage of trips attracted to the shopping center would be diverted from I-380. Table 5.4 of the ITE Trip Generation Handbook reports pass-by and diverted linked trip data for Land Use 820 (Shopping Center) for the weekday afternoon peak period. In order to determine the percentage of diverted linked trips for the 831,200 square foot shopping center at the Pocono Manor Casino & Resort, an average was calculated of the diverted linked trip percentages of all shopping centers at least 500,000 square feet in size from ITE Trip Generation Handbook Table 5.4. The resulting average of 29% was utilized for the diverted linked trip percentage for the Friday afternoon peak hour for this study. For other time periods, ITE typically recommended utilizing a percentage 10% less than the weekday afternoon peak period. Therefore, a diverted linked trip percentage of 19% was applied for the Friday evening and Saturday evening time periods. The resulting reductions are shown in Table 3 below. These trips were distributed evenly to I-380 (Northbound and I-380

Southbound), as illustrated in **Figure 6C**. **Appendix F** contains copies of Table 5.4 presented by ITE, as well as a summary table containing only those shopping centers (at least 500,000 square feet) that were utilized to calculate the 29%.

TABLE 3: DIVERTED LINKED SHOPPING CENTER TRIPS

	1	riday La Afternooi		F	riday PN	1	Saturday PM			
	Total Enter Exit T		Total	Enter	Exit	Total	Enter	Exit		
Shopping Center (LUC										
820)	2533	1216	1317	2210	1143	1067	1514	417	1097	
Diverted Linked		<u>, </u>			-					
Percentages		29%			19%		19%			
Diverted Linked Trips	734	367	367	420	210	210	288	144	144	
Primary (Non-Diverted										
Linked) Trips	1799	849	950	1790	933	857	1226	273	953	

Given the nature of the development, an interaction reduction was applied to the raw trip generation estimates. Interaction is expected between the multi-level indoor shopping/family entertainment center (excluding the aforementioned diverted linked trips), the golf villas, the office building and the casino. The developer has stated that the office building will primarily serve residents of Pocono Manor who will have satellite offices in the proposed building. Internal capture rates for trips interacting between the shopping/family entertainment center, the golf villas and the office building were obtained from Tables 7.1 and 7.2 of the ITE Trip Generation Handbook and can be found in Appendix F. ITE does not provide data on interaction with a casino, so in order to be conservative, interaction between the casino and other amenities was assumed to be 20%. The internal capture worksheets, included in Appendix F, resulted in overall interaction reductions of 16%, 11% and 8% for the Friday afternoon, Friday evening and Saturday evening peak hours, respectively.

Furthermore, non-typical peak hours were studied as a result of the type of development. The casino is expected to peak during the evening peak period (6:00PM-7:00PM) on a Friday and on Saturday. To estimate trip generation for these non-typical peak hours, ITE was used for the shopping center component, the ITE resort/casino data was used for the resort/casino and the

"Columbia Chart" was used for the residential and office components. The "Columbia Chart" was developed by researchers at Columbia University and is based on counts conducted for specific land uses. These counts were then used to develop percentages of site traffic throughout a typical weekday. **Appendix F** includes a copy of this chart. All supporting documentation is in **Appendix F**. **Table 4** illustrates the total new trips anticipated to be generated by the Pocono Manor Resort & Casino development.

TABLE 4: POCONO MANOR RESORT & CASINO NEW TRIP GENERATION

		v		Friday Late Afternoon			riday PN	M.	Saturday PM			
	X		Total	Enter	Exit	Total	Enter	Exit	Total	Enter	Exit	
Casino	8000	slots	4290	2254	2036	5140	2700	2440	5972	3160	2812	
Shopping Center (LUC 820)	831.2	ksf	1332	624	708	1394	729	665	942	201	741	
General Office (LUC 710)	50	ksf	82	11	71	5	2	3	5	2	3	
Golf Villas (LUC 230)	475	units	88	69	19	47	30	17	47	30	17	
Total New Trips			7604	5792	2958	2834	6586	3461	3125	6966	3393	

Trips were then assigned to the study intersections by examination of current volume distributions; the roadway network; and the location of two major interstate highways, I-380 (north-south) and I-80 (east-west), in the vicinity of the site. Furthermore, it is expected that a regional resort/casino of this type, ideally situated along an interstate route, will have a website with directions. These directions will bring guests via the interstate highways. It is expected that visitors to the casino and golf villas will travel longer distances than shopping center patrons and office building employees. Therefore, taking into account all of the above, two gravity models were prepared utilizing 2005 census data for counties in Pennsylvania, New Jersey and New York.

On the "casino/golf villas" map in **Appendix G**, the counties that were considered for the gravity model for the casino/golf villas are outlined, and the competing casinos in the area are located. It

is assumed, based on data provided by the casino that 33% of the population will gamble. Furthermore, it is expected that gamblers with competing venues closer than Pocono Manor are much less likely to travel to Pocono Manor. Similar reductions in patrons to Pocono Manor were developed considering the number of competing venues approximately equidistant from a given county. These factors, the 'competing venue factors', were developed and assigned to the counties to present the most logical capturing of gamblers to the Pocono Manor Resort & Casino. The resulting patrons of the casino and golf villas of the Pocono Manor Resort & Casino were then assigned to the roadway network. **Appendix G** contains all of the casino/golf villas gravity model data and calculations. Therefore, it is expected that this traffic will arrive and depart the site via the following distribution:

- > 75% to/from the south on I-380
- > 15% to/from the north on I-380
- > 2% to/from the west on SR 0940
- > 3% to/from the east on SR 0940
- > 2% to/from the north on SR 0196
- > 3% to/from the south on SR 0611

Figure 6A illustrates the trip generation assignments for the casino and villas.

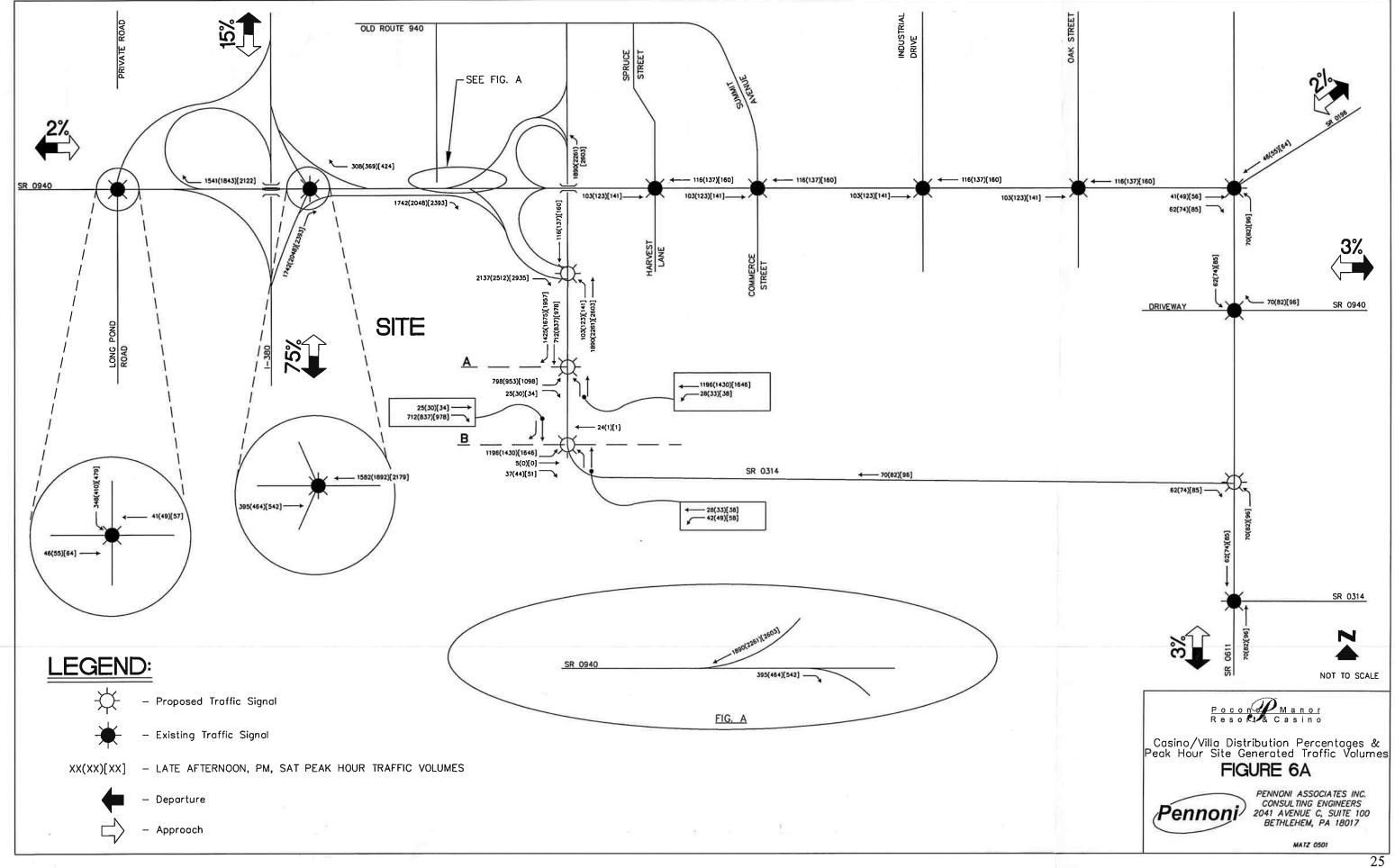
On the "shopping center/office" map in **Appendix G**, the counties that were considered for the gravity model for the shopping center/office building are outlined. This encompasses a smaller area than the casino/golf villas map, and there is no reduction to account for other shopping centers in the area. The distribution is based exclusively on distance from the Pocono Manor Casino & Resort. The resulting patrons of the shopping center and office building of the Pocono Manor Resort & Casino were then assigned to the roadway network. **Appendix G** contains all of the casino/golf villas gravity model data and calculations. Therefore, it is expected that this traffic will arrive and depart the site via the following distribution:

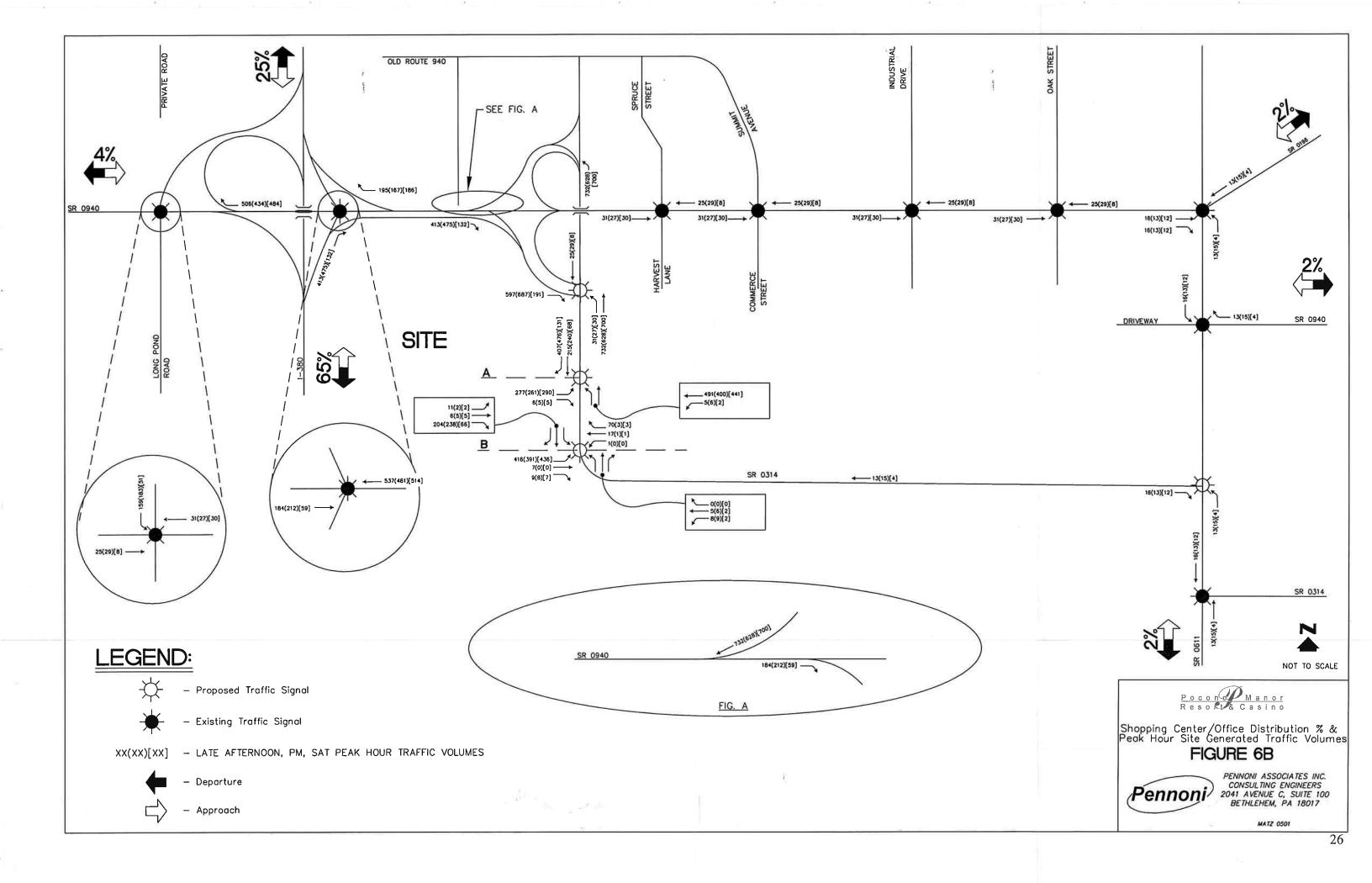
- > 65% to/from the south on I-380
- > 25% to/from the north on I-380
- > 4% to/from the west on SR 0940
- > 2% to/from the east on SR 0940
- > 2% to/from the north on SR 0196
- > 2% to/from the south on SR 0611

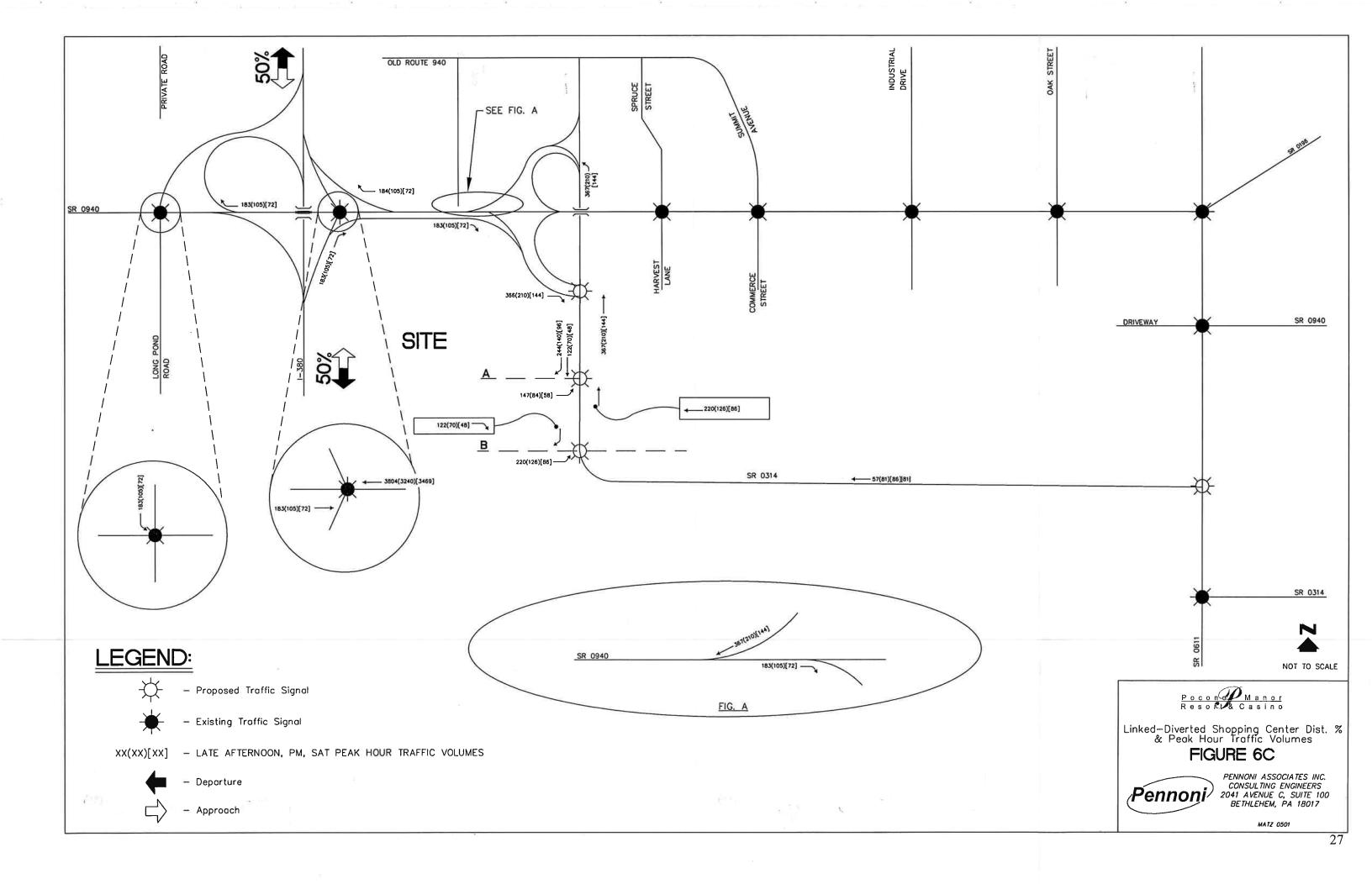
Figure 6B illustrates the trip generation assignments for the casino and villas.

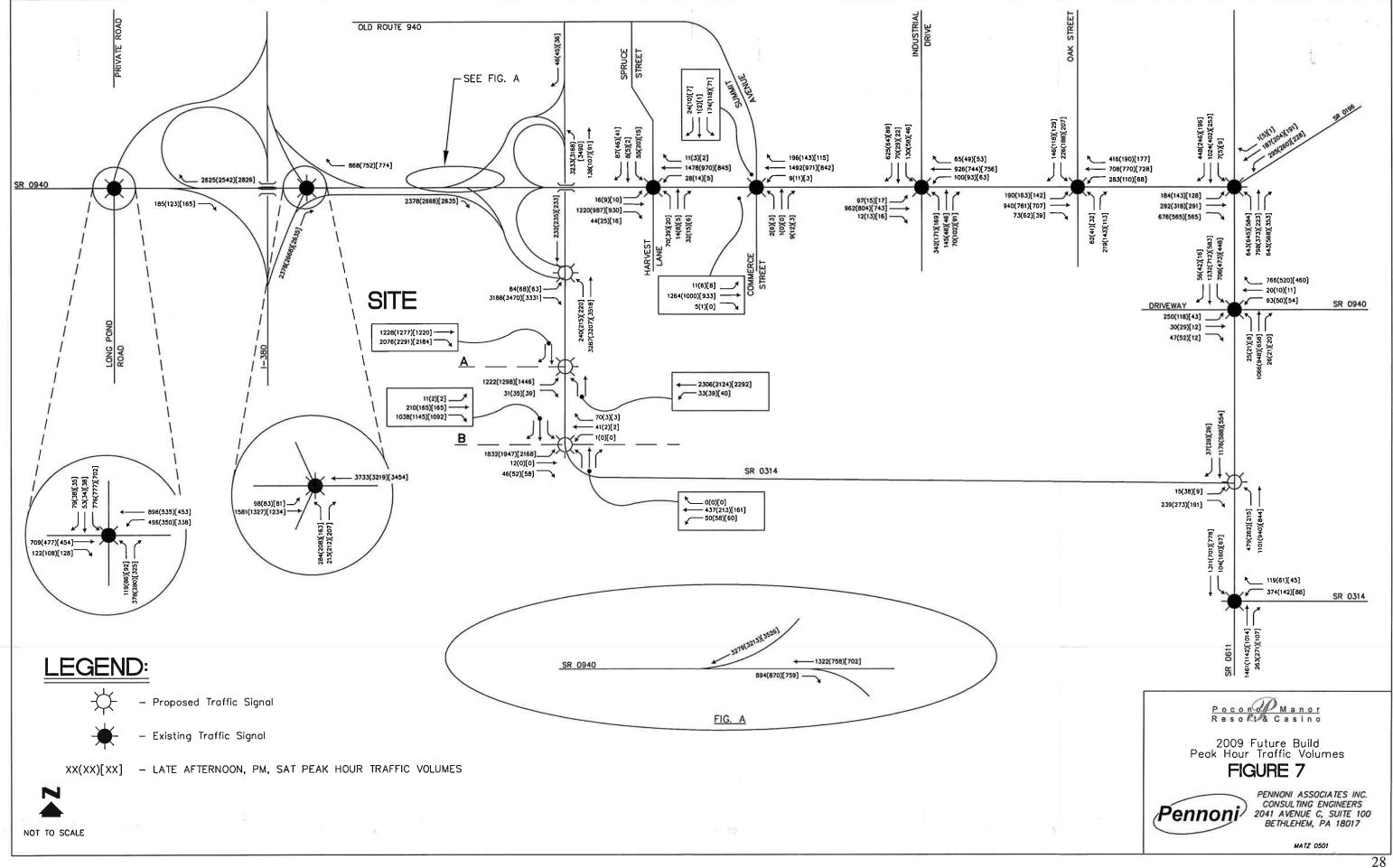
2009 and 2019 BUILD TRAFFIC VOLUMES

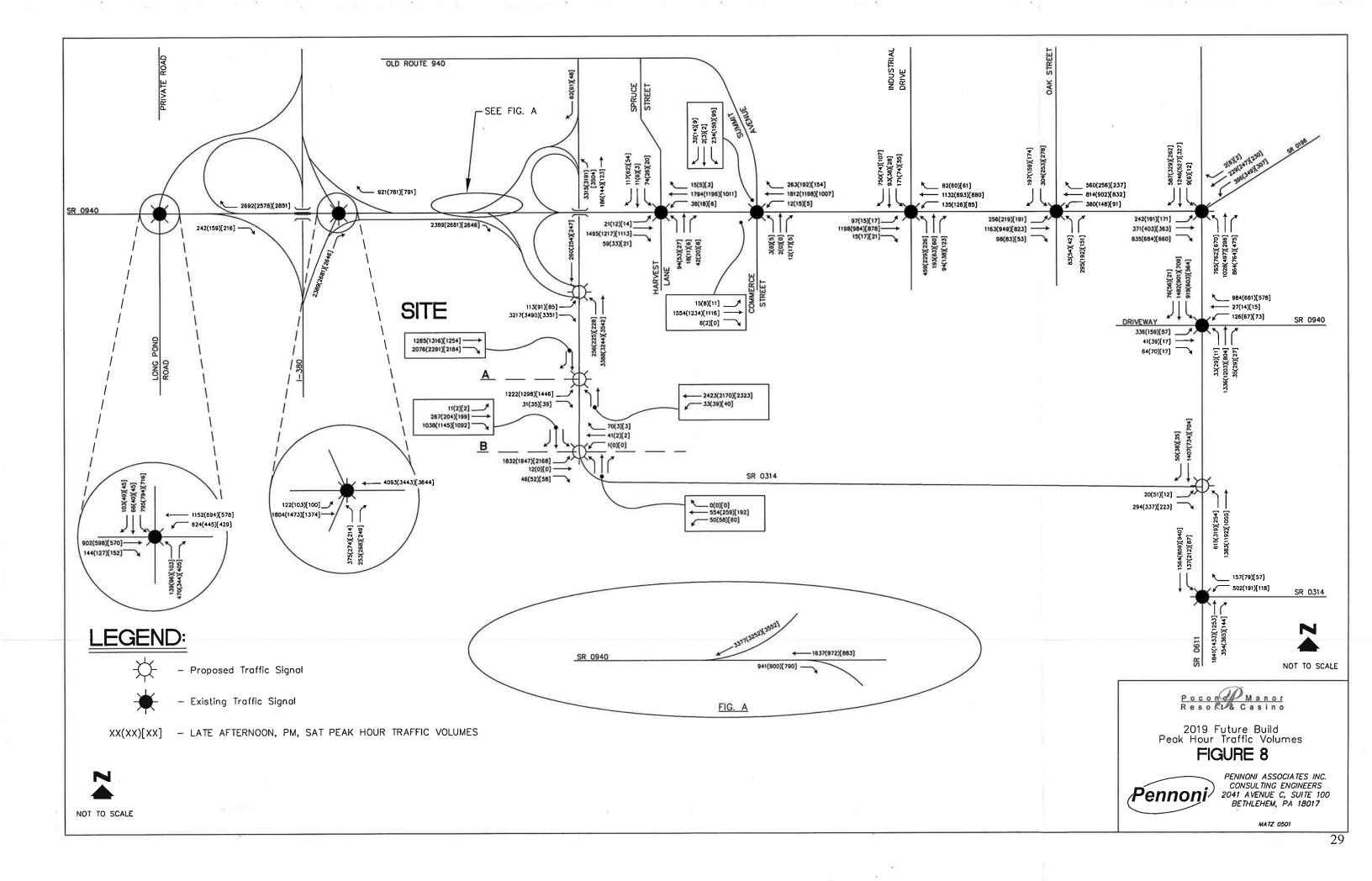
Future 2009 build volumes are shown in Figure 7 (the summation of values on Figures 4, 6A, 6B and 6C) and 2019 build volumes are shown in Figure 8 (the summation of values on Figures 5, 6A, 6B and 6C). Build volumes were derived by adding the site generated traffic volumes to the no-build traffic volumes for the respective design years. Given the extent of the roadway improvements recommended, traffic volumes had to be redistributed to account for the relocation of the I-380 Southbound Ramp opposite Long Pond Road and the eliminating of the SR 0314 southbound movement at the westbound SR 0940 Ramps. Traffic volume spread sheets are located in Appendix H.











OPERATIONAL ANALYSIS

Operations were evaluated at the study intersections. The analyses were performed in accordance with the procedures outlined in the <u>Highway Capacity Manual</u>, Special Report 209, published by the Transportation Research Board, Washington, D.C., using the latest version of the SYNCHRO software. The results of these analyses provide Level of Service, volume/capacity descriptions and average seconds of delay for the intersection movements.

Level of Service (LOS) is a terminology used by the Highway Capacity Manual for assignment and assessment of intersection operation. LOS designations between "A" and "F" are used; LOS A defines a very good operation with no congestion or delay, while LOS F defines a poor operation with substantial delay and congestion. The definitions of Levels of Service "A" through "F" for both signalized and unsignalized intersections are contained in **Appendix J**.

The analyses were conducted for three time periods; the Friday late afternoon street peak hour, the Friday evening casino peak hour and the Saturday evening casino peak hour. Figures 9 through 13 illustrate the levels of service for all study conditions. Summaries of all the capacity analyses results are included in Appendix K grouped by study intersection. Enclosed in the back pocket of this report are conceptual roadway improvement plans illustrating the proposed site access and recommended roadway improvements.

Following are operational characteristics for each of the study intersections.

SR 0940 and Long Pond Road/ Southbound I-380 Off Ramp

2005 Existing: At this four leg signalized intersection, all approaches operate at LOS D or better during all peak hours studied.

2009 No-Build: Without the proposed Pocono Manor Resort & Casino development, this intersection is expected to fail during the late afternoon peak hour even with signal timing optimization provided.

2019 No-Build: Without the proposed development, some approaches are expected to operate at LOS F during the late afternoon peak hour, specifically, the eastbound through movement, the northbound approach and the westbound left turn movement.

2009 Build: Upon completion of the Pocono Manor Resort & Casino development, level of service drops are expected. In order to provide better traffic flow through the intersection and mitigate some of the existing as well as future level of service deficiencies, extensive roadway improvements are proposed. The improvements include:

- Relocate the ramp to align opposite Long Pond Road and relocate the Stillwater Lake Estates Access west of its existing location (Stillwater Lake Estates Property Owners Association is not opposed to relocation if access that accommodates their needs is provided elsewhere.) See enclose letter in **Appendix M**.
- ➤ Dual left turn lanes and a shared through/right turn lane for the Southbound I-380 Off Ramp
- Dual left turn lanes westbound from SR 0940 to southbound Long Pond Road
- > Right turn lane and two through lanes eastbound on SR 0940
- > Dual left turn lanes and a right turn lane northbound on Long Pond Road

With the roadway improvements listed above, it is expected that all movements at the intersection will operate at levels of service D or better with the exception of the northbound left turns during the late afternoon which are expected to operate at level of service E.

2019 Build: As in the 2009 build scenario, with the recommended improvements levels of service are improved. It is expected that all movements at the intersection will operate at levels of service D or better with the exception of the northbound left turns and the westbound left turns during the late afternoon which are expected to operate at level of service E.

SR 0940 and Southbound I-380 Off Ramps

2005 Existing: The off ramp currently operates at LOS F during the late afternoon peak hour. This intersection currently meets PENNDOT Publication 201, <u>Traffic and Engineering Studies</u> guideline for signalization based on peak hour traffic volumes (**Appendix I**).

2009 No-Build: Without the proposed Pocono Manor Resort & Casino development, the off ramp is expected to operate at LOS F during all three peak hours analyzed.

2019 No-Build: As in 2009, without the proposed development, the off ramp is expected to continue operate at LOS F.

2009 Build: With the proposed Pocono Manor Resort & Casino development, the off ramp would continue to operate at LOS F if nothing is done. To provide better traffic flow to the area, it is proposed to realign the Southbound I-380 Off Ramp opposite Long Pond Road and relocate the Private Road further west on SR 0940.

2019 Build: With the addition of the proposed Pocono Manor Resort & Casino site generated traffic, the intersection is expected to continue to operate with deficient levels of service. As previously stated, to provide better traffic flow to the area, it is proposed to realign the Southbound I-380 Off Ramp opposite Long Pond Road and relocate the Private Road further west on SR 0940.

SR 0940 and Northbound I-380 Ramps

2005 Existing: This signalized intersection's northbound approach currently operates at LOS D during the PM peak hour. All other movements operate at LOS C or better during all peak hours analyzed.

2009 No-Build: Without the development and signal optimization, all movements are expected to operate at LOS D or better during all peak hours analyzed.

2019 No-Build: As in 2009, without the proposed development and signal optimization, all movements are expected to operate at LOS D or better during all peak hours analyzed with the exception of the eastbound and northbound approaches during the late afternoon peak hour.

2009 Build: With the proposed Pocono Manor Resort & Casino development, the off ramp is expected to operate at LOS F. To provide better levels of service and improve traffic flow in the

area, it is proposed to enhance the Northbound I-380 Off Ramp to provide a frontage road directly to SR 0314. Other roadway improvements proposed include:

- Four through lanes westbound on SR 0940
- Left turn lane and two through lanes eastbound on SR 0940
- ➤ Dual left turn lanes on the Northbound I-380 Off Ramp

By providing these improvements, as well as optimizing signal phasing and timing, levels of service are expected to be D or better during all three peak hours analyzed.

2019 Build: As in 2009, providing the recommended improvements will improve levels of service to D or better with the exception of the late afternoon peak hour which is expected to experience levels of service E.

SR 0314 and Westbound 0940 Ramps

2005 Existing: This unsignalized intersection currently operates at LOS A during all peak hours analyzed.

2009 No-Build: Without the proposed Pocono Manor Resort & Casino development, this unsignalized intersection is expected to continue to operate at LOS A or better during all peak hours analyzed.

2019 No-Build: Without the proposed Pocono Manor Resort & Casino development, this unsignalized intersection is expected to operate at LOS B or better during all peak hours analyzed.

2009 Build: With the proposed Pocono Manor Resort & Casino development, the Westbound SR 0940 Off Ramp is expected to operate at LOS F. To mitigate the level of service drops, it is proposed to eliminate the southbound through movement to provide free flow conditions to/from the ramps. The eliminated movement can be accommodated via the adjacent SR 0940 intersection of Spruce Street/Harvest Lane.

2019 Build: As in 2009, with the recommended improvements free flow conditions will exist.

SR 0314 and Eastbound 0940 Ramps

2005 Existing: This unsignalized intersection currently operates at LOS B or better during all peak hours analyzed.

2009 No-Build: Without the proposed Pocono Manor Resort & Casino development, this unsignalized intersection is expected to continue to operate at LOS B or better during all peak hours analyzed.

2019 No-Build: Without the proposed Pocono Manor Resort & Casino development, this unsignalized intersection is expected to continue to operate at LOS C or better during all peak hours analyzed.

2009 Build: With the proposed Pocono Manor Resort & Casino development, it is proposed to provide triple right turn lanes and a left turn lane off the ramp. It is also proposed to provide a northbound left turn lane and three through lanes northbound with signalization (Peak Hour Signal Warrant investigation is located in Appendix I). With these improvements, all levels of service are expected to be B or better with the exception of the left turn movement off the ramp which is expected to operate at level of service D during all peak hours analyzed. It should be noted that the Township requested that the left turns off the ramp should not be eliminated.

2019 Build: With the proposed improvements to the intersection, all levels of service are expected to be C or better with the exception of the left turn movement off the ramp which is expected to operate at level of service D during all peak hours analyzed.

SR 0940 and Spruce Street/Harvest Lane

2005 Existing: This signalized intersection currently operates at LOS C or better during all peak hours analyzed.

2009 No-Build: Without the proposed casino and signal optimization, this intersection is expected to operate at LOS D or better during all peak hours analyzed.

2019 No-Build: Without the proposed casino and signal optimization, this intersection is expected to operate at LOS E or better during all peak hours analyzed with the exception of the westbound through movement which is expected to operate at LOS F during the late afternoon peak hour.

2009 Build: With the proposed casino and signal optimization, this intersection is expected to continue to operate at LOS D or better during all peak hours analyzed with the exception of the northbound approach which is expected to operate at level of service E during the late afternoon peak hour.

2019 Build: With the proposed casino and signal optimization, this intersection is expected to continue to operate at LOS D or better during all peak hours analyzed with the exception of the northbound approach which is expected to operate at level of service E and the westbound approach which is expected to operate at level of service F during the late afternoon peak hour.

SR 0940 and Summit Avenue/Commerce Street

2005 Existing: This signalized intersection currently operates at LOS D or better during all peak hours analyzed.

2009 No-Build: Without the proposed casino and signal optimization, this intersection is expected to operate at LOS D or better during all peak hours analyzed with the exception of the westbound and southbound approaches which are expected to fail.

2019 No-Build: Without the proposed casino and signal optimization, this intersection is expected to operate at LOS E or better during all peak hours analyzed with the exception of the westbound through movement and southbound approach which are expected to fail.

2009 Build: With the proposed casino and signal optimization, this intersection is expected to continue to operate at LOS D or better during all peak hours analyzed with the exception of the westbound and southbound approaches which are expected to fail.

2019 Build: With the proposed casino and signal optimization, this intersection is expected to operate at LOS E or better during all peak hours analyzed with the exception of the westbound and southbound approaches which are expected to fail.

SR 0940 and Industrial Drive

2005 Existing: This signalized intersection currently operates at LOS C or better during all peak hours analyzed, with the exception of the northbound left turn movement during the late afternoon peak hour which operates at LOS E.

2009 No-Build: Without the proposed Pocono Manor Resort & Casino development and the roadway improvements recommended by other developments as listed earlier in this report, this intersection is expected to operate at LOS D or better during all peak hours analyzed.

2019 No-Build: Without the proposed Pocono Manor Resort & Casino development and signal optimization, this intersection is expected to operate at LOS E or better during all peak hours analyzed with the exception of the westbound left turn movement during the late afternoon peak hour which is expected to fail.

2009 Build: With the proposed Pocono Manor Resort & Casino development and signal optimization, this intersection is expected to continue to operate at LOS D or better during all peak hours analyzed.

2019 Build: Without the proposed Pocono Manor Resort & Casino development and signal optimization, this intersection is expected to continue to operate at LOS E or better during all peak hours analyzed.

SR 0940 and Oak Street

2005 Existing: This signalized intersection currently operates at LOS D or better during all peak hours analyzed.

2009 No-Build: Without the proposed Pocono Manor Resort & Casino development and signal optimization, this intersection is expected to operate at LOS E or better during all peak hours analyzed.

2019 No-Build: Without the proposed Pocono Manor Resort & Casino development and signal optimization, this intersection is expected to operate at LOS E or better during all peak hours analyzed.

2009 Build: With the proposed Pocono Manor Resort & Casino development and signal optimization, this intersection is expected to continue to operate at LOS E or better during all peak hours analyzed.

2019 Build: As in 2009, without the proposed Pocono Manor Resort & Casino development and signal optimization, this intersection is expected to continue to operate at LOS E or better during all peak hours analyzed.

SR 0940/SR 0611/SR 0196 and Driveway

2005 Existing: This signalized intersection currently operates at LOS F during all peak hours analyzed.

2009 No-Build: Without the proposed Pocono Manor Resort & Casino development and the geometric/signal improvements mentioned under the Planned Roadway Improvements section of this report, this intersection is expected to improve in its operation; however, LOS F are still expected for some movements.

2019 No-Build: As in 2009, without the proposed Pocono Manor Resort & Casino development and the geometric/signal improvements mentioned under the Planned Roadway Improvements section of this report, this intersection is expected to improve in its operation; however, LOS F are still expected for some movements.

2009 Build: With the proposed Pocono Manor Resort & Casino development, this intersection is expected to continue to operate with some movements at LOS F. With the additional site traffic added to this intersection, even though it is 100 directional trips or less, some level of service drops are expected. It is proposed that a fair share contribution be made for the construction of additional lanes on SR 0611 at this intersection.

2019 Build: As in 2009, with the proposed Pocono Manor Resort & Casino development, this intersection is expected to continue to operate with some movements at LOS F. It is proposed that a fair share contribution be made for the construction of additional lanes on SR 0611 at this intersection.

SR 0611 and SR 0314 (West Leg)

2005 Existing: This unsignalized intersection currently operates at LOS D during the late afternoon peak hour. This intersection currently meets PENNDOT Publication 201, <u>Traffic and Engineering Studies</u> guideline for signalization based on peak hour traffic volumes.

2009 No-Build: Without the proposed Pocono Manor Resort & Casino development, this unsignalized intersection is expected to operate at LOS F during the late afternoon peak hour.

2019 No-Build: Without the proposed Pocono Manor Resort & Casino development, this unsignalized intersection is expected to continue to operate at LOS F during the late afternoon and PM peak hours.

2009 Build: With the proposed Pocono Manor Resort & Casino development, this unsignalized intersection is expected to continue to operate at LOS F. It is proposed to signalize this

intersection to mitigate some of the levels of service drops and improve traffic flows in the area (Peak Hour Signal Warrant investigation is located in **Appendix I**).

2019 Build: As in 2009, with the proposed Pocono Manor Resort & Casino development, this unsignalized intersection is expected to continue to operate at LOS F. It is proposed to signalize this intersection to mitigate some of the levels of service drops and improve traffic flows in the area.

SR 0611 and SR 0314 (East Leg)

2005 Existing: This signalized intersection currently operates at LOS C or better during all peak hours analyzed.

2009 No-Build: Without the proposed Pocono Manor Resort & Casino development and signal optimization, this intersection is expected to operate at LOS C or better during all peak hours analyzed with the exception of the westbound left turn movement which is expected to operate at LOS E during the late afternoon peak hour.

2019 No-Build: Without the proposed Pocono Manor Resort & Casino development and signal optimization, this intersection is expected to operate at LOS C or better during all peak hours analyzed with the exception of the westbound left turn movement and the northbound approach during the late afternoon peak hour.

2009 Build: With the proposed Pocono Manor Resort & Casino development and signal optimization, this intersection is expected to operate at LOS D or better during all peak hours analyzed. Mitigation is not completely obtained, therefore, a fair share contribution to the affected municipality is proposed for future roadway improvements.

2019 Build: As in 2009, with the proposed Pocono Manor Resort & Casino development and signal optimization, mitigation is not completely obtained with the recommended improvements, therefore, a fair share contribution to the affected municipality is proposed for future roadway improvements.

SR 0940 and Site Driveway A

2009 Build: Upon completion of the Pocono Manor Resort & Casino development, the site driveway is expected to operate at LOS D or better during all peak hours analyzed with the exception of the left turns from the driveway which is expected to operate at level of service E during the Saturday evening peak hour. It is proposed to provide dual left turn lanes and a right turn lane out of the site and exclusive dual right turn lanes and a left turn lane into the site. Two through lanes southbound and three through lanes northbound are proposed on SR 0314. Peak Hour Signal Warrant investigation is located in Appendix I.

2019 Build: With the configuration mentioned above, the site driveway is expected to operate at LOS D or better during all peak hours analyzed with the exception of the left turns from the driveway and the northbound through movement which are expected to operate at level of service E during the Saturday evening peak.

SR 0940 and Site Driveways B

2009 Build: Upon completion of the Pocono Manor Resort & Casino development, the site driveway is expected to operate at LOS D or better during all peak hours analyzed with the exception of the right turns from the westbound site driveway which is expected to operate at level of service E during the late afternoon peak hour. It is proposed to provide an exclusive left turn lane, a shared left-through lane and a right turn lane out and exclusive right and left turn lanes into the resort/casino section of the site. Opposite the resort/casino driveway will be the professional office driveway. This driveway is proposed to have a shared left/through lane and a right turn lane. Two through lanes in each direction are proposed for SR 0314. Peak Hour Signal Warrant investigation is located in Appendix I.

2019 Build: With the configuration mentioned above, the site driveways are expected to operate at levels of service D or better with the exception of the westbound right turns from the office driveway which is expected to operate at level of service E during the late afternoon peak hour during all peak hours analyzed.

I-380/SR 0940 MERGE/DIVERGE ANALYSES

Operations were evaluated for the entrance and exit ramps at the I-380/SR 0940 interchange. The analyses were performed in accordance with the procedures outlined in the <u>Highway Capacity Manual</u>, Special Report 209, published by the Transportation Research Board, Washington, D.C., using the Highway Capacity Software. The results of these analyses provide Level of Service and volume/capacity descriptions for the ramp influence areas. The influence areas consist of 1,500 feet including the acceleration or deceleration lane(s) and the two lanes of I-380.

The analyses were conducted on both the 2009 and 2019 Build conditions for three time periods: the Friday late afternoon street peak hour, the Friday evening casino peak hour and the Saturday evening casino peak hour. Volume calculations, HCS worksheets and a summary of all the capacity analyses results are included in **Appendix L**.

As can be seen, all ramp junctions with I-380 are expected to operate at LOS C or better with the exception of the 2019 Saturday conditions at the Southbound I-380 On Ramp from Westbound SR 0940 which will operate at LOS D.

QUEUES

Table 5 summarizes the no-build and build queues for 2019. As can be seen there are a few instances where build queues exceed no-build queues and exceed the storage length available.

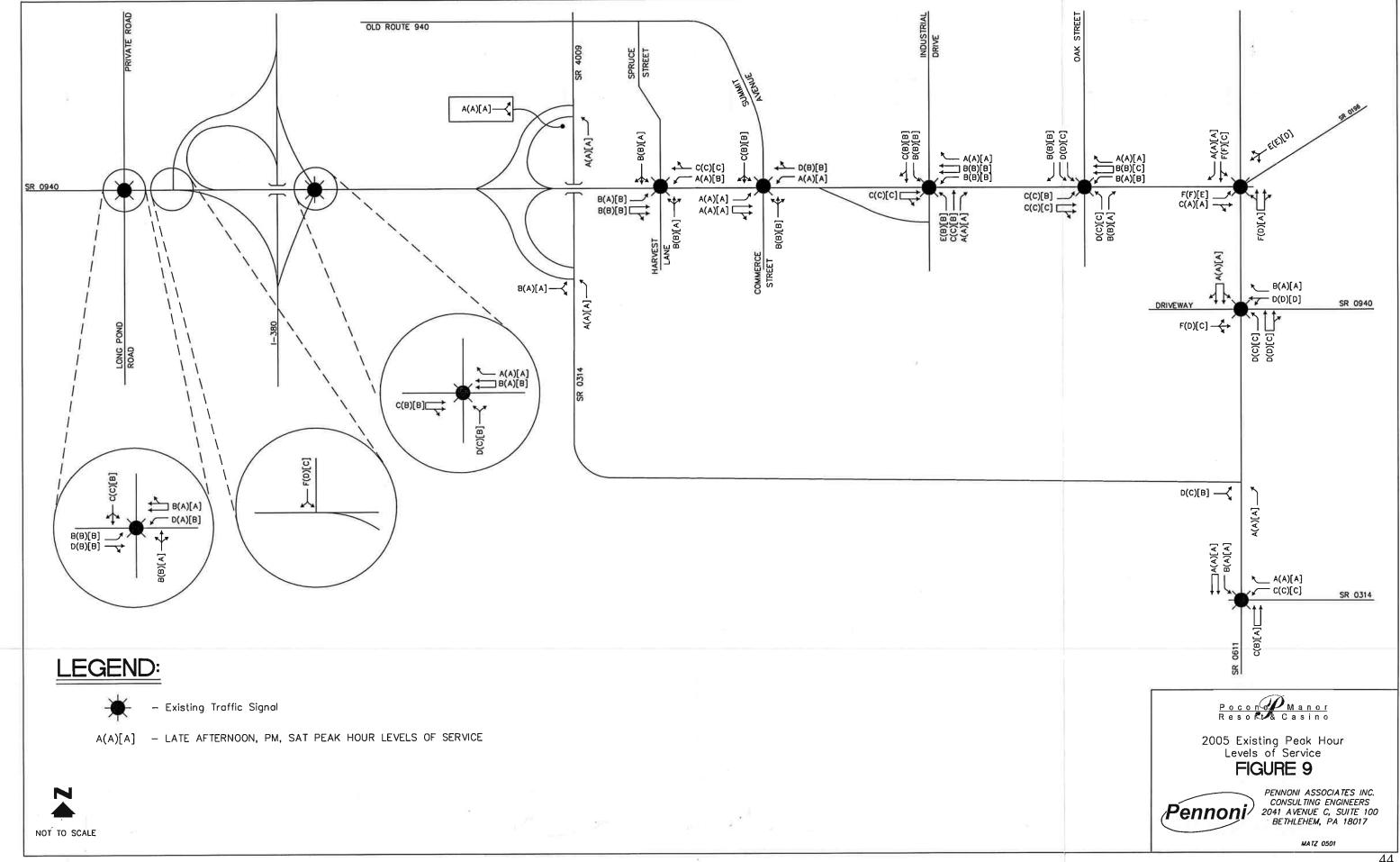
TABLE 5 - QUEUE LENGTH SUMMARY

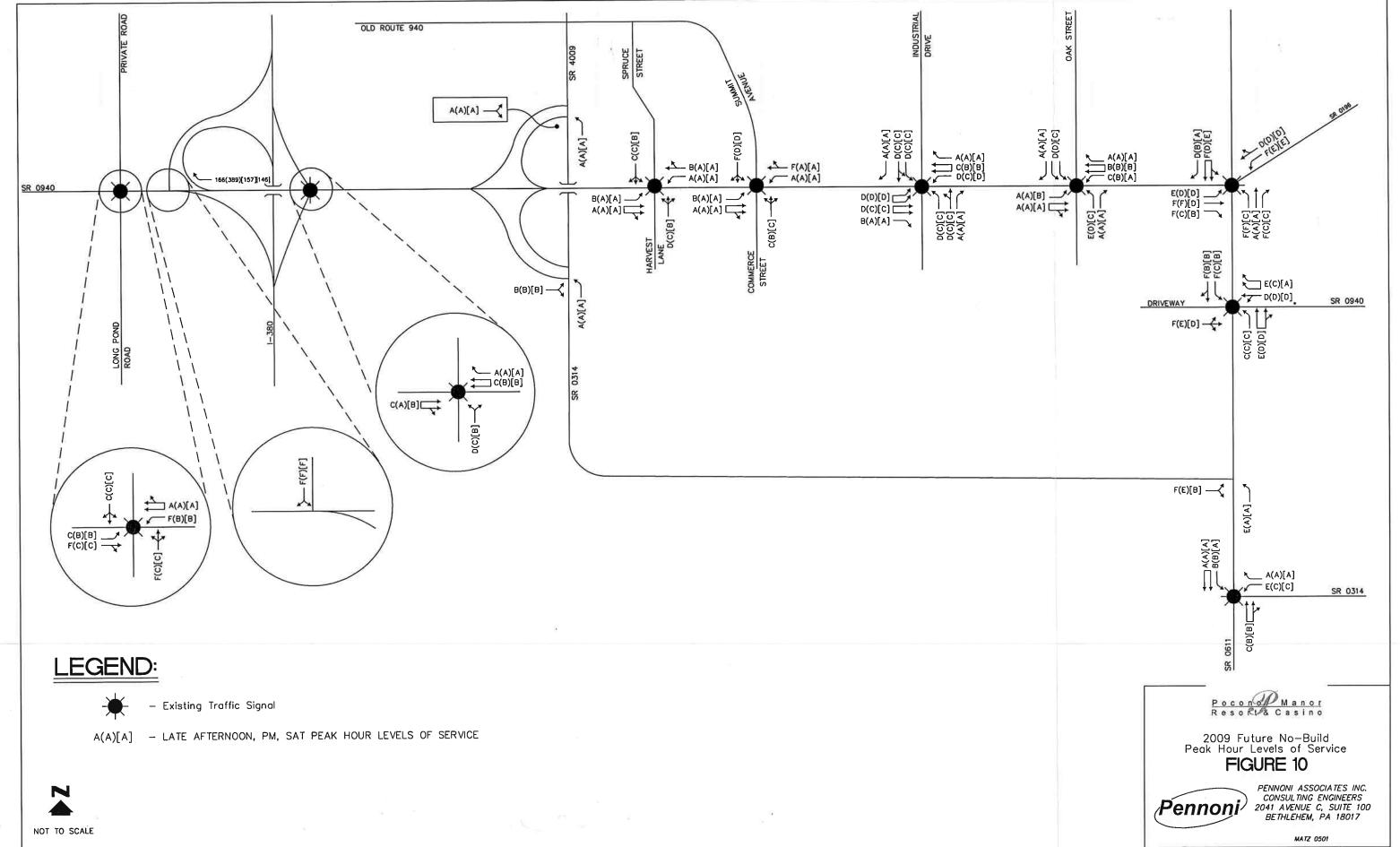
		Existing/	2019	2019	2019			
Intersection	Auxiliary Lane	Proposed Storage Length (feet)	After No- Build (feet)	PM No- Build (feet)	SAT No- Build (feet)	2019 After Build (feet)	2019 PM Build (feet)	2019 SAT Build (feet)
	EB R	210	n/a	n/a	n/a	54	41	44
SR 0940/Long Pond	WB L	560	754	368	405	397	204	193
Road/ Relocated I-380 SB Off	NB L	225*	n/a	n/a	n/a	111	50	53
Ramp	SB L	425	n/a	n/a	n/a	417	272	244
_	SB TR	300	n/a	n/a	n/a	145	48	52
SR 0940/	NB L	450	n/a	n/a	n/a	227	118	89
I-380 Northbound Ramp	EB L	275	n/a	n/a	n/a	201	95	101
SR 0314/	NB L	185	n/a	n/a	n/a	123	113	103
SR 0940 EB Ramps	EB L	315	n/a	n/a	n/a	26	22	23
SR 0940/	EB L	100	10	7	3	14	11	ĨĨ
Spruce Street/Harvest Lane	WB L	250	6	0	0	7	0	1
SR 0940/Summit	EB L	75	6	0	0	8	1	0
Ave/Commerce St	WB L	75	1	1	0	1	1	0
	EB L	350	65	10	11	58	9	10
	EB R	350	8	8	18	8	4	12
	WB L	250	220	155	114	212	151	115
SR 0940/Industrial Drive	WB R	250	15	0	30	18	0	24
SK 0940/Industrial Drive	NB L	150	408	152	148	408	152	148
	NB R	150	0	0	0	0	0	0
	SB L	190	177	72	56	178	75	56
	SB R	190	0	0	0	0	0	0

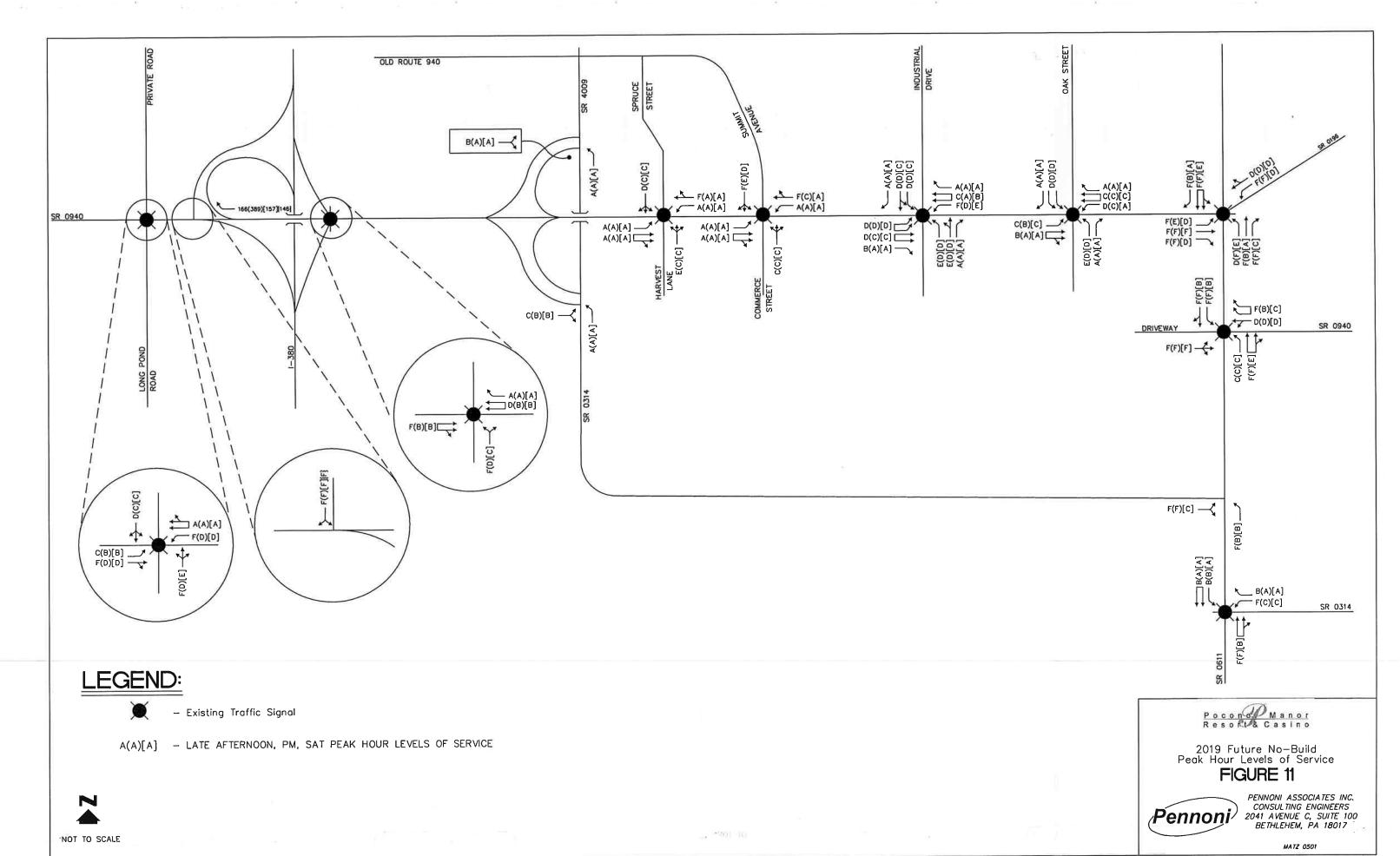
	T							
	EB L	235	147	71	152	142	116	153
	WB L	350	468	123	53	439	123	41
SR 0940/	WB R	350	0	0	0	0	0	0
Oak Street	NB L	90	116	73	61	148	73	62
	NB R	180	0	0	0	0	0	0
	SB L	150	175	120	129	173	120	152
	SB R	150	0	0	0	0	0	0
	EB L	330	322	252	211	332	252	211
	EB R	330	574	497	346	697	659	532
SR 0940/	WB R	75	201	222	194	302	342	272
SR 0611/SR 0196	NB L	260	409	467	463	342	655	650
	NB R	160	404	306	236	246	300	225
	SB R	100	423	190	83	640	190	83
SR 0940/	WB R	335	180	56	54	253	59	57
SR 0940/ SR 0611/Driveway	NB L	220	40	41	22	40	41	22
SX 0011/D11/Onay	SB L	260	233	272	254	259	325	315
SR 0611/	WB L	100	519	120	78	717	210	150
SR 0314 (East Leg)	SB L	300	77	126	28	154	200	52
SR 0314/	EB L	535**	n/a	n/a	n/a	523	552	686
Casino Driveway A	NB L	200	n/a	n/a	n/a	11	18	17
	EB L	350**	n/a	n/a	n/a	876	922	1063
GD 024 4/	EB LT	350**	n/a	n/a	n/a	890	923	1062
SR 0314/ Casino Driveway B	WB R	160	n/a	n/a	n/a	80	9	9
Caomo Dilivoray D	NB L	200	n/a	n/a	n/a	64	73	87
	SB L	115	n/a	n/a	n/a	5	1	1

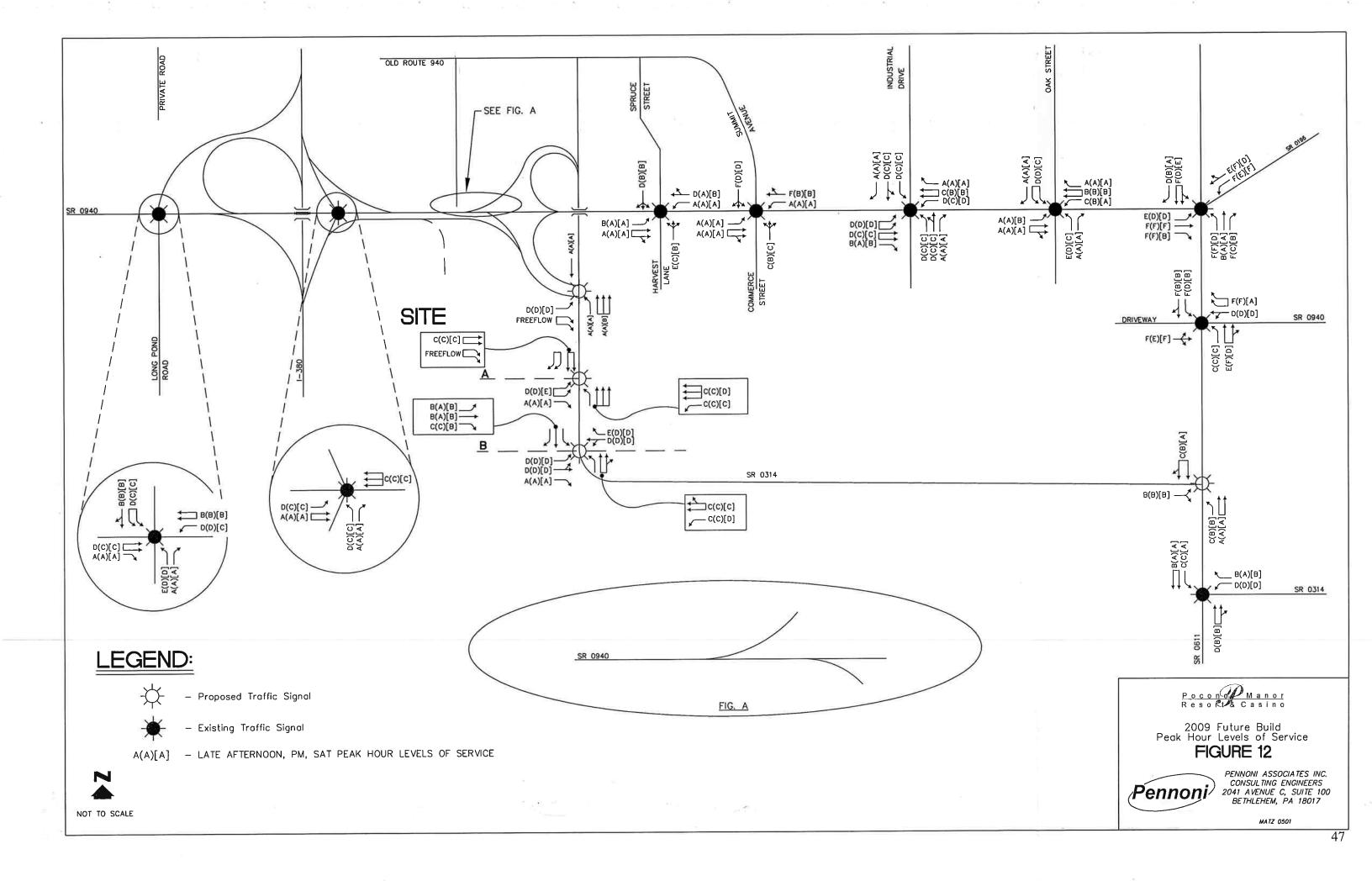
^{*} Length Shown is length of right turn lane. Left turn queue will not block the right turn lane. Actual length of left turn lanes is the length of the ramp.

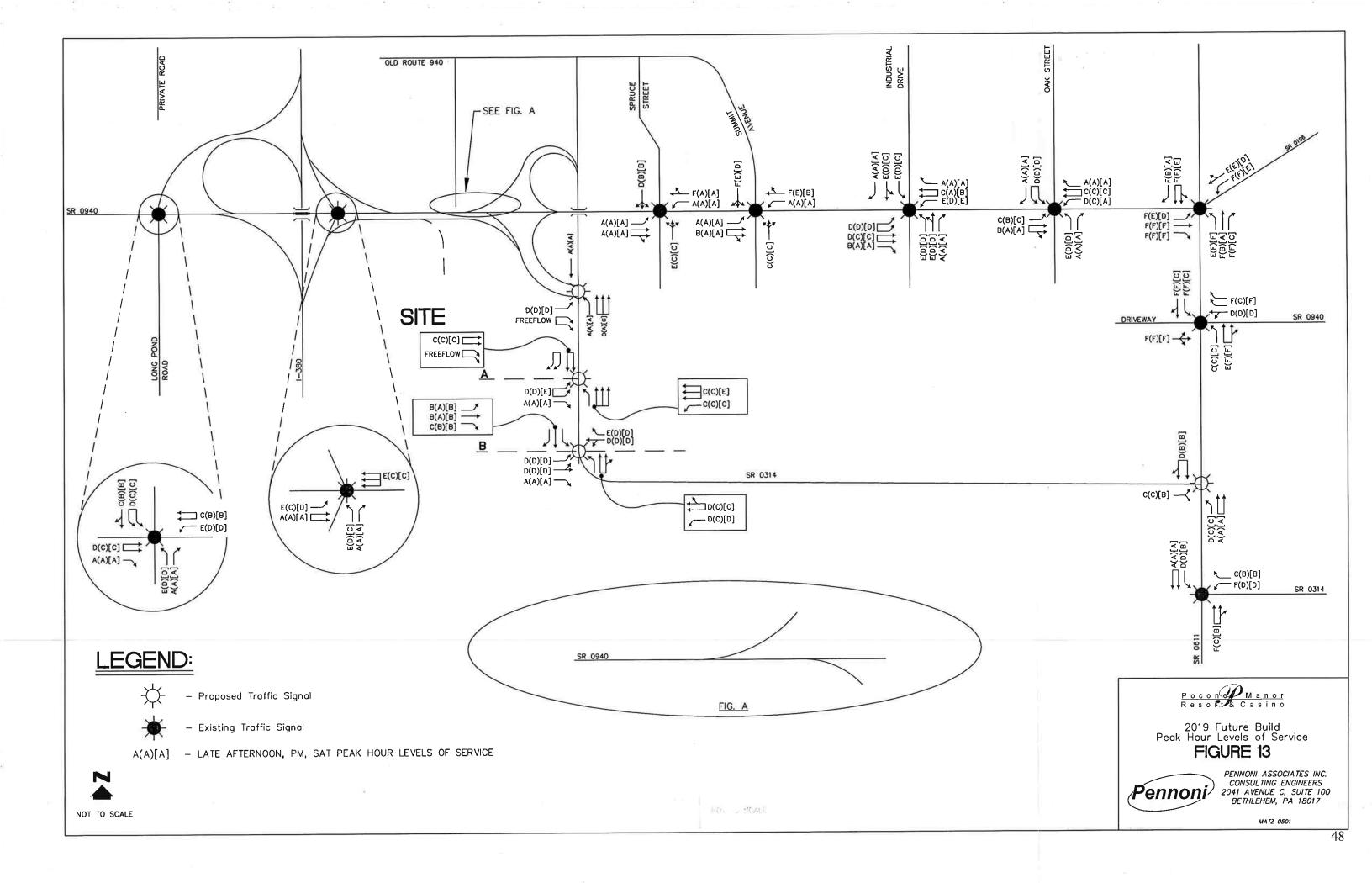
^{**} Length shown is to the end of the median. Actual length is the entire length of the internal loop road.











CONCLUSIONS

Trip Generation for the proposed development resulted in a total of 5,792 new trips for the Friday late afternoon peak hour; 6,586 new trips for the Friday evening peak hour; and 6,966 new trips for the Saturday evening peak hour. To accommodate the additional traffic to the area roadways, the following off site roadway improvements are recommended. Conceptual plans are enclosed in the back pocket of this report illustrating the recommended roadway improvements and site access.

SR 0940/ Long Pond Road /Southbound I-380 Off Ramp

- Relocate the ramp to align opposite Long Pond Road and relocate the Stillwater Lake Estates Access west of its existing location (Stillwater Lake Estates Property Owners Association is not opposed to relocation if access that accommodates their needs is provided elsewhere. See enclose letter in **Appendix M**.)
- Dual left turn lanes and a shared through/right turn lane for the Southbound I-380 Off Ramp
- > Dual left turn lanes westbound from SR 0940 to southbound Long Pond Road
- ➤ Right turn lane and two through lanes eastbound on SR 0940
- > Dual left turn lanes and a right turn lane northbound on Long Pond Road

SR 0940/Southbound I-380 On Ramp

- > Two ramp lanes
- ➤ Shift southbound I-380 to accommodate four lane section under SR 0940 bridge

SR 0940/Northbound I-380 Off Ramp

- ➤ Four through lanes on westbound SR 0940
- ➤ Dual left turn lanes on northbound I-380 Off Ramp
- Left turn lane eastbound on SR 0940
- Frontage road to SR 0314
- Signal phasing and timing

SR 0314/SR 0940 Westbound Ramps

- ➤ Eliminate the southbound through movement on SR 0314 to provide free flow conditions to/from the ramps
- Dual left turn lanes northbound on SR 0314

SR 0314/SR 0940 Eastbound Ramps

- > Triple right turn lanes off the ramp
- ➤ A left turn lane and three through lanes northbound on SR 0314
- > Signalize the intersection

SR 0314/Spruce Street/Harvest Lane

Signal timing adjustments

SR 0314/Summit Avenue/Commerce Street

> Signal timing adjustments

SR 0940/Industrial Drive

Signal timing adjustments

SR 0940/Oak Street

> Signal timing adjustments

SR 0940/SR 0611/SR 0196/Driveway

> Contribution towards construction of additional lanes on SR 0611

SR 0611/SR 0314 (West leg)

> Signalization

SR 0611/SR 0314 (East leg)

Signal timing adjustments

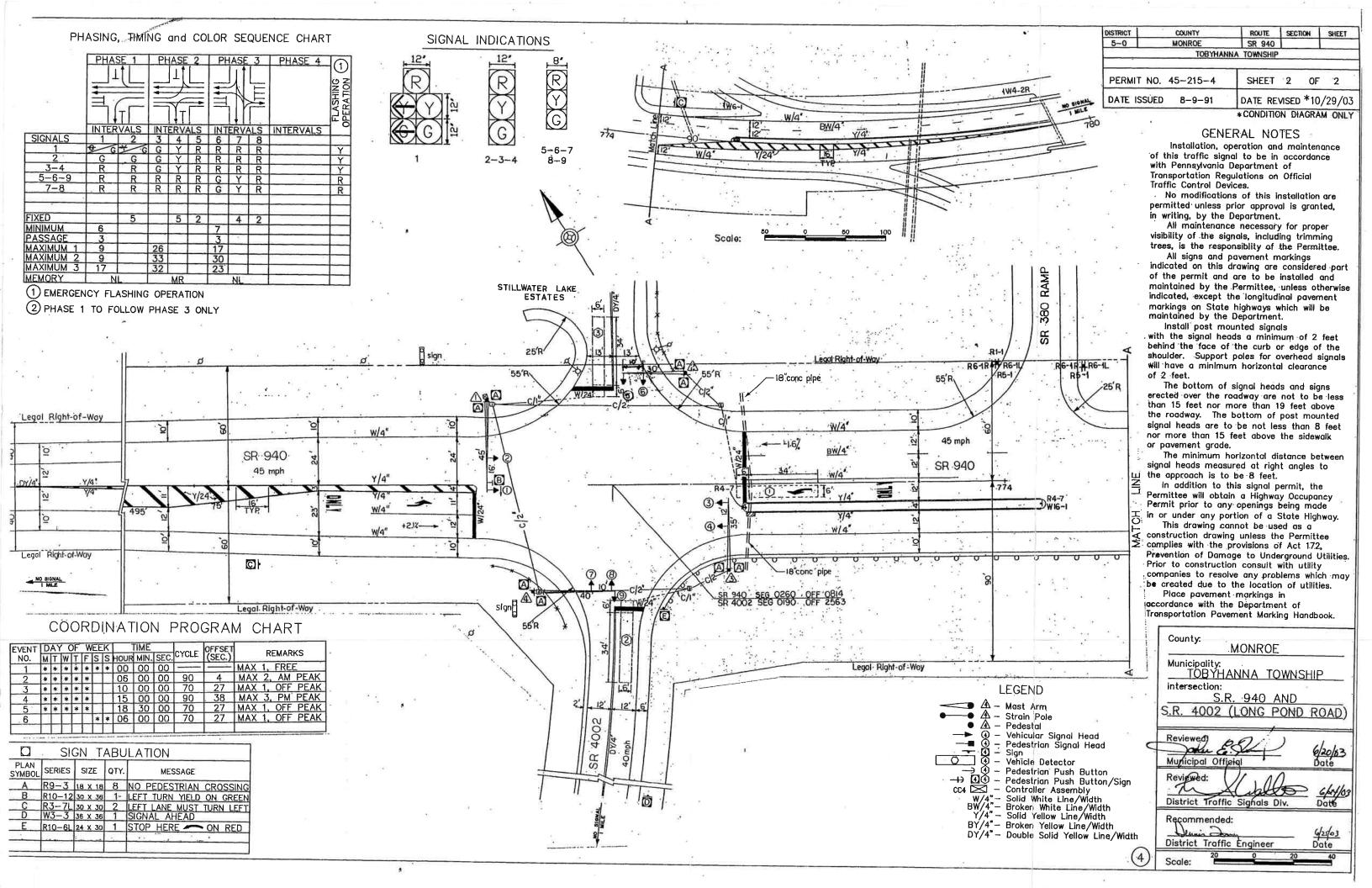
Two study years were evaluated: 2009 (the year of opening) and 2019 (the ten-year buildout). Table 1 summarizes the levels of service for the study intersections for both study years. Although level of service drops are expected, the proposed off-site improvements mitigate most of the drops. Given the ideal location along Interstate Route 380 and State Route 940, the Pocono Manor Resort & Casino development traffic can be adequately accommodated by the proposed roadway network with the recommended improvements mentioned above. Where mitigation is not attainable, a fair share contribution to the affected municipality is proposed.

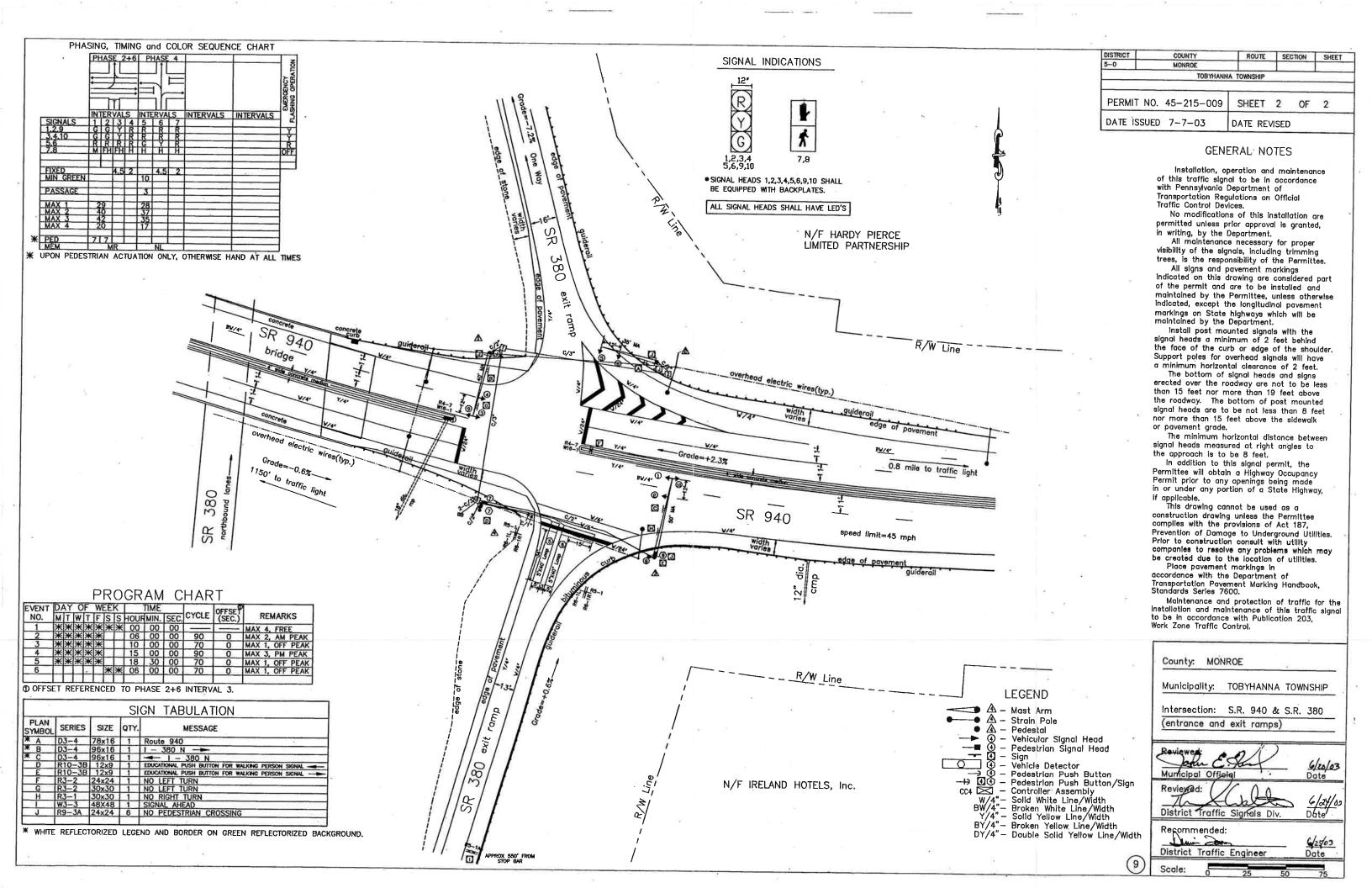


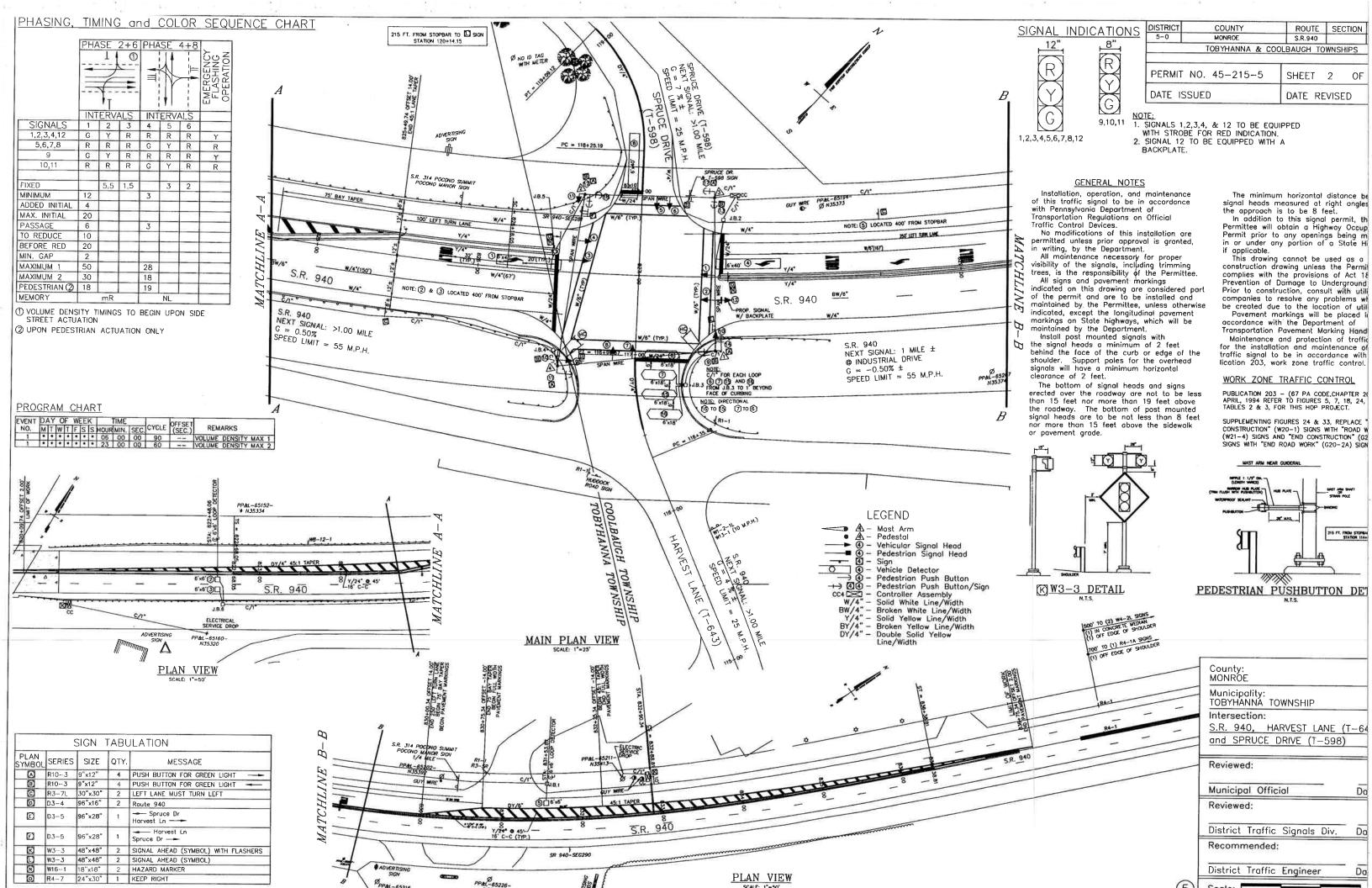
TRAFFIC IMPACT STUDY

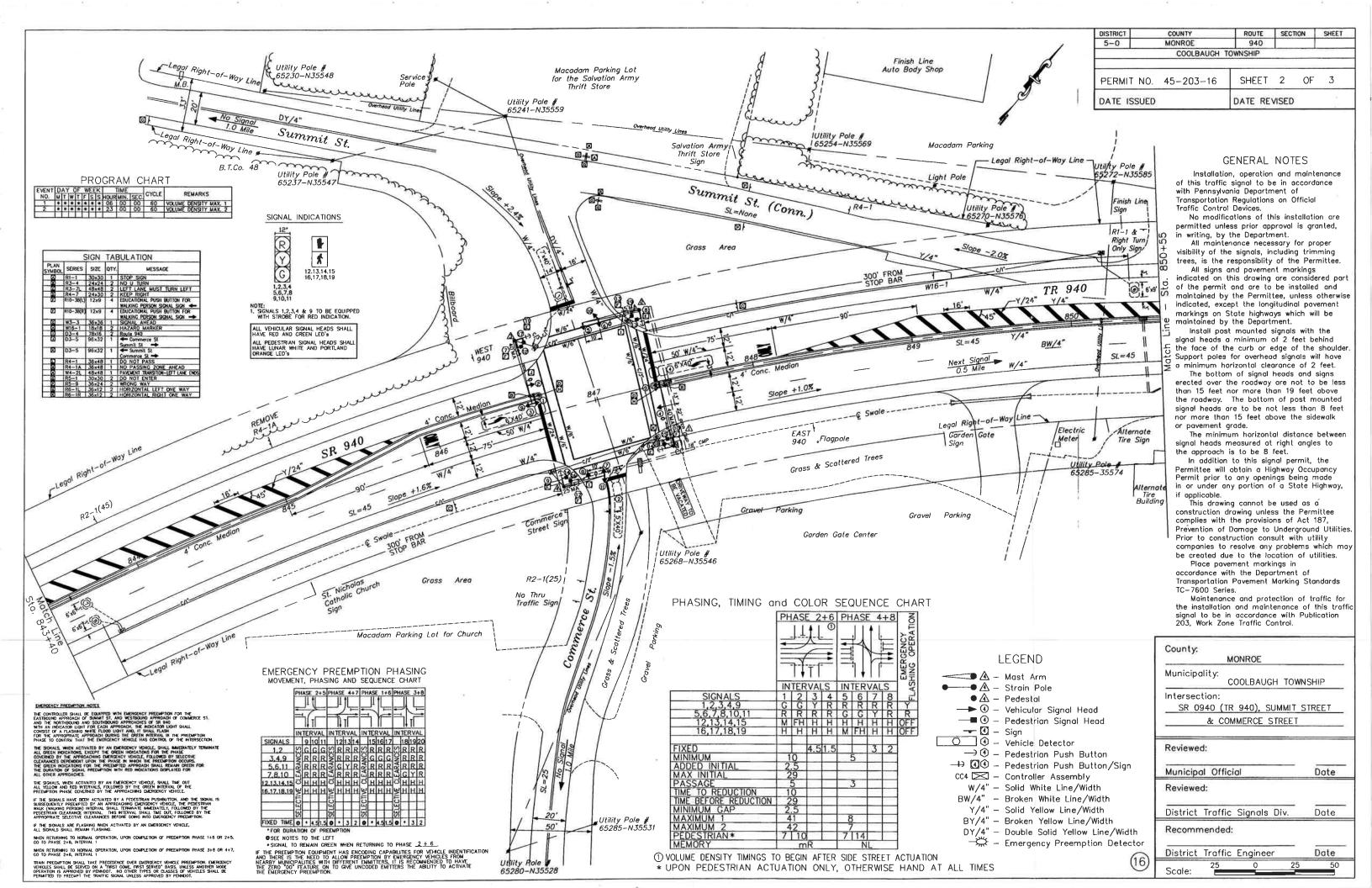
APPENDIX A

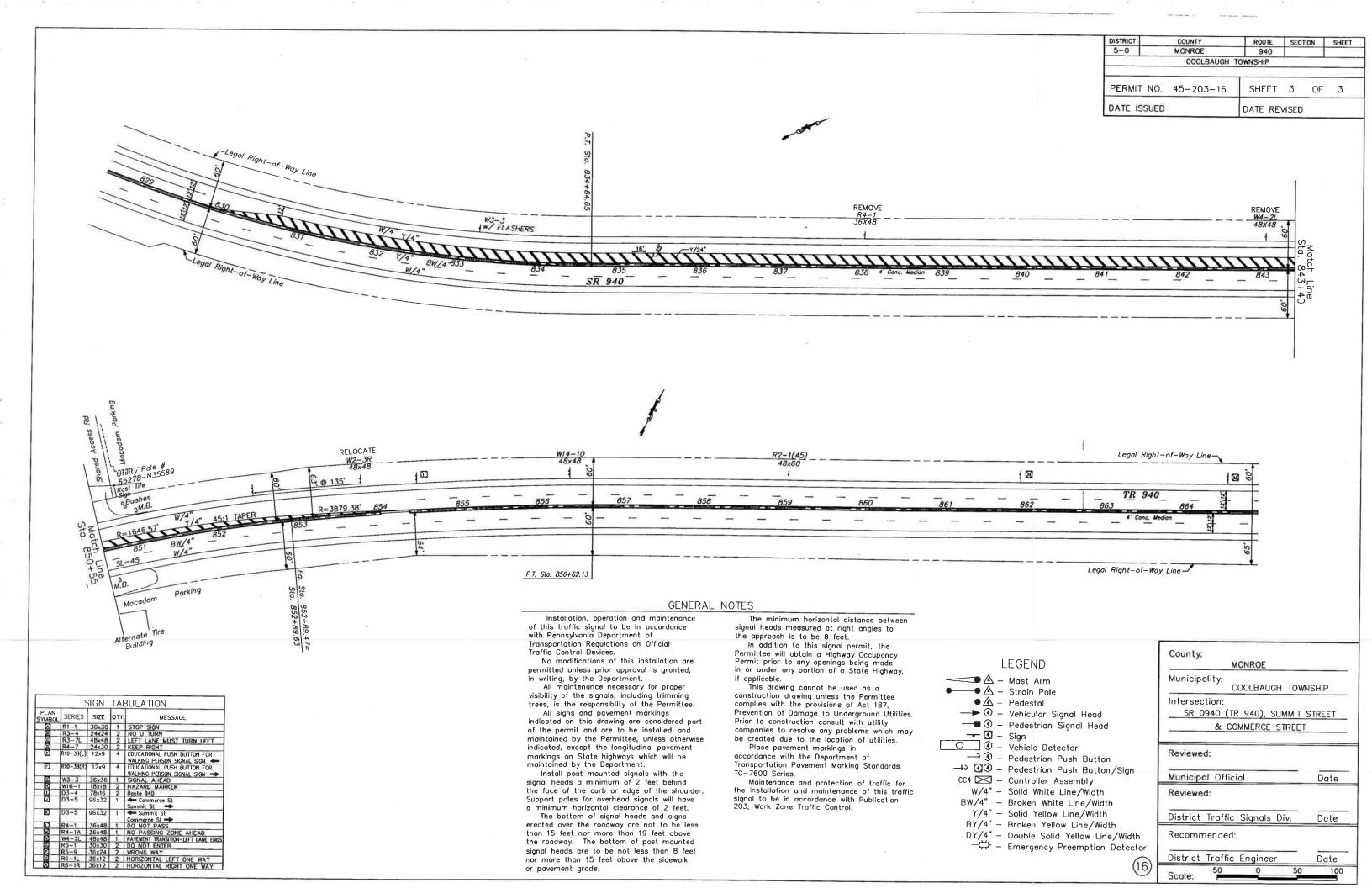
Traffic Signal Permit Plans

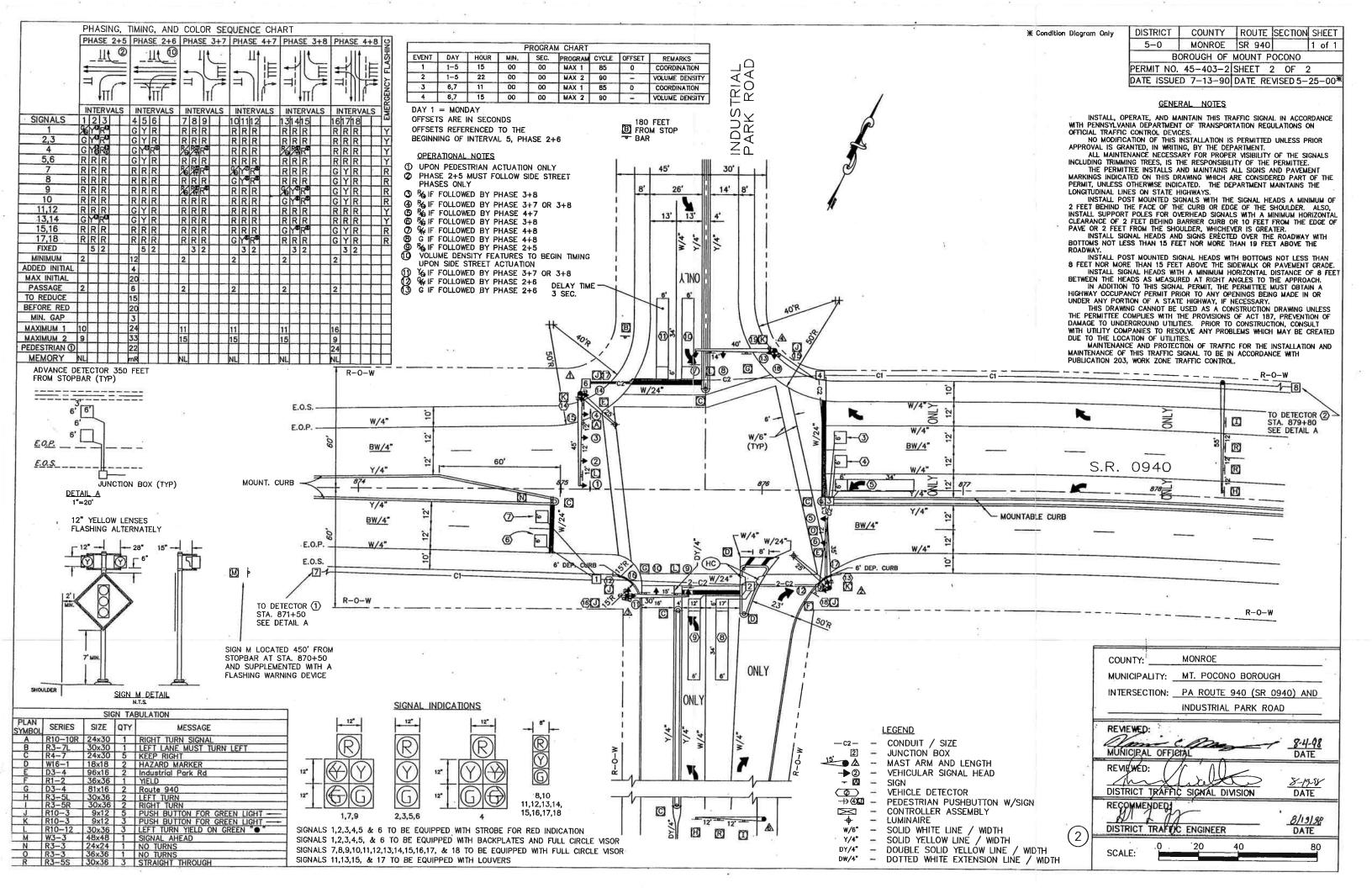


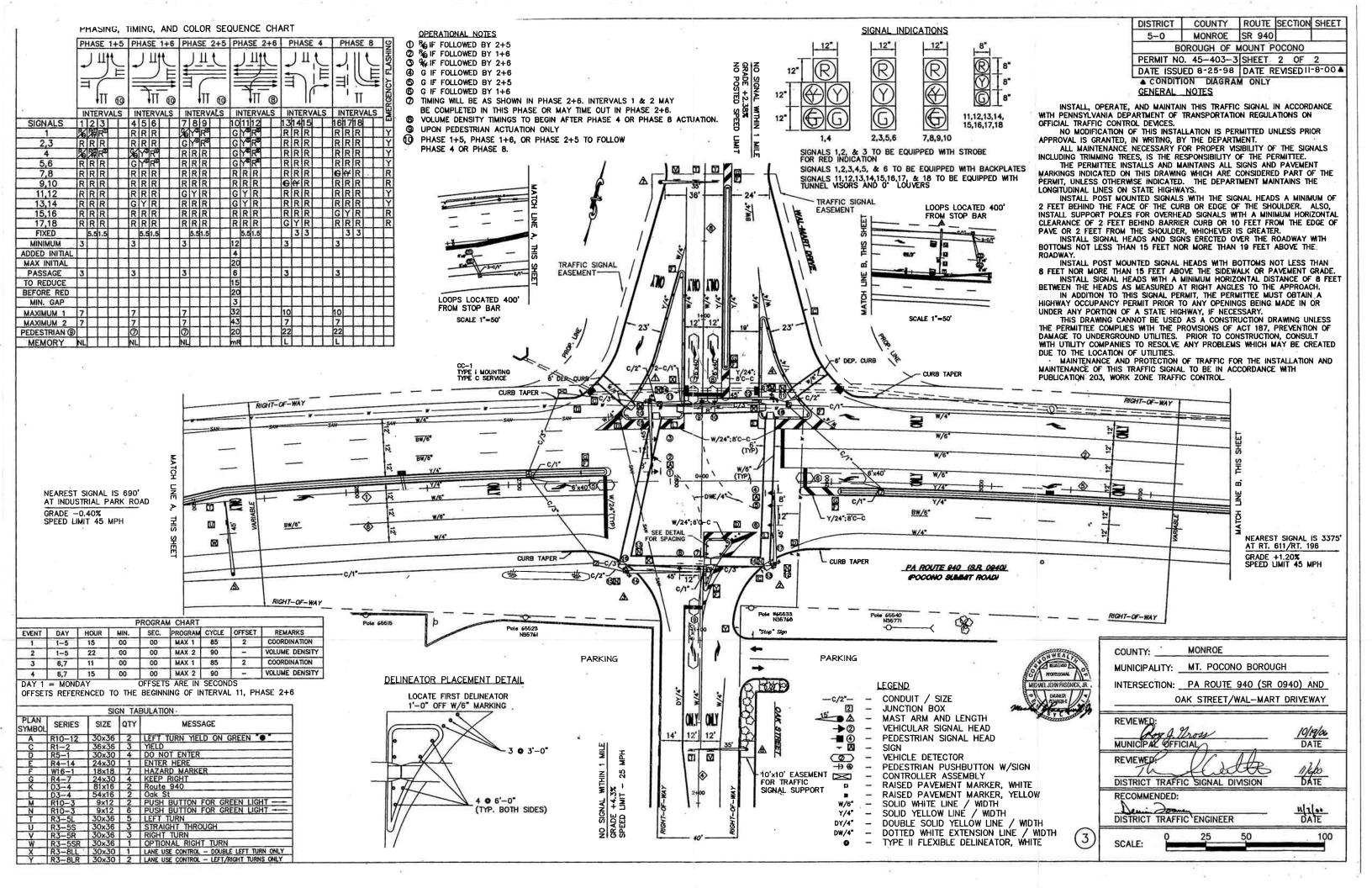


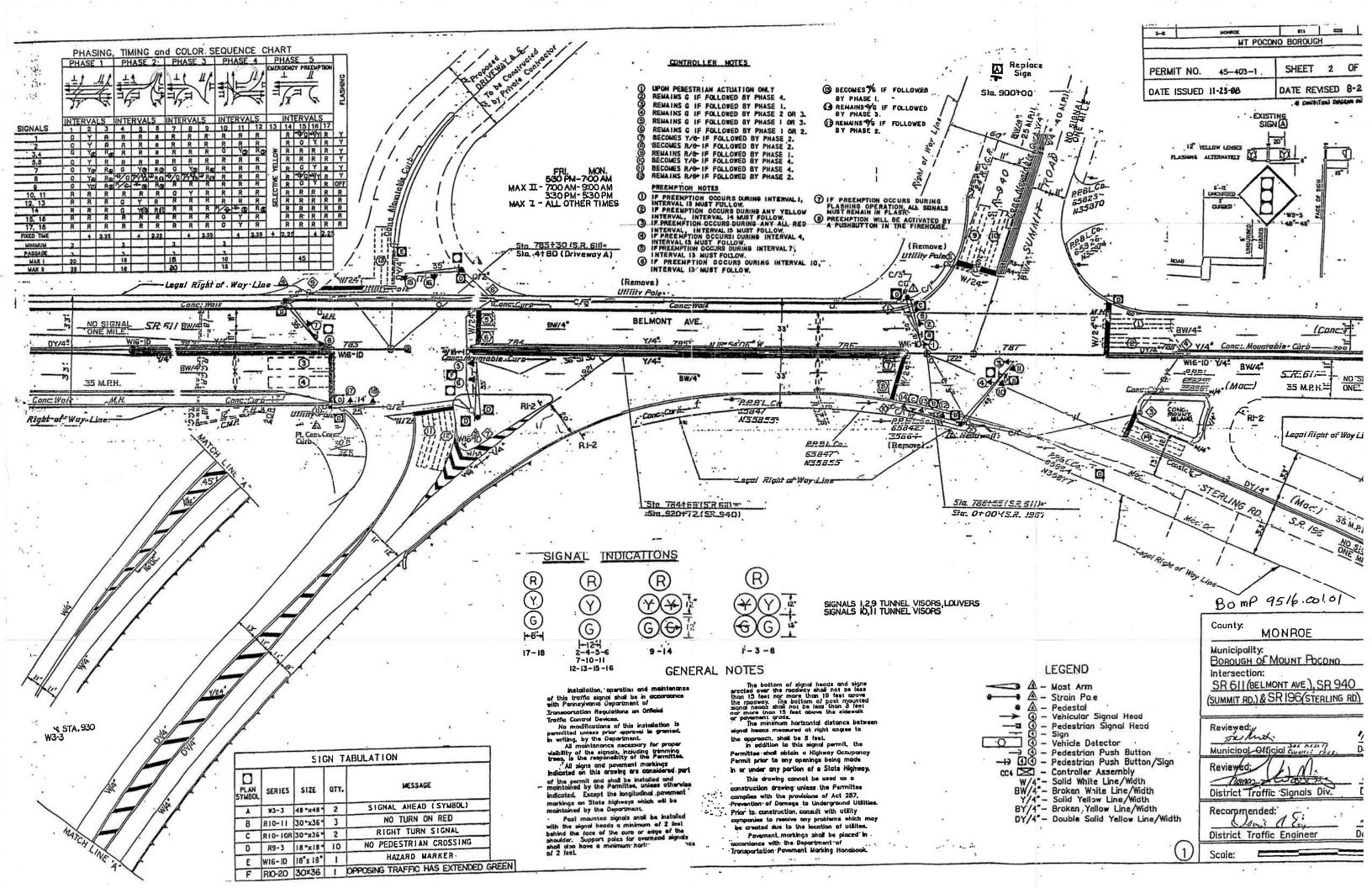


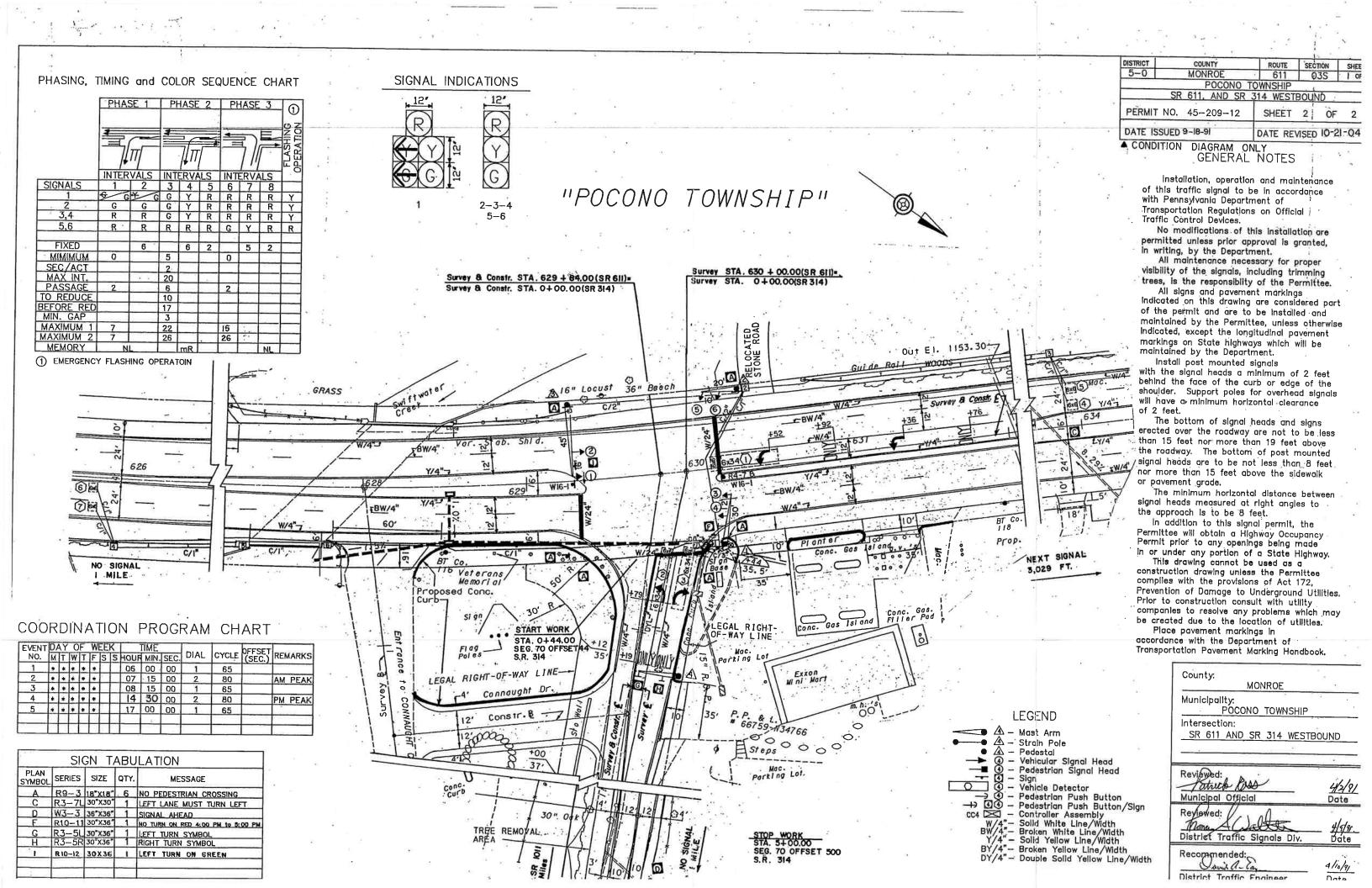










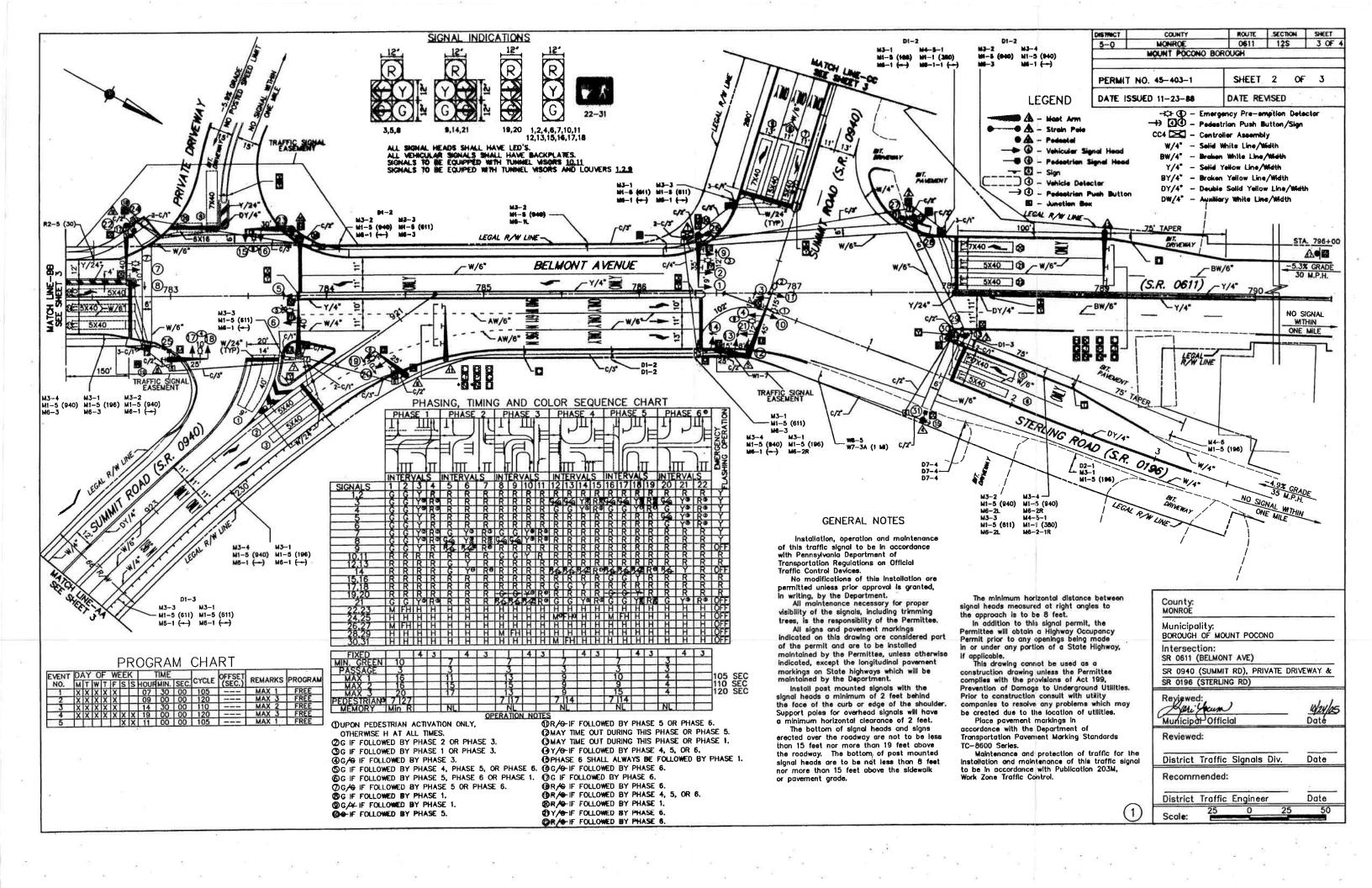


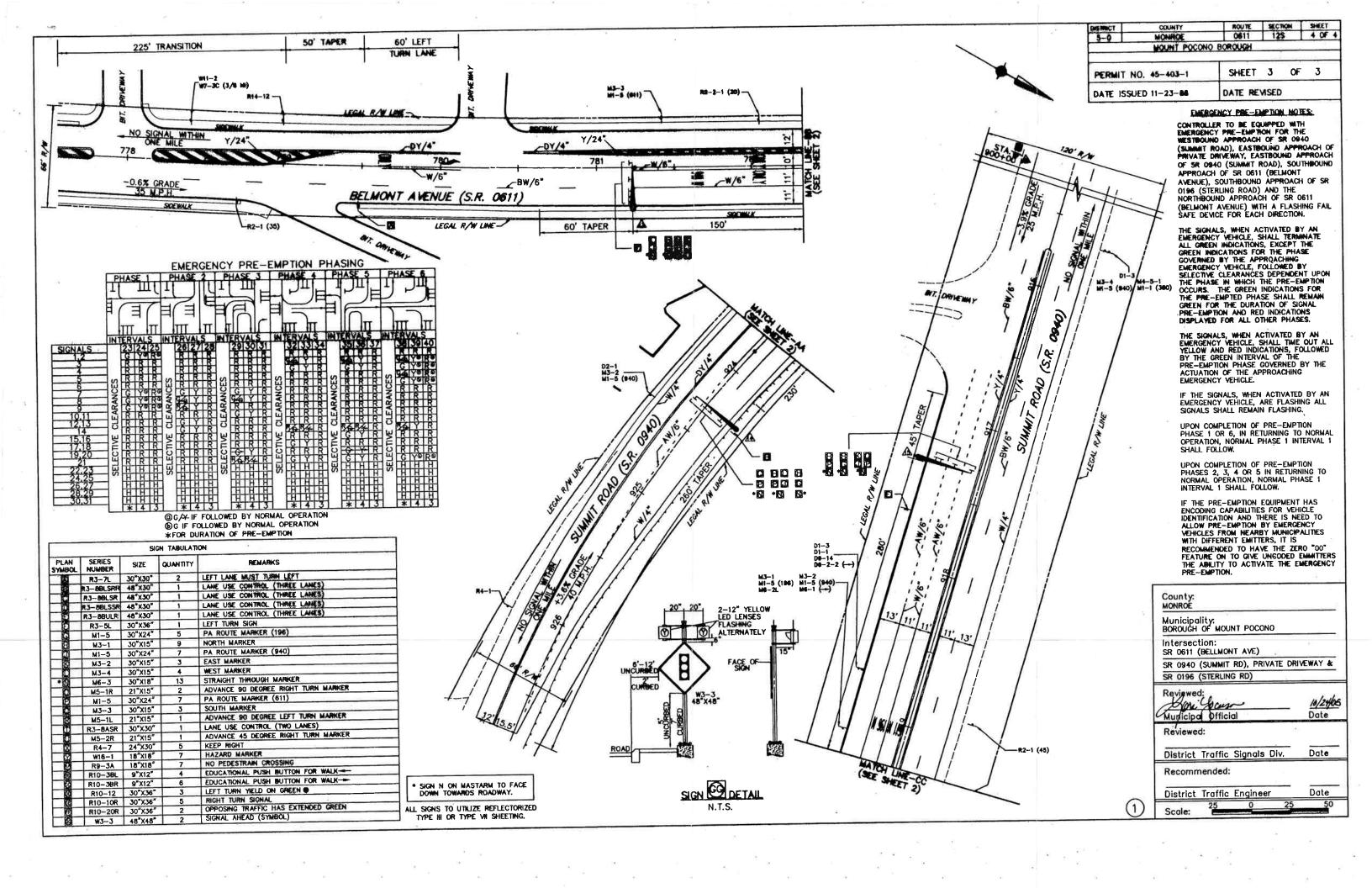


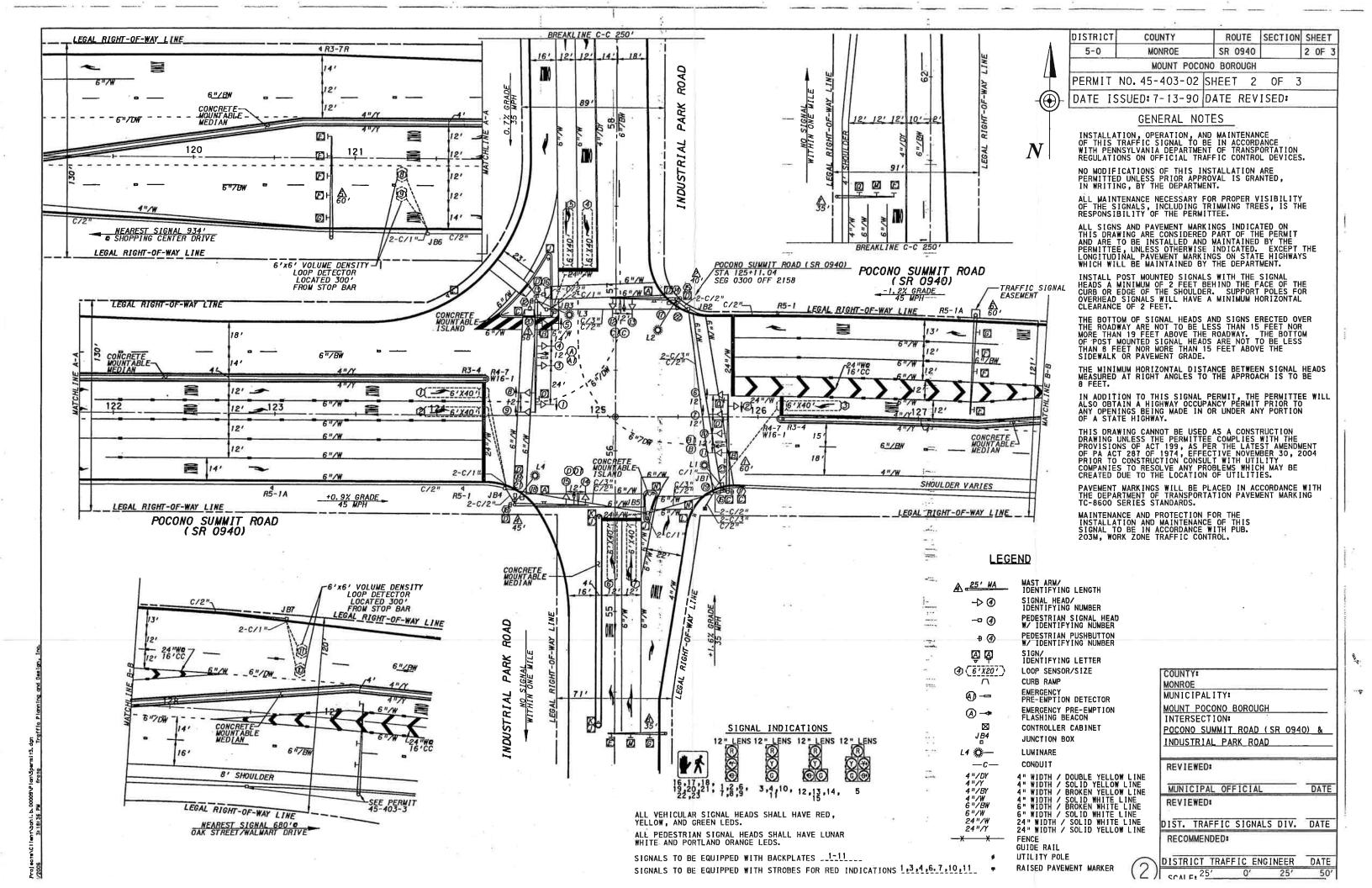
TRAFFIC IMPACT STUDY

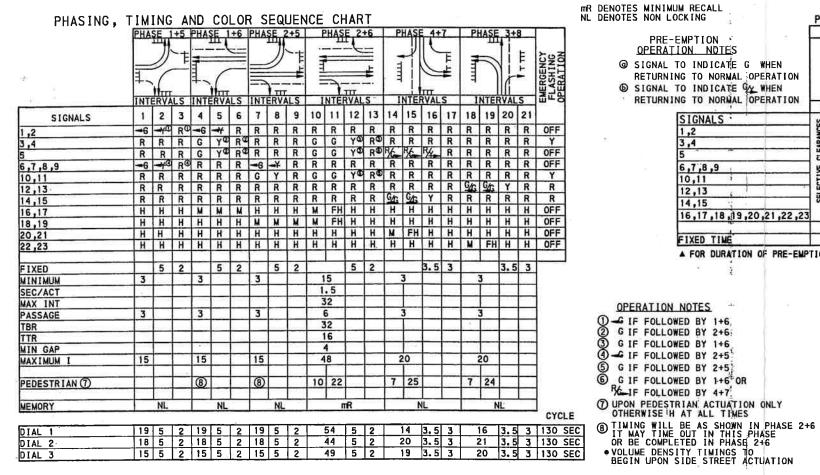
APPENDIX B

Planned Roadway Improvements









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5-0 SR 0940 MOUNT POCONO BOROUGH PERMIT NO. 45-403-02 SHEET 3 OF 3 DATE ISSUED: 7-13-90 DATE REVISED: GENERAL NOTES INSTALLATION, OPERATION, AND MAINTENANCE OF THIS TRAFFIC SIGNAL TO BE IN ACCORDANCE WITH PENNSYLVANIA DEPARTMENT OF TRANSPORTATION REGULATIONS ON OFFICIAL TRAFFIC CONTROL DEVICES.

ROUTE | SECTION SHEET

NO MODIFICATIONS OF THIS INSTALLATION ARE PERMITTED UNLESS PRIOR APPROVAL IS GRANTED, IN WRITING, BY THE DEPARTMENT.

COUNTY

MONROE

DISTRICT

ALL MAINTENANCE NECESSARY FOR PROPER VISIBILITY OF THE SIGNALS, INCLUDING TRIMMING TREES, IS THE RESPONSIBILITY OF THE PERMITTEE.

ALL SIGNS AND PAVEMENT MARKINGS INDICATED ON THIS DRAWING ARE CONSIDERED PART OF THE PERMIT AND ARE TO BE INSTALLED AND MAINTAINED BY THE PERMITTEE, UNLESS OTHERWISE INDICATED. EXCEPT THE LONGITUDINAL PAVEMENT MARKINGS ON STATE HIGHWAYS WHICH WILL BE MAINTAINED BY THE DEPARTMENT.

INSTALL POST MOUNTED SIGNALS WITH THE SIGNAL HEADS A MINIMUM OF 2 FEET BEHIND THE FACE OF THE CURB OR EDGE OF THE SHOULDER. SUPPORT POLES FOR OVERHEAD SIGNALS WILL HAVE A MINIMUM HORIZONTAL CLEARANCE OF 2 FEET.

THE BOTTOM OF SIGNAL HEADS AND SIGNS ERECTED OVER THE ROADWAY ARE NOT TO BE LESS THAN 15 FEET NOR MORE THAN 19 FEET ABOVE THE ROADWAY. THE BOTTOM OF POST MOUNTED SIGNAL HEADS ARE NOT TO BE LESS THAN 8 FEET NOR MORE THAN 15 FEET ABOVE THE SIDEWALL OR PAREMENT GRADE SIDEWALK OR PAVEMENT GRADE.

THE MINIMUM HORIZONTAL DISTANCE BETWEEN SIGNAL HEADS MEASURED AT RIGHT ANGLES TO THE APPROACH IS TO BE

IN ADDITION TO THIS SIGNAL PERMIT, THE PERMITTEE WILL ALSO OBTAIN A HIGHWAY OCCUPANCY PERMIT PRIOR TO ANY OPENINGS BEING MADE IN OR UNDER ANY PORTION OF A STATE HIGHWAY.

THIS DRAWING CANNOT BE USED AS A CONSTRUCTION DRAWING UNLESS THE PERMITTEE COMPLIES WITH THE PROVISIONS OF ACT 199, AS PER THE LATEST AMENDMENT OF PA ACT 287 OF 1974, EFFECTIVE NOVEMBER 30, 2004 PRIOR TO CONSTRUCTION CONSULT WITH UTILITY COMPANIES TO RESOLVE ANY PROBLEMS WHICH MAY BE CREATED DUE TO THE LOCATION OF ITILITIES. CREATED DUE TO THE LOCATION OF UTILITIES.

PAVEMENT MARKINGS WILL BE PLACED IN ACCORDANCE WITH THE DEPARTMENT OF TRANSPORTATION PAVEMENT MARKING TC-8600 SERIES STANDARDS.

		01011	INDU	LAT TOTAL
PLAN SYMBOL	SERIES	SIZE	QTY	MESSAGE
* A	D3-4	66 "x16"	2	STREET SIGN "Route 940"
* (3)	D3-4	96"x16"	2	STREET SIGN "Industrial Park Dr"
0	R10-3B	9"x12"	3	EDUCATIONAL PUSH BUTTON SIGN -
Ø	R10-3B	9"x12"	5	EDUCATIONAL PUSH BUTTON SIGN
Ø	R3-5L	30"x36"	5	LEFT TURN SIGN
E	R3-5S	30"x36"	4	STRAIGHT THROUGH SIGN
G	R3-5R	30"x36"	4	RIGHT TURN SIGN
0	W16-1	18"×18"	4	HAZARD MARKER
Ø	R4-7	24"x30"	2	KEEP RIGHT SIGN
	R1-2	36"x36"	2	YIELD
72	R3-6LS	30"x36"	2	OPTIONAL LEFT TURN SIGN
W	R5-1	36"x36"	2	DO NOT ENTER SIGN
0	R10-10L	30"x36"	3	LEFT TURN SIGNAL
Ø	R10-10R	30"x36"	1	RIGHT TURN SIGNAL
Q	SPECIAL	36 "x48 "	1	DOUBLE RIGHT TURN SIGN

SIGN TABULATION

ALL SIGNS TO UTILIZE REFLECTORIZED TYPE III OR TYPE VII SHEETING *OVERHEAD STREET NAME SIGN TO BE STRUCTURE MOUNTED FLAT SHEET ALUMINUM WITH STIFFENERS AND LEGEND AND BORDER TO BE WHITE REFLECTORIZED TYPE IX SHEETING ON GREEN REFLECTORIZED TYPE III OR TYPE VII SHEETING

EMERGENCY PRE-EMPTION NOTES!

• CONTROLLER TO BE EQUIPPED WITH EMERGENCY PRE-EMPTION FOR THE NORTHBOUND AND SOUTHBOUND APPROACHES OF INDUSTRIAL PARK ROAD AND THE EASTBOUND AND WESTBOUND APPROACHES OF POCONO SUMMIT ROAD WITH A FLASHING FAIL SAFE DEVICE FOR EACH DIRECTION.

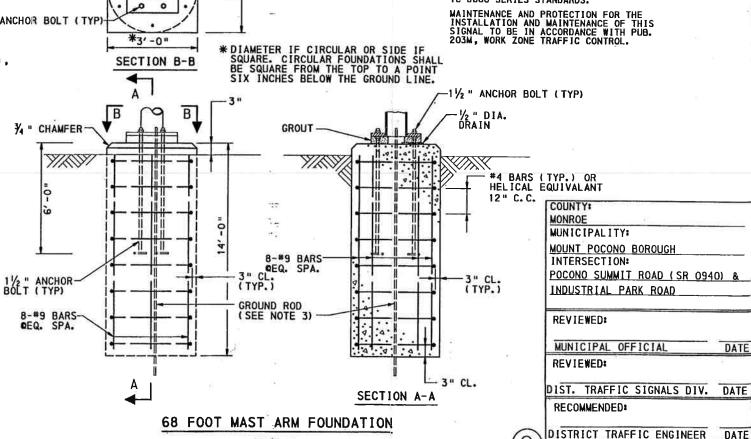
K-IF FOLLOWED BY 4+7

OTHERWISE H AT ALL TIMES

- THE SIGNALS, WHEN ACTIVATED BY EMERGENCY VEHICLES, SHALL TERMIN. GREEN INDICATIONS, EXCEPT THE GREEN INDICATIONS FOR THE PHASE GOVERNED BY THE APPROACHING EMERGENCY VEHICLE, FOLLOWED BY SELECTIVE CLEARANCES DEPENDENT UPON THE PHASE IN WHICH THE PRE-EMPTION OCCURS. THE GREEN INDICATIONS FOR THE PRE-EMPTED PHASE SHALL REMAIN GREEN FOR THE DURATION OF SIGNAL PRE-EMPTION AND RED INDICATIONS DISPLAYED FOR ALL OTHER PHASES.
- *THE SIGNALS, WHEN ACTIVATED BY AN EMERGENCY VEHICLE, SHALL TIME OUT ALL YELLOW AND RED INDICATIONS, FOLLOWED BY THE GREEN INTERVAL OF THE PRE-EMPTION PHASE GOVERNED BY THE APPROACHING EMERGENCY VEHICLE.
- IF THE SIGNALS, WHEN ACTIVATED BY AN EMERGENCY VEHICLE, ARE FLASHING ALL SIGNALS SHALL REMAIN FLASHING.
- UPON COMPLETION OF PRE-EMPTION PHASE 2 OR 6 IN RETURNING TO NORMAL OPERATION, PHASE 2+6 INTERVAL 10 SHALL FOLLOW.
- UPON COMPLETION OF PRE-EMPTION PHASE 4 OR 8 IN RETURNING TO NORMAL OPERATION, PHASE 2+6 INTERVAL 10 SHALL FOLLOW.
- IF PRE-EMPTION EQUIPMENT HAS ENCODING CAPABILITIES FOR VEHICLE IDENTIFICATION AND THERE IS NEED TO ALLOW PRE-EMPTION BY EMERGENCY VEHICLES FROM NEARBY MUNICIPALITIES WITH DIFFERENT EMITTERS, IT IS RECOMMENDED TO HAVE THE ZERO "OO" FEATURE ON, TO GIVE UNCODED EMITTERS THE ABILITY TO ACTIVATE THE EMERGENCY PRE-EMPTION.

GENERAL NOTES:

- 1. SEE TC-7801 FOR ANY ADDITIONAL DETAILS
- 2. ANCHOR BOLTS SHALL BE PROVIDED WITH THREADS WHICH EXTEND A MINIMUM OF THREE INCHES BELOW THE TOP OF THE FOUNDATION. A 4"x4"x1/4" MINIMUM STEEL PLATE SHALL
- BE ATTACHED TO THE BOTTOM OF EACH ANCHOR BOLT.
- FOR GROUND ROD SIZE AND INSTALLATION DETAILS SEE TC-7804.



N. T. S.

PROGRAM CHART EVENT DAY OF THE WEEK TIME
NO. M T W T F S S HOUR MIN SEC CYCLE #OFFSET REMARKS 0600 00 00 DIAL 1 * * * * * 130 COOR SYSTEM 1000 00 00 DIAL 3 130 0 COOR SYSTEM * * * * * 0 COOR SYSTEM 1600 00 00 DIAL 2 * * * * 130 4 * * * * * | 2100 00 00 MAX 1 --VOLUME DENSITY, FREE 0 COOR SYSTEM 130 * * 1800 00 00 MAX 1 VOLUME DENSITY, FREE

* OFFSET REFERENCED TO THE BEGINING OF INTERVAL 12 PHASE 2+6



TRAFFIC IMPACT STUDY

APPENDIX C

Traffic Counts

184 Baker Road

Coatsville, PA 19320 (610) 466-1469

File Name: BG1014 Site Code : 000000 Start Date : 10/14/2

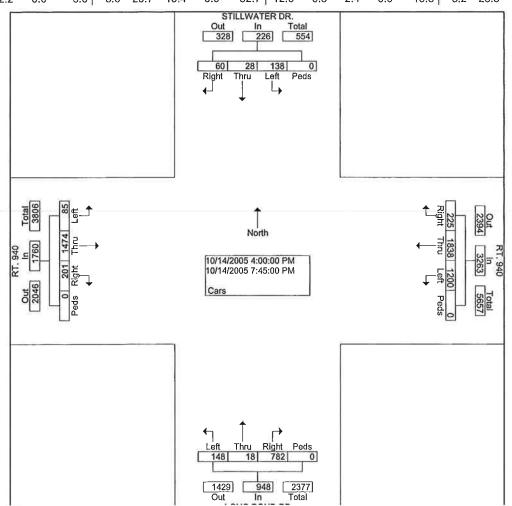
Page No : 1

cation:Monroe County ,PA ersection: Long Pond Rd /Rt. 940 te: Friday October 14, 2005

unter: CMK

Groups Printed- Cars

	Groups Printed- Cars STILLWATER DR. RT. 940 LONG POND RD RT. 940																				
		STIL	LWATE	R DR.				RT. 94	0			LON	IG PON	ID RD		RT. 940					
		F	rom No	rth			F	rom Ea	ast			F	rom So	uth				rom W	est		
art Time	Righ	Thru	Left	Ped	App.	Righ	Thru	Left	Ped	App.	Righ	Thru	Left	Ped	App.	Righ	Thru	Left	Ped	App.	I
art rime	_ t	Hiru	Leit	s	Total	t	Hilu	LCIL	S	Total	t	Tillu	Leit	s	Total	t	TIIIG	Leit	s	Total	То
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		
4:00 PM	4	7	9	0	20	15	149	77	0	241	42	2	13	0	57	7	147	2	0	156	4
4:15 PM	4	0	9	0	13	14	128	82	0	224	71	2	10	0	83	24	112	4	0	140	4
4:30 PM	6	3	8	0	17	13	143	96	0	252	64	2	8	0	74	11	104	4	0	119	4
4:45 PM	5	4	5	0	14	16	159	88	0	263	61	1	20	0	82	14	127	7	0	148	5
Total	19	14	31	0	64	58	579	343	0	980	238	7	51	0	296	56	490	17	0	563	19
5:00 PM	1	1	10	0	12	19	131	89	0	239	45	1	10	0	56	14	108	8	0	130	4
5:15 PM	1	2	15	0	18	20	- 141	91	0	252	60	1	13	0	74	9	118	2	0	129	4
5:30 PM	7	2	14	0	23	19	136	91	0	246	45	0	6	0	51	14	114	6	0	134	4
5:45 PM	9	1	4	0	14	10	123	76	0	209	47	3	10	0	60	16	93	7	0	116	3
Total	18	6	43	0	67	68	531	347	0	946	197	5	39	0	241	53	433	23	0	509	17
6:00 PM	3	2	6	0	11	18	123	86	0	227	65	2	10	0	77	16	92	6	0	114	4
6:15 PM	3	1	13	0	17	10	96	77	0	183	55	3	9	0	67	10	93	2	0	105	3
6:30 PM	1	0	9	0	10	19	101	69	0	189	40	0	7	0	47	22	58	7	0	87	3
6:45 PM	4	2	8	0	14	12	89	67	0	168	35	0	3	0	38	10	71	9	0	90	3
Total	11	5	36	0	52	59	409	299	0	767	195	5	29	0	229	58	314	24	0	396	14
7:00 PM	2	0	7	0	9	13	94	48	0	155	36	0	6	0	42	7	66	6	0	79	2
7:15 PM	4	1	6	0	11	9	88	66	0	163	41	1	8	0	50	11	79	3	0	93	3
7:30 PM	5	1	8	0	14	6	76	52	0	134	51	0	10	0	61	10	49	3	0	62	2
7:45 PM	1	1	7	0	9	12	61	45	0	118	24	0	5	0	29	6	43	9	0	58	2
Total	12	3	28	0	43	40	319	211	0	570	152	1	29	0	182	34	237	21	0	292	10
Grand Total	60	28	138	0	226	225	183 8	120 0	0	3263	782	18	148	0	948	201	147 4	85	0	1760	61
pprch % Total %	26.5 1.0	12.4 0.5	61.1 2.2	0.0	3.6	6.9 3.6	56.3 29.7	36.8 19.4	0.0	52.7	82.5 12.6	1.9 0.3	15.6 2.4	0.0	15.3	11.4 3.2	83.8 23.8	4.8 1.4	0.0 0.0	28.4	

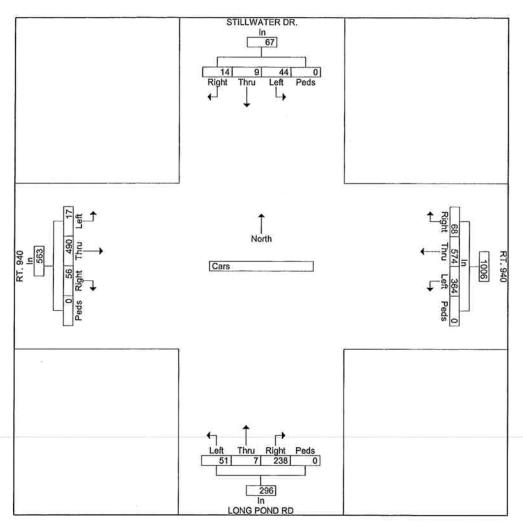


184 Baker Road Coatsville, PA 19320 (610) 466-1469

File Name: BG1014 Site Code: 000000 Start Date: 10/14/2

Page No : 2

	STILLWATER DR. RT. 940 From North From East											IG PON			RT. 940 From West						
art Time	Righ t	Thru	Left	Ped s	App. Total	Righ t	Thru	Left	Ped	App. Total	Righ t	Thru	Left	Ped	App. Total	Righ t	Thru	Left	Ped	App. Total	Ţ
k Hour Fre	om 04:0	00 PM	to 06:0	0 PM -	Peak 1	of 1															
By pproach	04:45 PM					04:30 PM					04:00	PM				04:00	PM			1	
Volume	14	9	44	0	67	68	574	364	0	1006	238	7	51	0	296	56	490	17	0	563	
Percent	20.9	13.4	65.7	0.0		6.8	57.1	36.2	0.0		80.4	2.4	17.2	0.0		9.9	87.0	3.0	0.0	1	
High Int.	05:30	PM				04:45 PM					04:15 PM					04:00	PM			1	
Volume	7	2	14	0	23	16	159	88	0	263	71	2	10	0	83	7	147	2	0	156	
Peak Factor					0.728	;				0.956					0.892					0.902	

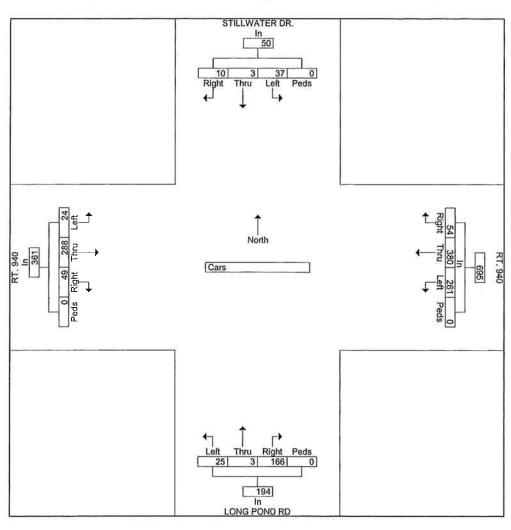


184 Baker Road Coatsville, PA 19320 (610) 466-1469

File Name: BG1014 Site Code: 000000 Start Date: 10/14/2

Page No : 3

V======			LWATE			RT. 940 From East							IG PON rom So			RT. 940 From West					
art Time	Righ t	Thru	Left	Ped s	App. Total	Righ t	Thru	Left	Ped s	App. Total	Righ t	Thru	Left	Ped s	App. Total	Righ t	Thru	Left	Ped s	App. Total	I To
k Hour Fr	om 06:	15 PM	to 07:4	5 PM -	Peak 1	of 1															
By pproach	06:15 PM					06:15 PM						06:15 PM					06:15 PM				
Volume	10	3	37	0	50	54	380	261	0	695	166	3	25	0	194	49	288	24	0	361 [
Percent	20.0	6.0	74.0	0.0		7.8	54.7	37.6	0.0		85.6	1.5	12.9	0.0		13.6	79.8	6.6	0.0		
High Int.	06:15	PM									06:15 PM				06:15	PM)	l .	
Volume	3	1	13	0	17	19	101	69	0	189	55	3	9	0	67	10	93	2	0	105 [
Peak Factor					0.735					0.919					0.724					0.860	



184 Baker Road Coatsville, PA 19320 (610) 466-1469

cation: Monroe County, PA ersectionj Rt 940 / Longpond Rd

te: Saturday, October 29,2005

unter: RZ

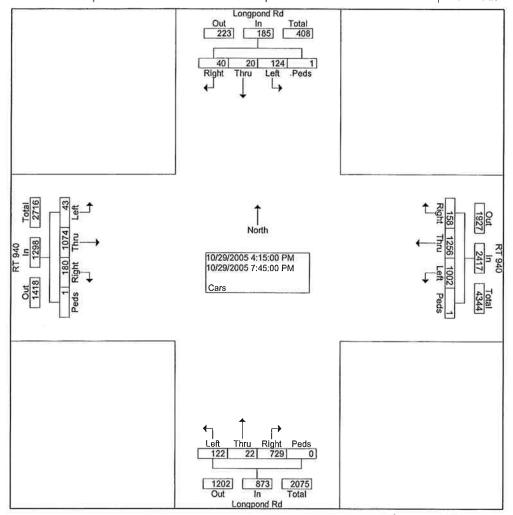
Page No : 1

File Name: BG1029

Site Code : 000000

Start Date : 10/29/2

•		Lo	ngpond rom No	Rd rth				RT 940 From Ea)	ops i iiii	ou our	Lo	ngpond rom So				F	RT 940			
art Time	Righ t	Thru	Left	Ped s	App. Total	Righ t	Thru	Left	Ped s	App. Total	Righ t	Thru	Left	Ped s	App. Total	Righ t	Thru	Left	Ped	App. Total	To
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0	==10:5	
4:15 PM	6	3	14	0	23	11	111	88	0	210	64	1	12	0	77	11	94	2	0	107	4
4:30 PM	1	0	11	1	13	8	96	76	0	180	48	2	7	0	57	16	81	2	1	100	3
4:45 PM	- 5	2	7	0	14	11	109	83	0	203	61	0	3	0	64	10	100	5	0	115	3
Total	12	5	32	1	50	30	316	247	0	593	173	3	22	0	198	37	275	9	1	322	11
5:00 PM	3	1	11	0	15	15	94	67	0	176	49	1	8	0	58	9	81	4	0	94	3
5:15 PM	2	0	5	0	7	18	80	78	0	176	41	2	11	0	54	11	63	1	0	75	3
5:30 PM	1	1	12	0	14	13	105	77	0	195	76	2	7	0	85	7	82	2	0	91	3
5:45 PM	1	3	5	0	9	10	99	70	0	179	47	2	7	0	56	10	70	4	0	84	3
Total	7	5	33	0	45	56	378	292	0	726	213	7	33	0	253	37	296	11	0	344	13
6:00 PM	2	5	11	0	18	12	93	69	0	174	52	1	11	0	64	20	81	5	0	106	3
6:15 PM	5	0	12	0	17	11	65	71	0	147	59	1	5	0	65	20	66	1	0	87	3
6:30 PM	1	0	6	0	7	12	61	60	1	134	48	1	8	0	57	7	82	4	0	93	2
6:45 PM	2	2	7	0	11	8_	85	54	0	147	47	1	5	0	53	16	64	2	0	82	2
Total	10	7	36	0	53	43	304	254	1	602	206	4	29	0	239	63	293	12	0	368	12
7:00 PM	5	1	4	0	10	6	70	61	0	137	42	3	14	0	59	18	55	5	0	78	2
7:15 PM	2	1	7	0	10	5	71	55	0	131	38	1	11	0	50	13	61	4	0	78	2
7:30 PM	3	1	4	0	8	11	56	58	0	125	27	1	8	0	36	9	39	0	0	48	2
7:45 PM	1	0	8	0	9	7	61	35_	0	103	30	3	5	0	38	3	55	2	0	60	2
Total	11	3	23	0	37	29	258	209	0	496	137	8	38	0	183	43	210	11	0	264	9
Grand Total	40	20	124	1	185	158	125 6	100 2	1	2417	729	22	122	0	873	180	107 4	43	1	1298	47
pprch %, Total %	21.6 0.8	10.8 0.4	67.0 2.6	0.5 0.0	3.9	6.5 3.3	52.0 26.3	41.5 21.0	0.0 0.0	50.6	83.5 15.3	2.5 0.5	14.0 2.6	0.0	18.3	13.9 3.8	82.7 22.5	3.3 0.9	0.1 0.0	27.2	

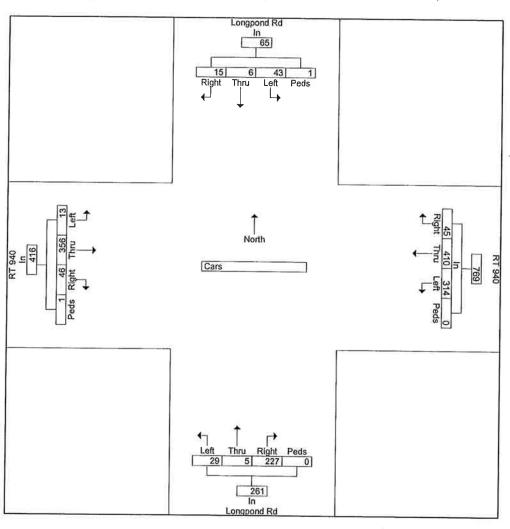


184 Baker Road Coatsville, PA 19320 (610) 466-1469

File Name: BG1029 Site Code : 000000

Start Date : 10/29/2 Page No : 2

			rom No					RT 940 rom Ea	-				ongpond rom So				F	RT 940		=====
art Time	Righ t	Thru	Left	Ped s	App. Total	Righ t	Thru	Left	Ped s	App. Total	Righ t	Thru	Left	Ped s	App. Total	Righ	Thru	Left	Ped	App. Total
Hour Fr	om 04:	15 PM	to 06:0	0 PM -	Peak 1	of 1													3	Total
By proach	04:15	РМ				04:15	РМ				04:45	РМ				04:15	РМ			
Volume	15	6	43	1	65	45	410	314	0	769	227	5	29	0	261	46	356	13	4	440
Percent	23.1	9.2	66.2	1.5		5.9	53.3	40.8	0.0		87.0	1.9	11.1	0.0	201	200 3			0.0	416
		PM				04:15	(-)	10.0	0.0		05:30		11.1	0.0	1	11.1 04:45	85.6 PM	3.1	0.2	1
Volume Peak	6	3	14	0	23	11	111	88	0	210	76	2	7	0	85	10	100	5	0	115
Factor					0.707					0.915					0.768					0.904

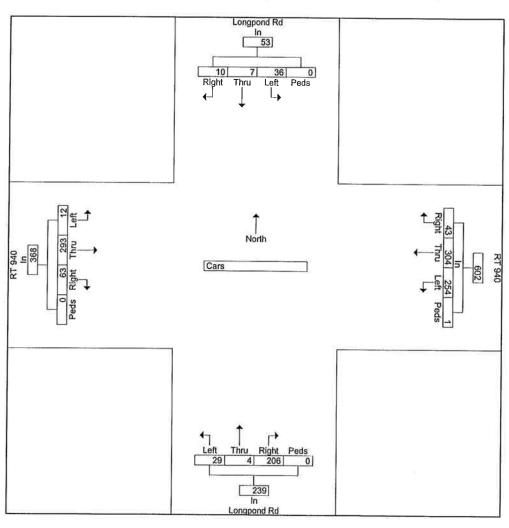


184 Baker Road Coatsville, PA 19320 (610) 466-1469

File Name: BG1029 Site Code: 000000

Start Date : 10/29/2

			ngpond rom No					RT 940 From Ea	_				ngpond rom So				F	RT 940		
art Time	Righ t	Thru	Left	Ped s	App. Total	Righ t	Thru	Left	Ped s	App. Total	Righ t	Thru	Left	Ped s	App. Total	Righ t	Thru	Left	Ped	App. Total
(Hour Fr	om 06:0	00 PM	to 07:4	5 PM -	Peak 1	of 1														1 5 151
By pproach	06:00	PM				06:00	PM				06:00	PM				06:00	PM			2
Volume	10	7	36	0	53	43	304	254	1	602	206	4	29	0	239	63	293	12	0	368
Percent	18.9	13.2	67.9	0.0		7.1	50.5	42.2	0.2	-	86.2	1.7	12.1	0.0	200	17.1	79.6	3.3	0.0	300
ligh Int.	06:00					06:00					06:15	PM			-	06:00	PM			
Volume	2	5	11	0	18	12	93	69	0	174	59	1	5	0	65	20	81	5	0	106
Peak Factor					0.736					0.865					0.919					0.868



Location: Monroe Co., PA

Intersection: Rt. 940 / I380 SB Ramps

Coatsville, PA 19320 (610) 466-1469

Date: Friday, October 14, 2005

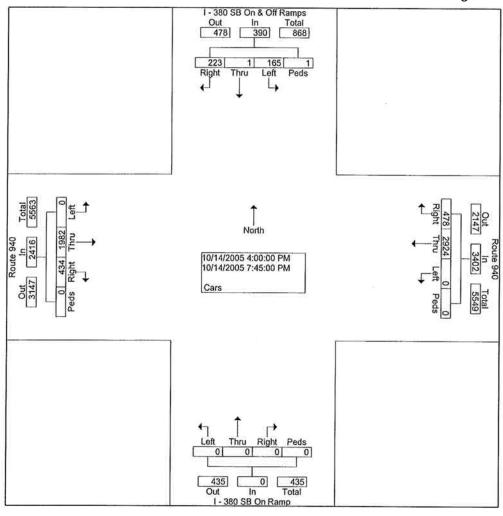
Counter: JT

File Name: I380SB~1 Site Code : 00000000

Start Date : 10/14/2005

Start Time Factor 04:00 PM	Rig ht		3 On &	Off Ra	mps			Route 9		ups Prin	ted- Ca										
Time Factor	Rig ht	F			mps			10													
Time Factor	ht		rom No		•									n Ramı	0		F	Route 9	140		1
Time Factor	ht	Thr	-					rom E					om Sc	-			F	rom W	est		
Factor			Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Int
		и		S	Total	ht	u		S	Total	ht	u		S	Total	ht	u	Leit	s	Total	Tota
04:00 PM	1.0	1.0	1.0	1,0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		
	14	0	22	0	36	39	214	0	0	253	0	0	0	0	0	38	146	0	0	184	473
04:15 PM	39	0	17	0	56	31	183	0	0	214	0	0	0	0	0	36	169	0	0	205	475
04:30 PM	18	0	4	0	22	42	222	0	0	264	0	0	0	0	0	38	151	0	0	189	475
04:45 PM	24	0	5	0	29	33	226	0	0	259	0	0	0	0	0	36	159	0	0	195	483
Total	95	0	48	0	143	145	845	0	0	990	0	0	0	0	0	148	625	0	0	773	1906
															5.4				20011	invocate.	
05:00 PM	10	0	9	0	19	63	218	0	0	281	0	0	0	0	0	23	147	0	0	170	470
05:15 PM	8	0	13	0	21	35	231	0	0	266	0	0	0	0	0	36	150	0	0	186	473
05:30 PM	17	0	14	0	31	27	223	0	0	250	0	0	0	0	0	32	135	0	0	167	448
05:45 PM	11	0	9	0	20	37	192	0	0	229	0	0	0	0	0	24	123	0	ō	147	396
Total	46	0	45	0	91	162	864	0	0	1026	0	0	0	0	0	115	555	0	0	670	1787
										7					10			ेक	1000		1101
06:00 PM	21	0	15	0	36	25	204	0	0	229	0	0	0	0	0	36	132	0	0	168	433
06:15 PM	15	0	12	0	27	15	169	0	0	184	0	0	0	. 0	0	21	124	ō	Ō	145	356
06:30 PM	10	1	20	0	31	30	157	0	0	187	0	0	0	0	ōl	17	108	ŏ	Õ	125	343
06:45 PM	7	0	9	0	16	27	155	0	0	182	0	0	0	0	0	32	81	0	0	113	311
Total	53	1	56	0	110	97	685	0	0	782	0	0	0	0	0	106	445	0	0	551	1443
															- 1			1			
07:00 PM	10	0	1	1	12	22	147	0	0	169	0	0	0	0	0	23	94	0	0	117	298
07:15 PM	8	0	9	0	17	15	154	0	0	169	0	0	0	0	0	16	104	0	0	120	306
07:30 PM	5	0	6	0	11	23	130	0	0	153	0	0	0	0	o l	13	97	0	0	110	274
07:45 PM	6	0	0	0	6	14	99	0	0	113	0	0	0	0	0	13	62	0	0	75	194
Total	29	0	16	1	46	74	530	0	0	604	0	0	0	0	0	65	357	0	0	422	1072
(F)										A 100 C A 100 C											
Grand ,	223	1	165	1	390	478	292	^	0	2402		•	_	0	١	40.4	198	_	_		
Total <i>"</i>	223	'	105	'	390	4/0	4	0	0	3402	0	0	0	0	0	434	2	0	0	2416	6208
Annroh 0/	57.	0.3	42.	0.2		14.	85.	0.0	0.0	1	0.0	0.0		0.0		18.	82.				
Apprch %	2	0.3	3	0.3		1	9	0.0	0.0		0.0	0.0	0.0	0.0		0	0	0.0	0.0		
Total 9/	26	0.0	2.7	0.0	62	77	47.	0.0	0.0	E40	0.0	0.0	0.0	0.0	0.0	7.0	31.	• •			
Total %	3.6	0.0	2.7	0.0	6.3	7.7	1	0.0	0.0	54.8	0.0	0.0	0.0	0.0	0.0	7.0	9	0.0	0.0	38.9	

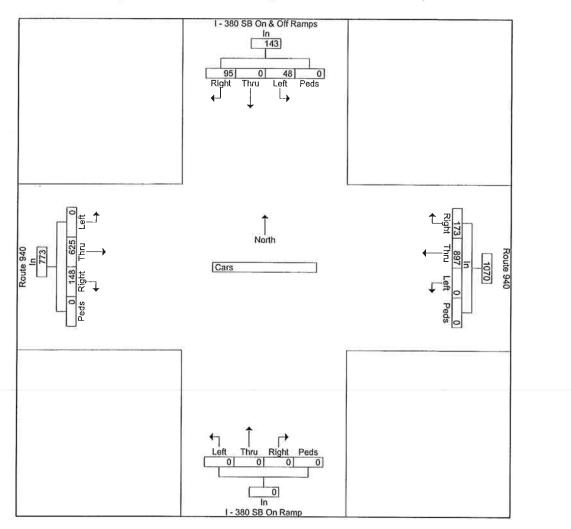
File Name : I380SB~1 Site Code : 00000000 Start Date : 10/14/2005



File Name : I380SB~1 Site Code : 00000000 Start Data : 10/14/2007

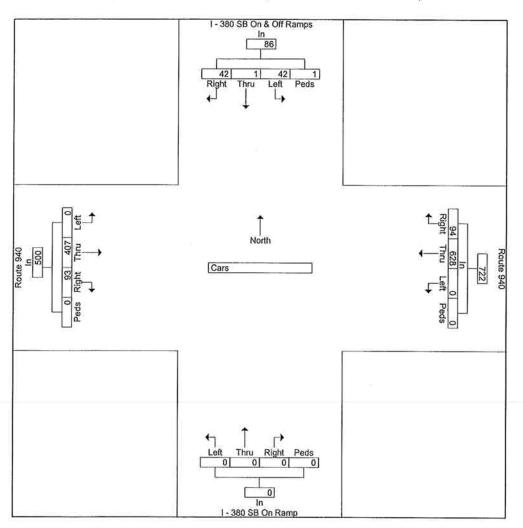
Start Date : 10/14/2005

	1 - 3		On &	Off Ra orth	mps			Route 9 rom E					SB O	n Ram uth	р			Route 9			
Start		Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Int.
Time	ht	u		S	Total	ht	u		S	Total	ht	u		S	Total	ht	u	Lon	S	Total	Total
Peak Hour F	rom 0	4:00 F	PM to	06:00	PM - Pe	eak 1 c	of 1														
By Approach	04:00	PM				04:30	PM				04:00	PM				04:00	PM (
Volume	95	0	48	0	143	173	897	0	0	1070	0	0	0	0	0	148	625	0	0	773	
Percent	66. 4	0.0	33. 6	0,0		16. 2	83. 8	0.0	0.0		-			•	957	19. 1	80. 9	0.0	0.0		
High Int.	04:15	PM				05:00	PM				2					04:15	5 PM			1	ĺ
Volume	39	0	17	0	56	63	218	0	0	281	-		-	-	-1	36	169	0	0	205 l	
Peak					0.63					0.95										0.94	
Factor					8					2					7					3	



File Name : I380SB~1 Site Code : 00000000 Start Date : 10/14/2005

	1-3		On & rom No	Off Ra orth	mps			oute 9					SB O	n Ram outh	р			Route 9			
Start	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Int.
Time	ht	u	LOIL	s	Total	ht	u	Leit	s	Total	ht	u	Leit	s	Total	ht	u	Leit	s	Total	Total
Peak Hour F	rom 0	6:15 F	PM to	07:45	PM - Pe	eak 1 c	of 1			, ,											
By Approach	06:15	РМ				06:15	PM				06:15	РМ				06:15	5 PM				
Volume	42	1	42	1	86	94	628	0	0	722	0	0	0	0	0	93	407	0	0	500	
Percent	48. 8	1.2	48. 8	1.2		13. 0	87. 0	0.0	0.0		122	12.1	£	-		18. 6	81. 4	0.0	0.0	70.5	
High Int.	06:30	PM				06:30	PM									06:15	5 PM			- 1	1
Volume	10	1	20	0	31	30	157	0	0	187		-			- 1	21	124	0	0	145	
Peak					0.69					0.96										0.86	
Factor					4					5					-					2	



Coatsville, PA 19320 (610) 466-1469

File Name: BG1015-4 Site Code : 00000000

Start Date : 10/15/2005

Page No : 1

Location: Monroe Co., PA Intersection: Rt. 940 / I380 SB Ramps Date: Saturday, October 15, 2005 Counter: JT

Counter	J.																Pag	ge Ni	0 ;	1	
						_				ups Prin	ted- Ca										
	1-		B On &		nps			Route 9						Ramp				Route 9			
	- Di		rom No					rom Ea	_				rom So					rom We	est		
Start Time	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Int
	ht	u		S	Total	ht	u		S	Total	ht	u		S	Total	ht	u	Leit	s	Total	Tota
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		
04:00 PM	16	0	11	0	27	40	218	0	0	258	0	0	0	0	0	31	111	0	0	142	427
04:15 PM	19	0	10	0	29	30	197	0	0	227	0	0	0	0	0	51	118	0	0	169	425
04:30 PM	12	0	8	0	20	32	170	0	0	202	0	0	0	0	0	32	133	0	0	165	387
04:45 PM	16	. 0	4	1	21	20	170	0	0	190	0	0	0	0	0	32	106	0	0	138	349
Total	63	0	33	1	97	122	755	0	0	877	0	0	0	0	0	146	468	0	0	614	1588
										0.0000	0.000					1 1.505-01	**********	_	_		,,,,,,
05:00 PM	12	0	14	0	26	24	165	0	0	189	0	0	0	0	0	23	104	0	0	127	342
05:15 PM	17	0	12	0	29	23	159	0	0	182	0	0	0	0	0	38	128	Ō	Ö	166	377
05:30 PM	15	0	13	0	28	20	147	0	0	167	0	0	0	Ō	0	36	112	Ö	Õ	148	343
05:45 PM	5	0	5	0	10	16	157	0	0	173	0	0	Ō	0	0	29	123	0	Õ	152	335
Total	49	0	44	0	93	83	628	0	0	711	0	0	0	0	0	126	467	0	0	593	1397
										,		Ū	·	·	× i	120	107	Ü	U	000	1001
06:00 PM	8	0	14	0	22	19	157	0	0	176	0	0	0	0	0	22	76	0	0	98	296
06:15 PM	14	0	13	0	27	14	153	0	0	167	0	Ö	Ö	Ö	Ö	32	93	Ö	Ö	125	319
06:30 PM	11	0	11	0	22	17	132	0	0	149	0	ō	Ö	Ö	o l	36	134	0	Ö	170	341
06:45 PM	12	0	8	0	20	14	130	0	0	144	0	0	0	ŏ	ő	40	101	0	ő	141	305
Total	45	0	46	0	91	64	572	0	0	636	0	0	0	0	Ö	130	404	0	0	534	1261
							0. 2		,,,,,	000	·	Ü	Ŭ		o l	100	404	U	U	334	1201
07:00 PM	6	0	5	0	11 Î	19	126	0	0	145	0	0	0	0	0	23	81	0	0	104	260
07:15 PM	9	0	9	0	18	14	115	Ö	Ö	129	ő	Õ	ő	Õ	ő	27	81	0	0	104	255
07:30 PM	9	Ō	17	Ō	26	23	126	ŏ	ő	149	0	0	0	0	ő	37	79	0	0	116	
07:45 PM	9	ō	10	Ö	19	13	96	ŏ	ŏ	109	ő	0	ő	0	ő	17	71	0	0	88	291
Total	33	0	41	0	74	69	463	0	0	532	0	0	0	0	0	104	312	0	0	416	216
		25	5000	7	35 53	00	.00	U	•	002	U	U	O	U	O J	104	312	U	U	410	1022
Grand					1		241			Í					1		165			1	
Total	190	0	164	1	355	338	8	0	0	2756	0	0	0	0	0	506	100	0	0	2157	5268
Apprch %	53.5	0.0	46.2	0.3		12.3	87.7	0.0	0.0		0.0	0.0	0.0	0.0		23.5	70 F	0.0	0.0		
Total %	3.6	0.0	3.1	0.0	6.7	6.4	45.9	0.0	0.0	52.3					0.0		76.5	0.0	0.0	40.0	
TOTAL 70	5.0	0.0	J. I	0.0	0.7	0.4	40.9	0.0	0.0	02.3	0.0	0.0	0.0	0.0	0.0	9.6	31.3	0.0	0,0	40.9	

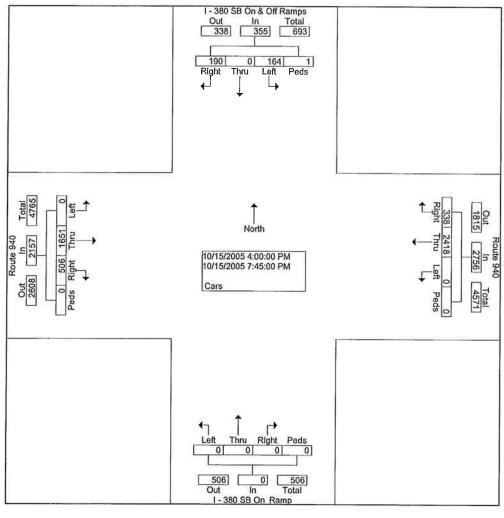
Coatsville, PA 19320 (610) 466-1469

Location: Monroe Co., PA Intersection: Rt. 940 / I380 SB Ramps

Date: Saturday, October 15, 2005

Counter: JT

File Name : BG1015-4 Site Code : 00000000 Start Date : 10/15/2005



Location: Monroe Co., PA Intersection: Rt. 940 / I380 SB Ramps

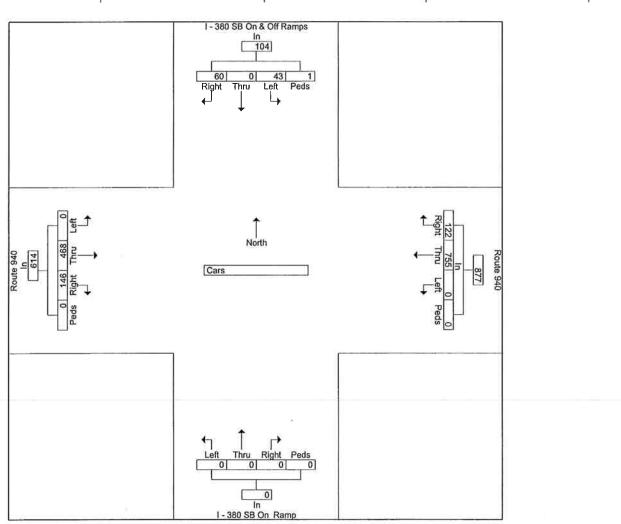
Date: Saturday, October 15, 2005

Counter: JT

Coatsville, PA 19320 File Name: BG1015-4 (610) 466-1469 Site Code: 00000000 Start Date: 10/15/2005

	1 - 3	380 SE	On &	Off Rar	nps		F	Route 9	40			I - 380 SB O	n Ramp			F	Route 9	40		
		Fi	rom No	rth			F	rom Ea	ast			From So	outh				rom W	est		
Ctast Time	Rig	Thr	Loft	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr Left	Ped	App.	Rig	Thr	Left	Ped	App.	Int.
Start Time	ht	u	Left	s	Total	ht	u	Leit	s	Total	ht	u Leit	s	Total	ht	u	Len	s	Total	Total
Peak Hour Fr	om 04	00 PA	1 to 06	:00 PM	I - Peak	1 of 1													1000	

out Hour III	0111 0 11	0011		0011												1.74						
By Approach	04:45	PM				04:00	PM				04	1:00 P	M				04:00	PM				
Volume	60	0	43	1	104	122	755	0	0	877		0	0	0	0	0	146	468	0	0	614	
Percent	57.7	0.0	41.3	1.0		13.9	86.1	0.0	0.0			-	-	-			23.8	76.2	0.0	0.0		
High Int.	05:15	PM				04:00	PM				-						04:15	PM				
Volume	17	0	12	0	29	40	218	0	0	258		75.	-	-	-	-	51	118	0	0	169	
Peak					0.897					0.850											0.908	
Factor					0.001					0.000											0.000	



Location: Monroe Co., PA

Intersection: Rt. 940 / I380 SB Ramps

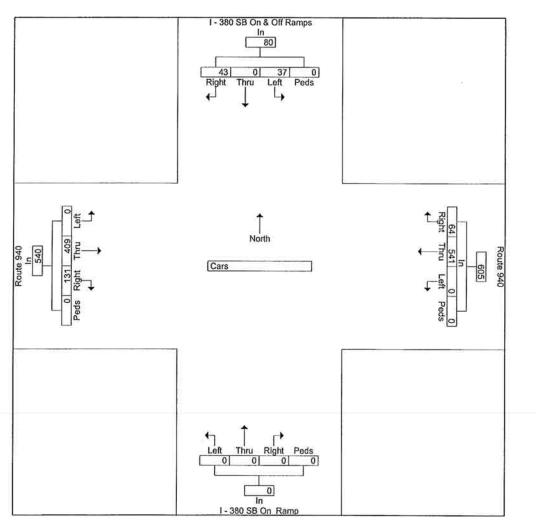
Date: Saturday, October 15, 2005

Counter: JT

Coatsville, PA 19320 File Name: BG1015-4 (610) 466-1469 Site Code: 00000000

Start Date : 10/15/2005

	1 -	380 SE	3 On &	Off Rar	nps		F	Route 9	40			I - 380	SB Or	Ramp			F	Route 9	40		
		F	rom No	rth			F	rom Ea	ast			Fr	om So	uth			F	rom W	est		
Start Time	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr	Left	Ped	App. Total	Rig ht	Thr u	Left	Ped	App. Total	To
eak Hour F	-		1 to 07												Total	110			0	TOtal	
By Approach	06:15	PM				06:15	РМ				06:15	PM				06:15	PM				
Volume	43	0	37	0	80	64	541	0	0	605	0	0	0	0	0	131	409	0	0	540	
Percent	53.8	0.0	46.3	0.0		10.6	89.4	0.0	0.0		-	14	-	-		24.3	75.7	0.0	0.0		
High Int.	06:15	PM				06:15	PM				2.7					06:30	PM				
Volume	14	0	13	0	27	14	153	0	0	167	-	-	-		#	36	134	0	0	170	/
Peak Factor					0.741					0.906					=	1.757-1				0.794	



Location: Monroe Co., PA Coatsville, PA 19320 Intersection: Rt. 940 / I380 NB Ramps

(610) 466-1469

File Name: I380NB~1 Site Code : 00000000 Start Date: 10/14/2005

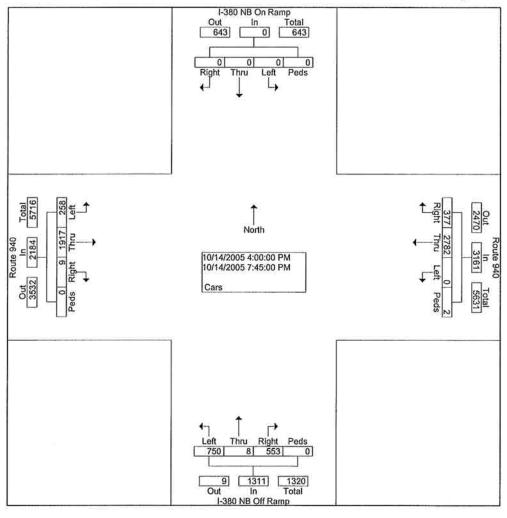
Date: Friday, October 14, 2005

Page No

Counter: ET

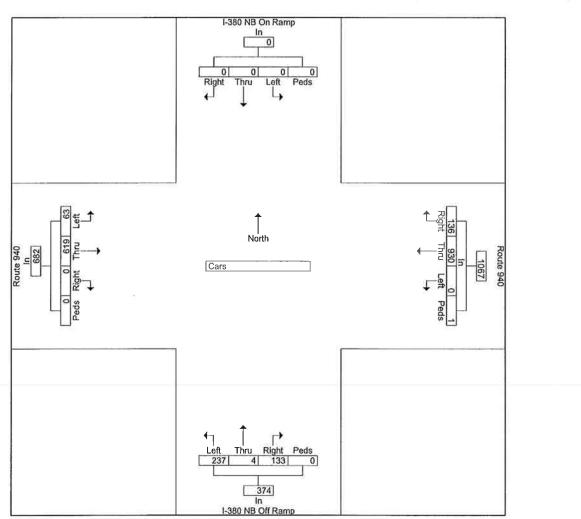
Groups Printed- Cars I-380 NB On Ramp Route 940 I-380 NB Off Ramp Route 940 From North From East From South From West Start Rig Thr Ped App. Rig App. Rig Ped App. Rig Thr Ped App. Thr Left Ped Int. Left Left Left Time ht Total ti ht Total u ht Total ht Total Total Factor 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 04:00 PM n 04:15 PM 04:30 PM 04:45 PM Total 05:00 PM 05:15 PM 05:30 PM 05:45 PM Total 06:00 PM n 06:15 PM 06:30 PM 06:45 PM 07:00 PM O 07:15 PM 07:30 PM 07:45 PM Total Grand Total 11. 88. 42. 57. 87. Apprch % 0.0 0.0 0.0 0.0 11. 0.0 0.1 0.6 0.0 0.4 0.0 41. 11. 28. Total % 0.0 0.0 0.0 0.0 5.7 0.0 0.0 0.0 47.5 8.3 0.1 0.0 19.7 0.1 3.9 0.0 32.8

File Name : I380NB~1 Site Code : 00000000 Start Date : 10/14/2005



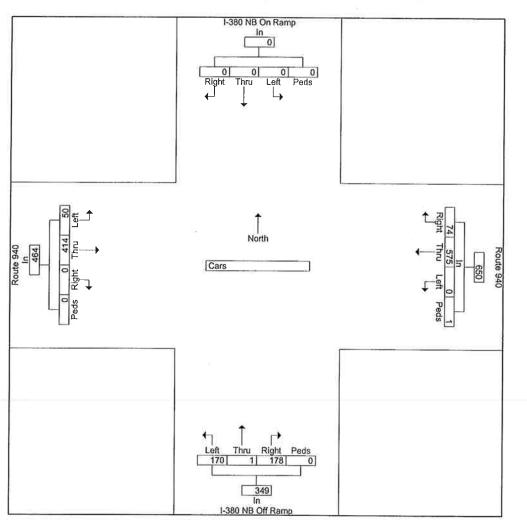
File Name : I380NB~1 Site Code : 00000000 Start Date : 10/14/2005

			NB Or	n Ramı orth	9			Route 9 rom E					NB Of rom Sc	C. 11. 11. 11. 11. 11. 11.)			Route 9			
Start Time	Rig ht	Thr	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Int Tota
eak Hour F	rom 0	4:00 F	PM to	06:00	PM - Pe	eak 1 c	of 1				00:							W		(:
By Approach	04:00	РМ				04:30	PM				05:15	PM				04:00	PM				
Volume	0	0	0	0	0	136	930	0	1	1067	133	4	237	0	374	0	619	63	0	682	ĺ
Percent	-	_	2	72		12. 7	87. 2	0.0	0.1		35. 6	1.1	63. 4	0,0		0.0	90. 8	9.2	0.0		
High Int.	-					04:30	PM (05:15	PM			ľ	04:15	PM			ĺ	1
Volume	_	-	-		3	34	249	0	0	283	37	1	65	0	103	0	168	13	0	181	ĺ
Peak										0.94					0.90					0.94	
Factor										3					8					2	



File Name : I380NB~1 Site Code : 00000000 Start Date : 10/14/2005

		I-		NB Or)			Route 9					NB Of	f Ramp)			Route 9			1
Start Time	Rig ht		Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr	Left	Ped	App. Total	Rig ht	Thr	Left	Ped	App. Total	Int. Total
Peak Hour F	rom	06:	15 F	M to	07:45	PM - Pe	eak 1 c	of 1	-		-			-		Total					Total	Total
By Approach	06:1	5 F	PM				06:15	PM				06:15	PM				06:15	5 PM				
Volume	0		0	0	0	0	74	575	0	1	650	178	1	170	0	349	0	414	50	0	464	
Percent	-		(4)	24	÷		11. 4	88. 5	0.0	0.2		51. 0	0.3	48. 7	0.0		0.0	89. 2	10. 8	0.0		
High Int.	-						06:30	PM			8	06:45	PM)	06:15	5 PM			1	1
Volume	-		1	-	-	2	15	155	0	0	170	56	0	51	0	107	0	120	21	0	141	
Peak						- 2					0.95					0.81					0.82	
Factor						- 1					6					5					3	



Coatsville, PA 19320 (610) 466-1469

File Name: BG1015-3 Site Code : 00000000

Start Date : 10/15/2005

Page No : 1

Location: Monroe Co., PA

Intersection: Rt. 940 / I380 NB Ramps

Date: Saturday, October 15, 2005 Counter: ET

Counter.	L I								H20-20								Pa	ge 14	0 :	1	
		1.000	ND O	_						ups Prin	ted- Ca										
				Ramp				Rout 94					NB Of					Rout 94			
	Dia		rom No	,	100	Dia		rom Ea		A	Di. I		rom So			D.		rom W			
Start Time	Rig ht	Thr	Left	Ped	App. Total	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Int.
Factor	1.0	1.0	1.0	1.0	Total	ht	1.0	10	S 4.0	Total	ht	u	10	S	Total	ht	u		S	Total	Total
04:00 PM	0.1	0.1	0.1	0	0	1.0	211	1.0	1.0	004	1.0	1.0	1.0	1.0	0.4	1.0	1.0	1.0	1.0		
04:15 PM	0	0	0	0	0	14	187	0	0	224 201	33	0	51	0	84	0	103	17	0	120	428
04:30 PM	0	0	0	0	0	17	174	0	0		29	0	43	0	72	0	122	6	0	128	401
04:45 PM	0	0	0	1	1	1 17		-	_	191		0	33	0	63	0	126	11	0	137	391
Total	0	0	0	+	1	51	153 725	0	0	160 776	28	<u>1</u> 1	43	0	72	0	99	10	0	109	342
Total	U	U	U	J	1	31	123	U	U	110	120	ı	170	0	291	0	450	44	0	494	1562
05:00 PM	0	0	0	0	0	9	153	0	0	162	37	0	38	0	75	0	108	16	0	124	361
05:15 PM	0	0	0	0	0	6	137	0	0	143	29	0	45	0	74	0	121	20	Ö	141	358
05:30 PM	0	0	0	0	0	6	130	0	0	136	31	0	41	0	72	0	112	12	0	124	332
05:45 PM	0	0	0	0	0	10	134	0	0	144	31	2	38	0	71	0	117	13	0	130	345
Total	0	0	0	0	0	31	554	0	0	585	128	2	162	0	292	0	458	61	0	519	1396
06:00 PM	0	0	0	0	0.1	15	1 1 1	0	0	450	. 44	^	0.4	0	70.1					19	
06:00 PM	0	0	0	0	0	15 5	141 138	0	0	156 143	41	0	31	0	72	0	92	4	0	96	324
06:30 PM	0	0	0	0	0	11	110	0	0	121	48 33	3 1	33	0	84	0	92	14	0	106	333
06:45 PM	0	0	0	0	0	8	125	0	0	133	30	0	42 23	0	76	0	139	9	0	148	345
Total	-0	0	0	0	0	39	514	0	- 0	553	152	4	129	0	53	0	94	15	0	109	295
Total	U	U	U	U	0 1	39	314	U	U	555	102	4	129	U	285	0	417	42	0	459	1297
07:00 PM	0	0	0	0	0	19	119	0	0	138	26	0	32	0	58	0	76	10	0	86	282
07:15 PM	0	0	0	0	0	8	111	0	0	119	21	0	28	0	49	0	80	7	0	87	255
07:30 PM	0	0	0	0	0	4	128	0	0	132	24	0	22	0	46	0	86	11	0	97	275
07:45 PM	0	0	0	0	0	5	87	0	0	92	27	0	22	0	49	0	68	11	0	79	220
Total	0	0	0	0	0	36	445	0	0	481	98	0	104	0	202	0	310	39	0	349	1032
Grand					- 1		223			1					7		400			- 3	
Total	0	0	0	1	1	157	223 8	0	0	2395	498	7	565	0	1070	0	163	186	0	1821	5287
	0.0	0.0	0.0	100.		0.0	•	0.0	0.0		40.5	۰. ٦			1					1	
Apprch %	0.0	0.0	0.0	0		6.6	93.4	0.0	0.0		46.5	0.7	52.8	0.0		0.0	89.8	10.2	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	3.0	42.3	0.0	0.0	45.3	9.4	0.1	10.7	0.0	20.2	0.0	30.9	3.5	0.0	34.4	

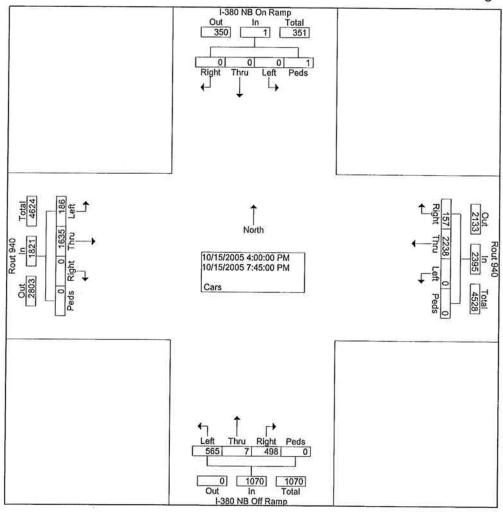
(610) 466-1469

Location: Monroe Co., PA

Intersection: Rt. 940 / I380 NB Ramps

Date: Saturday, October 15, 2005 Counter: ET

File Name: BG1015-3 Site Code : 00000000 Start Date : 10/15/2005



Location: Monroe Co., PA

Intersection: Rt. 940 / I380 NB Ramps

Date: Saturday, October 15, 2005

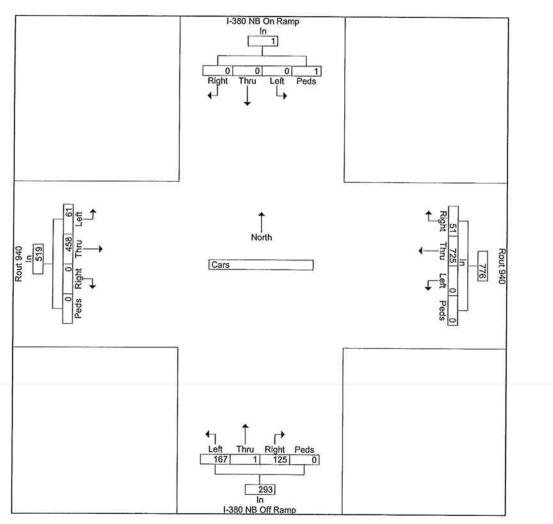
Counter: ET

Coatsville, PA 19320 (610) 466-1469

File Name: BG1015-3 Site Code : 00000000 Start Date : 10/15/2005

Page No	: 3
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				Ramp				Rout 94					NB Off			- 8		Rout 94	10		ľ
		- F	rom No	orth			F	rom Ea	ist			F	rom So	uth			F	rom W	est		
Start Time	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Int
	L ht	u		S	Total	ht	u		S	Total	ht	u		S	Total	ht	u		S	Total	Tota
Peak Hour Fi	rom 04.	:00 PN	1 to 06	:00 PN	1 - Peak	1 of 1															
By Approach	04:00	PM				04:00	РМ				04:45	PM				05:00	PM				
Volume	0	0	0	1	1	51	725	0	0	776	125	1	167	0	293	0	458	61	0	519	6
Percent	0.0	0.0	0.0	100. 0		6.6	93.4	0.0	0.0		42.7	0.3	57.0	0.0		0.0	88.2	11.8	0.0		
High Int.	04:45	PM				04:00	PM				05:00	PM			1	05:15	PM			i	
Volume	0	0	0	1	1	13	211	0	0	224	37	0	38	0	75	0	121	20	0	141	
Peak Factor					0.250					0.866			•	Ū	0.977	J	,_,	20	Ü	0.920	



Location: Monroe Co., PA

Intersection: Rt. 940 / I380 NB Ramps

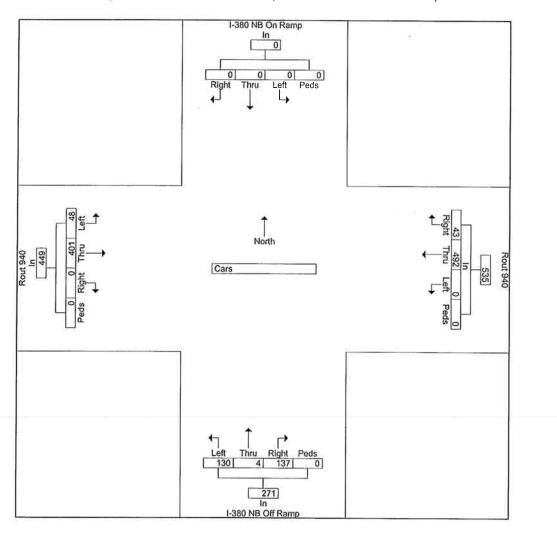
Date: Saturday, October 15, 2005

Counter: ET

Coatsville, PA 19320 (610) 466-1469

File Name : BG1015-3 Site Code : 00000000 Start Date : 10/15/2005

		F	NB On				F	Rout 94 rom Ea	ast			F	NB Off	Ramp uth				Rout 94 rom W			
Start Time	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Int. Total
Peak Hour Fr	rom 06	:15 PM	1 to 07	:45 PN	1 - Peak	1 of 1															
By Approach	06:15	PM				06:15	PM				06:15	PM				06:15	PM				
Volume	0	0	0	0	0	43	492	0	0	535	137	4	130	0	271	0	401	48	0	449	Ï
Percent	-	-	-	-		8.0	92.0	0.0	0.0		50.6	1.5	48.0	0.0		0.0	89.3	10.7	0.0		
High Int.	-					06:15	PM				06:15	PM				06:30			9,10	ĺ	
Volume	-	-	-	-	-	5	138	0	0	143	48	3	33	0	84	0	139	9	0	148	i i
Peak Factor					-					0.935					0.807					0.758	



Location: Monroe Co, PA Intersectionj Rt 314 /EB Ramps To 940

Date:Friday October 14 2005

Counter: RZ

Coatsville, PA 19320 (610) 466-1469

File Name: 314&94~2 Site Code : 00000000 Start Date : 10/14/2005

Page No : 1

							Groups	Printed-	Care				. ~ 5	,0 , (0	• '	
			RT 314				Oroups	RT 314				P RA	MPS AT	040		
		F	rom Nor	th			F	rom Sou					From We			
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0	TOtal	Total
04:00 PM	7	17	0	0	24	0	42	9	0	51	16	0	17	0	33	108
04:15 PM	7	17	0	0	24	0	54	7	0	61	19	0	13	0	32	117
04:30 PM	4	24	0	0	28	0	45	13	0	58	26	ő	21	ő	47	133
04:45 PM	6	13	0	0	19	0	81	11	Ō	92	12	Ö	21	Ö	33	144
Total	24	71	0	0	95	0	222	40	0	262	73	0	72	0	145	502
05:00 PM	4	15	0	0	19	0	56	9	0	65	17	0	17	0	34	118
05:15 PM	1	12	0	0	13	0	75	10	0	85	19	Ö	16	ő	35	133
05:30 PM	4	17	0	0	21	0	49	11	0	60	23	ő	14	ő	37	118
05:45 PM	5	9	0	0	14	0	43	7	0	50	16	ŏ	13	ő	29	93
Total	14	53	0	0	67	0	223	37	0	260	75	0	60	0	135	462
06:00 PM	4	14	0	0	18	0	34	5	0	39	10	0	22	0	32	89
06:15 PM	3	9	0	0	12	0	25	3	0	28	16	Ö	16	ő	32	72
06:30 PM	7	14	0	0	21	0	31	7	0	38	13	Õ	22	0	35	94
06:45 PM	3	10	0	0	13	0	18	10	0	28	15	Ö	15	Ö	30	71
Total	17	47	0	0	64	0	108	25	0	133	54	ő	75	0	129	326
07:00 PM	0	12	0	0	12	0	19	5	0	24	6	0	7	0	13	49
07:15 PM	3	8	0	0	11	0	23	5	Õ	28	16	Ő	6	0	22	61
07:30 PM	0	7	0	0	7	0	17	4	0	21	12	ő	11	0	23	51
07:45 PM	1	11	0	0	12	0	18	4	Ō	22	4	Ö	12	0	16	50
Total	4	38	0	0	42	0	77	18	0	95	38	0	36	0	74	211
Grand Total	59	209	0	0	268	0	630	120	0	750	240	0	243	0	483	1501
Apprch %	22.0	78.0	0.0	0.0		0.0	84.0	16.0	0.0	2.30	49.7	0.0	50.3	0.0	400	1001
Total %	3.9	13.9	0.0	0.0	17.9	0.0	42.0	8.0	0.0	50.0	16.0	0.0	16.2	0.0	32.2	

Coatsville, PA 19320 (610) 466-1469

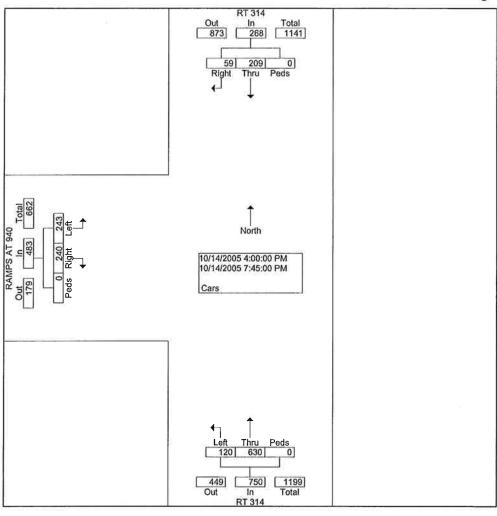
Location: Monroe Co, PA

Intersectionj Rt 314 /EB Ramps To 940

Date:Friday October 14 2005

Counter: RZ

File Name : 314&94~2 Site Code : 00000000 Start Date : 10/14/2005



Coatsville, PA 19320

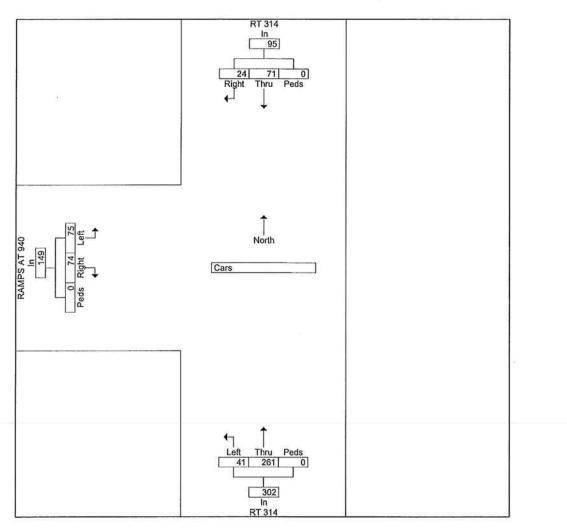
Location: Monroe Co, PA Intersectionj Rt 314 /EB Ramps To 940 (610) 466-1469

Date:Friday October 14 2005

Counter: RZ

File Name: 314&94~2 Site Code : 00000000 Start Date : 10/14/2005

			RT 314					RT 314				6 RA	MPS AT	040		
		J	From Nor					From Sou					From We			
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour From	04:00 P	M to 06:	00 PM -	Peak 1 c	of 1											
By Approach	04:00 P	M				04:45 P	М				04:30 P	M			J	
Volume	24	71	0	0	95	0	261	41	0	302	74	0	75	0	149	
Percent	25.3	74.7	0.0	0.0		0.0	86.4	13.6	0.0		49.7	0.0	50.3	0.0	4	
High Int.	04:30 P	M				04:45 P	M				04:30 P	M			1	
Volume	4	24	0	0	28	0	81	11	0	92	26	0	21	0	47	
Peak Factor					0.848					0.821					0.793	



Location: Monroe Co, PA

Intersectionj Rt 314 /EB Ramps To 940

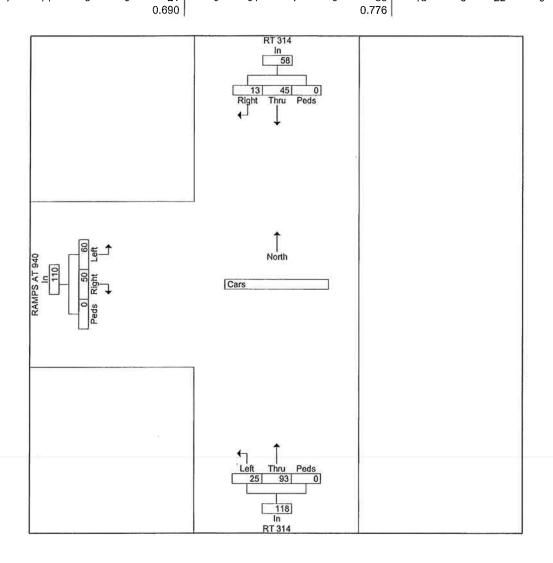
Date:Friday October 14 2005

Counter: RZ

Coatsville, PA 19320 (610) 466-1469

File Name: 314&94~2 Site Code : 00000000 Start Date : 10/14/2005

												-0				
			RT 314					RT 314				ピリ RA	MPS AT	940		
			From Nor	th				From Sou	ıth				From We	est		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour From	06:15 P	M to 07:	45 PM -	Peak 1 o	of 1	N.					(C					
By Approach	06:15 P	M				06:15 P	M				06:15 P	M				
Volume	13	45	0	0	58	0	93	25	0	118	50	0	60	0	110	
Percent	22.4	77.6	0.0	0.0		0.0	78.8	21.2	0.0		45.5	0.0	54.5	0.0		
High Int.	06:30 P	M				06:30 P	M				06:30 P	M			1	
Volume	7	14	0	0	21	0	31	7	0	38	13	0	22	0	35	
Peak Factor					0.690					0.776					0.786	



Coatsville, PA 19320 (610) 466-1469

File Name: BG1015-5 Site Code : 00000000 Start Date : 10/15/2005

Page No : 1

Location: Monroe Co, PA

Intersection: Rt 314 /EB Ramps to 940

Date:Saturday October 15 2005 Counter: RZ

										Gro	ups Print	ted- Ca	ars						_			
Start Time	1													RT 31	4			EB R	AMPS	TO 940		
Factor 1.0 1				rom No					rom Ea					rom So	uth			F	rom W	est		
Factor 1.0 1	Start Time			Left	Ped			Thr	Left	Ped		Rig	Thr	Loft	Ped	App.	Rig	Thr	Laft	Ped	App.	Int.
Factor 1,0 1		ht				Total					Total	ht	u	Leit	s	Total	ht	u	Leit	s		Total
04:10 PM			-				1.0		1.0	1.0		1.0		1.0	1.0		1.0	1.0	1.0	1.0		
04:15 PM		•					0	_	0	0	0	0	37	5	0	42	13	0	12	0	25	78
04:30 PM		-	-	-	_		0	0	0	0	0	0	27	7	0	34	9	0	15	0	24	
Total 13 49 0 0 62 0 0 0 0 0 0 0 0 111 25 0 136 49 0 111 0 20 72 Total 13 49 0 0 0 62 0 0 0 0 0 0 0 111 25 0 136 49 0 49 0 98 296 05:00 PM 3 12 0 0 15 0 0 0 0 0 0 0 0 17 8 0 25 14 0 12 0 26 64 05:30 PM 0 7 0 0 0 7 0 0 0 0 0 0 0 17 8 0 25 14 0 12 0 26 64 05:30 PM 0 7 0 0 0 7 0 0 0 0 0 0 0 17 8 0 25 14 0 12 0 26 64 05:45 PM 3 18 0 0 21 0 0 0 0 0 0 0 19 5 0 24 7 0 7 0 11 0 23 61 05:45 PM 3 18 0 0 21 0 0 0 0 0 0 0 19 5 0 24 7 0 7 0 14 59 Total 10 45 0 1 56 0 0 0 0 0 0 0 24 4 0 28 12 0 11 0 23 67 06:15 PM 5 9 0 0 14 0 0 0 0 0 0 0 16 0 0 16 12 0 12 0 24 54 06:30 PM 1 12 0 0 13 0 0 0 0 0 0 0 10 8 0 18 21 0 18 0 39 70 06:45 PM 2 11 0 0 13 0 0 0 0 0 0 0 10 8 0 18 21 0 18 0 39 70 06:45 PM 2 11 0 0 13 0 0 0 0 0 0 0 10 8 0 18 21 0 18 0 39 70 06:45 PM 2 11 0 0 13 0 0 0 0 0 0 0 10 8 0 18 21 0 18 0 39 70 06:45 PM 2 11 0 0 13 0 0 0 0 0 0 0 16 6 0 22 5 0 0 117 258 07:00 PM 1 9 0 0 10 10 0 0 0 6 0 0 0 0 0 0 16 6 0 22 5 0 0 17 2 24 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				-			0		0	0	0	0	24	7	0	31	18	0	11	0	29	
Total 13 49 0 0 62 0 0 0 0 0 0 0 111 25 0 136 49 0 49 0 98 296 05:00 PM 3 12 0 0 15 0 0 0 0 0 0 0 0 17 8 0 25 14 0 12 0 26 64 05:30 PM 0 7 0 0 7 0 0 0 0 0 0 0 0 0 25 6 0 31 12 0 11 0 23 61 05:45 PM 3 18 0 0 21 0 0 0 0 0 0 0 0 19 5 0 24 7 0 7 0 14 59 Total 10 45 0 1 56 0 0 0 0 0 0 0 0 85 26 0 111 39 0 51 1 91 258 06:00 PM 6 10 0 0 16 0 0 0 0 0 0 0 0 24 4 0 28 12 0 11 0 23 67 06:30 PM 1 12 0 0 14 0 0 0 0 0 0 0 0 16 0 0 16 12 0 12 0 24 54 06:30 PM 1 12 0 0 13 0 0 0 0 0 0 0 16 0 0 16 12 0 12 0 24 54 06:30 PM 1 12 0 0 13 0 0 0 0 0 0 0 10 8 0 18 21 0 18 0 39 70 06:45 PM 2 11 0 0 13 0 0 0 0 0 0 0 18 5 0 23 12 0 19 0 31 67 Total 14 42 0 0 56 0 0 0 0 0 0 0 0 18 5 0 23 12 0 19 0 31 67 07:30 PM 1 5 0 0 0 6 0 0 0 0 0 0 0 0 0 0 16 6 0 0 22 5 0 7 0 12 44 07:15 PM 1 5 0 0 6 0 0 0 0 0 0 0 0 0 0 0 18 5 0 23 12 0 19 0 31 67 07:30 PM 1 5 0 0 6 0 0 8 0 0 0 0 0 0 0 0 16 2 0 18 0 0 0 117 258 07:45 PM 2 11 0 0 13 0 0 0 0 0 0 0 0 0 18 5 0 23 12 0 19 0 31 67 07:30 PM 1 5 0 0 6 0 0 8 0 0 0 0 0 0 0 0 16 0 0 22 5 0 7 0 12 44 07:15 PM 1 5 0 0 6 6 0 0 0 0 0 0 0 0 18 5 0 23 12 0 19 0 31 67 07:30 PM 2 6 0 0 0 8 0 0 0 0 0 0 0 0 13 3 0 16 4 0 7 0 11 35 07:30 PM 2 6 0 0 0 8 0 0 0 0 0 0 0 0 0 16 2 0 18 10 0 8 0 18 22 0 0 55 155 07 0 60 0 55 155 07:30 PM 2 6 0 0 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									0	0	0	0		6	0	29	9	0	11	0	20	
05:00 PM 3 12 0 0 15 0 0 0 0 0 0 0 24 7 0 31 6 0 21 1 28 74 05:15 PM 4 8 0 1 133 0 0 0 0 0 0 0 17 8 0 25 14 0 12 0 26 64 05:30 PM 0 7 0 0 0 7 0 0 0 0 0 0 0 0 25 6 0 31 12 0 11 0 23 61 05:45 PM 3 18 0 0 21 0 0 0 0 0 0 0 19 5 0 24 7 0 7 0 14 59 Total 10 45 0 1 56 0 0 0 0 0 0 0 0 85 26 0 111 39 0 51 1 91 258 06:45 PM 5 9 0 0 14 0 0 0 0 0 0 0 0 24 4 0 28 12 0 11 0 23 67 06:30 PM 1 12 0 0 14 0 0 0 0 0 0 0 0 16 8 0 18 21 0 18 0 39 70 06:45 PM 2 11 0 0 13 0 0 0 0 0 0 0 18 5 0 23 12 0 18 0 39 70 06:45 PM 2 11 0 0 13 0 0 0 0 0 0 0 18 5 0 23 12 0 18 0 39 70 06:45 PM 2 11 0 0 13 0 0 0 0 0 0 0 18 5 0 23 12 0 18 0 39 70 06:45 PM 2 11 0 0 13 0 0 0 0 0 0 0 0 18 5 0 23 12 0 18 0 39 70 07:15 PM 1 5 0 0 6 0 0 10 0 0 0 0 0 0 0 0 18 5 0 23 12 0 18 0 31 67 00:15 PM 1 5 0 0 6 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0	Total	13	49	0	0	62	0	0	0	0	0	0	111	25	0	136	49	0	49	0		
05:15 PM																	'			_	,	
05:15 PM				0	0		0	0	0	0	0	0	24	7	0	31	6	0	21	1	28	74
05:30 PM 0 7 0 0 0 7 0 0 0 0 0 0 0 0 0 25 6 0 31 12 0 11 0 23 61 05:45 PM 3 18 0 0 21 0 0 0 0 0 0 0 19 5 0 24 7 0 7 0 14 59 Total 10 45 0 1 56 0 0 0 0 0 0 0 0 85 26 0 111 39 0 51 1 91 258 06:00 PM 6 10 0 0 16 0 0 0 16 0 0 0 0 0 0 0 0 0		4		0	1	13	0	0	0	0	0	0	17	8	0	25	14					
05:45 PM 3 18 0 0 21 0 0 0 0 19 5 0 24 7 0 7 0 14 59 Total 10 45 0 1 56 0 0 0 0 0 111 39 0 51 1 91 258 06:00 PM 6 10 0 0 16 0 0 0 0 0 24 4 0 28 12 0 11 0 23 67 06:15 PM 5 9 0 0 14 0 0 0 0 0 16 0 0 12 0 24 54 06:30 PM 1 12 0 0 13 0 0 0 0 18 0 18 21 0 18 0 39 70 0 06:45 PM 2				0	0		0	0	0	0	0	0	25	6	0	31	12			-		
Total 10 45 0 1 56 0 0 0 0 0 0 0 85 26 0 111 39 0 51 1 91 258 06:00 PM 6 10 0 0 16 0 0 0 0 0 0 0 24 4 0 28 12 0 11 0 23 67 06:15 PM 5 9 0 0 14 0 0 0 0 0 0 0 16 0 0 0 16 12 0 12 0 24 54 06:30 PM 1 12 0 0 13 0 0 0 0 0 0 0 10 8 0 18 21 0 18 0 39 70 06:45 PM 2 11 0 0 13 0 0 0 0 0 0 0 18 5 0 23 12 0 19 0 31 67 Total 14 42 0 0 56 0 0 0 0 0 0 0 18 5 0 23 12 0 19 0 31 67 07:00 PM 1 9 0 0 10 0 0 0 0 0 0 0 68 17 0 85 57 0 60 0 117 258 07:00 PM 1 9 0 0 0 10 0 0 0 0 0 0 16 6 0 0 22 5 0 7 0 12 44 07:15 PM 1 5 0 0 6 0 0 0 0 0 0 0 0 12 2 0 14 7 0 7 0 11 35 07:30 PM 2 6 0 0 8 0 0 0 0 0 0 0 13 3 3 0 16 4 0 7 0 11 35 07:45 PM 2 4 0 0 6 0 0 0 0 0 0 0 16 2 0 18 10 0 8 0 18 42 Total 6 24 0 0 30 0 0 0 0 0 0 0 0 16 2 0 18 10 0 8 0 18 42 Total 6 24 0 0 0 55 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				.0	0		0	0	0	0	0	0	19	- 5	0	24			7	_		
06:00 PM 6 10 0 0 16 0 0 0 0 0 0 0 0 24 4 0 28 12 0 11 0 23 67 06:15 PM 5 9 0 0 14 0 0 0 0 0 0 0 16 0 0 16 12 0 12 0 24 54 06:30 PM 1 12 0 0 13 0 0 0 0 0 0 0 10 8 0 18 21 0 18 0 39 70 06:45 PM 2 11 0 0 13 0 0 0 0 0 0 0 18 5 0 23 12 0 19 0 31 67 Total 14 42 0 0 56 0 0 0 0 0 0 0 0 0 16 6 0 0 22 5 0 7 0 11 2 44 07:15 PM 1 5 0 0 6 6 0 0 0 0 0 0 0 0 16 6 0 0 22 5 0 7 0 14 34 07:30 PM 2 6 0 0 8 0 0 0 0 0 0 0 0 16 2 0 18 10 0 8 0 18 21 0 19 35 155 07:45 PM 2 4 0 0 6 0 0 0 0 0 0 0 0 16 2 0 18 10 0 8 0 18 21 0 19 0 31 67 07:45 PM 2 4 0 0 6 0 0 0 0 0 0 0 0 0 16 2 0 18 10 0 8 0 18 42 Total 43 160 0 1 204 0 0 0 0 0 0 0 0 0 16 2 0 18 10 0 8 0 18 42 Total 43 160 0 1 204 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total	10	45	0	1	56	0	0	0	0	0	0	85	26	0		39		51			
06:15 PM 5 9 0 0 14 0 0 0 0 0 0 16 0 0 0 16 12 0 12 0 24 54 06:30 PM 1 12 0 0 13 0 0 0 0 0 0 0 10 8 0 18 21 0 18 0 39 70 06:45 PM 2 11 0 0 13 0 0 0 0 0 0 0 18 5 0 23 12 0 19 0 31 67 Total 14 42 0 0 56 0 0 0 0 0 0 0 16 6 0 0 22 5 0 7 0 11 258 07:15 PM 1 5 0 0 6 6 0 0 0 0 0 0 0 16 6 0 0 22 5 0 7 0 12 44 07:15 PM 1 5 0 0 6 0 0 8 0 0 0 0 0 0 13 3 0 16 4 0 7 0 11 35 07:45 PM 2 4 0 0 6 0 0 0 0 0 0 0 0 16 2 0 18 10 0 8 0 18 22 0 14 7 0 7 0 11 35 07:45 PM 2 4 0 0 6 0 0 0 0 0 0 0 0 16 2 0 18 10 0 8 0 18 42 Total 6 24 0 0 30 30 0 0 0 0 0 0 0 0 16 2 0 18 10 0 8 0 18 42 Total 6 24 0 0 30 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0						27												- 33		•	911	200
06:15 PM 5 9 0 0 14 0 0 0 0 0 0 16 0 0 16 12 0 12 0 24 54 06:30 PM 1 12 0 0 13 0 0 0 0 0 0 0 10 8 0 18 21 0 18 0 39 70 06:45 PM 2 11 0 0 13 0 0 0 0 0 0 0 18 5 0 23 12 0 19 0 31 67 Total 14 42 0 0 56 0 0 0 0 0 0 0 16 6 0 22 5 0 7 0 60 0 117 258 07:00 PM 1 9 0 0 10 0 0 0 0 0 0 16 6 0 0 22 5 0 7 0 12 44 07:15 PM 1 5 0 0 6 0 0 0 0 0 0 0 12 2 0 14 7 0 7 0 14 34 07:30 PM 2 6 0 0 8 8 0 0 0 0 0 0 0 13 3 0 16 4 0 7 0 11 35 07:45 PM 2 4 0 0 6 0 0 0 0 0 0 0 16 2 0 18 10 0 8 0 18 42 Total 6 24 0 0 30 0 0 0 0 0 0 0 0 16 2 0 18 10 0 8 0 18 42 Total 6 24 0 0 30 0 0 0 0 0 0 0 0 0 0 0 16 2 0 18 10 0 8 0 18 42 Total 6 24 0 0 0 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6	10	0	0	16	0	0	0	0	0	0	24	4	0	28	12	0	11	0	23	67
06:30 PM		5		0	0	14	0	0	0	0	0	0	16	0	0							
06:45 PM 2 11 0 0 13 0 0 0 0 0 0 18 5 0 23 12 0 19 0 31 67 Total 14 42 0 0 56 0 0 0 0 0 0 0 68 17 0 85 57 0 60 0 117 258 07:00 PM 1 9 0 0 10 0 0 0 0 0 0 16 6 0 0 22 5 0 7 0 12 44 07:15 PM 1 5 0 0 6 0 0 0 0 0 0 0 0 12 2 0 14 7 0 7 0 14 34 07:30 PM 2 6 0 0 8 0 0 0 0 0 0 0 0 13 3 0 16 4 0 7 0 11 35 07:45 PM 2 4 0 0 6 0 0 0 0 0 0 0 0 16 2 0 18 10 0 8 0 18 42 Total 6 24 0 0 30 0 0 0 0 0 0 0 0 0 57 13 0 70 26 0 29 0 55 155		1	. —	0	0	13	0	0	0	0	0	0	10	8	0	18						
Total 14 42 0 0 56 0 0 0 0 0 0 0 68 17 0 85 57 0 60 0 117 258 07:00 PM 1 9 0 0 10 0 0 0 0 0 0 16 6 0 22 5 0 7 0 12 44 07:15 PM 1 5 0 0 6 0 0 0 0 0 0 0 0 12 2 0 14 7 0 7 0 14 34 07:30 PM 2 6 0 0 8 0 0 0 0 0 0 0 13 3 0 16 4 0 7 0 11 35 07:45 PM 2 4 0 0 6 0 0 0 0 0 0 0 16 2 0 18 10 0 8 0 18 42 Total 6 24 0 0 30 0 0 0 0 0 0 0 0 57 13 0 70 26 0 29 0 55 155 Grand Total 43 160 0 1 204 0 0 0 0 0 0 0 0 321 81 0 402 171 0 189 1 361 967 Apprich % 21.1 78.4 0.0 0.5 0.0 0.0 0.0 0.0 0.0 0.0 79.9 20.1 0.0 47.4 0.0 52.4 0.3				0	0		0	0	0	0	0	0	18	5	0	23	12	-		_		
07:00 PM	Total	14	42	0	0	56	0	0	0	0	0	0	68	17	0		57					
07:15 PM						201 = 14					- 3							177			A20.18	
07:15 PM 1 5 0 0 6 0 0 0 0 0 0 0 12 2 0 14 7 0 7 0 14 34 07:30 PM 2 6 0 0 8 0 0 0 0 0 0 0 0 13 3 0 16 4 0 7 0 11 35 07:45 PM 2 4 0 0 6 0 0 0 0 0 0 0 16 2 0 18 10 0 8 0 18 42 Total 6 24 0 0 30 0 0 0 0 0 0 0 57 13 0 70 26 0 29 0 55 155 Grand Total 43 160 0 1 204 0 0 0 0 0 0 0 0 321 81 0 402 171 0 189 1 361 967 Apprich 6 21.1 78.4 0.0 0.5 0.0 0.0 0.0 0.0 0.0 0.0 79.9 20.1 0.0 47.4 0.0 52.4 0.3		1		0	0	10	0	0	0	0	0	0	16	6	0	22	5	0	7	0	12	44
07:30 PM 2 6 0 0 8 0 0 0 0 0 0 0 13 3 0 16 4 0 7 0 11 35 07:45 PM 2 4 0 0 6 0 0 0 0 0 0 0 16 2 0 18 10 0 8 0 18 42 Total 6 24 0 0 30 0 0 0 0 0 0 0 57 13 0 70 26 0 29 0 55 155 Grand Total 43 160 0 1 204 0 0 0 0 0 0 0 0 321 81 0 402 171 0 189 1 361 967 Apprich % 21.1 78.4 0.0 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 79.9 20.1 0.0 47.4 0.0 52.4 0.3		1	-	0	0	6	0	0	0	0	0	0	12	2	0		7		7	_		
O7:45 PM 2 4 0 0 6 0 0 0 0 0 16 2 0 18 10 0 8 0 18 42 Total 6 24 0 0 30 0 0 0 0 57 13 0 70 26 0 29 0 55 155 Grand Total 43 160 0 1 204 0 0 0 0 321 81 0 402 171 0 189 1 361 967 Appreh % 21.1 78.4 0.0 0.5 0.0 0.0 0.0 0.0 79.9 20.1 0.0 47.4 0.0 52.4 0.3		2	6	0	0	8	0	0	0	0	0	0	13	3	0	16	4		7			
Total 6 24 0 0 30 0 0 0 0 0 0 57 13 0 70 26 0 29 0 55 155 Grand Total 43 160 0 1 204 0 0 0 0 0 0 0 321 81 0 402 171 0 189 1 361 967 Appreh % 21.1 78.4 0.0 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 79.9 20.1 0.0 47.4 0.0 52.4 0.3	07:45 PM	2		0		6	0	0	0	0	0	0	16	2	0		10		8		0.00	
Total 45 160 0 1 204 0 0 0 0 0 0 321 81 0 402 171 0 189 1 361 967 Apprch % 21.1 78.4 0.0 0.5 0.0 0.0 0.0 0.0 0.0 0.0 79.9 20.1 0.0 47.4 0.0 52.4 0.3	Total	6	24	0	0	30	0	0	0	0	0	0	57	13	0		26					
Total 45 160 0 1 204 0 0 0 0 0 0 321 81 0 402 171 0 189 1 361 967 Apprch % 21.1 78.4 0.0 0.5 0.0 0.0 0.0 0.0 0.0 0.0 79.9 20.1 0.0 47.4 0.0 52.4 0.3	Grand					1					- 1										107	
Appreh % 21.1 78.4 0.0 0.5 0.0 0.0 0.0 0.0 0.0 79.9 20.1 0.0 47.4 0.0 52.4 0.3		43	160	0	1	204	0	0	0	0	0	0	321	81	0	402	171	0	189	1	361	967
Total 9/ 44 40 F 00 04 044 00 00 00 00 00 00 00 00 00 00		21.1	78 4	0.0	0.5		0.0	٥٥	0.0	0.0		0.0	70.0	20.4	0.0	-		_				001
10.61 /0 4.4 10.3 0.0 0.1 21.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 33.2 8.4 0.0 41.6 17.7 0.0 19.5 0.1 37.3						21.1					0.0											
	TOTAL 70	4.4	10.0	0.0	0.1	21.1	0.0	0.0	0,0	0.0	0.0	0.0	33.2	8.4	0.0	41.6	17.7	0.0	19.5	0.1	37.3	

Coatsville, PA 19320

(610) 466-1469

Date:Saturday October 15 2005 Counter: RZ

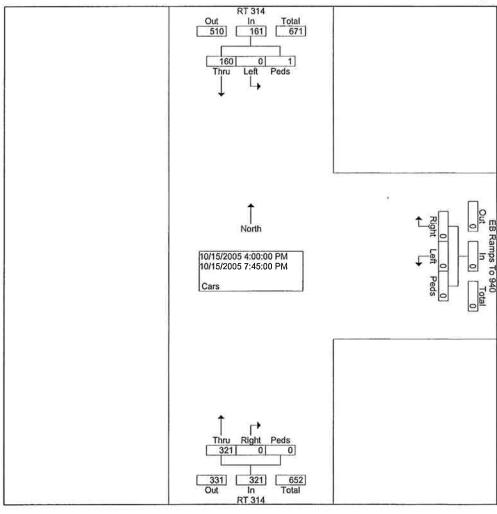
Location: Monroe Co, PA

Intersection: Rt 314 /EB Ramps to 940

Start Date : 10/15/2005

File Name: BG1015-5

Site Code : 00000000



Location: Monroe Co, PA

Intersection: Rt 314 /EB Ramps to 940

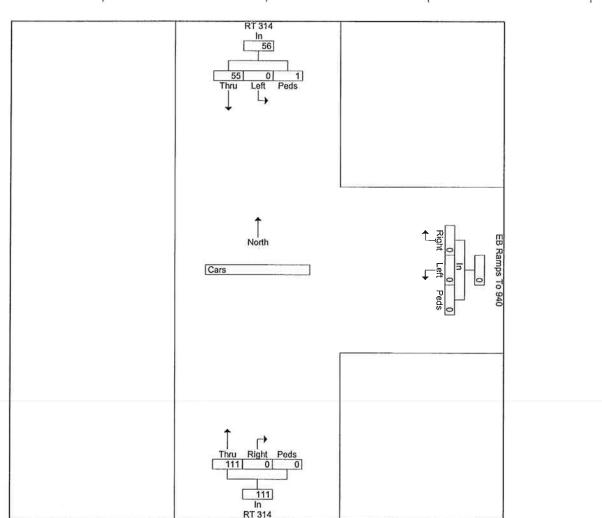
Date:Saturday October 15 2005

Counter: RZ

Coatsville, PA 19320 (610) 466-1469

File Name : BG1015-5 Site Code : 00000000 Start Date : 10/15/2005

			RT 314	4			EB R	amps *	Го 940				RT 31	4			EB R/	AMPS :	TO 940		
		F	rom No	rth			F	rom Ea	ast			F	rom So	uth			F	rom W	est		
Start Time	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	Арр.	Int.
Otal Cilling	ht	u	1011	S	Total	ht	บ	Lon	S	Total	ht	u	LOIL	S	Total	ht	u	Lon	S	Total	Total
Peak Hour F	rom 04	:00 PN	1 to 06	:00 PN	1 - Peak	1 of 1															
Ву	04:30	DM			1	04:00	DM				04:00	D14				04:30	D8.4			1	
Approach	04.30	PIVI				04.00	PIVI				04.00	PIVI				04:30	PIVI				
Volume	13	55	0	1	69	0	0	0	0	0	0	111	25	0	136	47	0	55	1	103	
Percent	18.8	79.7	0.0	1.4		0.41		-	=		0.0	81.6	18.4	0.0	l,	45.6	0.0	53.4	1,0		
High Int.	04:45	PM				-					04:00	PM			1	04:30	PM			ĺ	
Volume	2	21	0	0	23		=	-	-	194	0	37	5	0	42	18	0	11	0	29	
Peak					0.750										0.010					0.000	
Factor					0.750										0.810					0.888	



Location: Monroe Co, PA

Intersection: Rt 314 /EB Ramps to 940

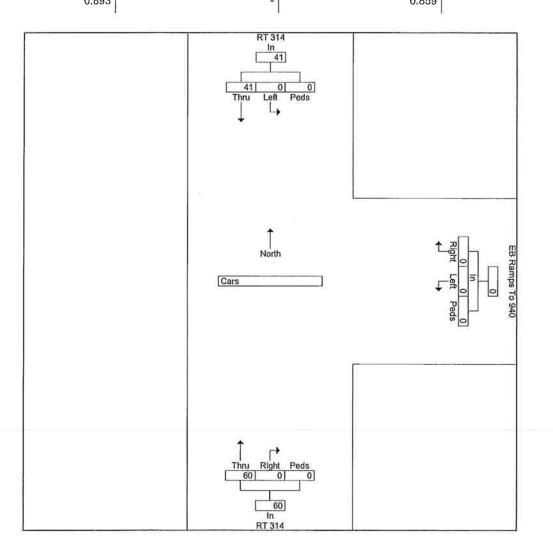
Date:Saturday October 15 2005

Counter: RZ

Coatsville, PA 19320 (610) 466-1469

File Name : BG1015-5 Site Code : 00000000 Start Date : 10/15/2005

			RT 31					amps Trom Ea					RT 31-					AMPS on W	TO 940		
Ot- at Ti-s	Rig	Thr		Ped	App.	Rig	Thr		Ped	App.	Rig			Ped	App.	Rig	Thr		Ped	App.	Int.
Start Time	ht	u	Left	s	Total	ht	u	Left	s	Total	ht	u.	Left	s	Total	ht	u	Left	S	Total	Total
Peak Hour F	rom 06	:15 PN	1 to 07	:45 PN	1 - Peak	1 of 1										0					
By Approach	06:15	ΡM				06:15	PM				06:15	PM				06:15	PM				
Volume	9	41	0	0	50	0	0	0	0	0	0	60	19	0	79	50	0	56	0	106	
Percent	18.0	82.0	0.0	0.0		=	=				0.0	75.9	24.1	0.0		47.2	0.0	52.8	0.0		
High Int.	06:15	PM				-					06:45	PM				06:30	PM				
Volume	5	9	0	0	14		7	- 2		-	0	18	5	0	23	21	0	18	0	39	
Peak Factor					0.893					72					0.859					0.679	



(610) 466-1469

File Name : 314&94~1 Site Code : 00000000 Start Date : 10/14/2005

Page No : 1

Date: Friday: October 14, 2005 Counter: JI

Location: Monroe Co. Pa.

Intersection: Rt 314 / Rt 940

Groups Printed- Cars

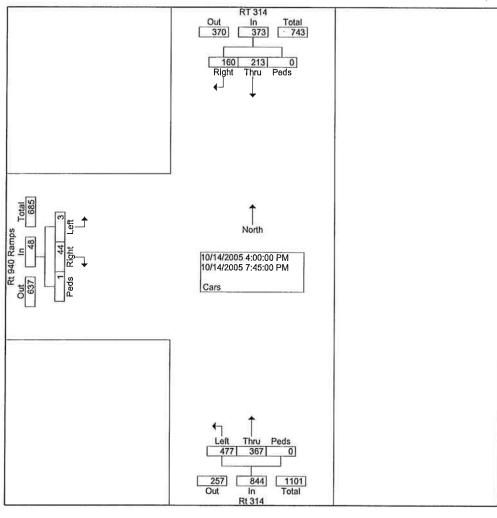
1								Groups	Printed-					,W	9		
				RT 314					Rt 314				Rt	940 Rai	mps		
			F	rom Nor	th				From Sou	uth				From We	est		
Start	Time	Right	Thru	Left	Peds	Арр.	Right	Thru	Left	Peds	App.	Right	Thru	Left	Peds	App.	Int.
						Total					Total				reus	Total	Total
	actor	1.0	1.0	1.0	1.0		1.0	1,0	1.0	1.0		1.0	1.0	1.0	1.0		
	0 PM	11	19	0	0	30	0	24	54	0	78	3	0	0	0	3	111
	5 PM	11	18	0	0	29	0	24	30	0	54	3	0	0	0	3	86
	0 PM	9	18	0	0	27	0	16	19	0	35	2	0	0	0	2	64
04:4	5 PM	10	20	0	0	30	0	37	64	0	101	2	0	1	0	3	134
	Total	41	75	0	0	116	0	101	167	0	268	10	0	1	0	11	395
						100										- 2.4	(5,5,5)
	0 PM	19	11	0	0	30	0	23	52	0	75	6	0	0	1	7	112
	5 PM	11	13	0	0	24	0	28	58	0	86	3	0	0	0	3	113
	0 PM	12	17	0	0	29	0	28	39	0	67	4	0	0	0	4	100
	5 PM	15	10	0	0	25	0	20	34	0	54	4	0	- 0	0	4	83
	Total	57	51	0	0	108	0	99	183	0	282	17	0	0	1	18	408
											30					777-130	
	0 PM	4	13	0	0	17	0	28	30	0	58	3	0	2	0	5	80
	5 PM	10	12	0	0	22	0	23	17	0	40	1	0	0	0	1	63
	0 PM	19	21	0	0	40	0	33	16	0	49	0	0	0	0	o l	89
	5 PM	7	10	0	0	17	0	22	13	0	35	1	0	0	0	1	53
	Total	40	56	0	0	96	0	106	76	0	182	5	0	2	0	7	285
						119										12	
07:00		4	9	0	0	13	0	13	12	0	25	4	0	0	0	4	42
07:1		5	8	0	0	13	0	12	17	0	29	2	0	0	0	2	44
07:30		8	6	0	0	14	0	18	13	0	31	3	0	0	0	3	48
07:4		5	88	0	0	13	0	18	9	0	27	3	0	0	0	3	43
	Total	22	31	0	0	53	0	61	51	0	112	12	0	0	0	12	177
Grand i		160	213	0	0	373	0	367	477	0	844	44	0	3	1	48	1265
Appr		42.9	57.1	0.0	0.0		0.0	43.5	56.5	0.0		91.7	0.0	6.3	2.1		00
To	tal %	12.6	16.8	0.0	0.0	29.5	0.0	29.0	37.7	0.0	66.7	3.5	0.0	0.2	0.1	3.8	
																Sec. 201	

Location: Monroe Co. Pa. Intersection: Rt 314 / Rt 940 Date: Friday: October 14, 2005

Counter: JI

atsville, PA 19320 File Name : 314&94~1 (610) 466-1469 Site Code : 00000000

Start Date : 10/14/2005



(610) 466-1469

File Name : 314&94~1 Site Code : 00000000

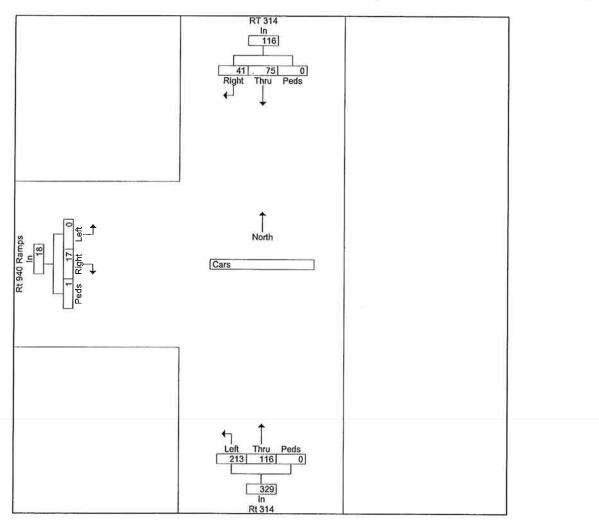
Start Date : 10/14/2005

Page No : 3

Location: Monroe Co. Pa. Intersection: Rt 314 / Rt 940 Date: Friday: October 14, 2005

Counter: JI

													J.W.	b		
		F	RT 314 rom Noi				F	Rt 314 rom Sou					940 Rar rom We			
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour From	04:00 PI	M to 06:0	00 PM -	Peak 1 o	f 1						-					
By Approach	04:00 P	M				04:45 P	M				05:00 P	M			1	
Volume	41	75	0	0	116	0	116	213	0	329	17	0	0	1	18	
Percent	35.3	64.7	0.0	0.0		0.0	35.3	64.7	0.0		94.4	0.0	0.0	5.6		
High Int.	04:00 P	M				04:45 P	M				05:00 P	М	- 60-	- 117	ì	
Volume	11	19	0	0	30	0	37	64	0	101	6	0	0	1	7 (
Peak Factor					0.967					0.814		•		•	0.643	



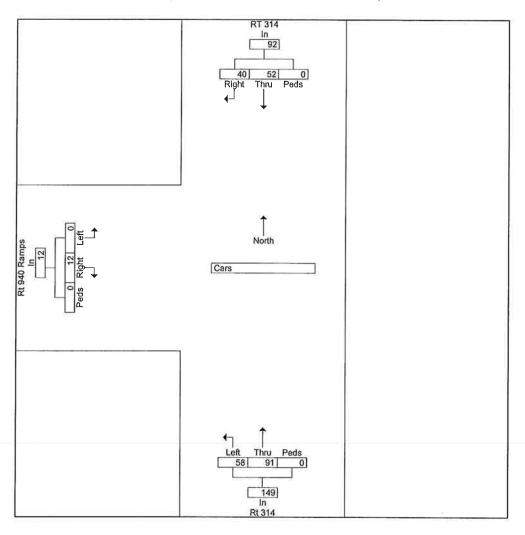
(610) 466-1469

Location: Monroe Co. Pa. Intersection: Rt 314 / Rt 940 Date: Friday: October 14, 2005

Counter: JI

File Name : 314&94~1 Site Code : 00000000 Start Date : 10/14/2005

													NI	3		
		F	RT 314 rom Nor				F	Rt 314 rom Sou	ıth							
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour From	06:15 PI	M to 07:4	15 PM -	Peak 1 o	f 1											
By Approach	06:15 P	M				06:15 P	M				07:00 P					
Volume	40	52	0	0	92	0	91	58	0	149	12	0	0	0	12 [
Percent	43.5	56.5	0.0	0.0		0.0	61.1	38.9	0.0		100.0	0.0	0.0	0.0		
High Int.	06:30 P	30 PM					M				07:00 PM					
Volume	19	21	0	0	40	0	33	16	0	49	4	0	0	0	4	
Peak Factor					0.575					0.760	40.				0.750	



Location: Monroe Co. Pa. Intersection: Rt 314 /Rt 940 WB Ramps

Date: Saturday: October 15, 2005 Counter: JI

Coatsville, PA 19320 (610) 466-1469

File Name: BG1015-6 Site Code : 00000000

Start Date : 10/15/2005

Sounter. or							127	22 8 7	0				1 aç	JE 110	. 1	
							Groups	Printed-								
		_	RT 314					Rt 314					40 WB F			
			rom Nor	th				rom Sou	ıth				rom We	st		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		Louis
04:00 PM	16	10	0	0	26	1	18	31	0	50	2	0	1	0	3	79
04:15 PM	11	10	0	0	21	0	25	17	0	42	1	0	1	0	2	65
04:30 PM	17	17	0	0	34	0	19	18	0	37	2	0	0	0	2	73
04:45 PM	8	14	0	0	22	0	20	15	0	35	8	0	0	0	8	65
Total	52	51	0	0	103	1	82	81	0	164	13	0	2	0	15	282
05:00 PM	10	12	0	0	22	0	28	16	0	44	4	0	0	1	5	71
05:15 PM	9	9	0	0	18	0	15	13	0	28	3	0	1	0	4	50
05:30 PM	9	5	0	0	14	0	23	13	0	36	1	0	3	0	4	54
05:45 PM	10	19	0	0	29	0	14	13	0	27	2	0	0	0	2	58
Total	38	45	0	0	83	0	80	55	0	135	10	0	4	1	15	233
06:00 PM	12	16	0	0	28	0	17	18	0	35	0	0	0	0	0	63
06:15 PM	3	13	0	0	16	0	19	9	0	28	2	0	0	0	2	46
06:30 PM	11	11	0	0	22	0	19	9	0	28	1	0	0	0	1	51
06:45 PM	14	8	0	0	22	0	26	11	00	37	4	0	0	0	4	63
Total	40	48	0	0	88	0	81	47	0	128	7	0	0	0	7	223
07:00 PM	4	6	0	0	10	0	17	6	0	23	4	0	0	0	4	37
07:15 PM	9	4	0	0	13	0	13	6	0	19	3	0	0	0	3	35
07:30 PM	10	8	0	0	18	0	12	8	0	20	0	0	1	0	1	39
07:45 PM	7	6	0	0	13	0	13	12	0	25	0	0	0	1	1	39
Total	30	24	0	0	54	0	55	32	0	87	7	0	1	1	9	150
Grand Total	160	168	0	0	328	1	298	215	0	514	37	0	7	2	46	888
Apprch %	48.8	51.2	0.0	0.0		0.2	58.0	41.8	0.0		80.4	0.0	15.2	4.3		
Total %	18.0	18.9	0.0	0.0	36.9	0.1	33.6	24.2	0.0	57.9	4.2	0.0	0.8	0.2	5.2	

Coatsville, PA 19320

(610) 466-1469

File Name : BG1015-6 Site Code : 00000000 Start Date : 10/15/2005

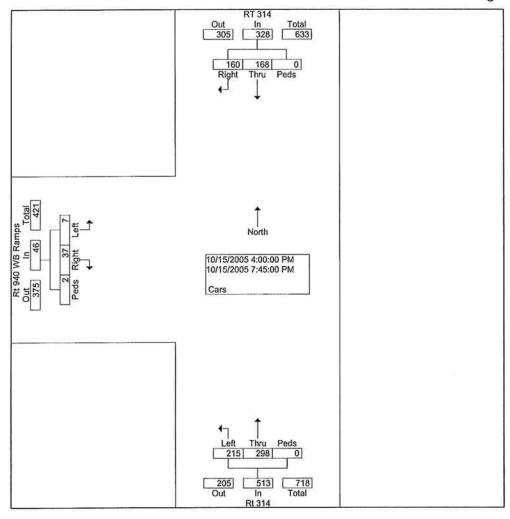
Page No : 2

Location: Monroe Co. Pa.

Intersection: Rt 314 /Rt 940 WB Ramps

Date: Saturday: October 15, 2005

Counter: JI



Coatsville, PA 19320 (610) 466-1469

File Name: BG1015-6 Site Code : 00000000 Start Date : 10/15/2005

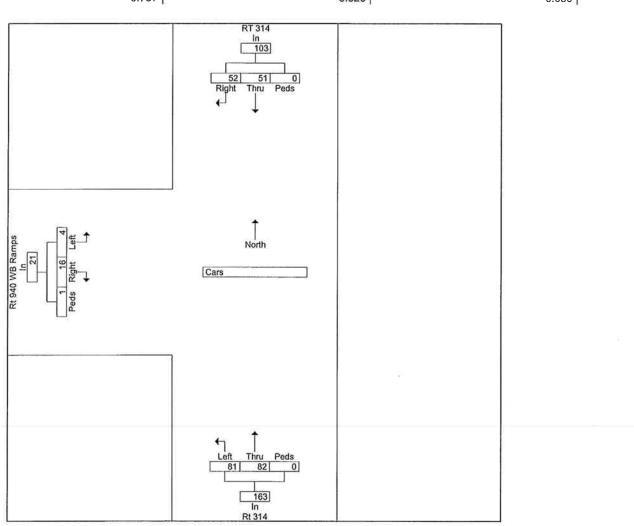
Page No : 3

Date: Saturday: October 15, 2005 Counter: JI

Location: Monroe Co. Pa.

Intersection: Rt 314 /Rt 940 WB Ramps

			RT 314 From Nor				F	Rt 314 rom Sou	ıth							
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour From	04:00 P	M to 06:	00 PM -	Peak 1 d	of 1											
By Approach	04:00 P	M				04:00 P	M				04:45 P					
Volume	52	51	0	0	103	1	82	81	0	164	16	0	4	1	21 [
Percent	50.5	49.5	0.0	0.0		0.6	50.0	49.4	0.0		76.2	0,0	19.0	4.8	l _a .	
High Int.	04:30 P	PM				04:00 P	M				04:45 PM					
Volume	17	17	0	0	34	1	18	31	0	50	8	0	0	0	8	
Peak Factor					0.757					0.820	5400				0.656	



Location: Monroe Co. Pa.

Intersection: Rt 314 /Rt 940 WB Ramps

Date: Saturday: October 15, 2005

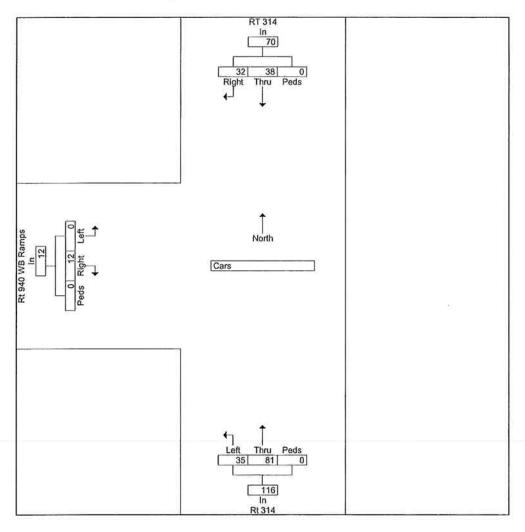
Counter: JI

Coatsville, PA 19320 (610) 466-1469

File Name : BG1015-6 Site Code : 00000000 Start Date : 10/15/2005

tart Date : 10/15/2

		ı	RT 314 rom Nor				F	Rt 314 From Sou	th								
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total	
Peak Hour From	06:15 P	M to 07:	45 PM -	Peak 1 o	f 1												
By Approach	06:15 PM					06:15 PM						06:30 PM					
Volume	32	38	0	0	70	0	81	35	0	116	12	0	0	0	12		
Percent	45.7	54.3	0.0	0.0		0.0	69.8	30.2	0.0		100.0	0.0	0.0	0.0	1.		
High Int.	. 06:30 PM					06:45 P	М				06:45 P	1					
Volume	11	11	0	0	22	0	26	11	0	37	4	0	0	0	4 [
Peak Factor					0.795					0.784					0.750		



Location: Coolbaugh, Monroe Co., PA

Spruce

Intersection: Rt. 940 / Spruce

Date: Friday, September 29, 2006

Counter: JT

Total % 0.7

0.3

0.9

Coatsville, PA 19320 (610) 466-1469

File Name: BG0929-2 Site Code : 00000000 Start Date : 09/29/2006

Page No : 1

	Group	os Print	ed- Cars	- Heav	y Vehic	cles				`						
F	Route 9	40			Ha	rvest L	ane.		Route 940							
From East From Sou									From West							
•	Left	Ped	Арр.	pp. Rig Thr		Left	Ped	App.	Rig	Thr	1 . 64	Ped	App.			
Ц		S	Total	ht	u	Feir	s	Total	ht	u	Left	s	Total			
	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0				
	6	0	180	4	4	10	0	18	11	136	7	0	154			

4.7 | 2.1 43.8

0.7 0.0

46.6

0.0

- 1				Spruce				Route 940						Harvest Lane					Route 940 From West					
- 1		- 5:		rom No		-	-		rom Ea					rom So	uth									
	Start Time	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr	Left	Ped s	App. Total	Int. Total		
	Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0	TOTAL	1.0	1.0	1.0	1.0	Total	Total		
	04:00 PM	8	1	6	0	15	7	167	6	0	180	4	4	10	0	18	11	136	7	0	154	367		
	04:15 PM	9	1	8	0	18	3	190	6	0	199	1 7	3	20	ŏ	30	11	175	8	0	194	441		
	04:30 PM	3	3	3	0	9	4	219	7	1	231	8	4	15	Ö	27	'2	185	3	0	190	457		
	04:45 PM	6	0	3	0	9	1	219	8	Ó	228	5	2	10	Õ	17	14	197	0	0	211			
	Total	26	5	20	0	51	15	795	27	1	838	24	13	55	0	92	38	693	18	0		465		
							KII		_,	•	000	-		00	U	02	00	033	10	U	749	1730		
	05:00 PM	5	3	11	0	19	2	188	4	0	194	8	3	17	1	29	12	153	3	0	168	410		
	05:15 PM	2	1	3	0	6	0	151	3	0	154	2	3	9	0	14	8	173	1	ő	182	356		
	05:30 PM	0	0	3	0	3	1	172	1	0	174	0	3	7	Ö	10	11	172	ó	0	183	370		
9.5	05:45 PM	0	0	3	1	4	0	152	4	0	156	1	1	8	1	11	6	170	1	0	177	348		
	Total	7	4	20	1	32	3	663	12	0	678	11	10	41	2	64	37	668	5	0	710	1484		
																• . ,		000	Ü	Ŭ	110	1707		
	06:00 PM	0	0	0	0	0	0	175	2	0	177	0	3	7	0	10	3	157	0	0	160 l	347		
	06:15 PM	0	0	2	0	2	1	155	7	0	163	3	2	9	0	14	4	139	2	Ō	145	324		
	06:30 PM	1	2	0	0	3	0	128	3	0	131	4	2	11	0	17	11	158	6	0	175	326		
-	06:45 PM	0	0	1_	0	1	2	126	0	0	128	4	3	6	0	13	4	139	0	. 0	143	285		
	Total	1	2	3	0	6	3	584	12	0	599	11	10	33	0	54	22	593	8	0	623	1282		
					_																			
	07:00 PM	0	1	1	0	2	1	123	2	0	126	2	0	9	0	11	4	123	2	0	129	268		
	07:15 PM	1	1	2	0	4	0	108	5	0	113	2	2	10	0	14	4	123	1	0	128	259		
	07:30 PM	0	0	0	0	0	0	94	2	0	96	0	3	8	0	11	5	102	3	0	110	217		
-	07:45 PM	1	1	2	0	4	0	110	1_	0	111	3	1_	4	0	8	3	90	3	0	-96	219		
	 Total 	2	3	5	0	10	1	435	10	0	446	7	6	31	0	44	16	438	9	0	463	963		
	Grand					1		0.47													7.5			
			4.4	4.0				247	0.4	4	0504					- 1		239			1			
		36	14	48	1	99	22	7	61	1	2561 I	53	39	160	2	254	113		40	Λ	25/15	E4E0		
	Total Apprch %	36 36.4	14 14.1	48 48.5	1.0	99		7 96.7	2.4	0.0	2561	53 20.9	39 15.4	160 63.0	2 0.8	254	113 4.4	2 94.0	40 1.6	0.0	2545	5459		

46.9 1.0 0.7 2.9

1.8 0.4 45.4

1.1

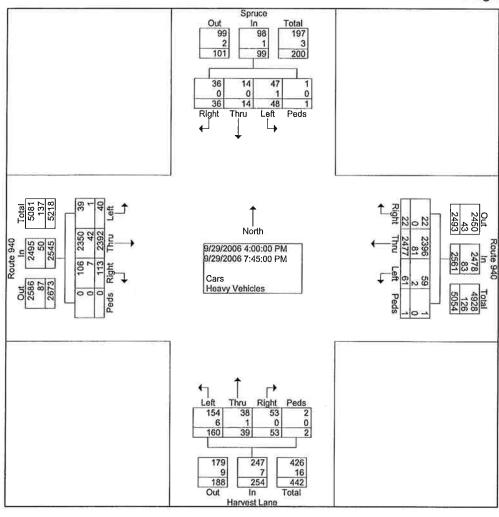
0.0

Location: Coolbaugh, Monroe Co., PA

Intersection: Rt. 940 / Spruce
Date: Friday, September 29, 2006
Counter: JT

Coatsville, PA 19320 (610) 466-1469

File Name: BG0929-2 Site Code : 00000000 Start Date : 09/29/2006



Location: Coolbaugh, Monroe Co., PA

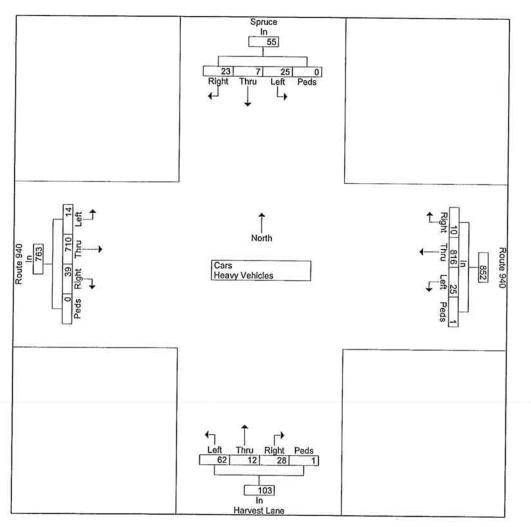
Intersection: Rt. 940 / Spruce
Date: Friday, September 29, 2006
Counter: JT

Coatsville, PA 19320 (610) 466-1469

File Name: BG0929-2 Site Code : 00000000 Start Date : 09/29/2006

Page No : 3

		F	Spruce rom No					Route 9 From Ea					rvest L					Roule 9			
Start Time	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr	Left	Ped	App. Total	Int. Total
Peak Hour F	rom 04	:00 PM	1 to 05	:45 PM	1 - Peak	1 of 1					-									TOTAL	rotal
By Approach	04:15	РМ				04:15	PM				04:15	РМ				04:15	PM				
Volume	23	7	25	0	55	10	816	25	1	852	28	12	62	1	103	39	710	14	Ο	763	
Percent	41.8	12.7	45.5	0.0		1.2	95.8	2.9	0.1		27.2	11.7	60.2	1.0	100	5.1	93.1	1.8	0.0	703	
High Int.	05:00	PM			9	04:30	PM		700		04:15		00.2	1.0	1	04:45		1.0	0.0	1	
Volume	5	3	11	0	19	4	219	7	1	231	7	3	20	0	30	14	197	0	0	211	
Peak					0.724					0.000					0.050				Ü		
Factor					0.724					0.922					0.858					0.904	



Location: Coolbaugh, Monroe Co., PA

Intersection: Rt. 940 / Spruce

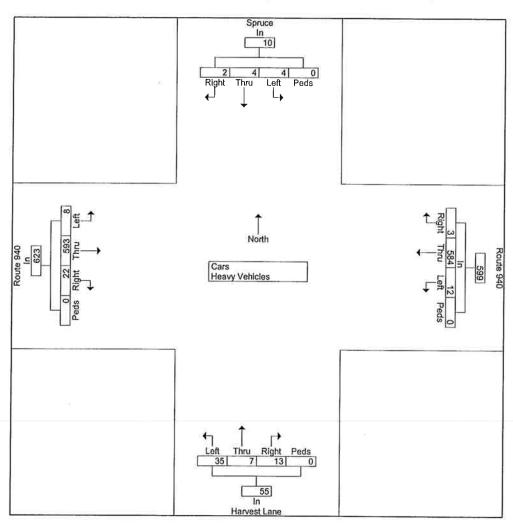
Date: Friday, September 29, 2006

Counter: JT

Coatsville, PA 19320 (610) 466-1469

File Name : BG0929-2 Site Code : 00000000 Start Date : 09/29/2006

			Spruc				F	Route 9	40			Ha	arvest L	ane			F	Route 9	40		
			rom No					rom Ea	ast			F	rom So	uth			F	rom We	est		
Start Time	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Int
	ht	u		S	Total	ht	u		S	Total	ht	u	шон	S	Total	ht	u	LCIT	s	Total	Tota
Peak Hour Fr	rom 06	:00 PN	/I to 07	:45 PN	1 - Peak	1 of 1											2,122				
Ву	06:30	DM				06:00	DM				00.45	DM			1		514			- 1	
Approach	00.50	LIVI				00.00	LIAI				06:15	PIVI				06:00	РM			- 1	
Volume	2	4	4	0	10	3	584	12	0	599	13	7	35	0	55	22	593	8	0	623	
Percent	20.0	40.0	40.0	0.0		0.5	97.5	2.0	0.0		23.6	12.7	63.6	0.0		3.5	95.2	1.3	0.0	0_0	
High Int.	07:15	PM				06:00	PM				06:30	PM				06:30		10.5	4,5	1	
Volume	1	1	2	0	4	0	175	2	0	177	4	2	11	0	17	11	158	6	0	175	
Peak					0.005					0.040									_		
Factor					0.625					0.846					0.809					0.890	



Location: Tobyhanna, Monroe Co., PA

Intersection: Rt. 940 / Commerce Date: Friday, September 29, 2006

Counter: ET

Coatsville, PA 19320 (610) 466-1469

File Name : BG0929-1 Site Code : 00000000 Start Date : 09/29/2006

Page No : 1

Groups Printed- Cars - Heavy Vehicles

			Summit					Route 9	40	cu oai	T	-	ommerc	e St			F	Route 9	40		1
	5:		rom No					rom Ea	The state of the s			F	rom So	uth			F	rom W	est		
Start Time	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr	Left	Ped s	App. Total	In Tota
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0	Total	100
04:00 PM	7	0	32	0	39	32	182	0	0	214	0	1	0	0	1	0	141	5	0	146	40
04:15 PM	9	1	27	0	37	45	192	2	0	239	2	0	Ō	Ö	2	2	185	1	0	188	46
04:30 PM	2	0	40	0	42	43	227	0	0	270	1	0	0	ŏ	1	Ô	193	2	0	195	50
04:45 PM	1	0	51	0	52	43	222	0	0	265	Ó	Ö	Ö	ő	ó	1	196	5	0	202	51
Total	19	1	150	0	170	163	823	2	0	988	3	1	0	0	4	3	715	13	0	731	189
05:00 PM	9	0	37	0	46	43	172	6	0	221	5	0	2	1	8	1	172	2	0	175	450
05:15 PM	1	0	27	0	28	43	159	0	0	202	ا ٥	Õ	0	i	1	Ö	167	3	1	171	40
05:30 PM	4	0	27	0	31	33	158	3	0	194	2	1	0	ò	3	0	166	6	0	172	402
05:45 PM	2	1	27	1_	31	46	158	2	0	206	1	Ö	ő	ŏ	1	2	166	1	0	169	400
Total	16	1	118	1	136	165	647	11	0	823	8	1	2	2	13	3	671	12	1	687	1659
06:00 PM	2	1	28	0	31	25	176	3	1	205	2	0	1	1	4	1	144	3	1	149	389
06:15 PM	2	0	28	0	30	41	144	2	0	187	4	Õ	2	Ö	6	Ó	141	1	Ó	142	36
06:30 PM	5	0	26	0	31	38	129	2	0	169	2	Ö	1	ő	3	0	154	0	0	154	35
06:45 PM	0	1	23	0	24	23	128	3	0	154	3	Ō	1	ő	4	Ö	140	1	0	141	323
Total	9	2	105	0	116	127	577	10	1	715	11	0	5	1	17	1	579	5	1	586	1434
07:00 PM	2	0	19	0	21	32	120	0	0	152	0	0	1	0	1 1	0	117	1	0	118	292
07:15 PM	0	0	14	0	14	29	112	2	0	143	0	Õ	ò	Õ	١٥	0	111	3	0	114	27
07:30 PM	0	0	12	0	12	32	97	1	0	130	0	0	Ō	ŏ	ŏl	0	90	1	0	91	233
07:45 PM	0	0	13	0	13	26	110	1_	0	137	1	0	1	ŏ	2	1	79	1	0	81	233
Total	2	0	58	0	60	119	439	4	0	562	1	0	2	0	3	1	397	6	0	404	1029
Grand Total	46	4	431	1	482	574	248 6	27	1	3088	23	2	9	3	37	8	236 2	36	2	2408	6015
Apprch %	9.5	0.8	89.4	0.2		18.6	80.5	0.9	0.0		62.2	5.4	24.3	8.1	- 1	0.3	98.1	1.5	0.1		
Total %	8.0	0.1	7.2	0.0	8.0	9.5	41.3	0.4	0.0	51.3	0.4	0.0	0.1	0.0	0.6	0.1	39.3	0.6	0.0	40.0	

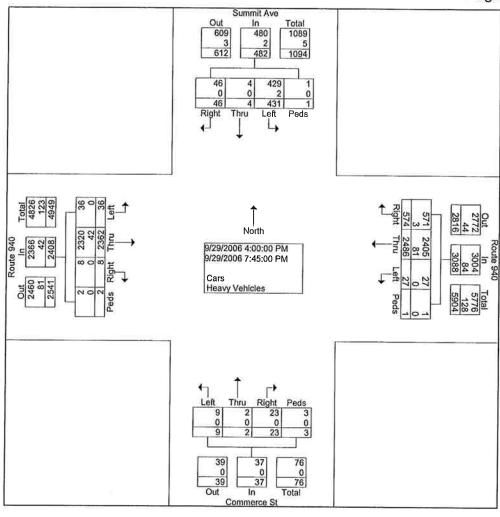
Location: Tobyhanna, Monroe Co., PA Intersection: Rt. 940 / Commerce

Date: Friday, September 29, 2006

Counter: ET

Coatsville, PA 19320 (610) 466-1469

File Name : BG0929-1 Site Code : 00000000 Start Date : 09/29/2006



Location: Tobyhanna, Monroe Co., PA

Intersection: Rt. 940 / Commerce Date: Friday, September 29, 2006

Coatsville, PA 19320 (610) 466-1469

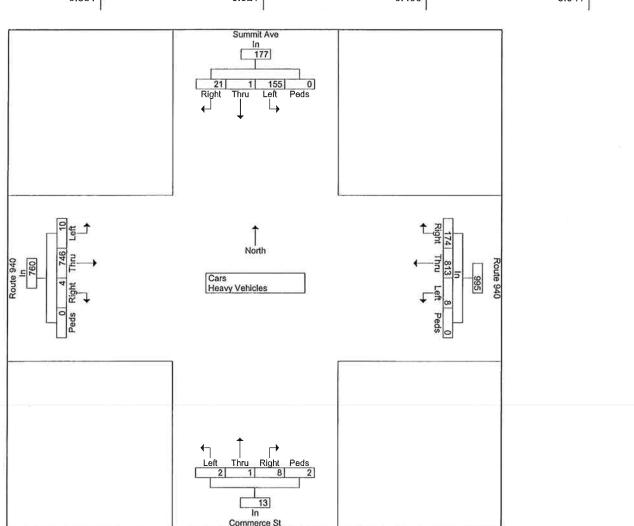
Site Code : 00000000 Start Date : 09/29/2006

File Name: BG0929-1

Page No : 3

Counter: ET

			ummit / rom No					Route 9 rom Ea					mmerc rom So					Route 9			
Start Time	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Int. Total
Peak Hour F	rom 04:	:00 PI	√ to 05	:45 PN	1 - Peak	1 of 1															
Bý Approach	04:15	PM				04:15	PM				05:00	PM				04:15	PM				
Volume	21	1	155	0	177	174	813	8	0	995	8	1	2	2	13	4	746	10	0	760	ľ
Percent	11.9	0.6	87.6	0.0		17.5	81.7	0.8	0.0		61.5	7.7	15.4	15.4		0.5	98.2	1.3	0.0		
High Int.	04:45	PM			1	04:30	PM			j	05:00	PM			i i	04:45	PM				
Volume	1	0	51	0	52	43	227	0	0	270	5	0	2	1	8	1	196	5	0	202	2
Peak Factor					0.851					0.921					0.406					0.941	



Location: Tobyhanna, Monroe Co., PA

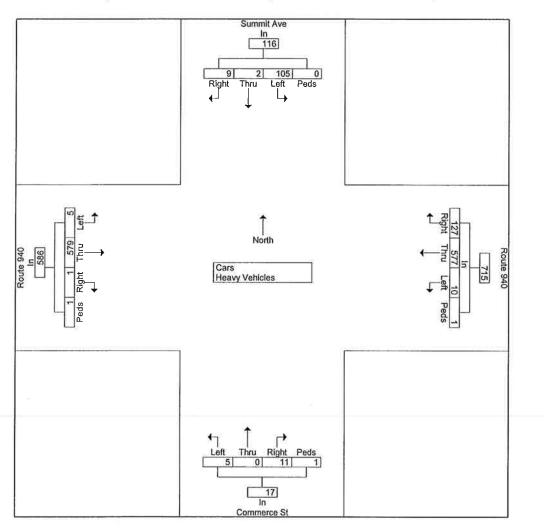
Intersection: Rt. 940 / Commerce Date: Friday, September 29, 2006

Counter: ET

Coatsville, PA 19320 (610) 466-1469

File Name : BG0929-1 Site Code : 00000000 Start Date : 09/29/2006

			ummit / rom No				17.0	Route 9 rom Ea					mmero				2.000	toute 9	35.7%		
Start Time	Rig ht	Thr	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr	Left	Ped s	App. Total	Int. Total
Peak Hour F	rom 06	:00 PN	1 to 07	:45 PN	I - Peak	1 of 1															
By Approach	06:00	PM				06:00	PM				06:00	РМ				06:00	PM				
Volume	9	2	105	0	116	127	577	10	1	715	11	0	5	1	17	1	579	5	1	586	
Percent	7.8	1.7	90.5	0.0	į.	17.8	80.7	1.4	0.1		64.7	0.0	29.4	5.9		0.2	98.8	0.9	0.2		
High Int.	06:00	PM				06:00	PM				06:15	PM				06:30	PM			1	
Volume	2	1	28	0	31	25	176	3	1	205	4	0	2	0	6	0	154	0	0	154	
Peak Factor					0.935					0.872					0.708					0.951	



Location: Tobyhanna, Monrroe Co., PA

Intersection: Rt. 940 / Commerce

Date: Saturday, September 30, 2006 Counter: ET

Coatsville, PA 19320

(610) 466-1469 Site Code : 00000000 Start Date : 09/30/2006

Page No : 1

File Name: BG0930-1

Groups Printed- Cars - Heavy Vehicles

	ÿ.		ummit /					Route 9 rom Ea	40	Cu- Oars		Co	mmerc					Route 9			
	Rig	Thr		Ped	Арр.	Rig	Thr		Ped	App.	Rig	Thr		Ped	App.	Rig	Thr		Ped	App.	Int.
Start Time	ht	u	Left	s	Total	ht	u	Left	s	Total	ht	u	Left	s	Total	ht	u	Left	s	Total	Total
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		
04:00 PM	3	1	24	0	28	26	149	2	0	177	2	1	1	0	4	2	147	1	0	150	359
04:15 PM	3	1	17	0	21	28	156	2	0	186	1	1	2	0	4	2	151	1	0	154	365
04:30 PM	3	2	30	0	35	36	161	0	0	197	0	0	1	0	1	1	120	2	0	123	356
04:45 PM	6	1	29	0	36	23	147	3	0	173	3	0	1	0	4	1	138	1	0	140	353
Total	15	5	100	0	120	113	613	7	0	733	6	2	5	0	13	6	556	5	0	567	1433
05:00 PM	3	1	29	0	33	38	140	2	0	180	0	0	0	0	0	0	104	2	0	106	319
05:15 PM	2	0	21	0	23	28	142	1	0	171	1	2	1	0	4	0	130	1	0	131	329
05:30 PM	0	0	22	0	22	27	113	0	0	140	1	0	0	0	1	0	147	1	0	148	311
05:45 PM	1	0	12	3	16	33	115	3	0	151	0	1	0	0	1	4	95	0	0	99	267
Total	6	1	84	3	94	126	510	6	0	642	2	3	1	0	6	4	476	4	0	484	1226
06:00 PM	5	0	13	0	18	29	111	0	0	140	1	1	0	0	2	0	122	1	0	123	283
06:15 PM	1	0	16	0	17	23	101	1	0	125	0	0	0	0	0	0	123	1	0	124	266
06:30 PM	2	0	12	0	14	26	95	1	0	122	1	0	0	0	1	0	111	2	0	113	250
06:45 PM	0	0	19	0	19	32	108	1	0	141	0	0	0	0	0	0	105	3	0	108	268
Total	8	0	60	0	68	110	415	3	0	528	2	1	0	0	3	0	461	7	0	468	1067
07:00 PM	2	1	14	0	17	18	118	0	0	136	2	0	0	0	2	1	80	2	0	83	238
07:15 PM	2	0	18	0	20	26	106	1	0	133	0	0	3	0	3	1	82	0	0	83	239
07:30 PM	0	0	11	0	11	32	85	1	0	118	1	0	0	0	1	0	66	0	0	66	196
07:45 PM	1_	0	15	0	16	21	87	1	0	109	0	0	0	0	0	0	58	1	0	59	184
Total	5	1	58	0	64	97	396	3	0	496	3	0	3	0	6	2	286	3	0	291	857
Grand Total	34	7	302	3	346	446	193 4	19	0	2399	13	6	9	0	28	12	177 9	19	0	1810	4583
Approh %	9.8	2.0	87.3	0.9		18.6	80.6	0.8	0.0		46.4	21.4	32.1	0.0		0.7	98.3	1.0	0.0		
Total %	0.7	0.2	6.6	0.1	7.5	9.7	42.2	0.4	0.0	52.3	0.3	0.1	0.2	0.0	0.6	0.3	38.8	0.4	0.0	39.5	

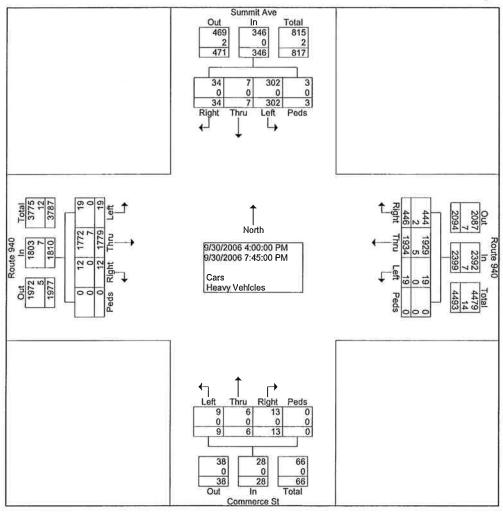
Location: Tobyhanna, Monrroe Co., PA

Intersection: Rt. 940 / Commerce Date: Saturday, September 30, 2006

Counter: ET

Coatsville, PA 19320 (610) 466-1469

File Name : BG0930-1 Site Code : 00000000 Start Date : 09/30/2006



Location: Tobyhanna, Monrroe Co., PA

Intersection: Rt. 940 / Commerce

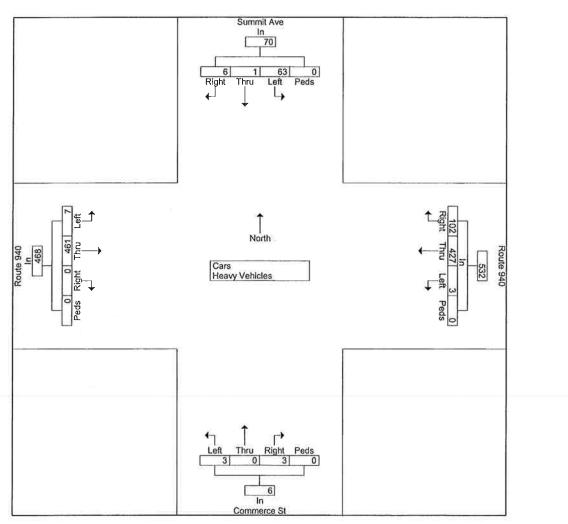
Date: Saturday, September 30, 2006

Counter: ET

Coatsville, PA 19320 (610) 466-1469

File Name: BG0930-1 Site Code : 00000000 Start Date: 09/30/2006

	-	S	ummit /	4ve			F	Route 9	40			Со	mmerc	e St			F	Route 9	40		
		F	rom No	rth			F	rom Ea	ast			F	rom So	uth			F	rom W	est		
Start Time	Rig	Thr	Left	Ped	Арр.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	Арр.	Int
Start Time	ht	u	Leit	S	Total	ht	u	Len	s	Total	ht	u	Leit	s	Total	ht	u	Leit	s	Total	Tota
Peak Hour F	rom 06	:00 Pi	/I to 07	:45 PN	1 - Peak	1 of 1						-	.,								
Ву	06:30	DM				06:30	DM				06:30	DM				06:00	DM			ı	
Approach	00.30	LIVI				00.30	L IAI			1,	00,50	I IVI				00.00	I IVI				
Volume	6	1	63	0	70	102	427	3	0	532	3	0	3	0	6	0	461	7	0	468	ľ
Percent	8.6	1.4	90.0	0.0		19.2	80.3	0.6	0.0		50.0	0.0	50.0	0.0		0.0	98.5	1,5	0.0		
High Int.	07:15	PM			1	06:45	PM				07:15	PM				06:15	PM			- (
Volume	2	0	18	0	20	32	108	1	0	141	0	0	3	0	3	0	123	1	0	124	ĺ.
Peak					0.875					0.943					0.500					0.044	i.
Factor					0.075	į.				0.943					0.500					0.944	,



Location: Coolbaugh, Monroe Co., PA Intersection: Rt. 940 / Harvest Lane

Date: Saturday, September 30, 2006

Counter: JT

Coatsville, PA 19320 (610) 466-1469

File Name : BG0930-2 Site Code : 00000000 Start Date : 09/30/2006

Page No : 1

Groups Printed- Cars - Heavy Vehicles

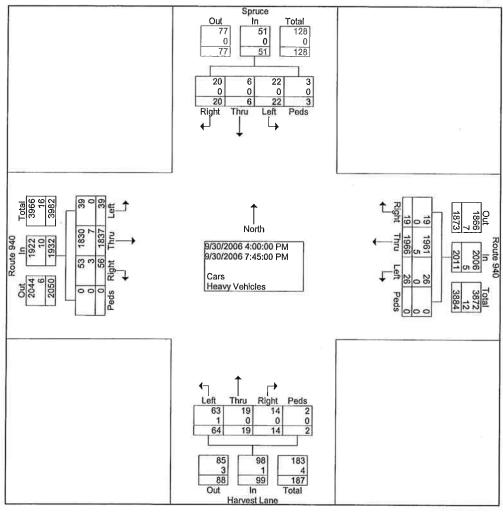
			Spruce	Α			F	Route 9		cu- Cais	11001		rvest L	ane			F	Route 94	10		
		F	rom No					rom Ea					rom So					rom We			
0	Rig	Thr		Ped	Арр.	Rig	Thr		Ped	App.	Rig	Thr		Ped	App.	Rig	Thr		Ped	App.	Int.
Start Time	ht	u	Left	s	Total	ht	u	Left	s	Total	ht	u	Left	S	Total	ht	u	Left	s	Total	Total
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		
04:00 PM	1	1	5	0	7	5	151	3	0	159	3	2	3	0	8	3	145	6	0	154	328
04:15 PM	1	0	2	0	3	1	154	1	0	156	1	0	6	0	7	4	147	5	0	156	322
04:30 PM	1	0	1	0	2	2	169	1	0	172	0	0	5	0	5	1	126	2	0	129	308
04:45 PM	1	0	4	0	5	1	159	3	0	163	1	0	3	0	4	2	136	1	0	139	311
Total	4	1	12	0	17	9	633	8	0	650	5	2	17	0	24	10	554	14	0	578	1269
05:00 PM	0	1	2	0	3	1	143	2	0	146	l 0	0	3	0	3	3	103	1	0	107	259
05:15 PM	2	Ó	1	0	3	3	137	2	Õ	142	ñ	3	5	ő	8	5	136	3	0	144	297
05:30 PM	4	0	1	3	8	2	117	ō	Ö	119	ñ	1	5	ő	6	4	145	2	Õ	151	284
05:45 PM	1	Ö	1	Ö	2	0	117	3	Ö	120	2	ò	9	Õ	11	6	99	1	0	106	239
Total	7	1	5	3	16	6	514	7	0	527	2	4	22	0	28	18	483	7	0	508	1079
06:00 PM	0	1	0	0	1.1	0	117	2	0	119	1 1	0	2	0	3	3	126	5	0	134	257
06:00 FM	2	1	0	0	3	0	101	2	0	103	2	2	8	0	12	3	117	0	0	120	238
06:30 PM	2	Ó	2	0	4	1	98	1	0	100	2	1	6	0	9	5	117	3	0	125	238
06:45 PM	3	0	2	0	5	1	107	ò	0	108	0	1	2	0	3	3	113	1	0	117	233
Total	7	2	4	0	13	2	423	5	0	430	5	4	18	0	27	14	473	9	0	496	966
5		mani				1						_			- 1			1144	17/241		·
07:00 PM	0	1	0	0	1	0	121	1	0	122	1	2	0	0	3	4	92	5	0	101	227
07:15 PM	2	1	0	0	3	0	104	2	0	106	0	0	2	2	4	5	94	1	0	100	213
07:30 PM	0	0	0	0	0	2	87	2	0	91	0	3	1	. 0	4	2	74	3	0	79	174
07:45 PM	0	0		0	1	0	84	1	0	85	1	4	7	0	9	3	67	0	0	70	165
Total	2	2	1	0	5	2	396	6	0	404	2	9	1	2	20	14	327	9	0	350	779
Grand Total	20	6	22	3	51	19	196 6	26	0	2011	14	19	64	2	99	56	183 7	39	0	1932	4093
Apprch %	39.2	11.8	43.1	5.9		0.9	97.8	1.3	0.0		14.1	19.2	64.6	2.0		- 2.9	95.1	2.0	0.0	.	
Total %	0.5	0.1	0.5	0.1	1.2	0.5	48.0	0.6	0.0	49.1	0.3	0.5	1.6	0.0	2.4	1.4	44.9	1.0	0.0	47.2	

Location: Coolbaugh, Monroe Co., PA Intersection: Rt. 940 / Harvest Lane

Date: Saturday, September 30, 2006 Counter: JT

Coatsville, PA 19320 (610) 466-1469

File Name: BG0930-2 Site Code : 00000000 Start Date : 09/30/2006



Tri-State Traffic Data, Inc. 184 Baker Road Coatsville, PA 19320

Location: Coolbaugh, Monroe Co., PA Intersection: Rt. 940 / Harvest Lane

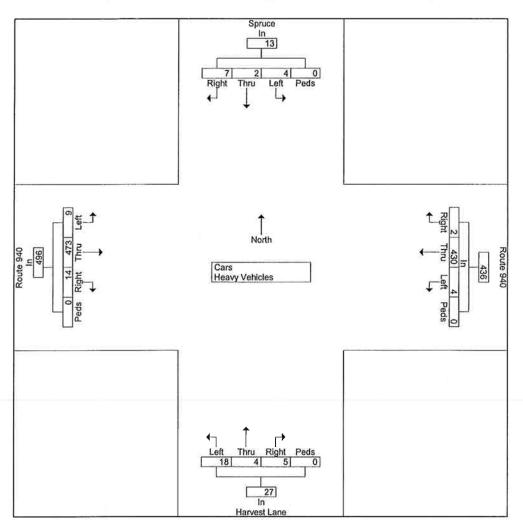
(610) 466-1469

Date: Saturday, September 30, 2006 Counter: JT

File Name: BG0930-2 Site Code : 00000000

Start Date : 09/30/2006

		F	Spruce rom No					rom Ea					rvest L					Route 9			
Start Time	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Int. Total
Peak Hour F	rom 06	:00 PN	/I to 07	:45 PN	/I - Peak	1 of 1															
By Approach	06:00	PM				06:30	ΡM				06:00	PM				06:00	PM				
Volume	7	2	4	0	13	2	430	4	0	436	5	4	18	0	27	14	473	9	0	496	
Percent	53.8	15.4	30.8	0.0		0.5	98.6	0.9	0.0		18.5	14.8	66.7	0.0		2.8	95.4	1.8	0.0		
High Int.	06:45	PM				07:00	PM			1	06:15	PM			į.	06:00	РM			[
Volume	3	0	2	0	5	0	121	1	0	122	2	2	8	0	12	3	126	5	0	134	
Peak Factor					0.650					0.893					0.563					0.925	



Tri-State Traffic Data, Inc. 184 Baker Road Coatsville, PA 19320

Location: Monroe County, PA Intersection:Rt.940/Industrial Park Dr.

(610) 466-1469

File Name: BG1021-7 Site Code : 00000000 Start Date : 10/21/2005

Date: Friday, October 21, 2005

Page No : 1

Counter: CMK

Total

Apprch %

Total %

59.

8.0

14.

1.9

25.

3.4

0.2

0.0

Groups Printed- Cars INDUSTRIAL PARK DR. RT.940 INDUSTRIAL PARK DR. RT.940 From North From East From South From West Rig Rig Start Rig Ped Rig App. Thr Ped App. Ped Thr App. Ped App. Int. Left Left Left Left Time Total ht ht Total ht Total ht Total Total S Factor 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 04:00 PM 04:15 PM 04:30 PM n 04:45 PM Total 05:00 PM 05:15 PM 05:30 PM 05:45 PM Total 06:00 PM 06:15 PM 06:30 PM 06:45 PM Total 07:00 PM 07:15 PM 07:30 PM 07:45 PM Total Grand

25.

5.8

16.

3.7

14.

4.8

0.1

0.0

31.9

78.

25.

6.2

2.0

13.4

58.

13.

0.1

0.0

22.8

1.9

0.6

0.3

0.1

97.

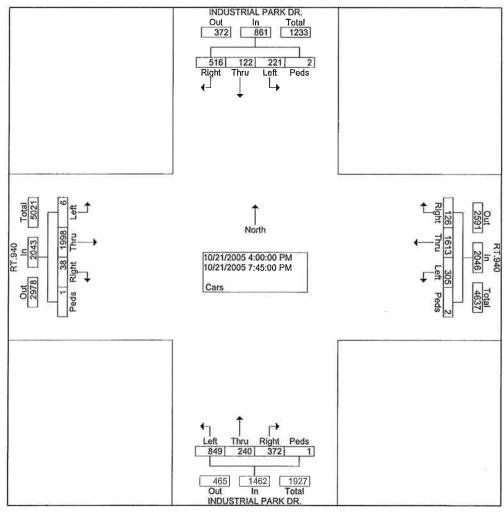
31.

31.9

0.0

0.0

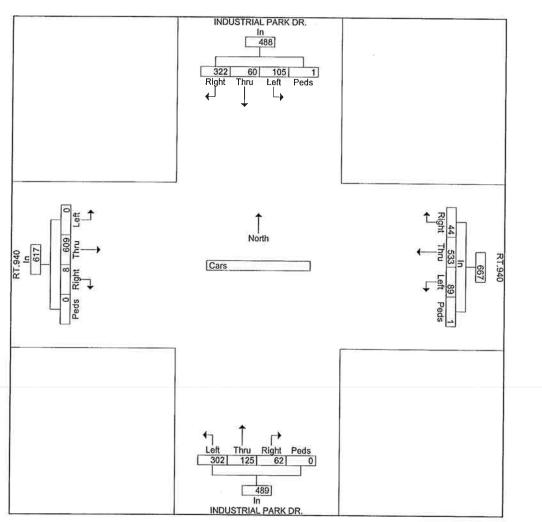
File Name : BG1021-7 Site Code : 00000000 Start Date : 10/21/2005



File Name : BG1021-7 Site Code : 00000000

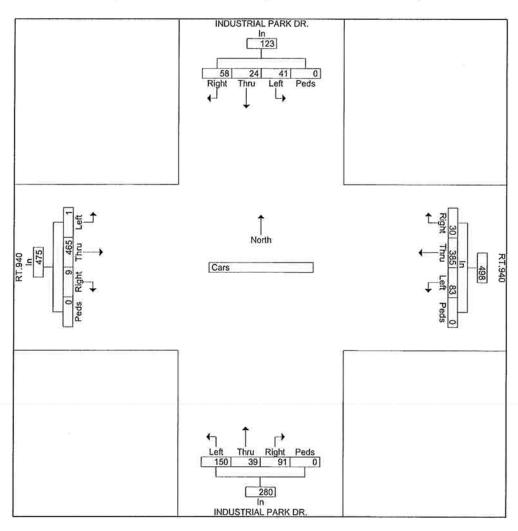
Start Date : 10/21/2005

		F	RIAL F		OR.		F	RT.94 rom E			11		RIAL F	PARK D	OR.		F	RT.94 rom W	0.00		
Start Time	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped	App. Total	Rig ht	Thr	Left	Ped s	App. Total	Int Tota
Peak Hour F	From 0	4:00 F	PM to	06:00	PM - Pe	eak 1 d	of 1														
By Approach	04:00	PM				04:45	PM				04:00	PM				04:45	5 PM				
Volume	322	60	105	1	488	44	533	89	1	667	62	125	302	0	489	8	609	0	Ω	617	
Percent	66. 0	12. 3	21. 5	0.2	Steriozen)	6.6	79. 9	13. 3	0.1		12. 7	25. 6	61. 8	0.0		1.3	98. 7	0.0	0.0	017	
High Int.	04:30	PM				04:45	PM				04:15	PM	_		ľ	05:30	PM			1	1
Volume	88	25	55	0	168	27	138	23	0	188	17	40	79	0	136	2	161	0	n	163	ŀ
Peak					0.72					0.88		17	. •	Ū	0.89	_	.51		Ü	0.94	
Factor					6					7					9					6	



File Name : BG1021-7 Site Code : 00000000 Start Date : 10/21/2005

	IN.		RIAL F	PARK [OR.			RT.94			II.		RIAL F	PARK [DR.			RT.94	_		Ì
Start	Rig	Thr	Left	Ped	Арр.	Rig	Thr	Left	Ped	Арр.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Int.
Time	ht	u	Leit	s	Total	ht	u	Leit	s	Total	ht	u	Leit	s	Total	ht	u	Leit	S	Total	Total
Peak Hour F	From 0	6:15 F	PM to	07:45	PM - Pe	eak 1 d	of 1				•T										
By Approach	07:00	PM				06:15	PM				06:15	5 PM				06:18	5 PM				
Volume	58	24	41	0	123	30	385	83	0	498	91	39	150	0	280	9	465	1	0	475	
Percent	47. 2	19. 5	33. 3	0.0		6.0	77. 3	16. 7	0.0		32. 5	13. 9	53. 6	0.0	141700041	1.9	97. 9	0.2	0.0		
High Int.	07:00	PM				06:45	PM :				06:15	PM			ľ	06:45	5 PM				
Volume	15	7	20	0	42	19	100	16	0	135	21	8	44	0	73	3	141	1	0	145	
Peak					0.73					0.92					0.95					0.81	
Factor					2					2					9					9	



Tri-State Traffic Data, Inc. 184 Baker Road Coatsville, PA 19320

Location: Monroe County, PA Intersection: Rt.940/IndustrialParkDr

(610) 466-1469

File Name: BG1022-7 Site Code : 00000000 Start Date : 10/22/2005

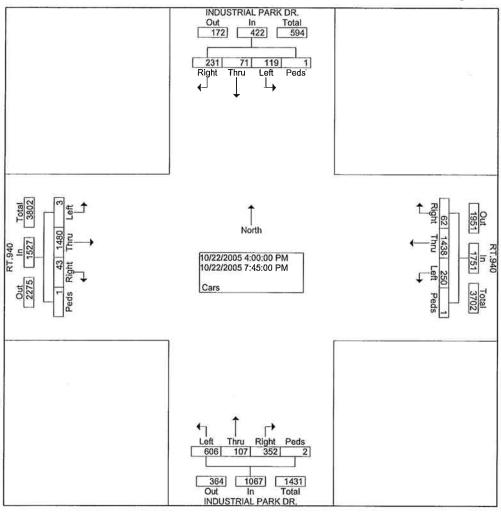
Date:Saturday, October 22, 2005

Page No : 1

Counter: CMK

									Gro	ups Prir	ted- C	are					9	•		•	
	l ii	VDUS1	RIAL .	PARK [DR.	_		RT.94		ups r III			TRIAL	PARK	DR .		_	RT.94	10		1
		F	rom N	orth				rom E					rom So		DIX.			rom W			
Start	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr		Ped	App.	Rig	Thr		Ped	App.	Int
Time	ht	u		S	Total	ht	u	Leit	s	Total	ht	u	Left	s	Total	ht	u	Left	s	Total	Tota
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0	TOTAL	Tota
04:00 PM	20	5	12	0	37	6	85	24	0	115	28	10	45	0	83	5	103	1	0	109	344
04:15 PM	20	3	8	0	31	8	132	25	1	166	29	9	46	0	84	1	91	Ö	0	92	373
04:30 PM	40	11	46	0	97	2	111	14	0	127	22	7	34	1	64	4	102	Ö	0	106	394
04:45 PM	19	3	7	0	29	- 8	107	17	0	132	28	4	45	0	77	3	100	Ö	0	103	341
Total	99	22	73	0	194	24	435	80	1	540	107	30	170	1	308	13	396	1	0	410	1452
																	000	'	· ·	710	1402
05:00 PM	15	4	3	0	22	2	124	19	0	145	23	8	46	1	78	2	97	0	1	100	345
05:15 PM	11	5	2	0	18	4	76	26	0	106	23	8	35	0	66	3	113	Ō	ò	116	306
05:30 PM	9	9	4	0	22	1	100	9	0	110	29	6	35	0	70	4	104	0	0	108	310
05:45 PM	12	4	4	0	20	0	96	13	0	109	18	4	39	0	61	0	93	Õ	Ö	93	283
Total	47	22	13	0	82	7	396	67	0	470	93	26	155	1	275	9	407	0	1	417	1244
06:00 PM	11	3	0	0	14	3	91	15	0	109	29	7	34	0	70	4	440	0		1	
06:15 PM	10	2	2	Ō	14	1	68	12	ő	81	25	6	37	Ö	70 68	4	110	0	0	114	307
06:30 PM	5	6	4	Ō	15	7	96	13	Ö	116	15	10	37	0	62	6	95 69	0	0	95	258
06:45 PM	13	1	4	0	18	5	69	18	0	92	28	12	32	0	72	2	- 78	0	0	75	268
Total	39	12	10	0	61	16	324	58	0	398	97	35	140	0	272	12	352	0	0	80 364	262 1095
07.00 D.4	4.0			_			200000E111	20,200		0.0000000000000000000000000000000000000			1.00		2720	12	002	U	U	304	1095
07:00 PM	16	9	12	0	37	7	75	10	0	92	13	7	40	0	60	3	108	0	0	111	300
07:15 PM	3	1	7	0	11	3	80	15	0	98	14	3	38	0	55	1	76	1	0	78	242
07:30 PM	10	2	3	0	15	3	54	11	0	68	19	2	30	0	51	1	81	0	0	82	216
07:45 PM	17	3	1_	1	22	2	74	9	0	85	9	4	33	0	46	4	60	1	0	65	218
Total	46	15	23	1	85	15	283	45	0	343	55	16	141	0	212	9	325	2	0	336	976
Grand	231	71	119	1	422	62	143	250	ĩ	1754	250	407	000				148			ĺ	
Total				'	444	02	8	200	1	1751	352	107	606	2	1067	43	0	3	1	1527	4767
Apprch %	54.	16.	28.	0.2		3.5	82.	14.	0.1		33.	10.	56.	0.0	- 1		96.		74779		
.pp. 011 70	7	8	2	0.2	1	0.0	1	3	0.1		0	0	8	0.2		2.8	9	0.2	0.1		
Total %	4.8	1.5	2.5	0.0	8.9	1.3	30. 2	5.2	0.0	36.7	7.4	2.2	12. 7	0.0	22.4	0.9	31. 0	0.1	0.0	32.0	

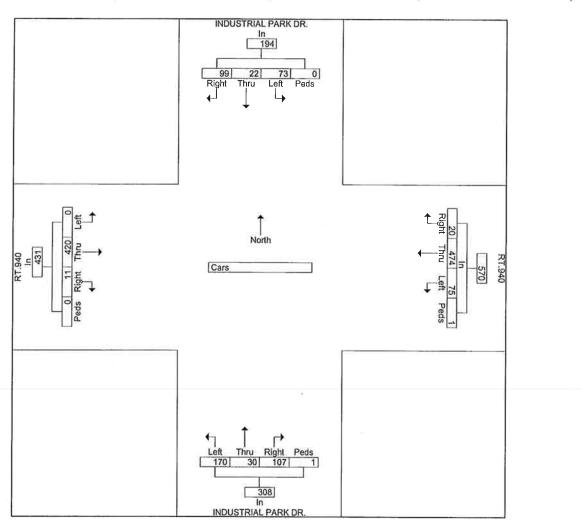
File Name: BG1022-7 Site Code: 00000000 Start Date: 10/22/2005



File Name : BG1022-7 Site Code : 00000000

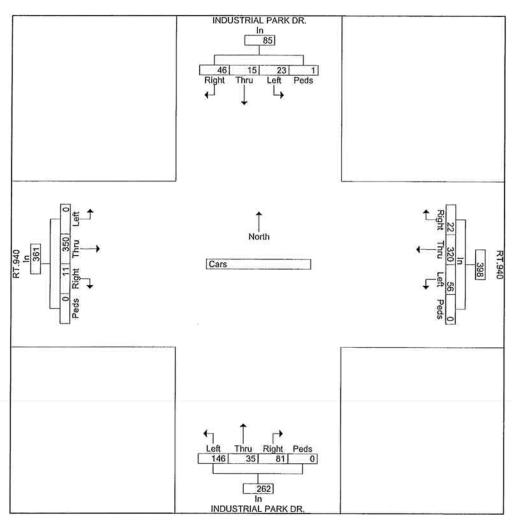
Start Date : 10/22/2005

	IN	-	RIAL F	PARK (DR.		F	RT.94 rom E	70		IN		RIAL F	PARK [DR.		F	RT.94 rom W			
Start Time	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Int. Total
Peak Hour F	rom 0	4:00 F	PM to	06:00	PM - Pe	eak 1 d	of 1				-11										
By Approach	04:00	PM				04:15	5 PM				04:00	PM				05:15	PM				
Volume	99	22	73	0	194	20	474	75	1	570	107	30	170	1	308	11	420	0	0	431	ſ
Percent	51. 0	11. 3	37. 6	0.0		3.5	83. 2	13. 2	0.2		34. 7	9.7	55. 2	0.3		2.6	97. 4	0.0	0.0		
High Int.	04:30	PM				04:15	PM				04:15	PM			1	05:15	РМ				Ĭ
Volume	40	11	46	0	97	8	132	25	1	166	29	9	46	0	84	3	113	0	0	116	1
Peak					0.50					0.85					0.91				_	0.92	
Factor					0					8					7					9	



File Name : BG1022-7 Site Code : 00000000 Start Date : 10/22/2005

	IN		RIAL F	PARK I orth	OR.			RT.94 rom E			II.		RIAL F	PARK D	OR.		F	RT.94 rom W	-		
Start Time	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr	Left	Ped s	App. Total	Int Tota
Peak Hour F	rom 0	6:15 F	PM to	07:45	PM - Pe	eak 1 c	of 1					5	F .								
By Approach	07:00	PM				06:30	PM				06:15	PM				06:15	PM				
Volume	46	15	23	1	85	22	320	56	0	398	81	35	146	0	262	11	350	0	0	361	
Percent	54. 1	17. 6	27. 1	1.2		5.5	80. 4	14. 1	0.0		30. 9	13. 4	55. 7	0.0		3.0	97. 0	0.0	0.0		
High Int.	07:00	PM				06:30	PM (06:45	PM			1	07:00	PM			,	ľ
Volume	16	9	12	0	37	7	96	13	0	116	28	12	32	0	72	3	108	0	0	111	
Peak					0.57					0.85					0.91					0.81	
Factor					4					8					0					3	



Tri-State Traffic Data, Inc. 184 Baker Road Coatsville, PA 19320

(610) 466-1469

Location: Monroe County, Pa Intersection: Oak St / Rt 940

Date: Friday, October 21,2005

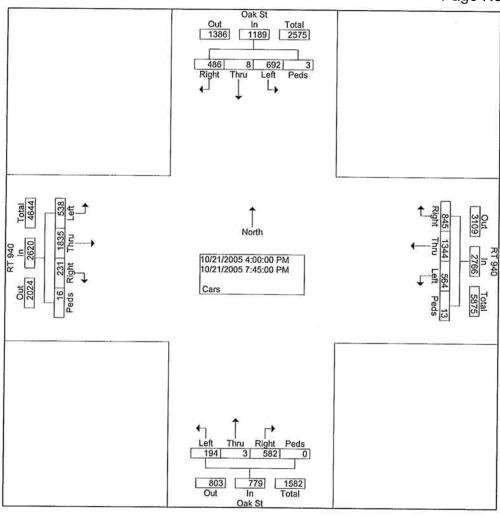
Counter: RZ

File Name : BG1021-8 Site Code : 00000000 Start Date : 10/21/2005

									620								ıay	CIAC	, .	1	
	1		0-1 (21						oups Prir	nted- Ca	ars									
			Oak S			1	_	RT 94					Oak S					RT 94	0		
C44	Di		rom N					rom E	4				rom S				F	rom W	est		
Start	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Int.
Time	ht	u	1.0	S	Total	ht	u	- 1	S	Total	ht	u		5	Total	ht	и	Leit	S	Total	Total
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		
04:00 PM	39	0	41	0	80	131	1	88	0	220	47	0	3	0	50	21	117	9	0	147	497
04:15 PM	30	0	45	0	75	139	0	100	1	240	63	1	1	0	65	10	126	11	0	147	527
04:30 PM	28	0	60	0	88	54	141	28	0	223	46	0	19	0	65	26	155	45	3	229	605
04:45 PM	36	1	44	1	82	46	131	35	2	214	46	0	20	0	66	21	133	36	1	191	553
Total	133	1	190	1	325	370	273	251	3	897	202	1	43	0	246	78	531	101	4	714	2182
														-		, , ,	001	101	7	, 14	2102
05:00 PM	38	1	42	1	82	34	110	41	1	186	40	0	15	0	55	11	157	46	4	215	538
05:15 PM	28	1	55	1	85	35	100	34	3	172	28	Õ	15	Õ	43	';	133	42	- 1	183	483
05:30 PM	45	1	41	0	87	36	104	26	3	169	37	Ö	21	Ö	58	17	125	46	ó	188	502
05:45 PM	27	0	35	0	62	50	103	35	0	188	50	1	22	Ö	73	11	130	31			
Total	138	3	173	2	316	155	417	136	7	715	155	1	73	0	229	46	545	165	0	172	495
		_				1 100			•	110	100	1.80	13	U	229	40	040	100	2	758	2018
06:00 PM	27	0	54	0	81	42	103	20	0	165	35	0	11	0	46	40	101	47	^	400	E 404
06:15 PM	29	1	31	Ŏ	61	43	90	22	Ö	155	41	1	8	0	50	18	104	47	0	169	461
06:30 PM	32	Ò	44	Õ	76	36	71	29	0	136	30	Ó	6			47	119	36	1	163	429
06:45 PM	23	2	43	0	68	47	101	21	1	170	31	_	10	0	36	17	92	45	2	156	404
Total	111	3	172	0	286	168	365	92	1	626	137	0		0	41	16	121	36	0	173	452
rotal	10.404		112	.0	200	100	303	92		020	137	1	35	0	173	58	436	164	3	661	1746
07:00 PM	21	0	32	0	53	43	79	26	2	450	0.05	•	40								
07:00 PM	31	1	43	0	75	31		26	2	150	25	0	12	0	37	15	102	28	0	145	385
07:30 PM	30	0	43 49	0	79		62	20	0	113	17	0	3	0	20	8	83	30	5	126	334
07:45 PM	22			_		35	86	21	0	142	29	0	13	0	42	14	67	29	2	112	375
		0	33	0	55	43	62	18_	0	123	_17	0	15	0	32	12	71	21	0	104	314
Total	104	1	157	0	262	152	289	85	2	528	88	0	43	0	131	49	323	108	7	487	1408
01					94	0															
Grand	486	8	692	3	1189	845	134	564	13	2766	582	3	194	0	779	231	183	538	10	2020	7054
Total	40			~~~			4			_,,00				V	113	231	5	330	16	2620	7354
Apprch %	40.	0.7	58.	0.3		30.	48.	20.	0.5		74.	0.4	24.	0.0		8.8	70.	20.	0.0		
	9	3.44	2	80.80		5	6	4	0.0	1	7	0.4	9	0.0		0.0	0	5	0.6		
Total %	6.6	0.1	9.4	0.0	16.2	11.	18.	7.7	0.2	37.6	7.9	0.0	26	0.0	10.6	24	25.	7.0	0.0	05.6	
. 0.0. 70	0.0		U. T	0.0	10.2	5	2	1.1	0.2	37.0	1.9	U.U	2.6	0.0	10.6	3.1		7.3	0.2	35.6	

File Name: BG1021-8 Site Code : 00000000

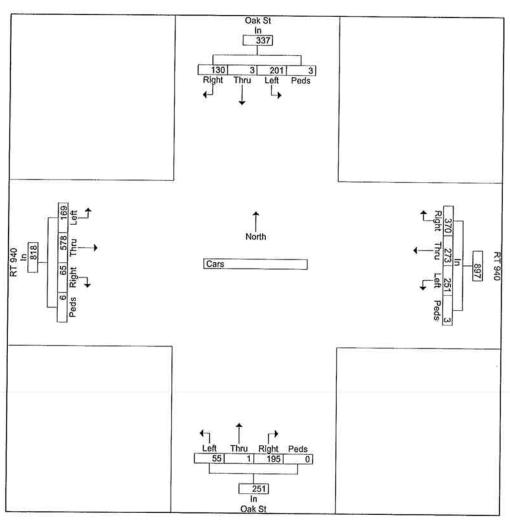
Start Date : 10/21/2005



File Name : BG1021-8 Site Code : 00000000

Start Date : 10/21/2005

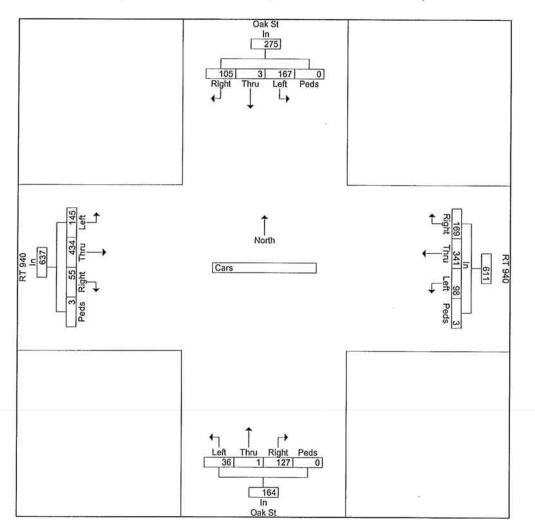
		_	Oak S	-				RT 94	-				Oak S					RT 94	0		1
			rom No				. F	rom E	ast	de la Carte	E	Fr	om So	outh			F	rom W	est		1
Start	Rig	Thr	Left	Ped	App.	Rig	Thr	1 . 0	Ped	App.	Rig	Thr		Ped	App.	Rig	Thr		Ped	App.	li li
Time	ht	u	Leit	s	Total	l ht	u	Left	s	Total	ht	u	Left	s	Total	ht		Left		Total	To
eak Hour F	rom 0	4:00 F	PM to	06:00	PM - Pe	eak 1 d	of 1			10101	110	4		3	Total	110	u		S	Tutal	10
By			2.50			I .			7.5		I				33	C.					î
Approach	04:30	PM				04:00	PM				04:15	PM				04:30	PM				
Volume	130	3	201	3	337	370	273	251	3	897	195	1	55	0	251	65	578	169	6	818	
Doroont	38.	0.0	59.	0.0		41.	30.	28.			77.		21.				70.	20.	·	010	
Percent	6	0.9	6	0.9		2	4	0	0.3		7	0.4	- 9	0.0		7.9	7	20. 7	0.7		
High Int.	04:30	PM				04:15	PM				04:45	PM	·		1	04:30	PM	,		'	1
Volume	28	0	60	0	88	139	0	100	1	240	46	0	20	Λ	66	26	155	45	3	229	
Peak					0.95		•		•	0.93		Ü	20	O		20	100	40	3		
Factor					7										0.95					0.89	
i actor										4					1					3	



File Name : BG1021-8 Site Code : 00000000

Start Date : 10/21/2005

		F	Oak S					RT 94 rom E	-			F	Oak S	-			F	RT 94 rom W			
Start	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr		Ped	App.	In
Time	ht	u	Leit	S	Total	ht	u	ren	S	Total	ht	u	Leit	s	Total	ht	u	Left	s	Total	Tota
Peak Hour F	rom 0	6:15 F	PM to	07:45	PM - Pe	eak 1 d	of 1														
By Approach	06:45	РМ				06:15	PM				06:15	PM				06:15	5 PM				
Volume	105	3	167	0	275	169	341	98	3	611	127	1	36	0	164	55	434	145	3	637	
Percent	38. 2	1.1	60. 7	0.0	WATER CO.	27. 7	55. 8	16. 0	0.5		77. 4	0.6	22. 0	0.0		8.6	68. 1	22. 8	0.5		
High Int.	07:30	PM				06:45	PM			ľ	06:15	PM			1	06:45	5 PM			1.1	Î
Volume	30	0	49	0	79	47	101	21	1	170	41	1	8	0	50	16	121	36	0	173	
Peak					0.87					0.89	0.0000				0.82					0.92	
Factor					0					9					0					1	



Coatsville, PA 19320 (610) 466-1469

File Name : BG1022-8 Site Code : 00000000 Start Date : 10/22/2005

Page No : 1

Location: Monroe County, PA Intersection: Oak St / Rt 940

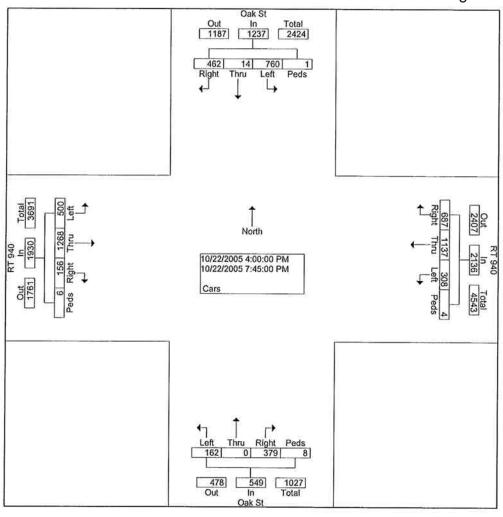
DateSaturday, October 22 2005

Counter: RZ

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File Name : BG1022-8 Site Code : 00000000

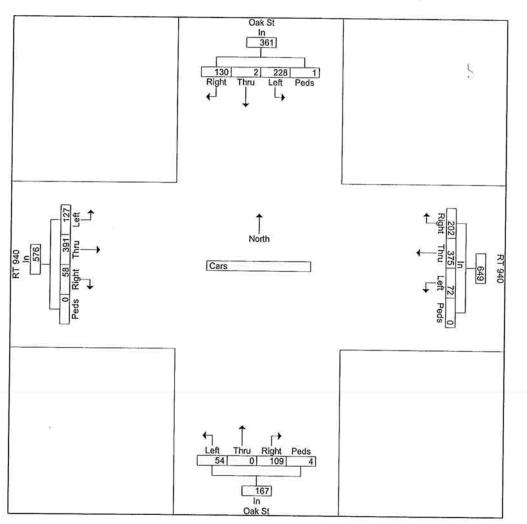
Start Date : 10/22/2005



File Name : BG1022-8 Site Code : 00000000

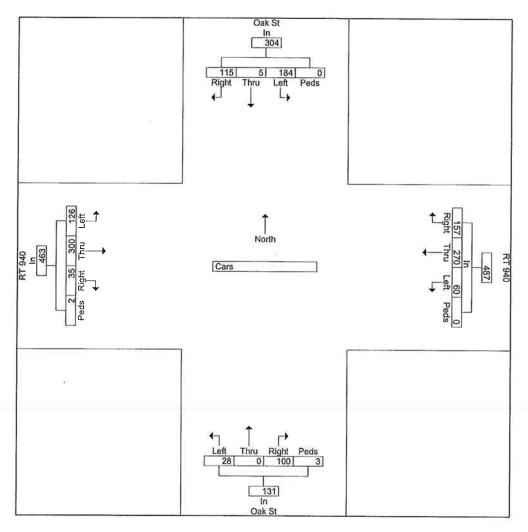
Start Date : 10/22/2005

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01.1	57		TOTTI 140	-	_	-		rom E				F	rom Sc	outh			F	rom W	est		
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Time	ht	u	LCIL	s	Total	ht	u	Leit	s	Total	ht		Left	s	Total	ht	u	Left		- 17	
eak Hour F	rom 0	4:00 F	PM to	06:00	PM - P	eak 1	of 1				- 110		-	_ 0	Total	110	<u>u</u>	_		Total	Tota
By Approach	04:00					04:15					04:00	PM				04:00) PM				
Volume	130	2	228	1	361	202	375	72	. 0	649	109	0	54	4	167	58	391	127	0	576	į.
Percent	36. 0	0.6	63. 2	0.3	52540	31. 1	57. 8	11. 1	0.0	05.18	65. 3	0.0	32. 3	2.4	,,,	10.	67.	22.	0.0	370	
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Factor					0.07					7					88.0					0.87	



File Name : BG1022-8 Site Code : 00000000 Start Date : 10/22/2005

		F	Oak S					RT 94 rom E	-			Fi	Oak S	-				RT 94	-		Ì
Start Time	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr	Left	Ped s	App. Total	Rig ht	Thr	Left	Ped	App. Total	Rig ht	Thr u	Left	Ped	App. Total	Int. Total
Peak Hour F	rom 0	6:15 F	PM to	07:45	PM - Pe	eak 1 d	of 1														Total
By Approach	06:15	РМ				06:30	PM				06:15	РМ				06:15	PM				
Volume	115	5	184	0	304	157	270	60	0	487	100	0	28	3	131	35	300	126	2	463	1
Percent	37. 8	1.6	60. 5	0.0	11355000	32. 2	55. 4	12. 3	0.0	8.61%	76. 3	0.0	21. 4	2.3		7.6	64. 8	27.	0.4	,00	
High Int.	06:15	PM				06:30	PM			11.1	06:15	PM			ì	07:00	PM	-			1
Volume	31	2	48	0	81	43	75	23	0	141	29	0	6	1	36	9	94	36	0	139	
Peak					0.93					0.86					0.91					0.83	
Factor					8					3					0					3	



Location: Monroe County, PA Intersection: Rt. 611 / Rt. 940 WB

Date: Friday, October 21, 2005

Counter: JT

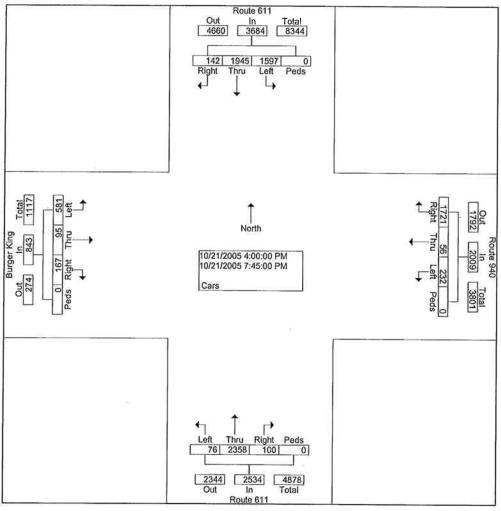
Coatsville, PA 19320 (610) 466-1469

File Name : BG1021~2 Site Code : 00000000 Start Date : 10/21/2005

-											ups Prin	ted- Ca	ars									
				Route 6				F	Route 9	940	******		F	Route 6	311			В	urger l	King		1
				rom No					rom E				F	rom Sc	outh				rom W			
	Start	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Int.
	Time	ht	u		S	Total	ht	u		s	Total	ht	u	ren	s	Total	ht	u	Leit	s	Total	Total
	Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0	01	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		
	4:00 PM	10	143	106	0	259	106	6	13	0	125	3	157	6	0	166	8	5	48	0	61	611
	4:15 PM	10	141	137	0	288	157	4	17	0	178	13	137	8	0	158	21	8	24	0	53	677
	4:30 PM	13	190	142	0	345	130	6	28	0	164	4	162	8	0	174	10	4	59	0	73	756
_04	4:45 PM	20	175	125	0	320	132	1	13	0	146	4	191	3	0	198	17	5	56	0	78	742
	Total	53	649	510	0	1212	525	17	71	0	613	24	647	25	0	696	56	22	187	0	265	2786
	5:00 PM	7	140	147	0	294	142	7	25	0	174	8	163	4	0	175	7	10	51	0	68	711
	5:15 PM	10	135	102	0	247	121	5	23	0	149	7	181	7	0	195	8	8	56	0	72	663
	5:30 PM	8	128	109	0	245	132	4	6	0	142	8	162	3	0	173	11	5	51	0	67	627
05	5:45 PM	8	126	103	0	237	113	3	12	0	128	10	160	5	0	175	11	11	48	0	70	610
	Total	33	529	461	0	1023	508	19	66	0	593	33	666	19	0	718	37	34	206	0	277	2611
																2000-1					1000.000.04	
	3:00 PM	6	98	112	0	216	120	4	17	0	141	8	157	5	0	170	12	2	36	0	50	577
	3:15 PM	14	99	84	0	197	117	1	12	0	130	5	129	5	0	139	10	6	42	0	58	524
	3:30 PM	9	116	82	0	207	84	1	13	0	98	4	133	6	0	143	11	6	14	0	31	479
_ 06	8:45 PM	6	112	94	0	212	92	4	11	0	107	4	117	4	0	125	14	12	30	0	56	500
	Total	35	425	372	0	832	413	10	53	0	476	21	536	20	0	577	47	26	122	0	195	2080
					255						2											
	2:00 PM	8	97	76	0	181	71	3	8	0	82	6	150	4	0	160	11	2	19	0	32	455
	':15 PM	3	98	63	0	164	74	5	6	0	85	9	117	2	0	128	8	6	11	0	25	402
	':30 PM	7	79	56	0	142	60	1	15	0	76	4	112	5	0	121	4	3	25	0	32	371
07	':45 PM	3	68	59	0	130	70	1	13	0	84	3	130	1	0	134	4	2	11	0	17	365
	Total	21	342	254	0	617	275	10	42	0	327	22	509	12	0	543	27	13	66	0	106	1593
																15						
	Grand	142	194	159	0	3684	172	56	232	0	2009	100	235	76	0	2534	167	95	581	0	843	9070
	Total		5	7	v	0001	1	00		90	2000	100	8	70		2004	107	93	301	U	043	9070
An	prch %	3.9	52.	43.	0.0	- 1	85.	2.8	11.	0.0		3.9	93.	3.0	0.0	1	19.	11.	68.	0.0		
٠.١	F. 511 70	5.0	8	. 3	0.0		7	2.0	5	0.0		0.0	1	0.0	0.0		8	3	9	0.0		
-	Total %	1.6	21.	17.	0.0	40.6	19.	0.6	2.6	0.0	22.1	1.1	26.	0.8	0.0	27.9	1.8	1.0	6.4	0.0	9.3	
	, 0		4	6	0,0	10.0	0	×1×		0.0		3.95	0	0.0	0.0	21.0	1.0	1.0	0.4	0.0	9.3	

File Name : BG1021~2 Site Code : 00000000

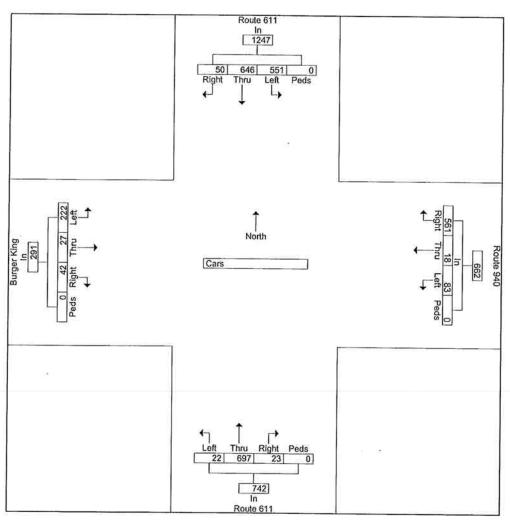
Start Date : 10/21/2005



File Name : BG1021~2 Site Code : 00000000

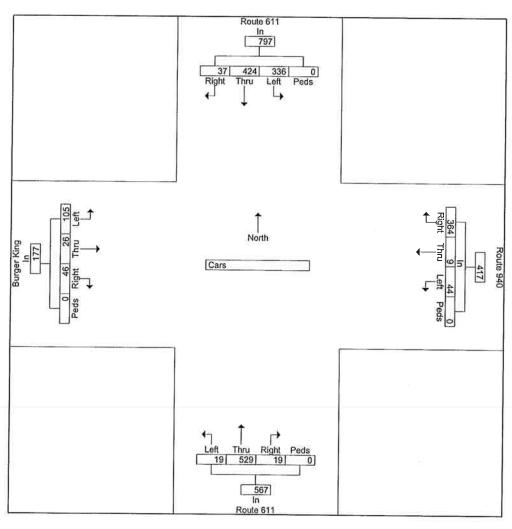
Start Date : 10/21/2005

			Route 6					Route 9					Route 6				В	urger l	King		1
			rom No	-			-	rom E	ast			. F	rom Sc	outh			F	rom W	est		
Start	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	1 6	Ped	App.	Rig	Thr	= = 0	Ped	App.	Int
Time	ht	u		S		ht	u	Leit	s	Total	ht	u	Left	s	Total	ht	u	Left	s	Total	Tota
Peak Hour F	rom 0	14:00 F	PM to (06:00	PM - Po	eak 1 c	f 1				-				10101	148.1	<u> </u>		- 0	Total	Tota
} By						I					F				1	r					ì
Approach	04:15	PM				04:15	РМ				04:30	PM				04:30	PM				
Volume	50	646	551	0	1247	561	18	83	0	662	23	697	22	0	742	42	27	222	0	291	
Percent	4.0	51.	44.	0.0		84.	2.7	12.	0.0			93.				14.		76.	J		
1 GIGGIII	4.0	8	2	0.0		7	2.7	5	0.0		3.1	9	3.0	0.0		4	9.3	3	0.0	- 1	
High Int.	04:30	PM (04:15	PM				04:45	5 PM				04:45	PM	Ü		4	1
Volume	13	190	142	0	345	157	4	17	0	178	4	191	3	0	198	17	5	56	0	78	
Peak					0.90					0.93			~	Ū	0.93	.,	U	50	U	0.93	
Factor					4					0.00					7						
										O	li .				7.1					3	



File Name: BG1021~2 Site Code : 00000000 Start Date : 10/21/2005

			Route 6					Route 9					Route 6					urger l]
Start Time	Rig ht	Thr	Left	Ped	App. Total	Rig ht	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Int.
Peak Hour F		6:15 I	PM to	o7:45			of 1		S	Total	ht	u		S	Total	ht	u		S	Total	Total
By Approach	06:15	PM				06:15	PM				06:18	5 PM				06:15	5 PM				
Volume	37	424	336	0	797	364	9	44	0	417	19	529	19	0	567	46	26	105	0	177	1
Percent	4.6	53. 2	42. 2	0.0		87. 3	2.2	10. 6	0.0		3.4	93. 3	3.4	0.0		26. 0	14. 7	59. 3	0.0		
High Int.	06:45	PM)	06:15	PM				07:00	PM				06:15	PM	Ü		0	1
Volume	6	112	94	0	212	117	1	12	0	130	6	150	4	0	160	10	6	42	0	58	•
Peak Factor					0.94 0					0.80 2					0.88					0.76	



Coatsville, PA 19320 (610) 466-1469

File Name: BG1022~2 Site Code : 00000000 Start Date : 10/22/2005

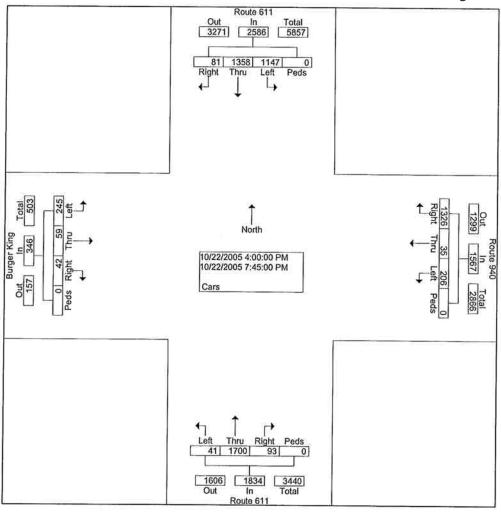
Page No : 1

Location: Monroe County, PA Intersection: Rt. 611 / Rt. 940 WB

Date: Saturday, October 22, 2005 Counter: JT

	Groups Printed- Cars																				
	Route 611					Route 940						F	Route 6	311			1				
			rom No					rom E				F	rom Sc	outh			F	rom W	est .		
Start	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	Арр.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Int.
Time	ht	u		S	Total	ht	u	9	S	Total	ht	u	LOIL	S	Total	ht	u	Leit	s	Total	Total
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		
04:00 PM	12	103	83	0	198	92	3	18	0	113	5	104	2	0	111	1	8	17	0	26	448
04:15 PM	4	85	58	0	147	116	3	19	0	138	10	155	5	0	170	3	3	19	0	25	480
04:30 PM	_® 8	115	87	0	210	97	1	13	0	111	4	132	2	0	138	5	6	48	0	59	518
04:45 PM	6	100	84	0	190	110	2	16	0	128	5	114	2	0	121	2	4	26	0	32	471
Total	30	403	312	0	745	415	9	66	0	490	24	505	11	0	540	11	21	110	0	142	1917
					9																
05:00 PM	5	78	79	0	162	105	2	14	0	121	8	106	3	0	117	2	4	18	0	24	424
05:15 PM	6	89	52	0	147	76	1	13	0	90	11	119	2	0	132	1	2	14	0	17	386
05:30 PM	4	99	82	0	185	79	2	11	0	92	9	130	3	0	142	4	1	15	0	20	439
05:45 PM	2	91	73	0	166	101	2	18	0	121	8	115	2	0	125	2	3	18	0	23	435
Total	17	357	286	0	660	361	7	56	0	424	36	470	10	0	516	9	10	65	0	84	1684
06:00 PM	7	67	72	0	146	74	2	10	0	86	4	108	4	0	116	4	5	12	0	21	369
06:15 PM	5	74	85	0	164	72	3	12	0	87	3	96	3	0	102	2	6	13	0	21	374
06:30 PM	1	86	79	0	166	95	3	11	0	109	5	97	3	0	105	2	2	7	0	11	391
06:45 PM	6	72	69	0	147	78	2	_ 13	0	93	4	80	0	0	84	4	0	7	0	11	335
Total	19	299	305	0	623	319	10	46	0	375	16	381	10	0	407	12	13	39	0	64	1469
															. 1342407.					· ·	
07:00 PM	2	94	67	0	163	62	2	12	0	76	4	96	1	0	101	3	3	11	0	17	357
07:15 PM	8	78	52	0	138	52	2	13	0	67	5	96	3	0	104	3	4	8	0	15	324
07:30 PM	1	63	65	0	129	57	3	7	0	67	5	72	4	0	81	2	5	7	0	14	291
07:45 PM	4	64	60	0	128	60	2	6	0	68	3	80	2	0	85	2	3	5	Ō	10	291
Total	15	299	244	0	558	231	9	38	0	278	17	344	10	0	371	10	15	31	0	56	1263
										68					C00 = 18					1	
Grand	81	135	114	0	2586	132	35	206	0	1567	93	170	44	0	4004	40		0.45		0.0	
Total	01	8	7	U	2500	6	30	200	U	1567	93	0	41	0	1834	42	59	245	0	346	6333
Apprch %	3.1	52.	44.	0.0	- 1	84.	2.2	13.	0.0	- 1	5.1	92.	0.0	0.0	- 1	12.	17.	70.		- 1	
Appleii 70	J. I	5	4	0.0		6	۷.۷	1	0.0		5,1	7	2.2	0.0		1	1	8	0.0		
Total %	1.3	21.	18.	0.0	40.8	20.	0.6	3.3	0.0	247	1 5	26.	0.0	0.0	20.0	0.7	0.0		0.0		
TOTAL 70	1,0	4	1	0.0	40.0	9	0.0	ა.ა	0.0	24.7	1.5	8	0.6	0.0	29.0	0.7	0.9	3.9	0.0	5.5	
										1.5										Į.	

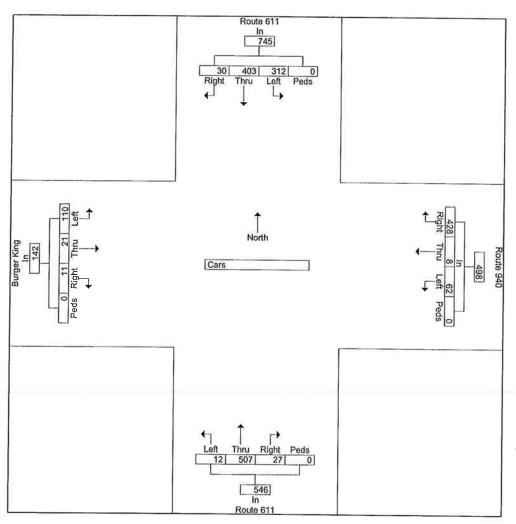
File Name : BG1022~2 Site Code : 00000000 Start Date : 10/22/2005



File Name : BG1022~2 Site Code : 00000000

Start Date : 10/22/2005

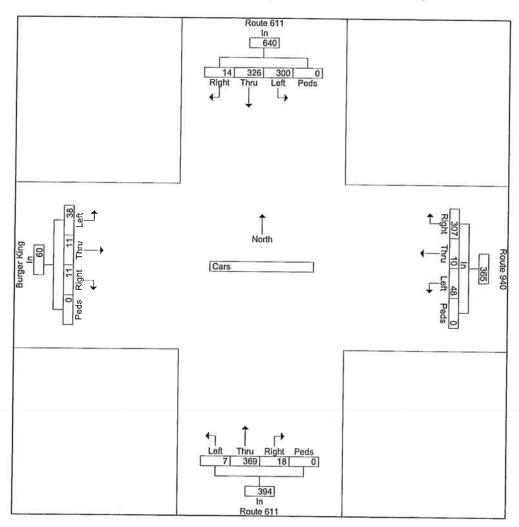
27			Route 940 From East					Route 611 From South					Burger King From West								
Start Time	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped	App. Total	Int. Total
Peak Hour F By	rom 0	4:00 I	PM to	06:00	PM - Pe	eak 1 c	of 1				1										
Approach	04:00 PM					04:15 PM					04:15 PM					04:00 PM					
Volume	30	403	312	0	745	428	8	62	0	498	27	507	12	0	546	11	21	110	0	142	Ö.
Percent	4.0	54. 1	41. 9	0.0		85. 9	1.6	12. 4	0.0		4.9	92. 9	2.2	0.0		7.7	14. 8	77. 5	0.0		
High Int.	1					04:15 PM					04:15 PM					04:30 PM					
Volume Peak Factor	8	115	87	0	210 0.88	116	3	19	0	138 0.90	10	155	5	0	170 0.80	5	6	48	0	59 0,60	



File Name : BG1022~2 Site Code : 00000000

Start Date : 10/22/2005

		F	Route 6 rom No	orth			F	Route 9					Route 6					urger k			1
Start	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr		Ped	App.	Int
Time	ht	u	1 1	S	Total	ht	ш	2011	S	Total	ht	u	LGIL	s	Total	ht	u	Left	s	Total	Tota
Peak Hour F	rom 0	6:15 F	PM to (07:45	PM - P6	eak 1 c	of 1														1010
By Approach	06:15	РМ				06:15	PM				06:30	PM (06:15	5 PM				1
Volume	14	326	300	0	640	307	10	48	0	365	18	369	7	0	394	11	11	38	0	60	1
Percent	2.2	50. 9	46. 9	0.0		84. 1	2.7	13. 2	0.0		4.6	93. 7	1.8	0.0		18. 3	18. 3	63. 3	0.0	00	
High Int.	06:30	PM				06:30	PM				06:30	PM			i i	06:15	_	J		Ţ.	1
Volume	1	86	79	0	166	95	3	11	0	109	5	97	3	0	105	2	6	13	Ω	21	le.
Peak					0.96				-	0.83		3,	U	U	0.93	4	U	13	U	1	
Factor					4					7					0.93					0.71	



Tri-State Traffic Data, Inc. 184 Baker Road Coatsville, PA 19320

Location: Monroe County, PA Intersection: Rt. 611 / Rt. 940 EB

Date: Friday, October 21, 2005

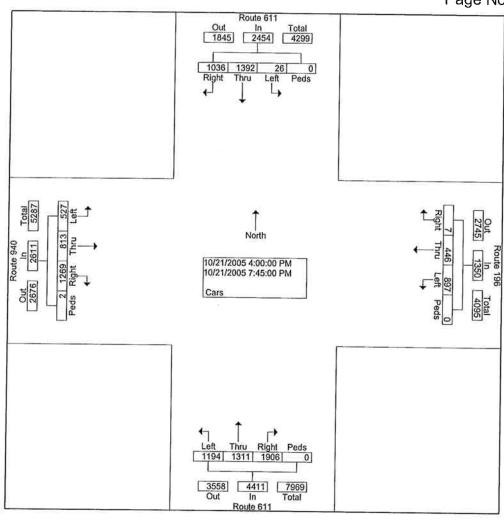
Counter: ET

patsville, PA 19320 File Name : BG1021~1 Site Code : 00000000 Start Date : 10/21/2005

																	. ∽9	0 1 10			
	-		2	244						ups Prir	ited- C										
	1		Route 6					Route					Route 6					Route 9			
Ctout	Die		rom N			- D:		rom E			l		rom So	-				rom W			
Start	1	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Int.
Time	ht	u 4 0	10	S	Total	ht	u		S	Total	ht	u		S	Total	ht	u	LGIL	S	Total	Total
Factor	1.0	1.0	1.0	1.0	212	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		
04:00 PM	79	133	3	0	215	0	28	51	0	79	108	107	76	0	291	80	59	24	0	163	748
04:15 PM	92	143	1	0	236	0	28	52	0	80	104	96	75	0	275	79	42	36	0	157	748
04:30 PM	98	144	2	0	244	1	33	59	0	93	131	94	79	0	304	126	52	39	0	217	858
04:45 PM	89	134	0	0	223	0	34	62	0	96	146	103	82	0	331	98	42	42	0	182	832
Total	358	554	6	0	918	1	123	224	0	348	489	400	312	0	1201	383	195	141	0	719	3186
						10 21					10 10										
05:00 PM	75	100	1	0	176	0	21	61	0	82	147	97	82	0	326	107	49	35	0	191	775
05:15 PM	60	78	0	0	138	0	23	67	0	90	141	106	83	0	330	81	60	35	0	176	734
05:30 PM	83	82	3	0	168	0	33	63	0	96	137	103	67	0	307	89	47	38	0	174	745
05:45 PM	57	90	2	0	149	1	30	71	0	102	134	95	83	0	312	74	56	31	0	161	724
Total	275	350	6	0	631	1	107	262	0	370	559	401	315	0	1275	351	212	139	0	702	2978
																				102	2010
06:00 PM	43	83	1	0	127	0	30	47	0	77	129	92	81	0	302	83	59	31	0	173	679
06:15 PM	56	68	0	0	124	0	20	55	0	75	134	66	79	0	279	76	52	35	1	164	642
06:30 PM	58	82	1	0	141	3	32	58	0	93	108	67	60	ō	235	73	54	28	ò	155	624
06:45 PM	65	64	0	0	129	0	26	60	0	86	104	64	81	ō	249	75	44	31	1_	151	615
Total	222	297	2	0	521	3	108	220	0	331	475	289	301	0	1065	307	209	125	2	643	2560
						Min 10000				455,400,000			0.000001	1000				120	-	040	2000
07:00 PM	48	63	4	0	115	0	32	53	0	85	114	56	76	0	246	66	54	33	0	153	599
07:15 PM	46	44	2	0	92	2	21	42	0	65	96	58	57	õ	211	68	43	32	Ö	143	511
07:30 PM	47	43	3	0	93	0	25	55	0	80	83	50	64	Ö	197	45	48	31	ő	124	494
07:45 PM	40	41	3	0	84	0	30	41	Ŏ	71	90	57	69	Ö	216	49	52	26	ő	127	498
Total	181	191	12	0	384	2	108	191	0	301	383	221	266	0	870	228	197	122	0	547	2102
						hi -					000		200		010	220	101	122	U	347	2102
Grand	103	139	00	- 6		1	272221	727252	020		190	131	119		rerote I	126				1	1000
Total	6	2	26	0	2454	7	446	897	0	1350	6	1	4	0	4411	9	813	527	2	2611	1082 6
	42.	56.		0.0			33.	66.	-		43.	29.	27.			48.	31,	20.			o
Apprch %	2	7	1.1	0.0		0.5	0	4	0.0	1	2	7	1	0.0		40. 6	J 1.	20. 2	0.1		
Tarator	0.0	12.					3		1272	7027 E 0720	17.	12.	11.		0.000	11.	'	2			
Total %	9.6	9	0.2	0.0	22.7	0.1	4.1	8.3	0.0	12.5	6	1	0	0.0	40.7	7 1.	7.5	4.9	0.0	24.1	

File Name : BG1021~1 Site Code : 00000000

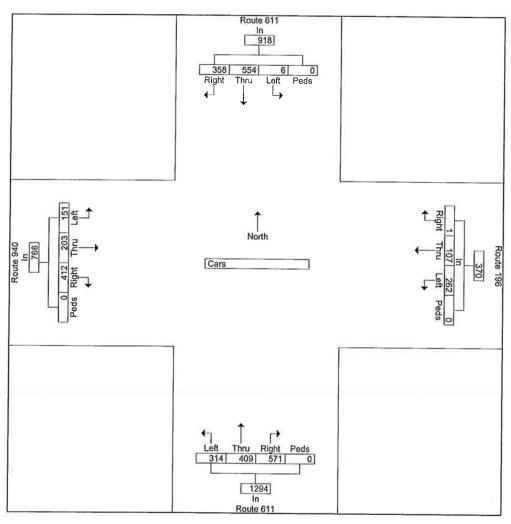
Start Date : 10/21/2005 Page No : 2



File Name : BG1021~1 Site Code : 00000000

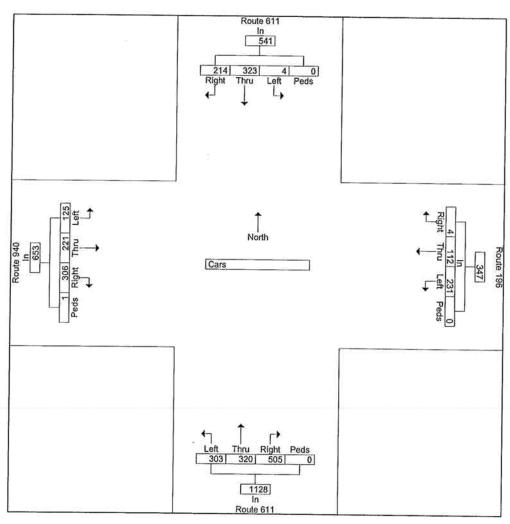
Start Date : 10/21/2005

			Route 6					Route 1 rom E					Route 6		V			Route 9			
Start <u>Time</u> Peak Hour F	Rig ht	Thr	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Ir Tot
By Approach	04:00		- IVI LO	00.40	rivi - re	05:00					04:45	5 PM				04:30	PM				
Volume Percent	358 39. 0	554 60. 3	6 0.7	0.0	918	0.3	107 28. 9	262 70. 8	0.0	370	571 44. 1	409 31.	314 24. 3	0.0	1294	412 53. 8	203 26.	151 19.	0.0	766	
High Int.	04:30			_		05:45					04:45		Ū			04:30	PM	,		1	
Volume Peak Factor	98	144	2	0	244 0.94 1	1	30	71	0	102 0.90 7	146	103	82	0	331 0.97 7	126	52	39	0	217 0.88 2	



File Name : BG1021~1 Site Code : 00000000 Start Date : 10/21/2005

Start Rig Thr Left Ped App. Rig Thr Left Ped App. Rig Thr Left Ped App. Total Rig Thr Left Ped App. Rig Thr				Route 6					Route 1 rom E					Route 6					Route 9			Ì
By Approach 05:45 PM 06:00 PM		ht	u		s	Total	ht	u	Left	Ped s	_		Thr		Ped	- 100				Ped	App. Total	Int. Total
Percent 6 7 0.7 0.0 1.2 32. 66. 0.0 44. 28. 26. 8 4 9 0.0 98 1 0.2	Ву			M to	07:45	PM - P						05:45	5 PM				05:45	5 PM				
High Int. 05:45 PM		39.	-		Ü	541			66.	_	347	44.	28.	26.	•	1128	46.	33.	. — -	1 0.2	653	
Factor 8 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Volume Peak			2	Ô	0.90	05:45 1		_	0	102 0.85	05:45	PM	_	0	312 0.90	06:00	PM	31	0	173 0.94	1



Tri-State Traffic Data, Inc. 184 Baker Road Coatsville, PA 19320

(610) 466-1469

File Name: BG1022~1 Site Code : 00000000 Start Date : 10/22/2005

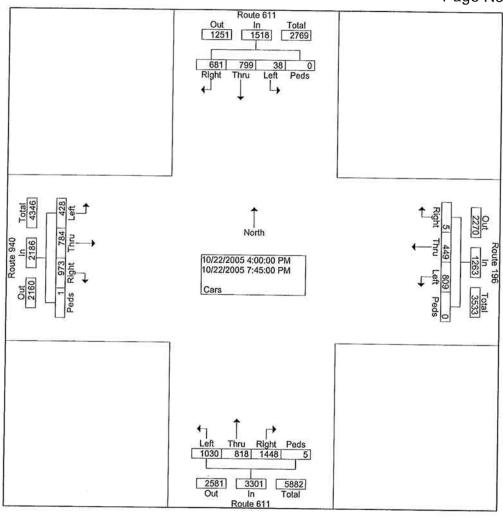
Page No : 1

Location: Monroe County, PA Intersection: Rt. 611 / Rt. 940 EB Date: Saturday, October 22, 2005

Counter: ET Groups Printed- Cars

	-	-								ups Prir	ited- C	ars									
			Route 6					Route '					Route 6					Route 9	940		1
Otest	- D:		rom N					rom E				F	rom So				F	rom W	/est		
Start	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	Арр.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Int.
Time	ht	u		S	Total	ht	u		S	Total	ht	u	Leit	S	Total	ht	u	Leit	s	Total	Total
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		
04:00 PM	49	61	3	0	113	1	26	57	0	84	82	62	63	0	207	82	52	26	0	160	564
04:15 PM	51	48	1	0	100	0	39	51	0	90	129	72	93	0	294	52	45	33	0	130	614
04:30 PM	49	65	0	0	114	0	24	66	0	90	118	57	81	0	256	81	45	34	0	160	620
04:45 PM	55	59	4_	0	118	0	37	49	0	86	100	71	73	0	244	75	47	34	0	156	604
Total	204	233	8	0	445	1	126	223	0	350	429	262	310	0	1001	290	189	127	0	606	2402
05:00 PM	47	51	0	0	98	1	30	58	0	89	100	49	81	0	230	55	51	26	0	132	549
05:15 PM	47	46	3	0	96	1	34	51	0	86	90	63	63	Ö	216	62	66	22	1	151	549
05:30 PM	46	56	2	0	104	0	36	63	0	99	106	46	72	Õ	224	68	71	17	Ó	156	583
05:45 PM	36	57	4	0	97	0	35	50	0	85	111	54	70	0	235	46	52	35	0	133	550
Total	176	210	9	0	395	2	135	222	0	359	407	212	286	0	905	231	240	100	1	572	2231
06:00 PM	34	56	4	0	94	1	34	35	0	70	95	49	57	0	201	54	E0.	00	0	400	
06:15 PM	35	46	1	Õ	82	Ö	21	56	Õ	77	72	54	58	4	188	59	50 45	29 34	0	133	498
06:30 PM	52	52	2	Õ	106	Ö	31	44	Ö	75	90	46	60	0	196	63	49		0	138	485
06:45 PM	38	51	1	Ŏ	90	ő	25	52	0	77	74	38	57	1	170	45	49	24 26	0	136	513
Total	159	205	8	0	372	1	111	187	0	299	331	187	232	5	755	221	184	113	<u>0</u>	111 518	448 1944
07:00 PM	34	36	4	^	71 l		0.5	F.4		70							0.750		Ū	0.00	1011
07:15 PM	46	40	4	0	90	0	25	51	0	76	78	49	48	0	175	79	54	28	0	161	483
07:13 PM	30	34	4	0	68	0	20	45	0	65	77	36	54	0	167	51	43	21	0	115	437
07:30 PM	32	41		-		0	13	45	0	58	60	34	48	0	142	53	45	26	0	124	392
Total	142	151	13	0	77	4	19	36	0	56	66	38	52	0	156	_48	29	13	0	90	379
Total	142	131	13	U	306	1	77	177	0	255	281	157	202	0	640	231	171	88	0	490	1691
Grand Total	681	799	38	0	1518	5	449	809	0	1263	144 8	818	103 0	5	3301	973	784	428	1	2186	8268
Apprch %	44. 9	52. 6	2.5	0.0		0.4	35. 6	64. 1	0.0		43. 9	24. 8	31.	0.2		44. 5	35. 9	19. 6	0.0		
Total %	8.2	9.7	0.5	0.0	18.4	0.1	5.4	9.8	0.0	15.3	17. 5	9.9	12. 5	0.1	39.9	11. 8	9.5	5.2	0.0	26.4	

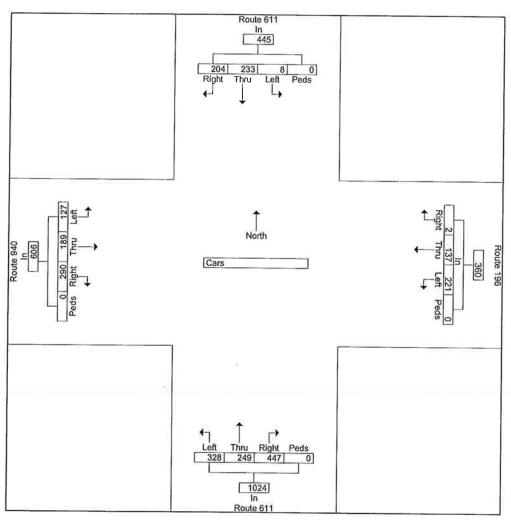
File Name : BG1022~1 Site Code : 00000000 Start Date : 10/22/2005



File Name : BG1022~1 Site Code : 00000000

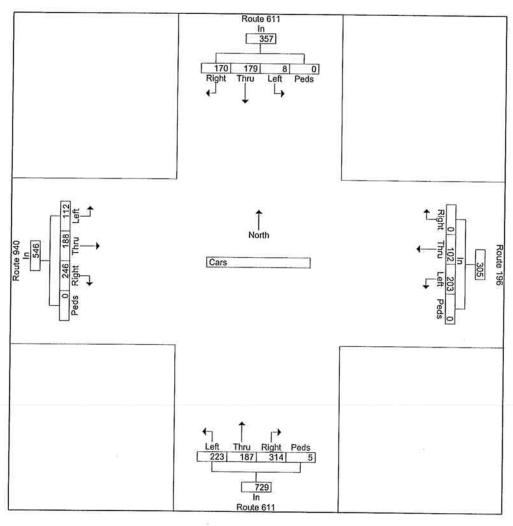
Start Date : 10/22/2005

		F	Route 6	orth				Route 1 rom E					Route 6					Route 9			
Start Time	Rig ht	Thr u	Lett	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr u	Left	Ped s	App. Total	Rig ht	Thr	Left	Ped s	App. Total	Int. Total
Peak Hour F	rom (4:00 F	PM to	06:00	PM - Pe	eak 1 d	of 1														
By Approach	04:00	PM				04:45	PM				04:15	PM				04:00	PM				
Volume	204	233	8	0	445	2	137	221	0	360	447	249	328	0	1024	290	189	127	Λ	606	
Percent	45. 8	52. 4	1.8	0.0		0.6	38. 1	61. 4	0.0		43. 7	24. 3	32.	0.0		47. 9	31.	21.	0.0	000	
High Int.	04:45	PM				05:30	PM				04:15	PM	ŭ		- 1	04:00) PM	U		- 1	
Volume Peak	55	59	4	0	118 0.94	0	36	63	0	99 0.90	129	72	93	0	294 0.87	82	52	26	0	160 0.94	
Factor					3					9					1					7	



File Name: BG1022~1 Site Code : 00000000 Start Date : 10/22/2005

			Roule 6					Route 1 rom E					Route 6					Route 9			1
Start	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	Left	Ped	App.	Rig	Thr	rom W	Ped	App.	l. Ir
Time eak Hour I	ht From C	U 6.15 I		S D7:45	Total	ht h	U U	LOIC	S	Total	ht	u	Leit	S	Total	ht	u	Left	s	Total	To
By			IVI LO	07.40	CIAI - C						1										6
Approach	06:30) PM				06:15	PM				06:15	PM				06:15	PM				
Volume	170	179	8	0	357	0	102	203	0	305	314	187	223	5	729	246	188	112	0	546	10
Percent	47. 6	50. 1	2.2	0.0		0.0	33. 4	66. 6	0.0		43. 1	25. 7	30. 6	0.7		45. 1	34. 4	20. 5	0.0		
High Int.	06:30	PM			1	06:15	PM				06:30	PM			ì	07:00	•	J			
Volume Peak	52	52	2	0	106 0.84	0	21	56	0	77 0.99	90	46	60	0	196 0.93	79	54	28	0	161	
Factor					2					0.00					0.93					0.84	



Tri-State Traffic Data, Inc. 184 Baker Road

Location: Monroe County, PA

Intersection: Rt 611 & Rt 314(West) Date: Friday, October 21, 2005

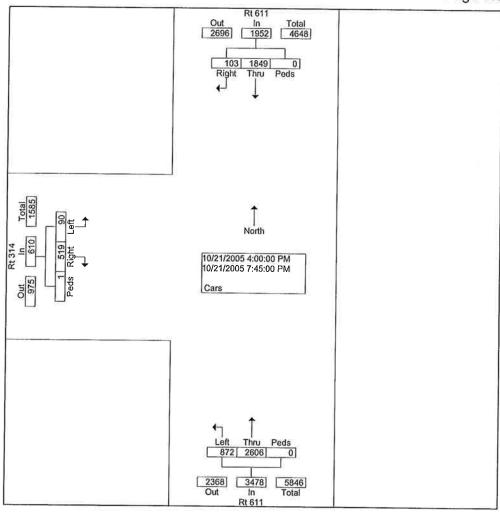
Counter: wc

Coatsville, PA 19320 (610) 466-1469

File Name : BG1021~4 Site Code : 00000000 Start Date : 10/21/2005

							Groups	Printed-	Cars							
			Rt 611					Rt 611					Rt 314			
		F	rom No	rth			F	rom Soi	uth			F	rom We	est		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		- 10(4)
04:00 PM	12	136	0	0	148	0	171	63	0	234	44	0	5	1	50	432
04:15 PM	5	153	0	0	158	0	139	62	0	201	29	0	5	0	34	393
04:30 PM	11	145	0	0	156	0	184	82	0	266	28	0	2	0	30	452
04:45 PM	5	160	0	0	165	0	177	103	0	280	42	0	1	0	43	488
Total	33	594	0	0	627	0	671	310	0	981	143	0	13	1	157	1765
05:00 PM	4	133	0	0	137	0	188	67	0	255	37	0	2	0	39	431
05:15 PM	5	151	0	0	156	0	177	100	0	277	23	0	4	0	27	460
05:30 PM	8	153	0	0	161	0	181	59	0	240	26	0	8	0	34	435
05:45 PM	11	122	0	0	133	0	190	50	0	240	33	0	12	0	45	418
Total	28	559	0	0	587	0	736	276	0	1012	119	0	26	0	145	1744
06:00 PM	5	104	0	0	109	0	175	46	0	221	38	0	3	0	41 [371
06:15 PM	4	84	0	0	88	0	165	43	0	208	60	0	2	0	62	358
06:30 PM	6	112	0	0	118	0	140	41	0	181	34	0	13	0	47	346
06:45 PM	7	93	0	0	100	0	177	30	0	207	49	0	14	0	63	370
Total	22	393	0	0	415	0	657	160	0	817	181	0	32	0	213	1445
07:00 PM	8	84	0	0	92	0	170	33	0	203	22	0	5	0	27	322
07:15 PM	1	84	0	0	85	0	98 -	33	0	131	18	0	4	0	22	238
07:30 PM	7	72	0	0	79	0	153	39	0	192	21	0	4	0	25	296
07:45 PM	4	63	0	0	67	0	121	21	0	142	15	0	6	0	21	230
Total	20	303	0	0	323	0	542	126	0	668	76	0	19	0	95	1086
Grand Total	103	1849	0	0	1952	0	2606	872	0	3478	519	0	90	1	610	6040
Apprch %	5.3	94.7	0.0	0.0		0.0	74.9	25.1	0.0	20021.000	85.1	0.0	14.8	0.2		
Total %	1.7	30.6	0.0	0.0	32.3	0.0	43.1	14.4	0.0	57.6	8.6	0.0	1.5	0.0	10.1	

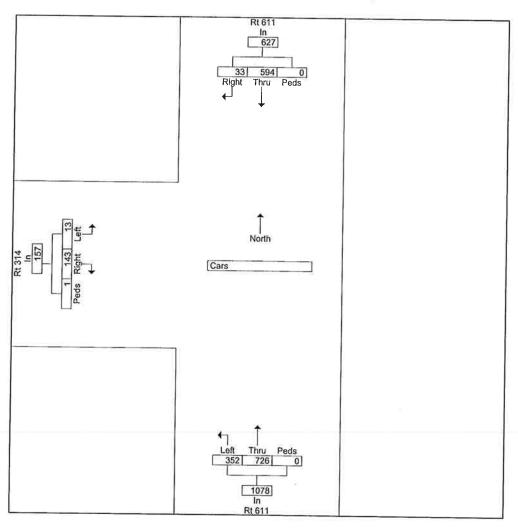
File Name : BG1021~4 Site Code : 00000000 Start Date : 10/21/2005



File Name : BG1021~4 Site Code : 00000000

Start Date : 10/21/2005

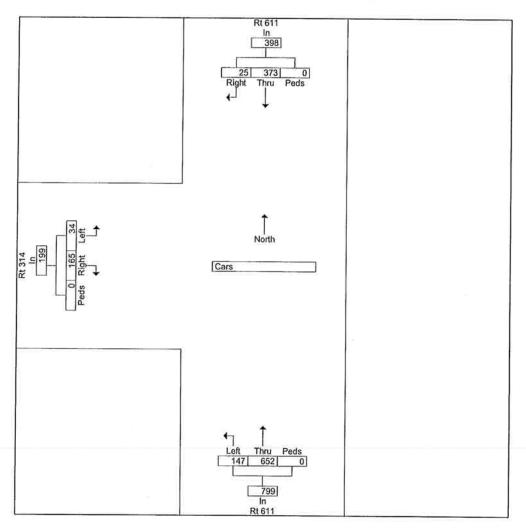
		F	Rt 611 rom No				F	Rt 611 rom Soi				F	Rt 314 rom We			
Start Time		Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
eak Hour Fron	n 04:00	PM to 0	6:00 PN	1 - Peak	1 of 1										Total	Total
By Approach					DESERTED IN	04:30 F	PM				04:00 P	M			1	
Volume	33	594	0	0	627	0	726	352	0	1078	143	0	13	1	157	
Percent	5.3	94.7	0.0	0.0	800	0.0	67.3	32.7	0.0		91.1	0.0	8.3	0.6	137	
High Int.	04:45 F	M				04:45 F	PM		010		04:00 P		0.5	0.0	1	
Volume	5	160	0	0	165	0	177	103	0	280	44	0	5	4	50	
Peak Factor					0.950			.00		0.963	1 44	U	3	3	50 0.785	



File Name: BG1021~4

Site Code : 00000000 Start Date : 10/21/2005

		F	Rt 611 rom No				F	Rt 611 rom Soi				F	Rt 314 From We			
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour Fron	n 06:15	PM to 0	7:45 PN	1 - Peak	1 of 1											10101
By Approach	06:15 F	PM				06:15 F	M				06:15 F	M			1	
Volume	25	373	0	0	398	0	652	147	0	799	165	0	34	0	199	
Percent	6.3	93.7	0.0	0.0	C.Mirroson	0.0	81.6	18.4	0.0	V.S.13V.	82.9	0.0	17.1	0.0	,00	
High Int.	06:30 F	PM				06:15 F	M		7.07		06:45 P		.,,,,	0.0	1	
Volume	6	112	0	0	118	0	165	43	0	208	49		14	n	63	
Peak Factor					0.843		1-1-2-21		-	0.960	3.5		, ,	Ü	0.790	



Tri-State Traffic Data, Inc. 184 Baker Road

Coatsville, PA 19320 (610) 466-1469

File Name : BG1022~4 Site Code : 00000000 Start Date : 10/22/2005

Page No : 1

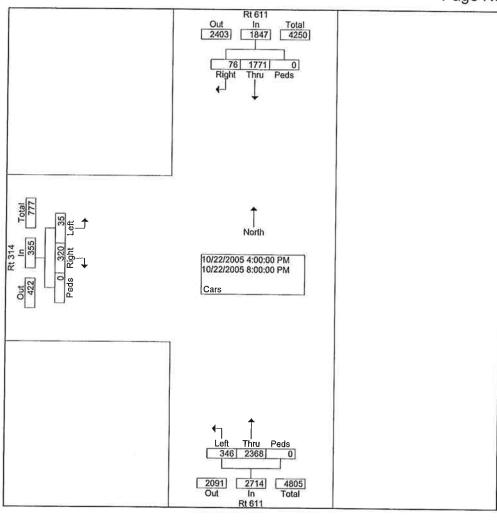
Location: Monroe County, PA Intersection: Rt 611 & Rt 314 (West)

Date: Saturday, October 22, 2005

Counter: wc

							Groups	Printed-	Cars							
			Rt 611				ATT	Rt 611					Rt 314			
		F	rom Noi	th ,			F	rom Sou	<u>ıth</u>			F	rom We	est		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0	1 1 1 1 1	7.0101
04:00 PM	3	145	0	0	148	0	180	22	0	202	21	0	2	0	23	373
04:15 PM	6	136	0	0	142	0	200	16	0	216	24	0	0	0	24	382
04:30 PM	9	139	0	0	148	0	176	20	0	196	16	0	5	0	21	365
04:45 PM	3	143_	0	0	146	0	151	20	0	171	23	0	4	0	27	344
Total	21	563	0	0	584	0	707	78	0	785	84	0	11	0	95	1464
05:00 PM	2	99	0	0	101	0	165	20	0	185	20	0	2	0	22	308
05:15 PM	5	122	0	0	127	0	168	23	0	191	19	0	3	0	22	340
05:30 PM	1	114	0	0	115	0	168	27	0	195	19	0	0	0	19	329
05:45 PM	2	114	0	0	116	0	129	23	0	152	22	0	3	0	25	293
Total	10	449	0	0	459	0	630	93	0	723	80	0	8	0	88	1270
06:00 PM	5	86	0	0	91	1	150	26	0	177	26	0	2	0	28	296
06:15 PM	10	106	0	0	116	0	156	23	0	179	22	1	2	0	25	320
06:30 PM	9	111	0	0	120	0	131	39	0	170	11	0	4	0	15	305
06:45 PM	3	75	0	0	78	0	117	25	0	142	16	0	0	0	16	236
Total	27	378	0	0	405	1	554	113	0	668	75	1	8	0	84	1157
07:00 PM	1	97	0	0	98	0	141	15	0	156	18	0	3	0	21	275
07:15 PM	2	100	0	0	102	0	122	24	0	146	16	0	3	0	19	267
07:30 PM	5	86	0	0	91	0	107	14	0	121	23	0	2	0	25	237
07:45 PM	10	98	0	0	108	0	107	9	0	116	24	0	0	0	24	248
Total	18	381	0	0	399	0	477	62	0	539	81	0	8	0	89	1027
BREAK ***					27											
Grand Total	76	1771	0	0	1847	1	2368	346	0	2715	320	1	35	0	356	4918
Apprch %	4.1	95.9	0.0	0.0		0.0	87.2	12.7	0.0		89.9	0.3	9.8	0.0	0.000	12.00
Total %	1.5	36.0	0.0	0.0	37.6	0.0	48.1	7.0	0.0	55.2	6.5	0.0	0.7	0.0	7.2	

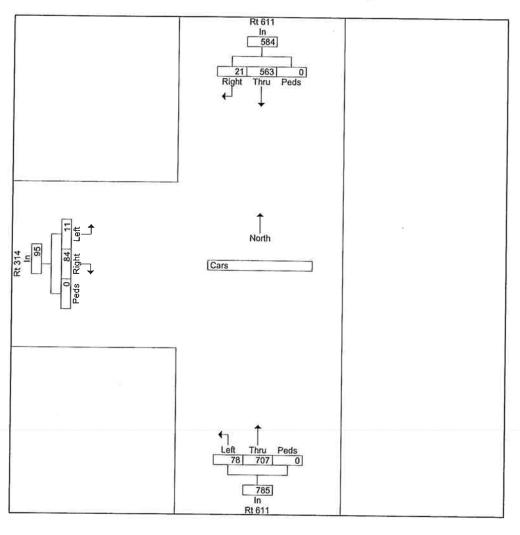
File Name : BG1022~4 Site Code : 00000000 Start Date : 10/22/2005



File Name : BG1022~4 Site Code : 00000000

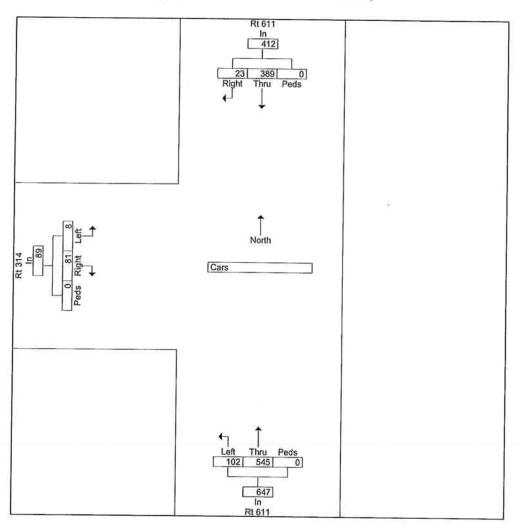
Start Date : 10/22/2005

		F	Rt 611 rom No				F	Rt 611 rom So					Rt 314 From We			
Start Time	Right	Thru	Left		App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour Fron	n 04:00	PM to 0	6:00 PN	1 - Peak	1 of 1									-	Total	Total
By Approach	04:00 F					04:00 F	PM				04:00 P	M			1	
Volume	21	563	0	0	584	0	707	78	0	785	84	0	11	0	95	
Percent	3.6	96.4	0.0	0.0		0.0	90.1	9.9	0.0		88.4	0.0	11.6	0.0	30	
High Int.	04:00 F	M				04:15 F	12.00	0.0	0.0		04:45 P	A STATE OF THE PARTY OF THE PAR	11.0	0.0	1	
Volume	3	145	0	0	148	0	200	16	0	216	23		1	0	27	
Peak Factor					0.986	8	0000000		ŭ	0.909	20	o	7	U	0.880	



File Name : BG1022~4 Site Code : 00000000 Start Date : 10/22/2005

		F	Rt 611 rom No				F	Rt 611 rom Sou	uth		Rt 314 From West					
Start Time	Right	Thru	Left		App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour From	m 06:15	PM to 0	8:00 PN	1 - Peak	1 of 1					1 4461					Total	Total
By Approach						06:15 F	PM				07:00 F	M			Ĭ.	
Volume	23	389	0	0	412	0	545	102	0	647	81	0	R	Λ	89	
Percent	5.6	94.4	0.0	0.0		0.0	84.2	15.8	0.0	200.00	91.0	0.0	9.0	0.0	03	
High Int.	06:30 F	PM				06:15 F	1.00	10,0	0.0		07:30 F		3.0	0,0	- 1	
Volume	9	111	0	0	120	0	156	23	0	179	23	0	2	0	25	
Peak Factor					0.858				J	0.904	20	U	-	U	0.890	



Tri-State Traffic Data, Inc. 184 Baker Road

Location: Monroe County, PA Intersection: Rt 611 & Rt 314 (East) Date: Friday, October 21, 2005

Counter: Id

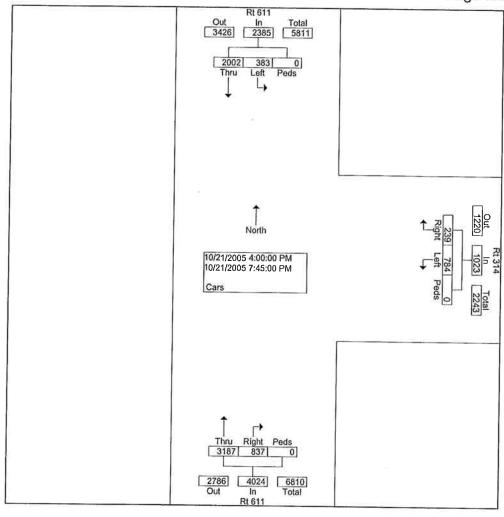
Coatsville, PA 19320 (610) 466-1469

File Name: BG1021~3 Site Code : 00000000 Start Date : 10/21/2005

							Groups	Printed-	Cars				Ů			
		F	Rt 611 rom No					Rt 314 From Ea				F	Rt 611 rom Sou	ıth		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0	Total	Total
04:00 PM	0	147	29	0	176	22	0	96	0	118	49	188	2	0	239	533
04:15 PM	0	166	17	0	183	22	0	75	0	97	57	185	3	ŏ	245	525
04:30 PM	0	149	22	0	171	28	0	92	0	120	54	235	4	Õ	293	584
04:45 PM	0	184	23	0	207	26	0	69	0	95	50	255	2	Ö	307	609
Total	0	646	91	0	737	98	0	332	0	430	210	863	11	0	1084	2251
05:00 PM	0	155	23	0	178	23	0	58	0	81	67	236	0	0	303	562
05:15 PM	0	156	19	0	175	19	0	65	0	84	63	256	0	0	319	578
05:30 PM	0	159	15	0	174	13	0	58	0	71	48	220	2	0	270	515
05:45 PM	0	128	20	0	148	10	0	44	0	54	62	233	1	Ō	296	498
Total	0	598	77	0	675	65	0	225	0	290	240	945	3	0	1188	2153
06:00 PM	0	116	33	0	149	8	0	37	0	45	53	205	2	0	260	454
06:15 PM	0	120	37	0	157	11	0	29	0	40	59	183	2	0	244	441
06:30 PM	0	110	40	0	150	10	0	38	0	48	66	172	0	0	238	436
06:45 PM	0	95	35	0	130	9	0	28	0	37	58	186	2	0	246	413
Total	0	441	145	0	586	38	0	132	0	170	236	746	6	0	988	1744
07:00 PM	0	82	23	0	105	16	0	31	0	47	58	189	0	0	247	399
07:15 PM	0	86	20	0	106	7	0	22	0	29	44	130	0	0	174	309
07:30 PM	0	83	16	0	99	10	0	25	0	35	25	174	0	0	199	333
07:45 PM	0	66	11	0	77	5	0	17	0	22	24	140	0	0	164	263
Total	0	317	70	0	387	38	0	95	0	133	151	633	0	0	784	1304
Grand Total	0	2002	383	0	2385	239	0	784	0	1023	837	3187	20	0	4044 l	7452
Apprch %	0.0	83.9	16.1	0.0		23.4	0.0	76.6	0.0	ľ	20.7	78.8	0.5	0.0		, 102
Total %	0.0	26.9	5.1	0.0	32.0	3.2	0.0	10.5	0.0	13.7	11.2	42.8	0.3	0.0	54.3	

File Name : BG1021~3 Site Code : 00000000

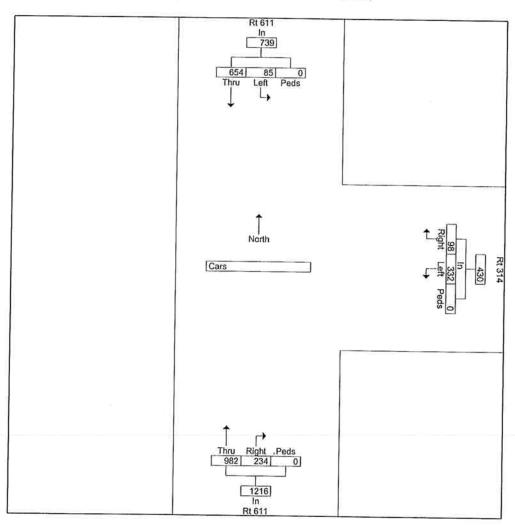
Start Date : 10/21/2005



File Name : BG1021~3 Site Code : 00000000

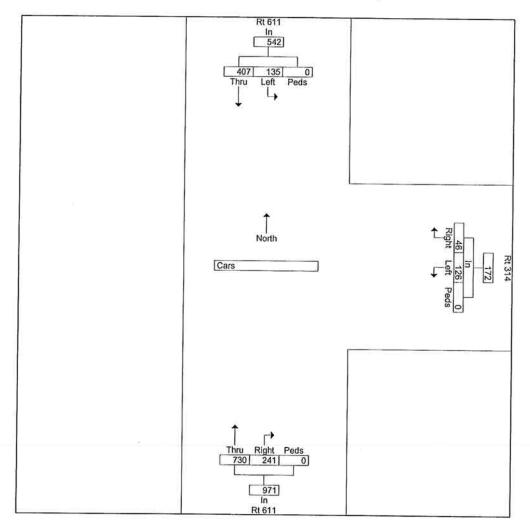
Start Date : 10/21/2005

		F	Rt 611 From No					Rt 314 rom Ea			Rt 611 From South					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour Fron	n 04:00	PM to 0	6:00 PN	1 - Peak	1 of 1										Total	Total
By Approach	04:15 F	PM				04:00 F	PM			1	04:30 F	M			T.	
Volume	0	654	85	0	739	98	0	332	0	430	234	982	6	٥	1222	
Percent	0.0	88.5	11.5	0.0		22.8	0.0	77.2	0.0	,,,,	19.1	80.4	0.5	0.0	1222	
High Int.	04:45 F	M				04:30 F	M		- 6.5		05:15 F		0.5	0.0	1	
Volume	0	184	23	0	207	28	0	92	0	120	63	256	0	0	319	
Peak Factor					0.893					0.896					0.958	



File Name: BG1021~3 Site Code : 00000000 Start Date : 10/21/2005

		F	Rt 611 rom No					Rt 314 rom Ea			Rt 611 From South					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left		App. Total	Int. Total
Peak Hour Fron	n 06:15	PM to 0	7:45 PN	1 - Peak	1 of 1									-	Total	Total
By Approach						06:15 F	PM				06:15 F	M			Ī	
Volume	0	407	135	0	542	46	0	126	0	172	241	730	4	0	975	
Percent	0.0	75.1	24.9	0.0		26.7	0.0	73.3	0.0	10000	24.7	74.9	0.4	0.0	0.0	
High Int.	06:15 F	M				06:30 F	M		-53		07:00 F	Contract Con	U,T	0.0	(c)	
Volume	0	120	37	0	157	10	0	38	0	48	58	189	0	0	247	
Peak Factor					0.863					0.896					0.987	



Tri-State Traffic Data, Inc. 184 Baker Road

Location: Monroe County, PA
Intersection: Rt 611 & Rt 314(East)

Date: Saturday, October 22, 2005

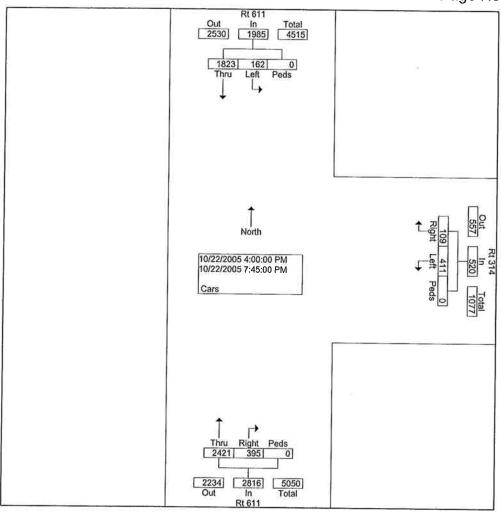
Counter: Id

184 Baker Road Coatsville, PA 19320 (610) 466-1469

File Name : BG1022~3 Site Code : 00000000 Start Date : 10/22/2005

							Groune	Printed-	Caro				raye	HO	. 1	
			Rt 611				Oroups	Rt 314					Rt 611			
		, F	rom No	rth				From Ea				E	rom Sol	ıth_		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int.
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0	Total	1.0	1.0	1.0	1.0	Total	Total
04:00 PM	0	154	7	0	161	13	0	41	0	54	39	195	1.0	0	235	450
04:15 PM	0	132	13	0	145	7	0	38	0	45	21	193	1	0	215	405
04:30 PM	0	129	13	0	142	6	0	31	0	37	23	164	1	0	188	367
04:45 PM	0	135	10	0	145	4	0	29	0	33	34	163	2	0	199	307
Total	0	550	43	0	593	30	0	139	0	169	117	715	5	0	837	1599
05:00 PM	0	114	13	0	127	2	0	28	0	30	25	173	0	0	198	355
05:15 PM	0	123	8	0	131	9	0	28	0	37	31	171	ő	ŏ	202	370
05:30 PM	0	133	5	0	138	4	0	36	0	40	30	163	ŏ	0	193	370 371
05:45 PM	0	125	9	0	134	6	0	23	Ō	29	23	139	1	ő	163	326
Total	0	495	35	0	530	21	0	115	0	136	109	646	- i	0	756	1422
06:00 PM	0	97	12	0	109	7	0	31	0	38	16	166	0	0	182	200
06:15 PM	0	104	10	0	114	6	0	17	Ő	23	33	164	0	0	197	329
06:30 PM	0	107	11	0	118	14	0	13	Õ	27	26	135	2	0	163	334
06:45 PM	0	85	0	0	85	7	0	16	ő	23	20	131	0	0	151	308 259
Total	0	393	33	0	426	34	0	77	0	111	95	596	2	0	693	1230
07:00 PM	0	100	16	0	116 l	7	0	24	0	31	16	135	0	0	ara I	000
07:15 PM	0	101	10	0	111	3	Ō	25	Õ	28	24	129	0	0 0	151 153	298
07:30 PM	0	88	14	0	102	8	Ō	15	Õ	23	19	104	2	0	125	292
07:45 PM	0	96	11	0	107	6	0	16	0	22	15	96	4	0	115	250
Total	0	385	51	0	436	24	0	80	0	104	74	464	6	0	544	<u>244</u> 1084
Grand Total	0	1823	162	0	1985	109	0	411	0	520	395	2421	14	0	2020	5005
Apprch %	0.0	91.8	8.2	0.0		21.0	0.0	79.0	0.0	020	14.0	85.5	0.5	0.0	2830	5335
Total %	0.0	34.2	3.0	0.0	37.2	2.0	0.0	7.7	0.0	9.7	7.4	45.4	0.3	0.0	53.0	

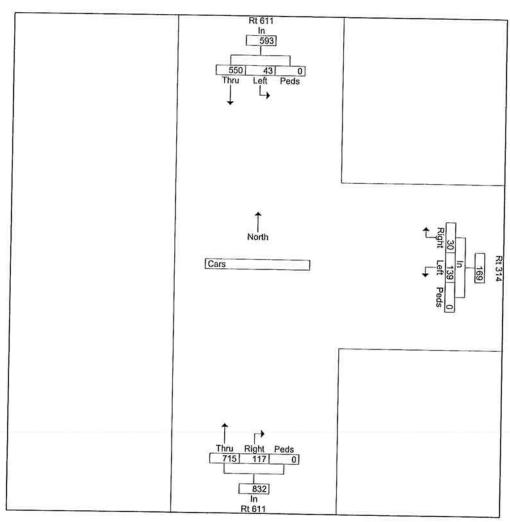
File Name : BG1022~3 Site Code : 00000000 Start Date : 10/22/2005



File Name : BG1022~3 Site Code : 00000000

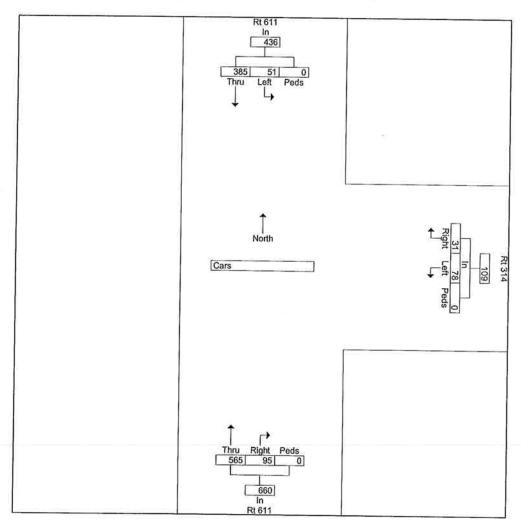
Start Date : 10/22/2005

		F	Rt 611 rom No					Rt 314 From Ea			Rt 611 From South					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App.	Int.
eak Hour Fron	n 04:00	PM to 0	6:00 PN	1 - Peak	1 of 1					Total					Total	Tota
By Approach					, ,,	04:00 F	PM				04:00 F	NA.			ří.	
Volume	0	550	43	0	593	30	0	139	0	169	117	715	E	0	007	
Percent	0.0	92.7	7.3	0.0		17.8	0.0	82.2	0.0	100	14.0	85.4	0.6	0.0	837	
	04:00 F	PM				04:00 F	M				04:00 F	2-12-2	0.0	0.0	10	
Volume Peak Factor	0	154	7	0	161 0.921	13	0	41	0	54 0.782	39	195	1	0	235 0.890	



File Name: BG1022~3 Site Code : 00000000 Start Date : 10/22/2005

		. F	Rt 611 rom No					Rt 314 From Ea			Rt 611 From South					
Start Time	Right	Thru	Left		App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour Fron	n 06:15	PM to 0	7:45 PN	1 - Peak	1 of 1	-									TOTAL	TOtal
	07:00 F	PM				06:30 P	M				06:15 F	PM			1	
Volume	0	385	51	0	436	31	0	78	0	109	95	565	2	Λ	662	
Percent	0.0	88.3	11.7	0.0		28.4	0.0	71.6	0.0		14.4	85.3	0.3	0.0	002	
High Int.	07:00 F	PM				07:00 P	M				06:15 F	M			1	
Volume Peak Factor	0	100	16	0	116 0.940	7	0	24	0	31 0.879	33	164	0	0	197 0.840	

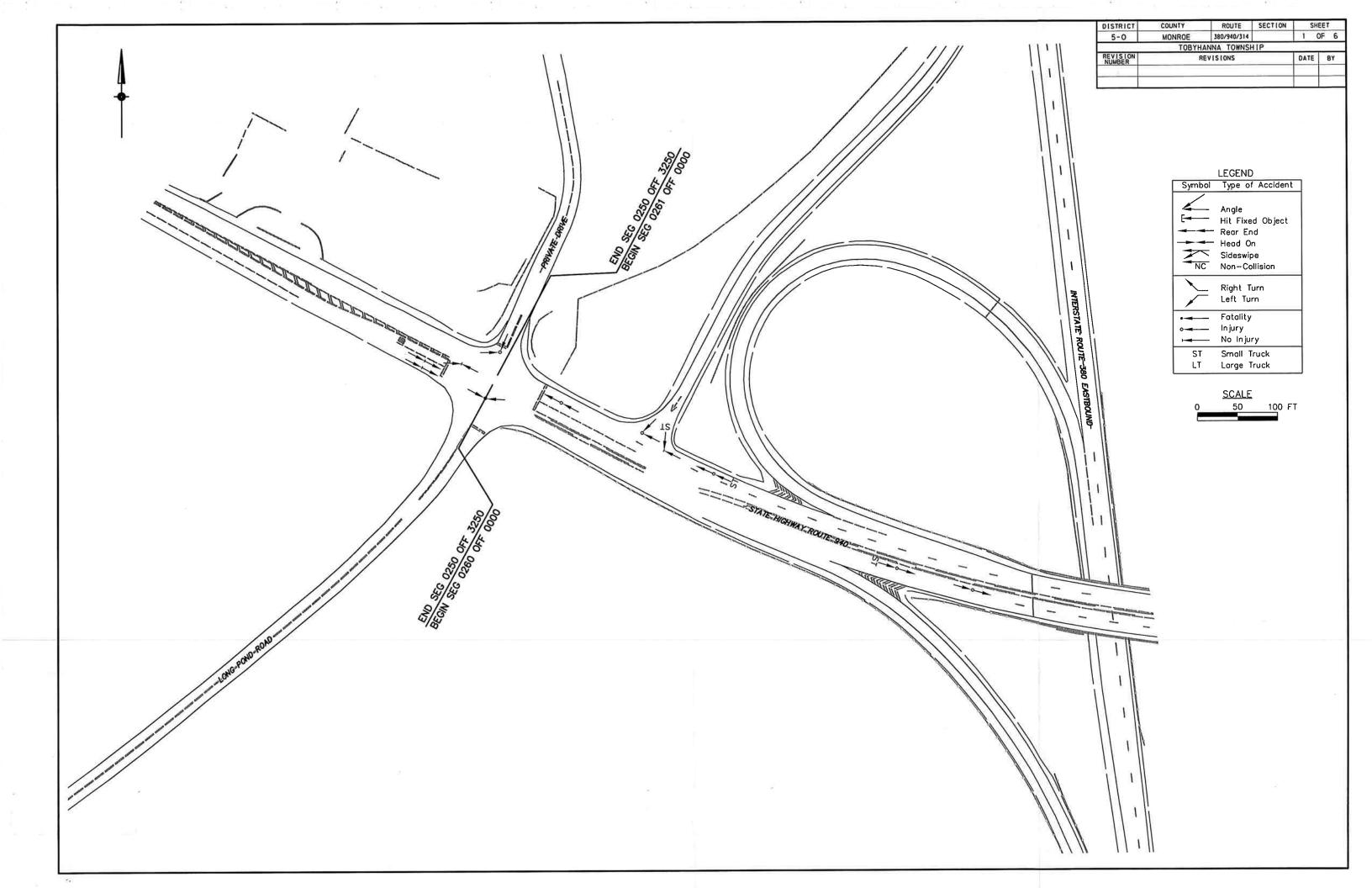


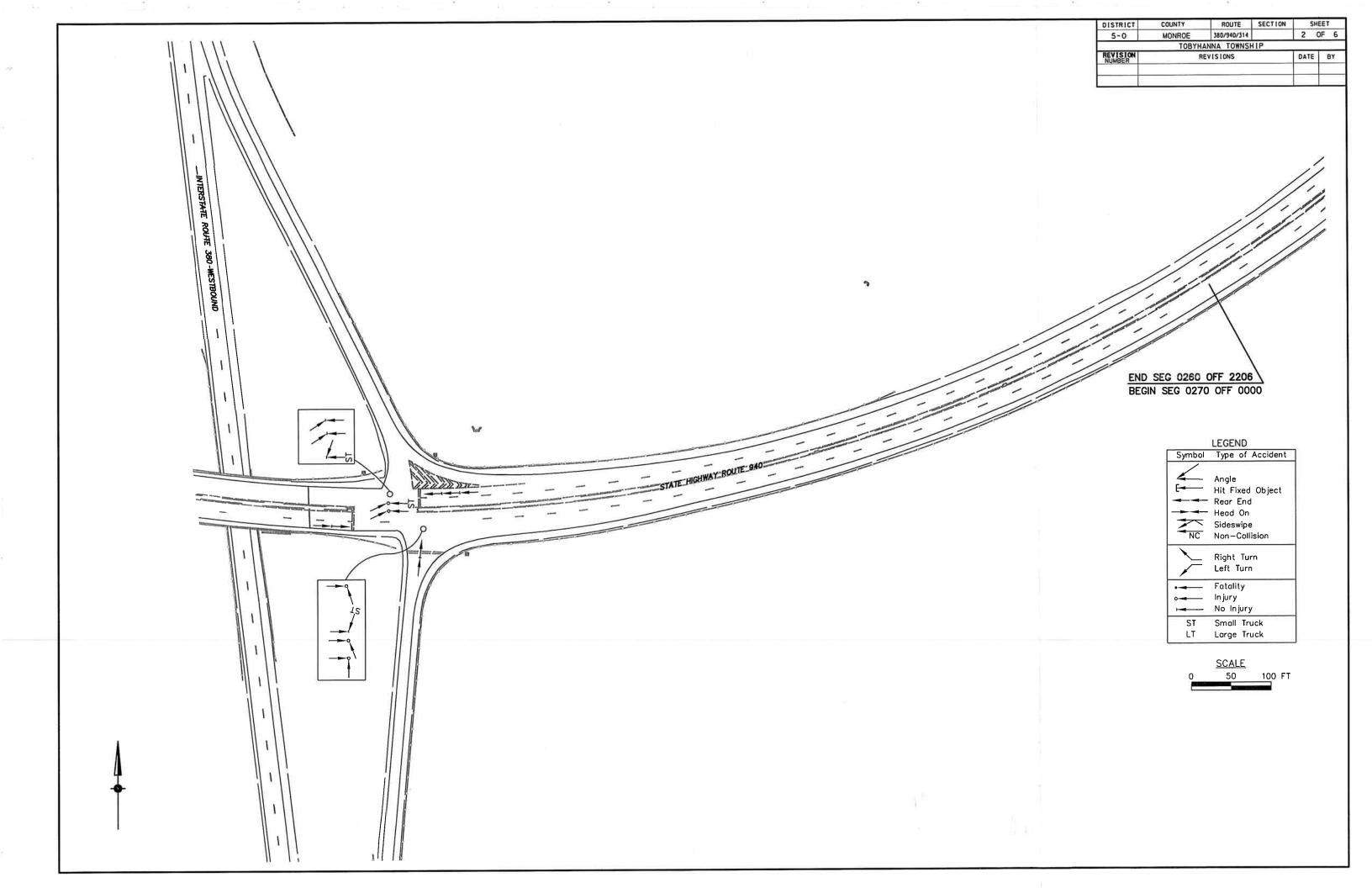


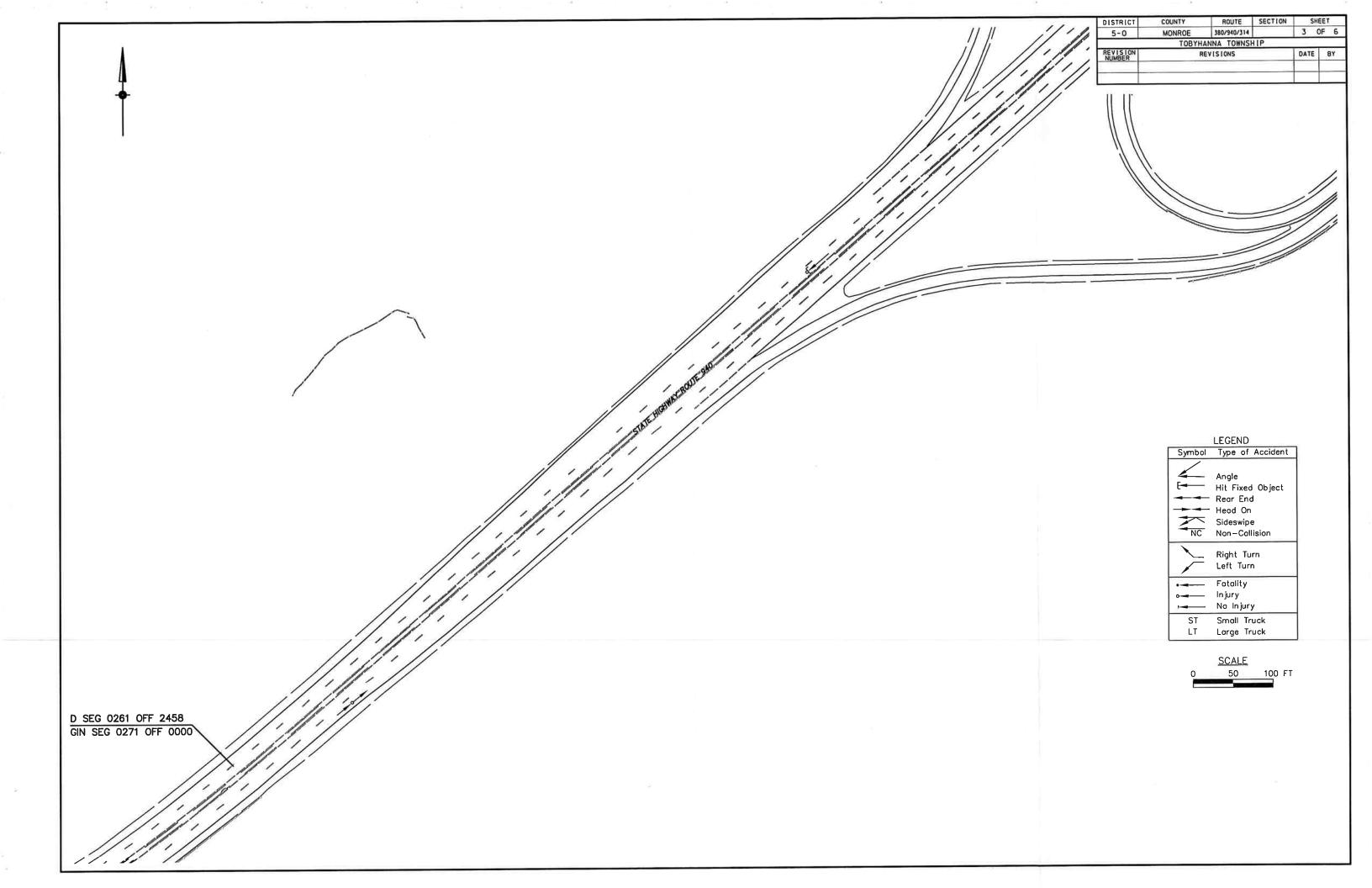
TRAFFIC IMPACT STUDY

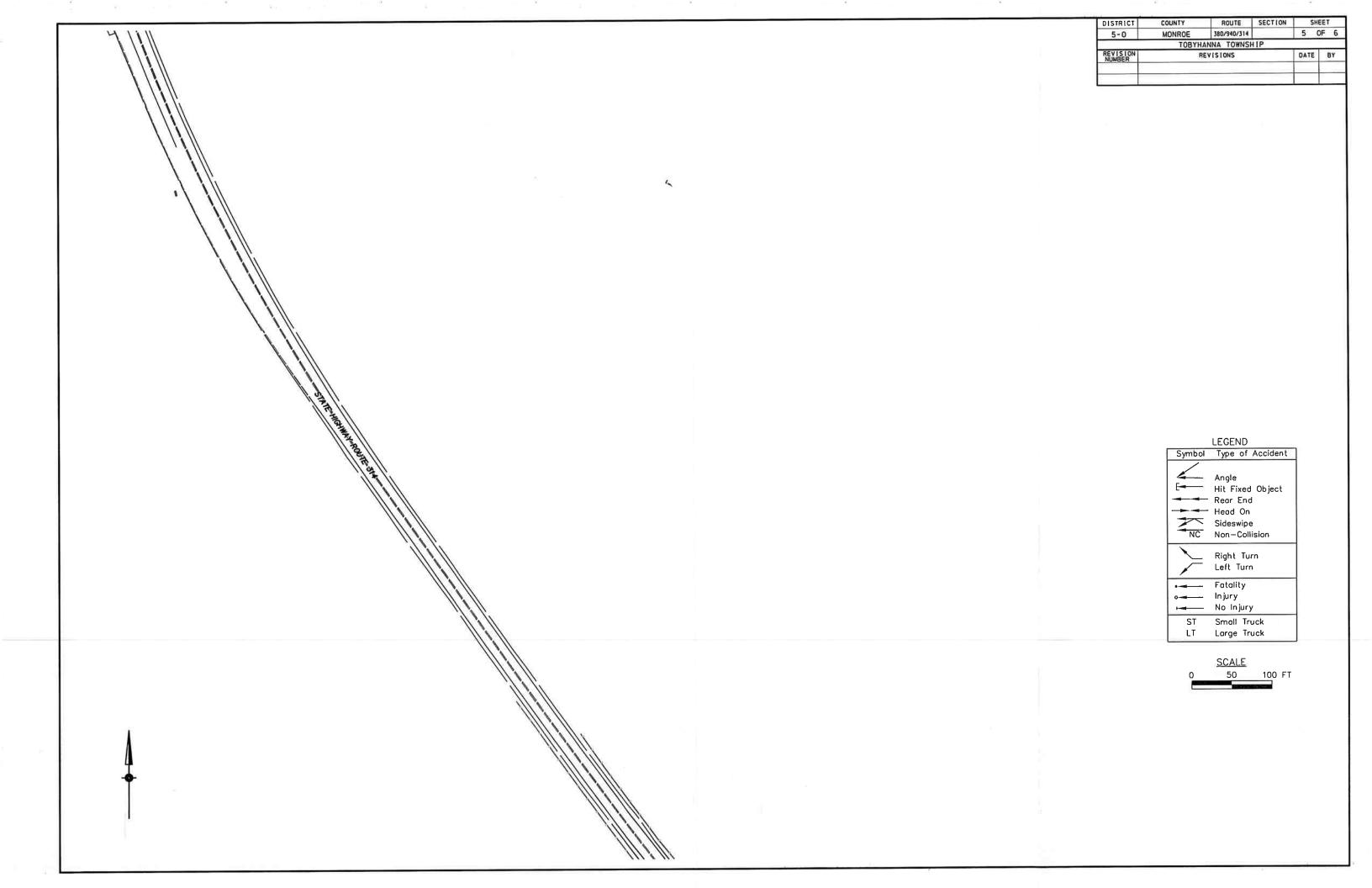
APPENDIX D

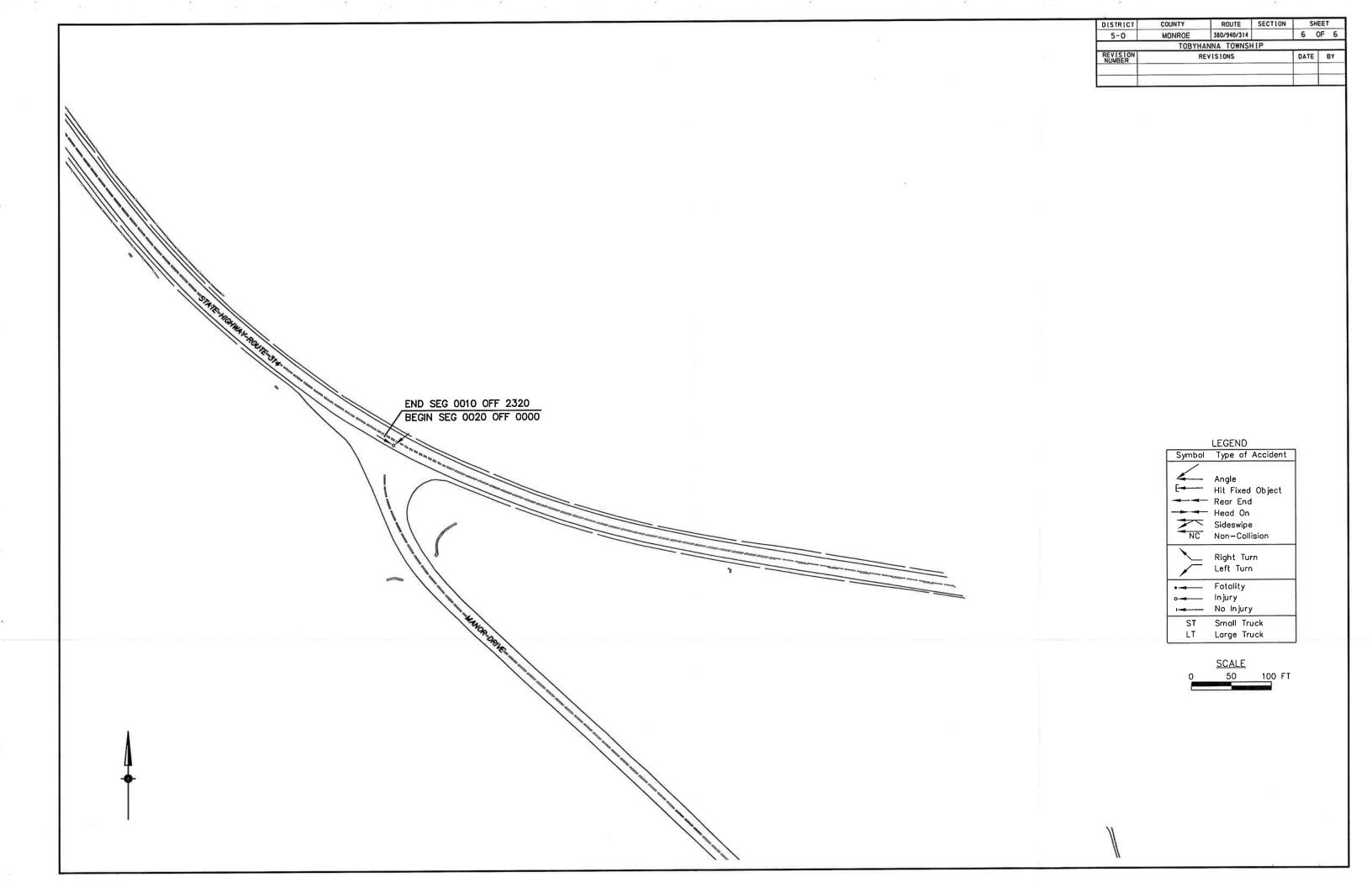
Crash Data and Collision Diagrams











COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION

www.dot.state.pa.us



Engineering District 5-0 1713 Lehigh Street Allentown, Pennsylvania 18103 September 12, 2006

Monroe County – Tobyhanna Township Route 940: SEG 260/0000 to SEG 290/2000 Crash History

Mr. Bob Gonzalez Pennoni Associates, Inc. 2041 Avenue C, Suite 100 Bethlehem, PA 18017

Dear Mr. Gonzalez:

Thank you for your e-mail of September 11, 2006 requesting the crash history at the above referenced location in Monroe County.

Please find a copy of the most recent crash history for this roadway enclosed.

When reviewing this crash history, you should be aware of the definition of a reportable accident in Pennsylvania. A reportable accident is one in which an injury or a fatality occurs or if at least one of the vehicles involved requires towing from the scene.

The enclosed crash history is confidential under 75 PA Code Section 3754. This material is only provided to official agencies that have responsibility in the highway transportation system and can only be used by those agencies for traffic safety-related planning or research. Publication, reproduction, release or discussion of these materials, as well as the use of or reliance upon these materials for any purpose other than stated above, is expressly prohibited without the specific written consent of the Pennsylvania Department of Transportation.

Should you have any questions, please contact this office.

Very truly yours,

Joseph J. Rauscher, P.E.

District Traffic Studies/Safety Engineer

Engineering District 5-0

JJR/ljb

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION

www.dot.state.pa.us

Engineering District 5-0 1713 Lehigh Street

Allentown, Pennsylvania 18103 September 20, 2006

Monroe County

Route 940: SEG 290/0000 to SEG 340/0000 Route 314: SEG 10/0000 to SEG 30/0000 Route 611: SEG 420/0000 to SEG 420/2298 Route 611: SEG 360/0000 to SEG 370/1050

Crash History

Mr. Bob Gonzalez Pennoni Associates, Inc. 2041 Avenue C, Suite 100 Bethlehem, PA 18017

Dear Mr. Gonzalez:

Thank you for your e-mail of September 19, 2006 requesting the crash history at the above referenced locations in Monroe County.

Please find a copy of the most recent crash history for this roadway enclosed.

When reviewing this crash history, you should be aware of the definition of a reportable accident in Pennsylvania. A reportable accident is one in which an injury or a fatality occurs or if at least one of the vehicles involved requires towing from the scene.

The enclosed crash history is confidential under 75 PA Code Section 3754. This material is only provided to official agencies that have responsibility in the highway transportation system and can only be used by those agencies for traffic safety-related planning or research. Publication, reproduction, release or discussion of these materials, as well as the use of or reliance upon these materials for any purpose other than stated above, is expressly prohibited without the specific written consent of the Pennsylvania Department of Transportation.

Should you have any questions, please contact this office.

Very truly yours,

Joseph J. Rauscher, P.E.

District Traffic Studies/Safety Engineer

Engineering District 5-0





COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION

www.dot.state.pa.us

September 27, 2006

Engineering District 5-0 1713 Lehigh Street Allentown, Pennsylvania 18103



Monroe County

Route 940: SEG 290/0000 to SEG 340/0000 Route 611: SEG 420/0000 to SEG 420/2298

Crash History

Mr. Bob Gonzalez Pennoni Associates, Inc. 2041 Avenue C Suite 100 Bethlehem, PA 18017

Dear Mr. Gonzalez:

Thank you for your e-mail of September 26, 2006 requesting the crash history at the above referenced locations in Monroe County.

Please find copies of the most recent crash history for these roadways enclosed.

When reviewing this crash history, you should be aware of the definition of a reportable accident in Pennsylvania. A reportable accident is one in which an injury or a fatality occurs or if at least one of the vehicles involved requires towing from the scene.

The enclosed crash history is confidential under 75 PA Code Section 3754. This material is only provided to official agencies that have responsibility in the highway transportation system and can only be used by those agencies for traffic safety-related planning or research. Publication, reproduction, release or discussion of these materials, as well as the use of or reliance upon these materials for any purpose other than stated above, is expressly prohibited without the specific written consent of the Pennsylvania Department of Transportation.

Should you have any questions, please contact this office.

Very truly yours,

Joseph J. Rauscher, P.E.

District Traffic Studies/Safety Engineer

Engineering District 5-0

JJR/ljb



TRAFFIC IMPACT STUDY

APPENDIX E

Growth Rate Data, Other Planned Development Volumes, Base Volumes

Table 371 **County/Functional Class Group Trend Factors (Continued)**

* Indicates the County contains no roads in this FCG

	Funct	ional Cla	ss Group	Frend Fac	tors: 2003-	2004	
	COUNTY	FCG 1	FCG 2	FCG 3	FCG 4	FCG 5	FCG 6
30	Greene	*	3.3%	•	1,4%	*	1.4%
31	Huntingdon	•	politica de	1.4%	1.8%	1.4%	1.8%
32	Indiana	*		1.4%	1,8%	1.4%	1.8%
33	Jefferson	*	3.3%	1.4%	1.8%	1.4%	1.8%
34	Juniata	(m)	•	*	1.8%	*	1.8%
35	Lackawanna	3.2%	3.3%	1.4%	1.6%	1.4%	1.6%
36	Lancaster	*	(.	1.4%	1/8%	1.4%	1.8%
37	Lawrence	*	3.3%	1.2%	1.4%	1.2%	1.4%
38	Lebanon	**	3:3%	1.4%	2.0%	1.4%	12:0%
39	Lehigh	3.2%	3.3%	1.8%	2.6%	1.8%	2.6%
40	Luzerne	3.2%	3.3%	1.4%	1.6%	1.4%	1.6%
41	Lycoming	3.2%	3.3%	1.0%	1.2%	1.0%	1.2%
42	McKean	*	* 69.5	1.0%	1.2%	1.0%	1.2%
43	Mercer	3.2%	3.3%	1.2%	1.4%	1.2%	1.4%
44	Mifflin	*		1.4%	1.8%	1.4%	1.8%
45	Monroe	3.2%	3.3%	2.0%	3.0%	2.0%	(3.0%)
46	Montgomery	3.2%		1.4%	1.8%	1.4%	1.8%
47	Montour	•	3.3%	1.4%	1.8%	1.4%	1.8%
48	Northampton	3.2%		1.8%	2.6%	1.8%	2.6%
49	Northumberland	*	3.3%	1.4%	1.8%	1.4%	1.8%
50	Perry	*		1.4%	2.0%	*	2.0%
67	Philadelphia	3.2%		1.4%		1.4%	*
51.	Pike	*	3.3%	*	3.0%	*	3.0%
52	Potter	*		*	1.2%	*	1,2%
53	Schuylkill	*	3.3%	1.4%	1.6%	1.4%	1.6%
54	Snyder	*		1.4%	1.8%	1.4%	1.8%
55	Somerset	*		1.2%	1!4%	1.2%	1.4%
56	Sullivan	*		*	1.2%	::#3	1.2%
57	Susquehanna	*	3.3%	*	1.2%	*	1,2%
58	Tioga			*	1.2%	*	1.2%
59	Unión	*	3.3%	1.4%	1.8%	1.4%	1.8%
60	Venango	*	3.3%	1.4%	1.8%	1.4%	1.8%
61	Warren	*		1.0%	1,2%	1.0%	1.2%
62	Washington	3.2%	3.3%	1.2%	1.4%	1.2%	1.4%
63	Wayne	*	3.3%	*	3.0%	2.0%	3.0%
64	Westmoreland	3.2%	3.3%	1.2%	1.4%	1.2%	1.4%
65	Wyoming	*	100	*	1.2%	*	1.2%.
66	York	3.2%	3.3%	1.4%	1.8%	1.4%	1.8%
gen hann	Average	3.2%	3.3%	1.3%	1.7%	1.4%	1.7%

Functional Class Groups

Traffic volume data displayed in PENNDOT's Roadway Management System (RMS) is projected to a current estimate year (2004) based on County/Functional Class Group (FCG). This provides the user with trends relative to a specific county. The factors are applied annually to the Department's Roadway Management System to produce the current year traffic volume estimate values.

This table shows the FCGs with a description and corresponding Functional Class Codes (FCCs).

FCG	DESCRIPTIVE NAME	FCC
FCG 1	URBAN INTERSTATE	FCC 11
FCG 2	RURAL INTERSTATE	FCC 01
FCG 3	URBAN - OTHER FREEWAYS/EXPRESSWAYS	FCC/12
	URBAN - OTHER PRINCIPAL ARTERIALS	FCC 14
	URBAN - MINOR ARTERIALS	FCC 16
Y I	RAMPS	FCC 99
FCG 4	RURAL - OTHER PRINCIPAL ARTERIALS	FCC 02
	RURAL - MINOR ARTERIAL	FCC 06
FCG 5	URBAN COLLECTORS	FÖC 17
	URBAN - LOCAL	FCC 19
FCG 6	RURAL - MAJOR COLLECTOR	FCC 07
	RURAL - MINOR COLLECTOR	FCC 08
	RURAL - LOCAL	FCC 09



SITE NO: 3803

County

Route

Dir

Current Average Daily Traffic Current Average Daily Truck Volume

2924

MONROE (45)

0380

N

11247

K Factor 9

D Factor 54

T Factor 12

Truck Percent 26

Base Traffic Year

2003

Traffic Pattern Group URBAN - INTERSTATE







SITE NO: 3803

County MONROE (45)

K Factor

9

Route 0380

D Factor

54

Dir

Current Average Daily Traffic Current Average Daily Truck

20

Volume

S T Factor

12

10299 **Truck Percent**

2060 **Base Traffic Year**

2003

Traffic Pattern Group URBAN - INTERSTATE







SITE NO: 3808

County

Route 0940

Dir

Current Average Daily Traffic Current Average Daily Truck

Volume 517

MONROE (45) K Factor

D Factor 50

Е T Factor 6

10416

Truck Percent 5

Base Traffic Year

2003

Traffic Pattern Group CENTRAL RURAL- MINOR ARTERIALS





SITE NO: 3808

County MONROE (45) Route 0940

Dir W

Current Average Daily Traffic 9976

Current Average Daily Truck

Volume

533

K Factor

D Factor 50

T Factor 6

Truck Percent

Base Traffic Year

2003

Traffic Pattern Group CENTRAL RURAL- MINOR ARTERIALS



SITE NO: 13385

County

11

Route 0314

Dir

Current Average Daily Traffic Current Average Daily Truck

3

Close

Volume 106

3529

MONROE (45) K Factor

D Factor 55

В T Factor

2

Truck Percent

Base Traffic Year

2003

Traffic Pattern Group CENTRAL RURAL- COLLECTORS AND LOCAL ROADS





SITE NO: 25184

County

Route

Dir

Current Average Daily Traffic Current Average Daily Truck Volume

MONROE (45)

0611

В

14484

K Factor

D Factor 60

T Factor

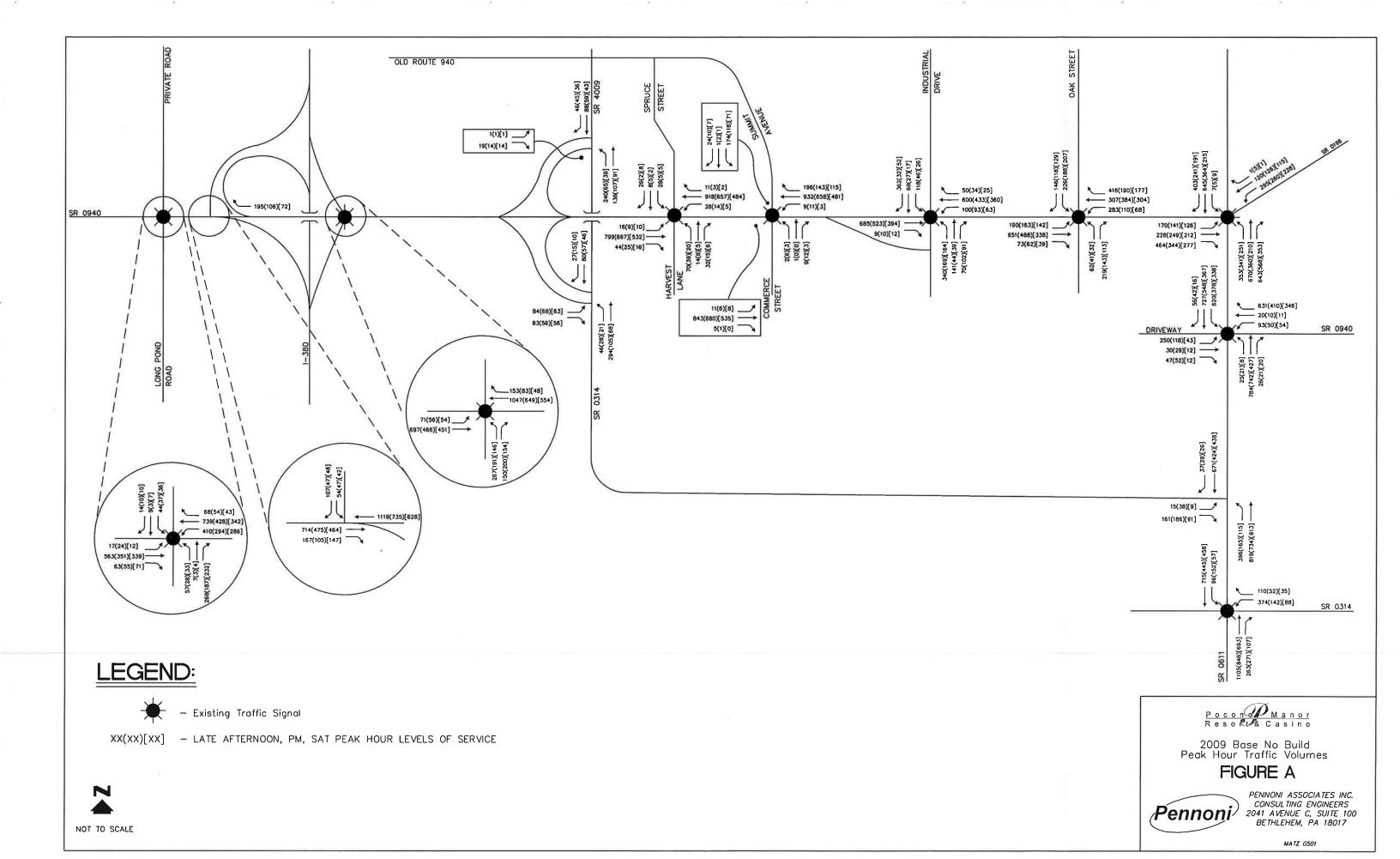
Truck Percent

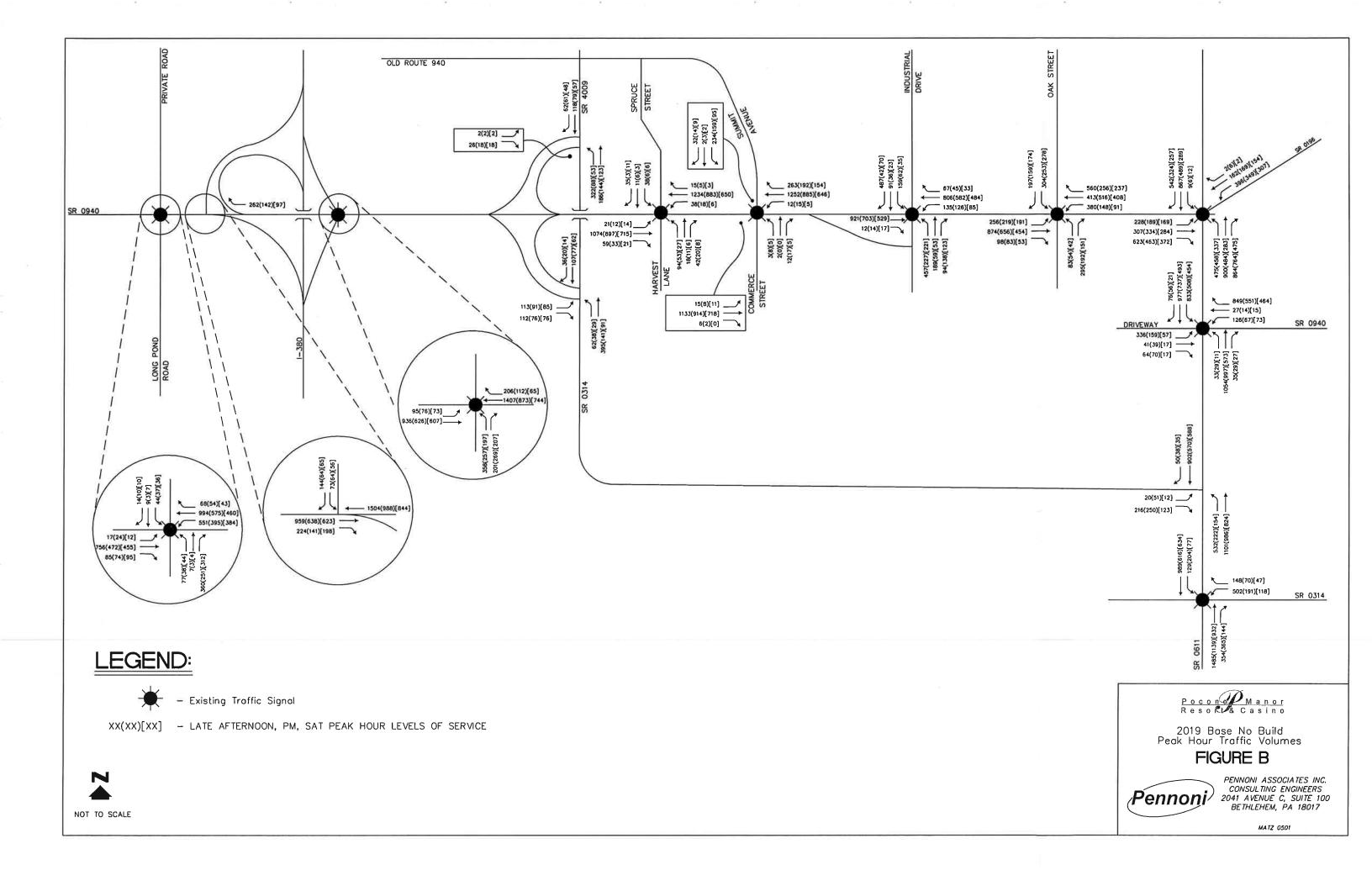
Base Traffic Year

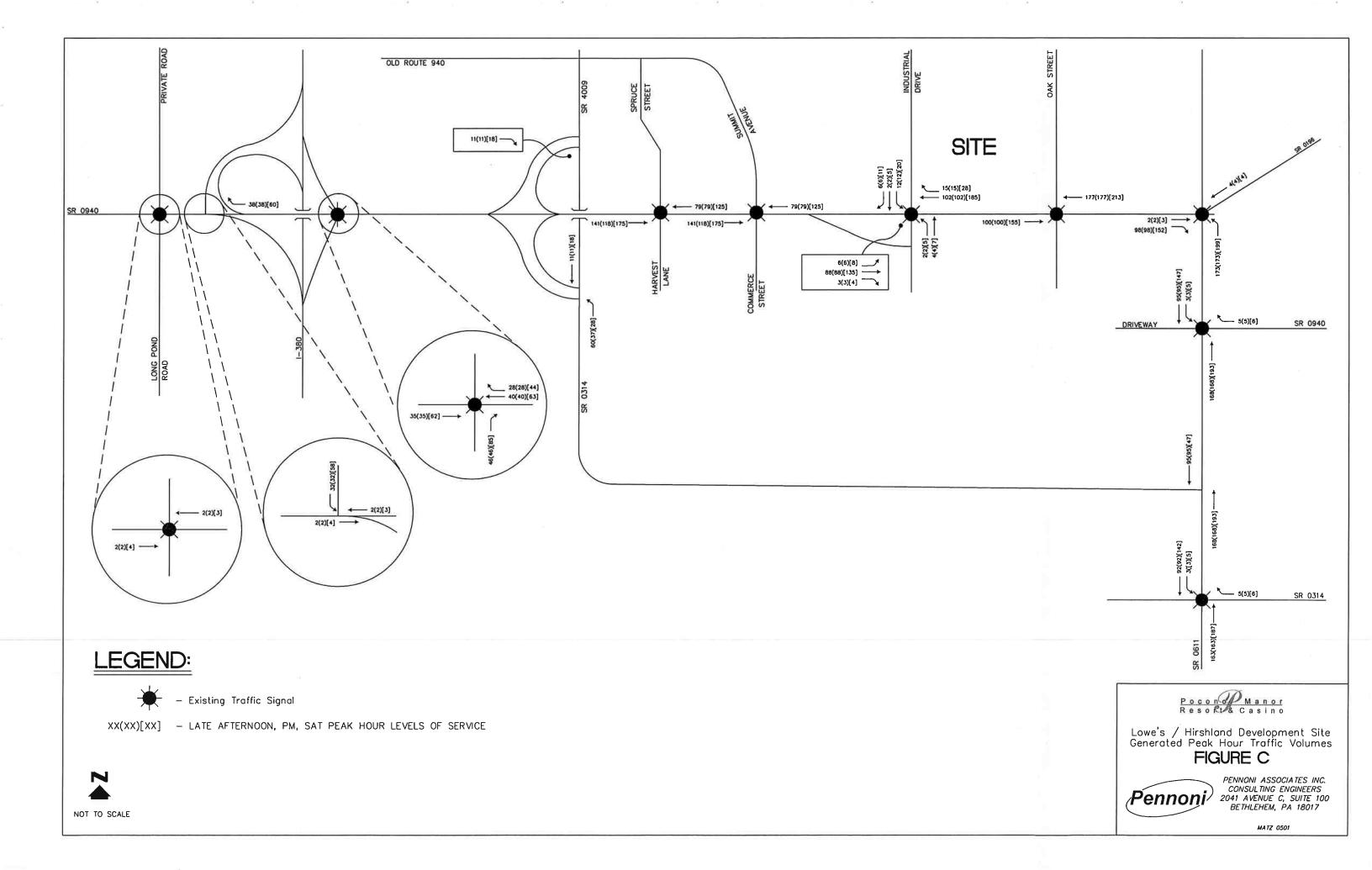
2004

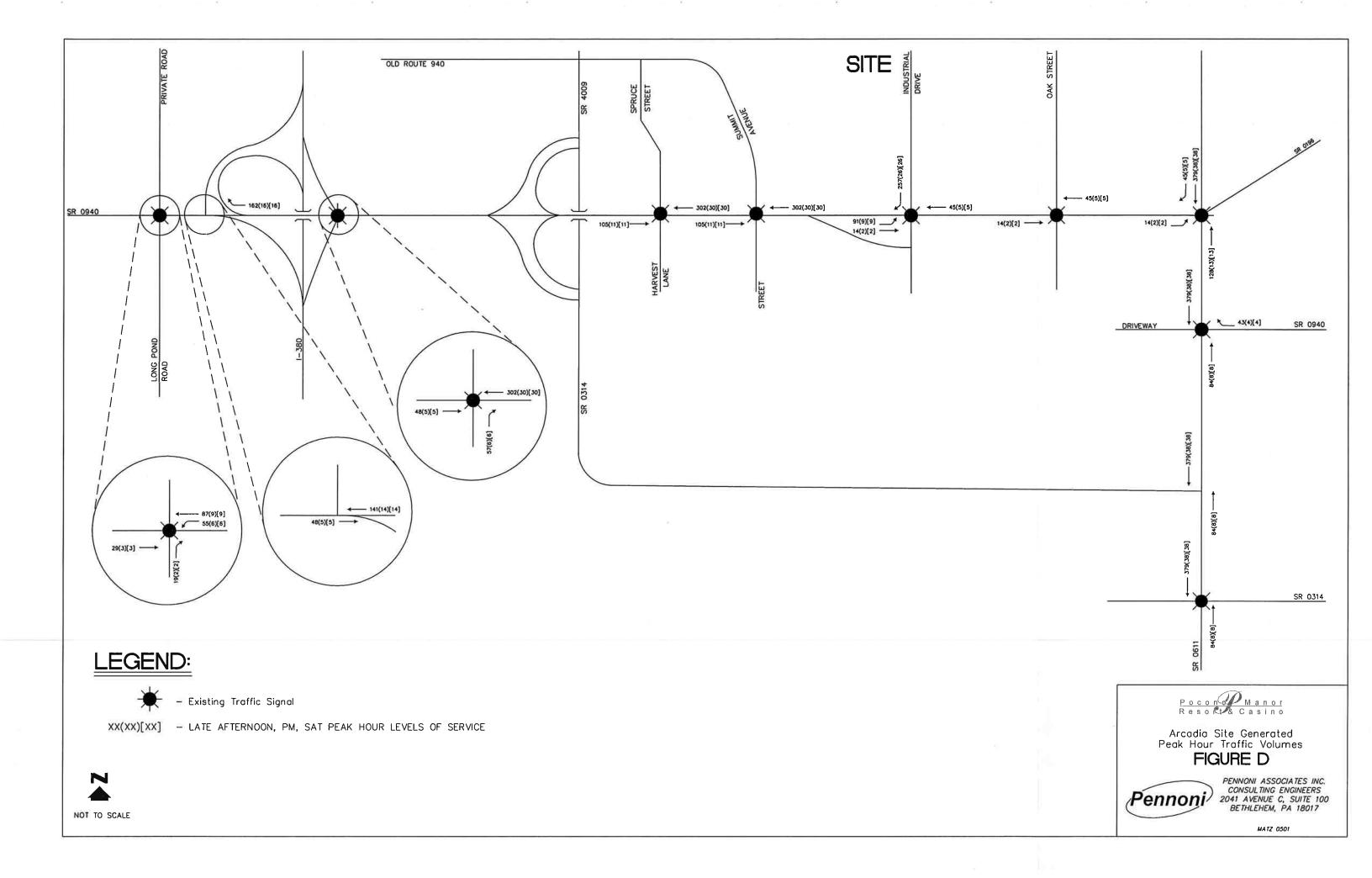
Traffic Pattern Group URBAN - MINOR ARTERIALS, COLLECTORS, LOCAL ROADS

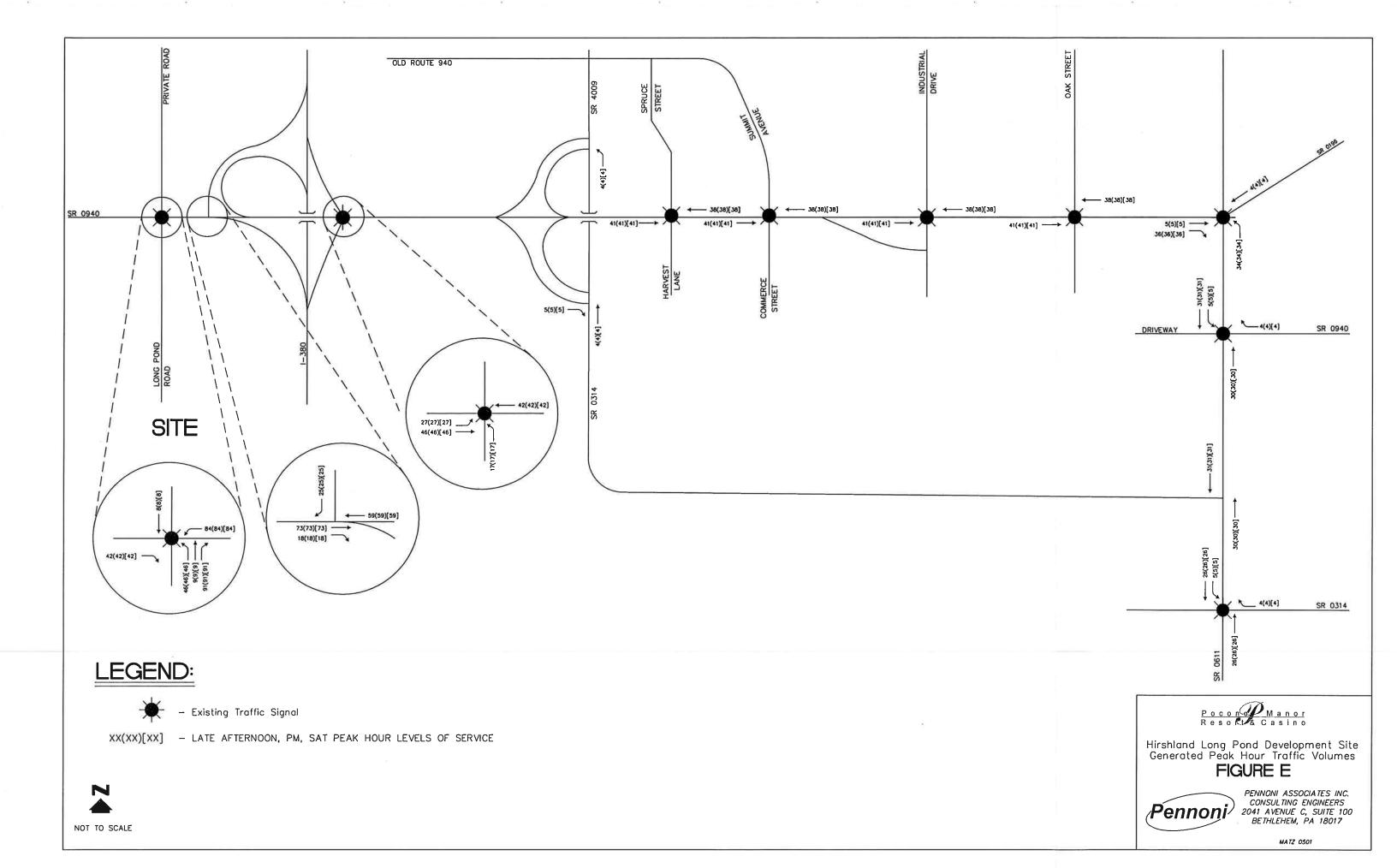














TRAFFIC IMPACT STUDY

APPENDIX F

Trip Generation

Calculation of Trip Generation Without Adjustments

STATE OF THE STATE OF			Adjacent S	treet Traffic	Peak Hour		C	asino Traff	ic Peak Hou	ır		
是 医最高性 医皮肤 医皮肤 医皮肤			Frida	y Late After	rnoon	F	Friday Evening			Saturday Evening		
经 公司基础条件的基础是可以可	1		4:00 to 6:00 PM			6:00 to 8:00 PM			4:00 to 8:00 PM			NOTES
# Infalls See Eller See See See See	X		Total	Enter	Exit	Total	Enter	Exit	Total	Enter	Exit	BELOW
Casino	8000	slots	4720	2480	2240	5520	2880	2640	6240	3360	2880	1
Shopping Center (LUC 820)	831.2	ksf	2533	1216	1317	2210	1143	1067	1514	417	1097	2
General Office Building (LUC 710)	50	ksf	135	23	112	7	2	5	7	2	5	3
Condos/Townhouses	475	units	216	145	71	105	64	41	105	64	41	4

Note 1

PM Weekday Adjacent Street Traffic and Friday & Saturday Casino Peak Hour Traffic based on ITE Article "Trip Generation Characteristics of Small & Medium Size Casinos" factors from Tables

	Adjacent Stre	et Peak		Casino	Peak		
Trip Generation for Casino	PM		Friday Ev	ening	Saturday Evening 4:00 to 8:00 PM		
	4:00 to 6:0	00 PM	6:00 to 8:0	0 PM			
	In	Out	In	Out	ln	Oul	
Reference Table	3	3	2	2	2	2	
Factors	0.31	0,28	0.36	0.33	0.42	0.36	
Traffic Volumes	2480	2240	2880	2640	3360	2880	

Note 2 From ITE Shopping Center (820)						
PM Adjacent Side Street, 48% In, 52	% Out	LN(T)=0.66*LN(X)+ 3.40				
Friday Casino Peak Hour Ratio of Hourly Variations from ITE S	Shopping Centers (820), Pa	age 1449. Table 2.				
Table of Fiscary Tables of Technology	Weekday IN (6-7 PM) Weekday IN (5-6 PM)	Multiplied by Weekday PM IN =	<u>7.80%</u> 8.30%	x 1,216 =	1,143	
	Weekday OUT (6-7 PM) Weekday OUT (5-6 PM)	Multiplied by Weekday PM OUT =	<u>7.70%</u> 9.50%	x 1,317 =	1,067	
Saturday Casino Hour, 52% In, 48%		0 1 (000) D 4455				
Based on Peak Hour of Shopping (2-	-3 PM) from TTE Shopping	LN(T)=0.65*LN(X)+ 3.77 = 3,428				
Adjusted for Peak Hour of Casino (6-		1440 Table 0				
Ratio of Hourly Variations from ITE S	Shopping Centers (820). Pa Saturday IN (6-7 PM)	age 1449, Table 2: Multiplied by Saturday PM IN =	2.90%	x 52% =	417	
	Saturday IN (2-3 PM)	, , ,	12.40%			
	Saturday OUT (6-7 PM) Saturday OUT (2-3 PM)	Multiplied by Saturday PM OUT ≈	<u>8,00%</u> 12.00%	x 48% =	1,097	
Note 3 From ITE Office (710) PM Adjacent Side Street, 17% In, 83 Friday & Saturday Casino Peak Hou		T=1.12(X) +78.81				
Ratio of Hourly Variations from Weel	kday Curve Catalogue at C	Columbia				
Natio of Figure Value of Figure 1	<u>Weekday IN (6-7 PM)</u> Weekday IN (4-6 PM Pe	Multiplied by Weekday PM IN =	<u>0.4</u> 6	x 23 =	2	
	Weekday OUT (6-7 PM) Weekday IN (4-6 PM Pe	Multiplied by Weekday PM OUT = ak)	<u>1.2</u> 28.4	x 112 =	5	
Note 4						
From ITE Condo/TH (230)						
PM Adjacent Side Street, 67% In, 33 Friday & Saturday Casino Peak Hou		LN(T)=0.82*LN(X)+ 0.32				
Ratio of Hourly Variations from Weel	kday Curve Catalogue at C					
	Weekday IN (6-7 PM) Weekday IN (4-6 PM Pe	Multiplied by Weekday PM IN = ak)	<u>12</u> 27	x 145 =	64	Im Al JOOKS
	,	·				A Pennoni
	Weekday OUT (6-7 PM) Weekday IN (4-6 PM Pe	Multiplied by Weekday PM OUT = ak)	<u>8</u> 14	x 71 =	41	of Spesigning the Tuture
		,				

Total Trip Generation (NO REDUCTIONS APPLIED)

Total Trip Generation (ITO TELEGOR		-	Friday	Late Afte	ernoon	Friday PM			Saturday PM		
		κ Ì	Total	Enter	Exit	Total	Enter	Exit	Total	Enter	Exit
Casino	8000	slots	4720	2480	2240	5520	2880	2640	6240	3360	2880
Shopping Center (LUC 820)	831.2	ksf	2533	1216	1317	2210	1143	1067	1514	417	1097
General Office Building (LUC 710)	50	ksf	135	23	112	7	2	5	7	2	5
Golf Villas	475	units	216	145	71	105	64	41	105	64	41
Total Trips	A CONTRACTOR	- CL 81-18	7604	3864	3740	7842	4089	3753	7866	3843	4023

Shopping Center Diverted Linked Trips

Shopping Genter Diverted Emiles 1995			Friday	Late Afte	ernoon		Friday PM			Saturday PM		
	l x	×		Enter	Exit	Total	Enter	Exit	Total	Enter	Exit	
Shopping Center (LUC 820)	831.2	ksf	2533	1216	1317	2210	1143	1067	1514	417	1097	
Diverted Linked Percentages	100000000000000000000000000000000000000	国教 党员		29%			19%			19%		
Diverted Linked Trips	32021010	Service at	734	367	367	420	210	210	288	144	144	
Primary (Non-Diverted Linked) Trips	TO BEE		1799	849	950	1790	933	857	1226	273	953	

Primary (Non-Diverted Linked) Trips - Shopping Center Diverted Linked Trips Removed

Filliary (Non-Diverted Elliked) 11195	T ''		Friday	Late Afte	rnoon		Friday PM	1	Saturday PM		
		(Total	Enter	Exit	Total	Enter	Exit	Total	Enter	Exit
Casino	8000	slots	4720	2480	2240	5520	2880	2640	6240	3360	2880
Shopping Center (LUC 820)	831.2	ksf	1799	849	950	1790	933	857	1226	273	953
General Office Building (LUC 710)	50	ksf	135	23	112	7	2	5	7	2	5
Golf Villas	475	units	216	145	71	105	64	41	105	64	41
Total Trips (Minus Diverted Linked)	Department	20110015	6870	3497	3373	7422	3879	3543	7578	3699	3879

New Trips (External Trips from Internal Capture Worksheets)

			Friday	Late Afte	ernoon		Friday PN		Saturday PM		
		X	Total	Enter	Exit	Total	Enter	Exit	Total	Enter	Exit
Casino	8000	slots	4290	2254	2036	5140	2700	2440	5972	3160	2812
Shopping Center (LUC 820)	831.2	ksf	1332	624	708	1394	729	665	942	201	741
General Office Building (LUC 710)	50	ksf	82	11	71	5	2	3	5	2	3
Golf Villas	475	units	88	69	19	47	30	17	47	30	17
Total New Trips	NO. TOTAL	THE PROPERTY OF	5792	2958	2834	6586	3461	3125	6966	3393	3573

Interaction Reduction Calculation

micraotion (todaction parameter	等。 第一章 第一章 第一章 第一章 第一章 第一章 第一章 第一章	Friday	Friday Late Afternoon			Friday PM	1	Saturday PM		
	BASIC VALUE OF ALL TO BE	Total	Enter	Exit	Total	Enter	Exit	Total	Enter	Exit
Total External (New) Trips	(54) - NE 120/19 12	5792	2958	2834	6586	3461	3125	6966	3393	3573
Total Trips (Minus Diverted Linked)	STATE OF LYNN	6870	3497	3373	7422	3879	3543	7578	3699	3879
Resulting Interaction Reduction	\$15.00 MARCHINE		16%			11%			8%	

New Trips - Figures 6A (Casino/Villas) & 6B (Shopping Center/Office)

		Friday Late Afternoon				Friday PN	1	Saturday PM		
		Total	Enter	Exit	Total	Enter	Exit	Total	Enter	Exit
Casino	Casino/Villas	4290	2254	2036	5140	2700	2440	5972	3160	2812
Shopping Center (LUC 820)	Shopping/Office	1332	624	708	1394	729	665	942	201	741
General Office Building (LUC 710)	Shopping/Office		11	71	5	2	3	5	2	3
Golf Villas	Casino/Villas	88	69	19	47	30	17	47	30	17
Shopping/Office New Trip Total	Charles and the second	1414	635	779	1399	731	668	947	203	744
Casino/Villas New Trip Total		4378	2323	2055	5187	2730	2457	6019	3190	2829

Office Interaction Breakdown (from Internal Capture Worksheets)

Office interaction breakdown (irom in	di .			Friday Late Afternoon			Friday PM			Saturday PM		
	×		Total	Enter	Exit	Total	Enter	Exit	Total	Enter	Exit	
General Office Building (LUC 710)	50	ksf	135	23	112	7	2	5	7	2	5	
Internal Trips			53	12	41	2	0	2	2	0	2	
External Trips	Text of	SAN (LES) EN	82	11	71	5	2	3	5	2	3	

Trip Generation Characteristics of Small to Medium Sized Casinos Michael Trueblood, Tara Gude

OVERVIEW

This paper focuses on trip generation for small to medium sized casinos that are not part of a cluster of casinos. The data collection for this paper included three casinos located in Council Bluffs, Iowa. Two of the casinos are riverboat casinos and are located along the Missouri River, while the other casino includes an existing dog racetrack that later added slot machines.

In addition to the casinos located in Council Bluffs, the calculated trip generation rates were compared to rates included in a March 1998 ITE Journal article entitled *Gaming Casino Traffic*. The article calculated trip generation rates for two casinos in the St. Louis metropolitan area, the Casino Queen and the St. Charles Casino.

There is not an overwhelming amount of trip generation information available for casinos located outside of the typical Las Vegas or Atlantic City stereotype. The trip generation characteristics of casinos found in large clusters, like those in Las Vegas for example, are not similar to the casinos that will be covered in this article. For comparison purposes the MGM Grand Casino in Las Vegas has over 5,000 hotel rooms with over 3,500 slot machines, while the Treasure Island Casino has over 2,900 hotel rooms with over 2,000 slot machines. The trip generation characteristics of these casinos are quite different than the five covered in this paper due to their immense size and popularity. Another reason these casinos have different trip generation characteristics is because they are accessible by foot. In Las Vegas people tend to walk to and from the casinos or drive to one and then walk to several others throughout the course of a day.

It should be noted that each state has different rules and regulations that govern the actual type of establishment that can be used for gambling. Recent regulations have changed or have been modified in order to allow gambling facilities to be established beyond the typical riverboat casinos. Examples of these casinos are those operated by Indian Tribes. There are several casinos operated by Indian Tribes across the country. These casinos range in size, but they are good examples of the types of casinos this paper addresses.

LOCATION OF CASINOS

This section will provide a brief overview of the location of the three Council Bluffs casinos and the two casinos located in the St. Louis metropolitan area. The casino locations are shown in Figure 1. The three casinos in Council Bluffs, Iowa are located near the Missouri River in the Omaha metropolitan area. The Ameristar Casino and Harvey's Casino are located along the river within one mile of each other in the northwest quadrant of the I-29/I-80 interchange. Bluffs Run Casino is located about two miles east of these casinos along I-80. For comparison purposes to other casino locations, the 1998 average daily traffic (ADT) along I-29 was 40,500 vehicles, while the 1998 ADT along I-80 was 67,400 vehicles. The estimated 1999 population is 1,040,000 people within a 50-mile radius of the casinos.

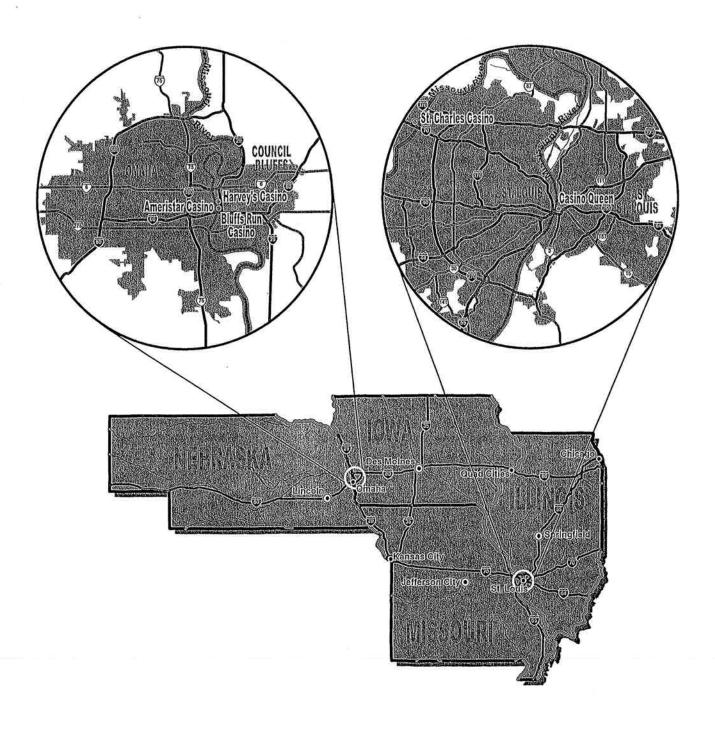


Figure 1 - Casino Location Map

The two St. Louis area casinos are also depicted in Figure 1. The St. Charles Casino is located along the Missouri River immediately north of I-70/Missouri River junction and about five miles to the west of I-270/I-70 junction in the City of St. Charles. The 1998 ADT along I-70 was 188,000 vehicles. The Casino Queen is located along the Mississippi River immediately east of the Gateway Arch and immediately north of the I-70/I-64/I-55 junction in the City of East St. Louis, Illinois. The ADT of these three interstates are 117,300 vehicles. The estimated 1999 population is 2,637,000 people within a 50-mile radius of the St. Louis area casinos.

GAMING REVENUES OF STUDY CASINOS

This section discusses the gaming revenues of the tri-state region where the five casinos presented in this paper are located. Between the years 1994-1999, St. Charles Casino had the second highest attendance of the eleven riverboat casinos within the state of Missouri. During the fiscal year 2000 the eleven riverboat casinos made over \$1.0 billion in adjusted gross revenues (AGRs). In Illinois, the nine riverboat casinos made over \$1.66 billion AGRs in 2000, with the Casino Queen ranked fifth out of the nine riverboats. In Iowa, Harvey's Casino and Ameristar Casino ranked one and two of out ten casinos in AGRs, respectively. The ten casinos in Iowa combined for over \$575 million in AGRs. Casinos within the State of Iowa that also have pari-mutuel wagering are accounted for separately in terms of their AGRs. Bluffs Run Casino was ranked two out of three casinos in AGRs. The three racetrack casinos, as they are called in Iowa, combined for over \$300 million in AGRs in 2000.

TRIP GENERATION CHARACTERISTICS OF STUDY CASINOS

Most of the available information concerning trip generation of casinos is related to large casinos or clusters of several casinos, such as those in Las Vegas. In order to determine the trip generation characteristics of small to medium sized casinos, HDR collected traffic information at three casinos in Council Bluffs, Iowa. Once the trip generation rates were computed, they were compared to trip generation rates of two St. Louis area casinos documented in a March 1998 issue of the ITE Journal.

Table 1 documents the five casinos' characteristics. It should be noted that the information for the Council Bluffs casinos is for the year 2000, while the information for the St. Louis casinos was collected in 1998.

Table 1 – General Casino Information

Amenities	Cou	ncil Bluffs,	Iowa	St. Louis	Metro Area
	Harvey's	Ameristar	Bluffs Run	St. Charles	Casino Queen
Slots	1169	1446	1479	1847	1020
Total Tables	53	51	0	90	51
Gaming sq. ft.	28,250	38,000	34,280	50,000	27,500
Hotel Rooms	251	356	0	Not Applicable	Not Applicable
Employees	1257	1329	1046	Not Available	1079
Pari-mutuel Wagering	No	No	Yes	No	No
Convention Center (seats)	900	170	No	Not Available	Not Available

The data collection for the Council Bluffs casinos was conducted during the following times:

- Ameristar Saturday, July 15th to Tuesday, July 25th, 2000.
- Harvey's Thursday, July 20th to Sunday, July 30th, 2000.
- Bluffs Run Wednesday, July 19th to Saturday, July 29th and Saturday August 19th to Monday August 28th, 2000.

Automatic tube recorders were placed at all entrances and exits to the casinos. Data was collected in fifteen-minute intervals, 24-hours a day for each of the casinos. All five casinos operated on a 24-hour basis. As will be discussed later, the hourly information was unique when compared to other land uses. The following sections provide detailed information on the trip generation characteristics of the three Council Bluffs casinos. These rates were compared to the two St. Louis casinos and since the rates for all five casinos were similar, an average trip generation rate was computed.

Peak Hour Trip Generation Rates

A trip generation rate was calculated based on the number of slot machines that were located at each casino. Generation rates were calculated for both weekdays and weekends. Weekday trip generation rates were calculated for both the peak of facility and peak of adjacent street traffic. Traffic studies for new developments generally analyze the weekday peak hour of adjacent street traffic. However, several types of developments generate higher traffic levels during times other than the adjacent street traffic peak hour. Data from the casinos indicate that their peak trip generation rates are different than the peak hour of adjacent street traffic. Table 2 depicts the average PM peak hour trip generation rates of the five casinos for the peak hour of facility, while Table 3 depicts the average PM peak hour trip generation rate for the adjacent street traffic. The PM peak hour was chosen for purposes of calculating trip generation rates because they were generally higher than the AM peak hour. Tables A1, A2, and A3 located at the end of the paper document the three Iowa casinos daily raw peak hour and time of day data.

Table 2 - Pacility Peak Hour Trip Generation

		PM Peak Hour									Average	PM Peak
	Har	vey's	Ame	eristar	Blufi	s Run	St. C	harles	Casino	Queen	_	r Trips
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Monday - Friday	502	380	423	477	537	491	725	625	348	336	507	462
Saturday/Sunday	482	375	624	471	553	579	850	750	Not Av	ailable	627	544
	85	PM Peak Hour Per Slot							-		Averagi	PM Peak
	Har	vey's	Ame	ristar	Bluff	Bluffs Run St. Charles			Casino Queen			
	In	Out	In	Out	In	Out	In	Out	In	Out	A Universi	Out
Monday - Friday	0.43	0.33	0.29	0.33	0.36	0.33	0.39	0.34	0.34	0.33	№ 0 i36	0.33
Saturday/Sunday	0.41	0.32	0.43	0.33	0.37	0.39	0.46	0.41	Not Av		0.42	0.36

Table 3 - Adjacent Street Peak Hour Trip Generation

					PM Pe	ak Hou	•	-15			Average	PM Peak
	Har	vey's	Ame	ristar	Bluft	s Run	St. C	harles	Casino	Queen		r Trips
	ln	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Monday - Friday	453	340	427	378	442	373	475	600	Not Av	ailable	449	423
Saturday/Sunday	423	334	491	413	490	467	Not Av	ailable	Not Av	ailable	468	404
				PM	Peak H	our Per	Slot				Average	PM Peak
	Har	vey's	Ame	ristar	Bluff	s Run	St. C	harles	Casino			ps Per-Slot
	In	Out	In	Out	In	Out	In	Out	In	Out		Out."
Monday - Friday	0.39	0.29	0.29	0.26	0.30	0.25	0.26	0.32	Not Av	ailable	(0.31	1108
Saturday/Sunday	0.36	0.29	0.34	0.29	0.33	0.32	Not Av	ailable			MARKET STATE OF THE STATE OF	0130

Note: St. Charles weekday rate is for Friday only.

The PM peak hour trip generation rates were similar for each of the three Council Bluffs casinos. These rates were found to be comparable to the two St. Louis area casinos' trip generation rates. As shown above in Table 3, there is a correlation between the number of slot machines and the traffic generated by the casinos. For example, the two St. Louis area casinos have a difference in the number of trips generated by the facility. However when the trip generation rates were developed on a per slot machine basis, the rates are quite similar. Even though the St. Charles Casino has 800 slot machines more than the Casino Queen, their trip generation rates are comparable.

HDR's analysis of the five casinos in St. Louis and Council Bluffs found that their average weekday PM peak hour of adjacent street traffic trip generation rate was 0.59 trips per slot machine, while the average weekend PM peak hour trip generation rate was 0.64 trips per slot machine. These rates were close to the weekday and weekend PM peak hour of generator, which were 0.69 trips and 0.78 trips per slot machine, respectively.

The original trip generation rates calculated for the St. Louis area casinos were based on gaming positions. For purposes of this paper the rates provided in the March ITE Journal article were converted to trips per slot machine. This was done in order to directly compare the Council Bluffs and St. Louis trip generation rates. Gaming positions are calculated based on each type of game and are a percentage of the number of slot machines. Thus, calculating the number of gaming positions can get cumbersome. The other reason slot machines were used to calculate trip generation rates was because Bluffs Run Casino does not have table games.

Daily Trip Generation Rates

Table 4 shows the ADTs that were collected for the three Iowa casinos. An average daily trip rate was developed based on information from the three Iowa casinos and from the St. Charles Casino. Not enough information was available in order to include the Casino Queen in these calculations. Table 5 shows the weekday and weekend daily trip rates for each of the four casinos in addition to an average daily trip rate.

Table 4 – Average Daily Traffic (ADT)

	Harvey's Daily Volume			Ameris	tar Daily Vo	lume	Bluffs Run Daily Volume		
Day	Inbound Volume	Outbound Volume	ADT	Inbound Volume	Outbound Volume	ADT	Inbound Volume	Outbound Volume	ADT
Sunday	7,038	6,749	13,787	7,438	8,175	15,613	8,871	8,887	17,758
Monday	5,402	4,745	10,147	5,378	5,394	10,771	6,665	6,741	13,406
Tuesday	9,334	8,496	17,830	6,903	6,761	13,663	7,702	7,180	14,882
Wednesday	6,401	5,221	11,622	5,823	5,730	11,553	7,499	6,827	14,326
Thursday	6,944	5,462	12,406	5,845	5,703	11,548	8,494	7,867	16,361
Friday	8,230	5,938	14,168	8,043	7,460	15,503	9,211	8,441	17,652
Saturday	8,075	7,025	15,100	8,311	8,129	16,440	9,957	9,392	19,349

Table 5 - Average Daily Traffic Rates

	ADT				ADT per slot				Average
	Harvey's	Ameristar	Bluffs Run	St. Charles	Harvey's	Ameristar	Bluffs Run	St. Charles	ADT per slot-
Monday - Friday	13,249	12,496	15,325	17,362	11.33	8.64	10.36	9.40	9.93
Saturday/Sunday	14,443	16,026	18,554	19,959	12.36	11.08	12.54	10.81	11.70

Note: St. Charles weekday rate is for Friday only.

The ADT was higher on weekend days compared to weekdays. As shown in Table 4 there was more than a 50% increase in the ADT on weekends at some of the casinos. Another interesting factor that made relatively large increases in ADT was the special promotions that the casinos offer. For example, Harvey's Casino had double points for slot club members on Tuesdays, which generated more traffic than a typical weekend day. Double points allow slot club members to earn extra points that can be redeemed for cash.

Another finding of interest was the amount of traffic that occurs during the late night hours. It was assumed that this was related to the fact that all five casinos evaluated in this paper were located within a metropolitan area and relatively close to an interstate. Table 6 documents the time variation of trips at the three Council Bluffs casinos and the St. Charles Casino. Again, data was not available for Casino Queen.

Table 6 – Casino Related Time Variations of Trips

	Percentage of Traffic during each time period									
	Harvey's		Ameristar		Bluffs Run		St. Charles		Average	
	Weekday	Weekend	Weekday	Weekend	Weekday	Weekend	Weekday	Weekend	Weekday	Weekend
9 AM - 9 PM	64.6	58.4	69.0	61.9	66.1	59.5	65.7	69.5	66.3	62.3
9 PM - 9 AM	35.4	41.6	31.0	38.1	33.9	40.5	34.3	30.5	33.6	37.7
12 AM - 6 AM	10.9	17.9	9.2	16.2	10.9	17.4	13.8	9.0	11.2	15.1
6 AM - 12 PM	21.0	19.6	20.7	17.3	23.1	20.8	15.8	19.0	20.1	19.2
12 PM - 6 PM	34.3	31.2	37.9	32.3	34.7	31.7	34.6	33.6	35.4	32,2
6 PM - 12 AM	33.8	31.3	32.3	34.1	31.3	30.1	35.8	38.4	33.3	33.5

Generally, most land uses do not operate on a 24-hour basis. As a result, roadways located near these casinos tend to have more traffic on them during the late night hours. The daily trip information is important because it captures some of the impacts related to off-peak traffic levels. This could lead to potential concerns of nearby residents or business owners. If the location of a potential casino was proposed near a neighborhood, the future casino could cause lighting, noise, or other environmental concerns. Our data shows some justification to these concerns over late-night traffic. Typically between the hours of 12:00 AM and 6:00 AM most land uses are not in operation and thus do not generate trips. These four casinos, on the other hand, averaged over 15% of their daily trips during these same hours. This could lead to potential complaints by nearby residents or businesses.

SUMMARY

This paper included the trip generation rates of three Iowa casinos and compared their rates to that of two St. Louis casinos included in a March 1998 ITE Journal article. In general, the five casinos had comparable trip generation rates for both weekdays and weekends. These rates could be used when determining the viability of a proposed casino or the expansion of an existing casino. As always, data collected at or near the actual casino site should be used, but if this is not possible, these rates could provide for a relative comparison of whether the nearby roadways could handle the increase in traffic due to the casino.

HDR's analysis of the five casinos found that their average weekday PM peak hour of adjacent street traffic trip generation rate was 0.59 trips per slot machine, while the average weekend PM peak hour trip generation rate was 0.64 trips per slot machine. These rates were close to the weekday and weekend PM peak hour of generator, which were 0.69 trips and 0.78 trips per slot machine, respectively. The average weekday ADT was 9.93 trips per slot, while the weekend average ADT was 11.70 trips per slot.

It should also be noted that these casinos could be considered isolated in terms of walking from one to another. The generation rates of casinos that are found in clusters (Las Vegas) have different characteristics than the casinos studied in this paper. This can be related to the large number and size of casinos located within the clusters and the fact that they are generally located very close to each other. Another important piece of information that should be reviewed is a market analysis. A market analysis could give an estimate of the daily admissions expected at the casino. This could give an indication if these rates are applicable to the proposed casino. As with all land uses, variations in trip generation rates will exist, but knowing what the potential traffic impact could be is better than not having any comparative information.

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Table A1 - Harvey's Peak Hour Raw Data

		Α	M Peak Ho	ur	J	PM Peak Ho	ur
Day	Date	Time	Inbound Volume	Outbound Volume	Time	Inbound Volume	Outbound Volume
Thursday	7/20/00	11:00	358	209	6:00	458	317
Friday	7/21/00	10:45	323	252	5:00	548	387
Saturday	7/22/00	10:00	285	273	5:30	591	380
Sunday	7/23/00	11:00	433	265	3:30	409	462
Monday	7/24/00	10:45	280	208	4:30	347	279
Tuesday	7/25/00	11:00	562	469	6:00	715	606
Wednesday	7/26/00	10:45	320	203	5:00	440	352
Thursday	7/27/00	11:00	362	263	6:00	493	319
Friday	7/28/00	10:45	412	179	5:30	512	403
Saturday	7/29/00	11:00	304	256	5:00	518	317
Sunday	7/30/00	11:00	345	271	3:15	410	342

Table A2 – Ameristar Peak Hour Raw Data

		A	M Peak Ho	ur	I	M Peak Ho	ur
Day	Date	Time	Inbound Volume	Outbound Volume	Time	Inbound Volume	Outbound Volume
Saturday	7/15/00	10:30	363	240	5:30	596	420
Sunday	7/16/00	11:00	379	388	6:00	609	543
Monday	7/17/00	10:45	248	282	3:15	314	435
Tuesday	7/18/00	11:00	430	287	3:00	463	637
Wednesday	7/19/00	10:45	340	230	5:30	429	334
Thursday	7/20/00	10:45	356	228	3:00	349	471
Friday	7/21/00	11:00	364	283	5:45	662	441
Saturday	7/22/00	11:00	370	265	5:45	700	461
Sunday	7/23/00	11:00	409	351	5:45	592	461
Monday	7/24/00	10:45	299	289	3:15	319	462
Tuesday	7/25/00	11:00	458	343	3:00	427	557

Table A3 – Bluffs Run Peak Hour Raw Data

	A	M Peak Ho	ur	PM Peak Hour			
Day	Time	Inbound Volume	Outbound Volume	Time	Inbound Volume	Outbound Volume	
Monday	11:00	348	420	15:00	443	416	
Tuesday	10:45	436	393	15:00	549	513	
Wednesday	11:00	417	310	15:00	542	474	
Thursday	10:45	425	370	15:30	571	507	
Friday	11:00	406	379	15:30	580	544	
Saturday	11:00	478	361	16:00	486	635	
Sunday	10:15	423	378	15:00	620	523	

Land Use: 820 Shopping Center

Description

A shopping center is an integrated group of commercial establishments that is planned, developed, owned and managed as a unit. A shopping center's composition is related to its market area in terms of size, location and type of store. A shopping center also provides on-site parking facilities sufficient to serve its own parking demands. Specialty retail center (Land Use 814) and factory outlet center (Land Use 823) are related uses.

Additional Data

Shopping centers, including neighborhood centers, community centers, regional centers and super regional centers, were surveyed for this land use. Some of these centers contained non-merchandising facilities, such as office buildings, movie theaters, restaurants, post offices, banks, health clubs and recreational facilities (for example, ice skating rinks or indoor miniature golf courses). The centers ranged in size from 1,700 to 2.2 million square feet of gross leasable area (GLA). The centers studied were located in suburban areas throughout the United States and therefore represent typical U.S. suburban conditions.

Many shopping centers, in addition to the integrated unit of shops in one building or enclosed around a mall, include outparcels (peripheral buildings or pads located on the perimeter of the center adjacent to the streets and major access points). These buildings are typically drive-in banks, retail stores, restaurants, or small offices. Although the data herein do not indicate which of the centers studied included peripheral buildings, it can be assumed that some of the data show their effect.

The vehicle trips generated at a shopping center are based upon the GLA of the center. In cases of smaller centers without an enclosed mall or peripheral buildings, the GLA could be the same as the gross floor area of the building.

Separate equations have been developed for shopping centers during the Christmas shopping season. Plots were included for the weekday peak hour of adjacent street traffic and the Saturday peak hour of the generator.

Information on approximate hourly, monthly and daily variation in shopping center traffic is shown in Tables 1–4. It should be noted, however, that the information contained in these tables is based on a limited sample size. Therefore, caution should be exercised when applying the data. Also, some information provided in the tables may conflict with the results obtained by applying the average rate or regression equations. When this occurs, it is suggested that the results from the average rate or regression equations be used, as they are based on a larger number of studies.

Shopping Center

(820)

Average Vehicle Trip Ends vs: 1000 Sq. Feet Gross Leasable Area

On a: Weekday,

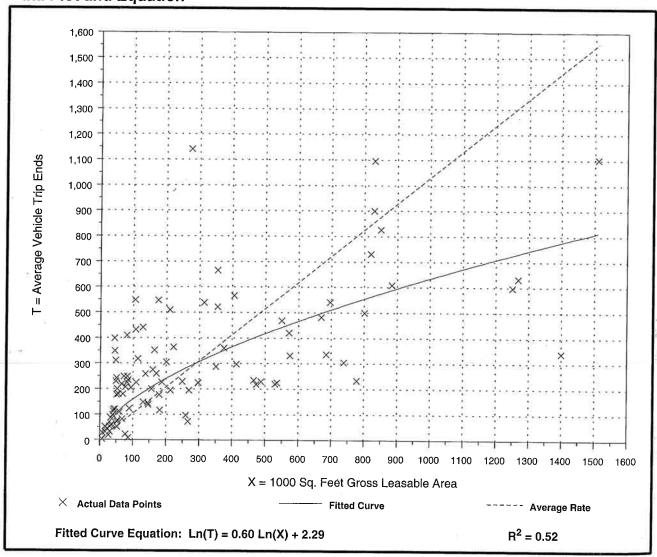
Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.

Number of Studies: 98 Average 1000 Sq. Feet GLA: 287

Directional Distribution: 61% entering, 39% exiting

Trip Generation per 1000 Sq. Feet Gross Leasable Area

Average Rate	Range of Rates	Standard Deviation
1.03	0.10 - 9.05	1.40



Shopping Center (820)

Average Vehicle Trip Ends vs: 1000 Sq. Feet Gross Leasable Area

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

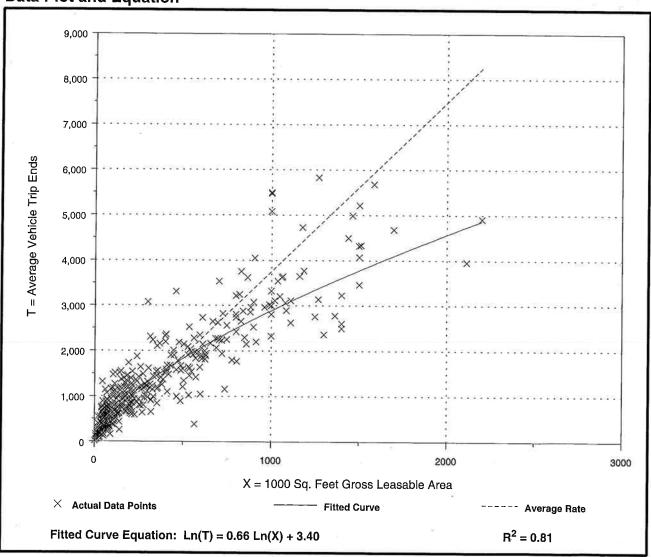
One Hour Between 4 and 6 p.m.

Number of Studies: 407 Average 1000 Sq. Feet GLA: 379

Directional Distribution: 48% entering, 52% exiting

Trip Generation per 1000 Sq. Feet Gross Leasable Area

Average Rate	Range of Rates	Standard Deviation
3.75	0.68 - 29.27	2.75



Shopping Center (820)

Average Vehicle Trip Ends vs: 1000 Sq. Feet Gross Leasable Area

Saturday, On a:

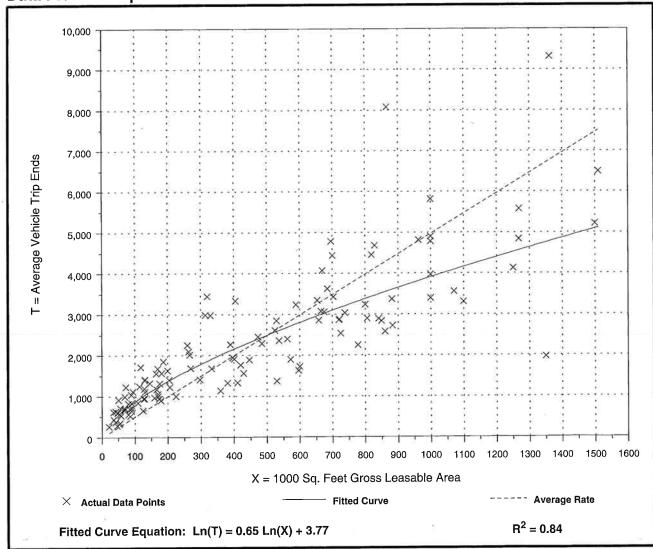
Peak Hour of Generator

Number of Studies: 124 Average 1000 Sq. Feet GLA: 447

Directional Distribution: 52% entering, 48% exiting

Trip Generation per 1000 Sq. Feet Gross Leasable Area

Average Rate	Range of Rates	Standard Deviation
4.97	1.46 - 18.32	3.11



	Hourly V Less Than 10	Table 1 ariation in Shopping 0,000 Square Feet G	Center Traffic		
Time		Weekdaya	Average Saturda		
	Percent of 24 Hour Entering Traffic	Percent of 24 Hour Exiting Traffic	Percent of 24 Hour Entering Traffic	Percen Hour E Tra	
0–11 a.m.	7.6	6.5	6.8	5.	

111110		Weekuay-	Average Saturday ^o	
	Percent of 24 Hour Entering Traffic	Percent of 24 Hour Exiting Traffic	Percent of 24 Hour Entering Traffic	Percent of 24 Hour Exiting Traffic
10-11 a.m.	7.6	6.5	6.8	5.8
11 a.m.–12 p.m.	7.6	8.4	8.8	8.9
12–1 p.m.	7.6	8.2	9.4	8,8
1–2 p.m.	6.9	7.5	10.0	10,1
2–3 p.m.	9.0	7.8	9.7	8.4
3–4 p.m.	9.6	9.5	10.3	9.6
4–5 p.m.	9.7	10.4	10.7	10.7
5–6 p.m.	10.3	11.0	9.4	8.7
6–7 p.m.	7.4	8.3	7.3	8.3
7–8 p.m.	5.4	5.3	5.0	5.7
8–9 p.m.	4.2	4.3	3.2	3.9
9–10 p.m.	1.9	1.8	2.0	3.3

Source numbers - 95, 124; based on four studies.

^b Source numbers - 95, 124; based on four studies.

			Table 2			
	Hou	ırly Variation i	n Shopping C	enter Traffic		
	More Tha	an 300,000 Sq	uare Feet Gro	ss Leasable A	\rea	
Time	Average Weekdaya		Average Saturdayb		Average Sunday ^o	
	Percent of 24 Hour Entering Traffic	Percent of 24 Hour Exiting Traffic	Percent of 24 Hour Entering Traffic	Percent of 24 Hour Exiting Traffic	Percent of 24 Hour Entering Traffic	
10-11 a.m.	7.5	3.7	8.3	4.3	3.5	1.7
11 a.m12 p.m.	8.6	5.9	10.9	6.9	9.4	3.5
12–1 p.m.	9.5	7.9	11.9	8.9	15.3	6.3
1–2 p.m.	8.7	8.2	12.5	10.4	17.3	11.0
2–3 p.m.	7.9	8.8	12.4	12.0	16.4	14.4
3–4 p.m.	7.7	8.9	11.2	12.9	13.8	16.2
4–5 p.m.	8.2	9.1	9.2	13.4	9.8	16.8
5–6 p.m.	8.3	9.5	5.2	12.7	5.5	15.7
6–7 p.m.	7.8	7.7	2.9	8.0	2.2	6.1
7–8 p.m.	8.4	7.0	1.9	2.1	1.3	1.9
8–9 p.m.	4.7	7.7	1.4	1.2	0.8	1.1
9–10 p.m.	1.8	9.1	2.9	0.8	0.6	0.0

^a Source numbers - 48, 73, 88, 124; based on seven studies.

b Source numbers - 73, 88; based on three studies.

^c Source numbers - 88; based on two studies.

Land Use: 710 General Office Building:

Description

A general office building houses multiple tenants; it is a location where affairs of businesses, commercial or industrial organizations, or professional persons or firms are conducted. An office building or buildings may contain a mixture of tenants including professional services; insurance companies; investment brokers; and tenant services, such as a bank or savings and loan institution, a restaurant or cafeteria and service retail facilities. Nearly all of the buildings surveyed were in suburban locations. Corporate headquarters (Land Use 714), single tenant office building (Land Use 715), office park (Land Use 750), research and development center (Land Use 760) and business park (Land Use 770) are related uses.

If information is known about individual buildings, it is suggested that the general office building category be used rather than office parks when estimating trip generation for one or more office buildings in a single development. The office park category is more general and should be used when a breakdown of individual or different uses is not known. If the general office building category is used and if additional buildings, such as banks, restaurants, or retail stores are included in the development, then the development should be treated as a multiuse project. On the other hand, if the office park category is used, internal trips are already reflected in the data and do not need to be considered.

When the buildings are interrelated (defined by shared parking facilities or the ability to easily walk between buildings) or house one tenant, it is suggested that the total area or employment of all the buildings be used for calculating the trip generation. When the individual buildings are isolated and not related to one another, it is suggested that trip generation be calculated for each building separately and then summed.

Additional Data

Average weekday transit trip ends—

Transit service was either nonexistent or negligible at the majority of the sites surveyed in this land use. Users may wish to modify trip generation rates presented in this land use to reflect the presence of public transit, carpools and other transportation demand management (TDM) strategies. Information has not been analyzed to document the impacts of TDM measures on the total site generation. See the ITE *Trip Generation Handbook* for additional information on this topic.

The average building occupancy varied considerably within the studies where occupancy data was provided. For buildings with occupancy rates reported, the average percent of occupied gross leasable area was 88 percent.

Some of the regression curves plotted for this land use may produce illogical trip end estimates for small office buildings. When the proposed site size is significantly smaller than the average-sized facility published in this report, caution should be used when applying these statistics. For more information, please refer to Chapter 3, "Guidelines for Estimating Trip Generation," of the *Trip Generation Handbook*.

In some regions peaking may occur earlier or later and last somewhat longer than the traditional 7:00 a.m. to 9:00 a.m. and 4:00 p.m. to 6:00 p.m. peak period time frames.

The sites were surveyed from the 1960s to the 2000s throughout the United States.

Trip Characteristics

The trip generation for the a.m. and p.m. peak hours of the generator typically coincided with the peak hours of the adjacent street traffic; therefore, only one a.m. peak hour and one p.m. peak hour, which represent both the peak hour of the generator and the peak hour of the adjacent street traffic, are shown for general office buildings.

Source Numbers

2, 5, 20, 21, 51, 53, 54, 72, 88, 89, 92, 95, 98, 100, 159, 161, 172, 175, 178, 183, 184, 185, 189, 193, 207, 212, 217, 247, 253, 257, 260, 262, 279, 295, 297, 298, 300, 301, 302, 303, 304, 321, 322, 323, 324, 327, 404, 407, 408, 418, 419, 423, 562

General Office Building

(710)

Average Vehicle Trip Ends vs: 1000 Sq. Feet Gross Floor Area

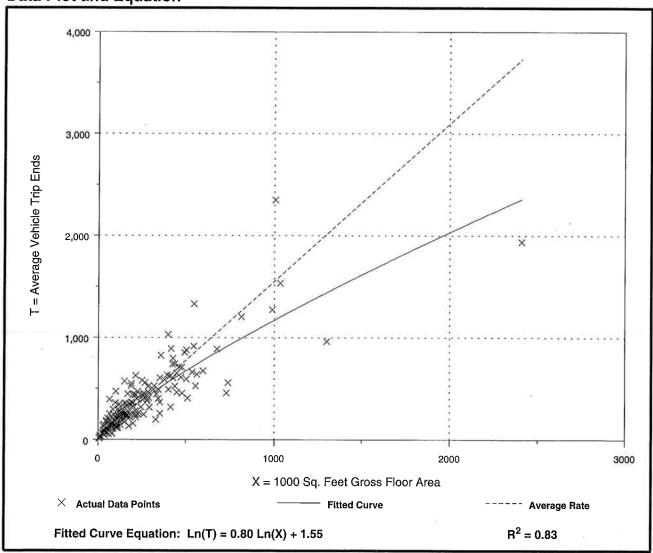
On a: Weekday, A.M. Peak Hour

Number of Studies: 217 Average 1000 Sq. Feet GFA: 223

Directional Distribution: 88% entering, 12% exiting

Trip Generation per 1000 Sq. Feet Gross Floor Area

Average Rate	Range of Rates	Standard Deviation
1.55	0.60 - 5.98	1.39



General Office Building (710)

Average Vehicle Trip Ends vs: 1000 Sq. Feet Gross Floor Area

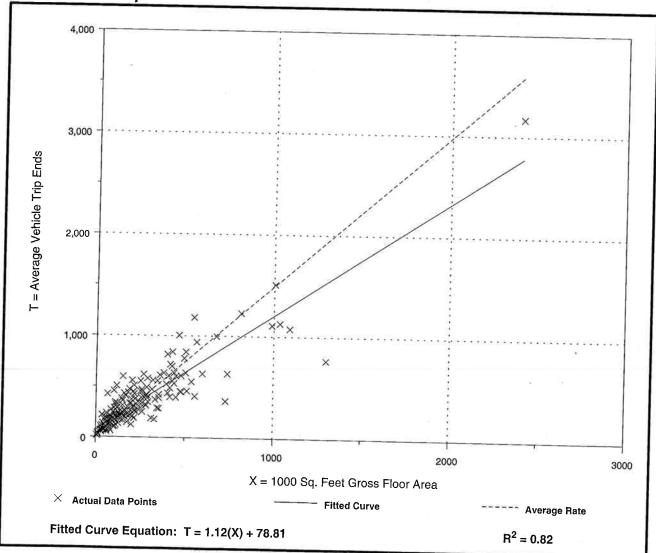
On a: Weekday, P.M. Peak Hour

Number of Studies: 235 Average 1000 Sq. Feet GFA: 216

Directional Distribution: 17% entering, 83% exiting

Trip Generation per 1000 Sq. Feet Gross Floor Area

Average Rate	Range of Rates	Standard Deviation
1.49	0.49 - 6.39	1.37



Land Use: 230 Residential Condominium/Townhouse

Description

Residential condominiums/townhouses are defined as <u>ownership</u> units that have at least one other owned unit within the same building structure. **Both condominiums and townhouses are included in this land use.** The studies in this land use did not identify whether the condominiums/townhouses were low-rise or high-rise. Low-rise residential condominium/townhouse (Land Use 231), high-rise residential condominium/townhouse (Land Use 232) and luxury condominium/townhouse (Land Use 233) are related land uses.

Additional Data

The number of vehicles and the number of residents had a high correlation with average weekday vehicle trip ends. The use of these variables was limited, however, because the number of vehicles and residents was often difficult to obtain or predict. The number of dwelling units was generally used as the independent variable of choice because it is usually readily available, easy to project and had a high correlation with average weekday vehicle trip ends.

The peak hour of the generator typically coincided with the peak hour of the adjacent street traffic.

The sites were surveyed from the mid-1970s to the 2000s throughout the United States and Canada.

Source Numbers

4, 92, 94, 95, 97, 100, 105, 106, 114, 168, 186, 204, 237, 253, 293, 319, 320, 321, 390, 412, 418, 561, 562, 583

Residential Condominium/Townhouse

(230)

Average Vehicle Trip Ends vs: Dwelling Units

On a: Weekday,

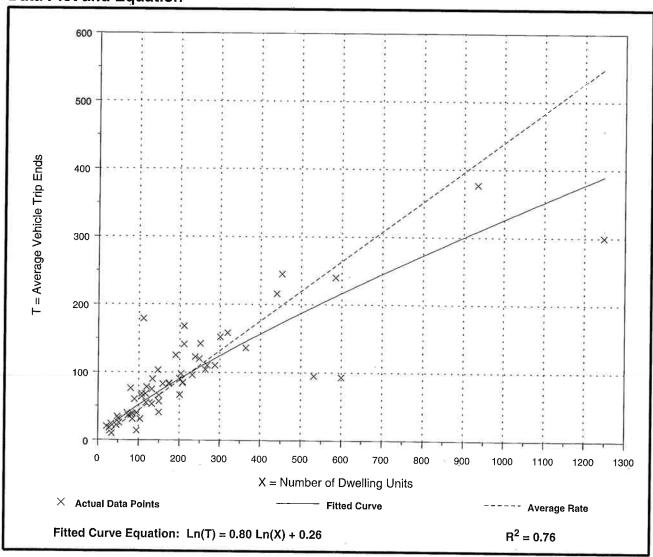
Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.

Number of Studies: 59 Avg. Number of Dwelling Units: 213

Directional Distribution: 17% entering, 83% exiting

Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.44	0.15 - 1.61	0.69



Residential Condominium/Townhouse

(230)

Average Vehicle Trip Ends vs: Dwelling Units

On a: Weekday,

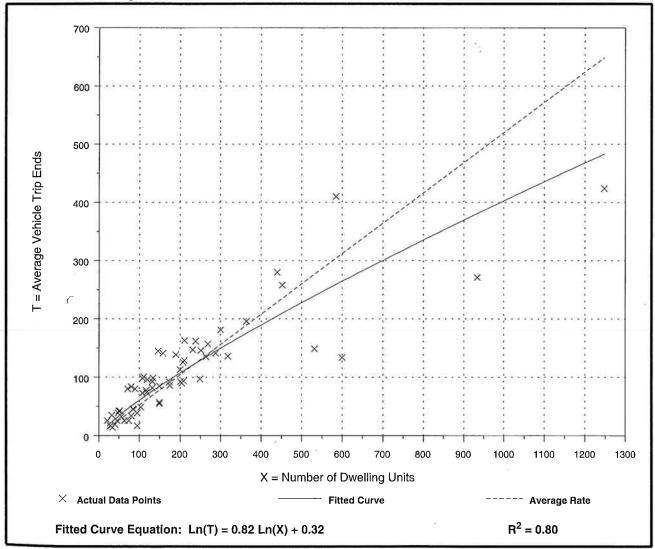
Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.

Number of Studies: 62 Avg. Number of Dwelling Units: 205

Directional Distribution: 67% entering, 33% exiting

Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation	
0.52	0.18 - 1.24	0.75	



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Table 5.4 Pass-By Trips and Diverted Linked Trips Weekday, P.M. Peak Period Land Use 820--Shopping Center

						Non-Pass-	Diverted		Adj. Street	Average	
Size (1,000		Weekday Survey	No. of		Primary	By Trip	Linked	Pass-By	Peak Hour	Daily	
SF GLA)	Location	Date	Interviews	Time Period	Trip (%)	(%)	Trip (%)	Trip (%)	Volume	Traffic	Source
738	East Brunswick, NJ	Apr. 1994	283	4-6 PM	79	r	7	14	8,059	n/a	ICSC
260	Harrisonburg, VA	Apr. 1994	437	4-6 PM	49		32	19	3,051	n/a	CSC
299	Bourbonais, IL	May 1994	200	4-6 PM	53	,	31	16	2,770	п/а	ICSC
808	Laguna Hills, CA	Jun. 1994	240	4-6 PM	73	1	14	13	4,035	n/a	ICSC
800	San Jose, CA	May 1994	205	4-6 PM	51	•	28	21	7,474	n/a	ICSC
598	Greeley, CO	May 1994	205	4-6 PM	22	7	28	17	3,840	n/a	CSC
581	Pueblo, CO	May 1994	296	4-6 PM	53	ij	29	18	2,939	n/a	ICSC
720	Framingham, MA	Dec. 1982	92	3:30-7 PM	39		38	23	n/a	73,628	Raymond Keyes Assoc.
890	Newark, DE	Jul. 1984	179	3-8 PM	49		39	12	n/a	n/a	Raymond Keyes Assoc.
658	Wayne, NJ	Sept. 1984	243	3-6 PM	61		12	27	n/a	n/a	Raymond Keyes Assoc.
1,200	Washington, D.C.	1980	364	4-6 PM	35		40	25	n/a	n/a	Gorove-Slade
800	Southern CA	n/a	1,000	4-6 PM	45	•	43	12	n/a	n/a	Frischer
622	Ramsey, MN	Nov. 1985	46	4-9 PM	26		30	44	n/a	36,370	Raymond Keyes Assoc.
736	Pensacola, FL	Oct. 1985	383	3-7 PM	35		39	26	п/а	n/a	Raymond Keyes Assoc.
200	Meriden, CT	Apr. 1985	n/a	4-6 PM	•	92		∞	n/a	n/a	Connecticut DOT
099	Enfield, CT	Apr. 1985	n/a	4-6 PM	È	78	Đ	22	n/a	n/a	Connecticut DOT
845	Waterford, CT	Apr. 1985	n/a	4-6 PM		98	-	14	n/a	n/a	Connecticut DOT
1,060	West Hartford, CT	Apr. 1985	n/a	4-6 PM		83	ĸ	17	n/a	n/a	Connecticut DOT
762	Orlando, FL	Fall 1985	182	4-6 PM	52		23	25	n/a	n/a	Kimley Horn
921	Albany, NY	Jul. & Aug. 1985	196	4-6 PM	42		35	23	n/a	60,950	Raymond Keyes Assoc.
550	Greece, NY	Jun. 1988	117	4-6 PM	52		ı	48	n/a	40,763	Sear Brown
1,090	Ross Twp, PA	Jul. 1988	411	2-8 PM	56		10	34	n/a	51,500	Wilbur Smith and Assoc.
260	Calgary, Alberta	OctDec. 1987	15,436	4-6 PM	39	÷	41	20	n/a	n/a	City of Calgary DOT
549	Natick, MA	Feb. 1989	n/a	4:45-5:45 PM	26	10	41	33	n/a	48,782	Raymond Keyes Assoc.
	Average of Shopping Centers 500,000 SF or greater	g Centers 500,000	SF or greate	L	٠	•	29	22			#

Source: ITE Trip Generation Handbook

Table 5.4
Pass-By Trips and Diverted Linked Trips
Weekday, P.M. Peak Period

Land Use 820—Shopping Center

	70-00-04-02-02-02-02-02-02-02-02-02-02-02-02-02-	SOURCE	TPD, Inc.	TPD Inc		IPD, Inc.	TPD, Inc.	Barton-Aschman Assoc	COCCULTED ASSOCIA	Barton-Aschman Assoc.	Barton-Aschman Assoc.	Barton-Aschman Assoc.	Barton-Aschman Assoc	Borton Applicat Association	Daltoil-Ascriman Assoc.	Barton-Aschman Assoc.	Barton-Aschman Assoc.	ICSC	CSC	OSC	ICSC	CSC	OSO							
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	ADJ. STREET PEAK HOUR	VOLUME	n/a	n/a	6/0	5	n/a	759	2 5 5 5 5	00000	922	2,659	2,636	2,111	0020	2,090	1,559	2,112	8,059	4,055	3,422	5,610	3,051							
	PASS-BY	(%)	29	99	46	2	\$	32	26	41	45	99	40	36	20	73 6	99	31	53	28	35	3	52	8	14	25	27	8	19	
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l	TIME	2 8 6	Z-0 P.M.	2-6 P.M.	2-6 P.M.	2-6 P.M.	2-6 PM	2-6 PM	90	2 C P.IM.	Z-0 P.M.	Z-0 P.M.	3-7 P.M.	4-6 P.M.	4-6 P.M.	4-6 P.M	4-6 011		4-6 P.M.	4-6 P.M.	4-6 P.M.	4-6 PM	4-6 PM	4-6 PM		4-6 r.m.		4-0 P.M.	4-6 P.M.	
	NO. OF INTERVIEWS	162	201	/01	365	336	702	844	555	GRS	905	2001	200.	129	133	187	247	240	210	281	211	109	224	283	213	208	284	102	437	
\A(C)==\A(SURVEY DATE	1993	1007	\$661 5	1882	1992	1991	1992	1992	1995	1997	1005	1000	July 1880	Jun. 1993	Jun. 1993	Jun. 1993	.hin 1993	0001	Jun. 1993	Jun. 1993	Jun. 1993	Apr. 1994	Apr. 1994	Apr. 1994	Apr. 1994	Anr 1994	1004	Apr. 1994	
	LOCATION	Port Orange, FL	Kissimmee, Fl	Edocutor D	בשפישמופו, רב	Deltona, FL	Orlando, FL	Crestwood KY	Original Company	Louisville area, KY	Louisville, KY	Louisville area, KY	Louisville area, KY	10 inchillo caro	Louisville area, KY	Louisville, KY	Louisville, KY	Worcester, MA	East Brunswick, NJ	Philadelphia, PA	Hamden, CT	Glen Burnie, MD	Harrisonburg 1/A	Co Spinor						
SIZE	(1,000 SQ. FEET GLA)	53	တ	14		85	. 78	45	20	52	17	09	158	118		74	59	145	104	100	533	74	350	738	294	256	418	560		

Table 5.4 (Cont'd)
Pass-By Trips and Diverted Linked Trips
Weekday, P.M. Peak Period

F 18

Land Use 820-Shopping Center

SOURCE	ICSC	ICSC	ICSC	ICSC	ICSC	OSO	ICSC	ICSC	CSC	. CSC	OSO	ICSC	CSC	ICSC	Raymond Keyes Assoc.	Gorove-Slade	Frischer	Buttke	Buttke					
Ø			-			State of Section 128			A STATE OF THE PERSON NAMED IN	_	=	_)		Raymond	Raymond	Raymond	Raymond	Raymond	Raymond	Goro	E	ā	m
AVERAGE DAILY TRAFFIC	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	73,628	n/a	n/a	27,200	34,630	85,600	. n/a	n/a	n/a	n/a
ADJ. STREET PEAK HOUR VOLUME	2,034	3,053	589	1,094	4,606	2,770	1,970	3,706	4,035	2,787	7,474	3,840	2,939	3,427	n/a	n/a	n/a	· n/a	n/a	n/a	n/a	n/a	n/a	n/a
PASS-BY TRIP (%)	17	30	28	12	24	16	35	24	13	23	21	17	18	26	23	12	48	. 98	46	27	25	12	25	17
DIVERTED LINKED TRIP (%)	29	22	20	13	9	31	33	39	14	28	28	28	29	20	88	39	27		33	12	40	43		i
NON-PASS- BY TRIP (%)	,	,			ı		1	1	,	,			8 44 49	ı				64	. 1				75	83
PRIMARY TRIP (%)	54	48	52	75	70	53	32	37	73	49	51	55	53	54	39	49	25	,	21	61	35	45	ı	ı M
TIME PERIOD	4-6 P.M.	4-6 P.M.	4-6 P.M.	4-6 P.M.	4-6 P.M.	4-6 P.M.	4-6 P.M.	4-6 P.M.	4-6 P.M.	4-6 P.M.	4-6 P.M.	4-6 P.M.	4-6 P.M.	4-6 P.M.	3:30-7 P.M.	3-8 P.M.	4-6 P.M.	5:30-7 P.M.	4-7 P.M.	3-6 P.M.	4-6 P.M.	4-6 P.M.	5-6 P.M.	5-6 P.M.
NO. OF INTERVIEWS	315	214	228	257	282	200	264	222	240	321	205	205	296	234	92	179	87	175	181	243	364	1,000	n/a	n/a
WEEKDAY SURVEY DATE	Apr. 1994	May 1994	May 1994	May 1994	May 1994	May 1994	May 1994	May 1994	Jun. 1994	May 1994	May 1994	May 1994	May 1994	May 1994	Dec. 1982	Jul. 1984	Jun. 1984	Jun. 1980	Nov. 1985	Sept. 1984	1980	n/a	n/a	n/a
LOCATION	Glen Allen, VA	Shelby, NC	Texas City, TX	Texas City, TX	Berwyn, IL	Bourbonais, IL	Belleville, 1L	Bettendorf, IA	Laguna Hills, CA	Hanford, CA	San Jose, CA	Greeley, CO	Pueblo, CO	Bellevue, WA	Framingham, MA	Newark, DE	Manassas, VA	Ross, PA	Huntington LJ, NY	· Wayne, NJ	Washington, D.C.	Southern CA	Portland, OR	Portland, OR
SIZE (1,000 SQ. FEET GLA)	361	375	413	488	293	299	225	255	808	450	800	598	581	, 476	720	890	402	462	234	658	1,200	800	451	113

Table 5.4 (Cont'd) Pass-By Trips and Diverted Linked Trips Weekday, P.M. Peak Period

Land Use 820-Shopping Center

(1,000 SQ. FEET GLA)	LOCATION	SURVEY	NO. OF INTERVIEWS	PERIOD	PRIMARY TRIP (%)	NON-PASS- BY TRIP (%)	DIVERTED LINKED	PASS-BY	ADJ. STREET PEAK HOUR	AVERAGE DAILY	
	Ramsey, MIN	Nov. 1985	46	4-9-P	96		(cv)	(%) Tild i	VOLUME	TRAFFIC	SOURCE
	Pensacola, FL	Oct. 1985	383	9-7 pm	2 2		99	44	n/a	36,370	Raymond Keyes Assoc.
	Dover, DE	Jul. 1985	218	0.00 7	g	*	36	26	n/a	n/a	Raymond Keyes Assoc.
	Meriden CT	LOOPV	2	0:00-7 P.M.	۵		4	20	n/a	n/a	Baymond Kowe Asses
2	D 'ipprip	Apr. 1985	n/a	4-6 P.M.	S-1	92	100 - 100 m	α	6/0	1	The state of the s
- 3	Entheld, CT	Apr. 1985	n/a	4-6 P.M.		78		, 6	0,1	rva.	Connecticut DOT
	Waterford, CT	Apr. 1985	n/a	4-6 P.M.	,	e e	and the state of	77	rva	n/a	Connecticut DOT
	West Hartford, CT	Apr. 1985	n/a	4-6 PM		3 8	The second second	14	n/a	n/a	Connecticut DOT
	Pr Georges Co., MD	1982/83	88	A-8 p. 1		3		17	n/a	n/a	Connecticut DOT
	Pr Georges Co., MD	1982/83	3 2			F	ï	88	n/a	n/a	美
	Pr Georges Co., MD	1982/83	8	4-0 P.M.		64		36	n/a	n/a	홋
	Pr Georges Co., MD	1982/83	30	4-0 P.M.		25	r.	36	n/a	n/a	关
	Pr Georges Co., MD	1982/83	62	4-0-4 7-0-4 1-0-4	.	88		20	n/a	n/a	美
	Pr Georges Co., MD	1982/83	5.	4-0 P.M.	.	8		82	n/a	n/a	关
	Pr Georges Co., MD	1982/83	7 7	4-0 F.M.		42		58	n/a	n/a	关
	Pr Georges Co., MD	1982/83	2 6	4-b P.M.	e	41		59	n/a	n/a	美
	Pr Georges Co., MD	1982/83	6 8	4-0 P.M.	Е	49	•	51	n/a	n/a	圣
	W Orange, NJ	Mar 1986	3 07	4-0 P.M.	.	44	r.	56	n/a	n/a	子
	Tamon Springs El	Mar. 4000	2	4-0 P.M.	19		43	38	n/a 2	21.520	Raymond Kowo Ages
	יש אסטים סטווווקט ויר	May 1986	124	3-7 P.M.	28		35	37		24 000	rayinorid neyes Assoc.
3.0	Oriando, FL	Fall 1985	182	4-6 P.M.	52		23	36		000,4	Haymond Keyes Assoc.
	Orlando, FL	Fall 1985	124	4-6 P.M.	48		2 6	3 1	n/a	n/a	Kimley Hom
	Orlando, FL	Fall 1985	116	4-6 P.M.	2 2		8 8	12.	n/a	n/a	Kimley Horn
	Orlando, FL	Fall 1985	283	4-6 01	3 2		7	28	n/a	n/a	Kimley Hom
				. N. D. H	‡	•	c	20	9/6		

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Table 5.4 (Cont'd)
Pass-By Trips and Diverted Linked Trips
Weekday, P.M. Peak Period

Land Use 820—Shopping Center

Albary, Location NUMBERON LOCATION TIME DATE LOCATION TIME PRINGS TIME PRINGS TIME DATE LOCATION TIME PRINGS DIAL STREET APPRAIGE PRINGS TIME PRINGS			ALCOHOL: NAME OF THE PARTY OF T	A47.25	No. of Lot, House, St. Lewis Co., Lot, Lot, Lot, Lot, Lot, Lot, Lot, Lot							
196 4-6 FM. 42 - 35 23 n/a 60,950 111 4:30-5:30 FM. 61 - 13 26 n/a 34,000 1123 4:30-5:30 FM. 55 - 20 25 n/a 34,000 120 4-6 FM. 62 - - 38 n/a - 3,410 78 4-6 FM. 71 - - 29 n/a 23,410 78 4-6 FM. 71 - - 29 n/a 40,763 110 4-6 FM. 56 - 10 34 n/a 40,763 110 4-6 FM. - 59 - 41 n/a 40,000 110 4-6 FM. - 50 - 43 n/a 40,000 110 4-6 FM. - 50 - 43 n/a 26,000 110 4-6 FM. - 50 - 43 <td>SIZE (1,000 SQ. FEET GLA)</td> <td>LOCATION</td> <td></td> <td>NO. OF NTERVIEWS</td> <td></td> <td></td> <td>NON-PASS- BY TRIP (%)</td> <td>DIVERTED LINKED TRIP (%)</td> <td>PASS-BY TRIP (%)</td> <td>ADJ. STREET PEAK HOUR VOLUME</td> <td>AVERAGE DAILY TRAFFIC</td> <td>SOURCE</td>	SIZE (1,000 SQ. FEET GLA)	LOCATION		NO. OF NTERVIEWS			NON-PASS- BY TRIP (%)	DIVERTED LINKED TRIP (%)	PASS-BY TRIP (%)	ADJ. STREET PEAK HOUR VOLUME	AVERAGE DAILY TRAFFIC	SOURCE
Overland Park, KS Jul. 1988 111 4:30-5:30 p.m. 61 - 13 26 n/a 34,000 Overland Park, KS Aug. 1988 123 4:30-5:30 p.m. 55 - 20 25 n/a 34,000 Greece, NY Jun. 1988 120 4-6 p.m. 55 - 29 n/a 23,410 Greece, NY Jun. 1988 117 4-6 p.m. 71 - 29 n/a 23,410 Greece, NY Jun. 1988 411 2-8 p.m. 52 - 29 n/a 40,763 Boca Raton, PL Dec. 1987 110 4-6 p.m. 56 - 10 34 n/a 45,500 Upper Dublin Twp, PA Winter 1988/89 n/a 4-6 p.m. - 59 - 41 n/a 45,000 Lawrside, NJ Winter 1988/89 n/a 4-6 p.m. - 50 - 41 n/a 45,000 Broward Cruy, FL Willow Grove, PA Winte	921	Albany, NY	Jul. & Aug. 1985	196	4-6 P.M.	42		35	23	n/a	60.950	Dom Mondy American
Overland Park, KS Aug. 1988 123 4:30-6:30 p.m. 55 -	108	Overland Park, KS	Jul. 1988	111	4:30-5:30 P.M.	19		13	26	2 6/0	34,000	Layinonic heyes Assoc.
Greece, NY Jun. 1988 120 4-6 RM. 62 - 38 n/a 23,410 Greece, NY Jun. 1988 78 4-6 RM. 71 - 29 n/a 57,306 Greece, NY Jun. 1988 117 4-6 RM. 52 - - 48 n/a 57,306 Boca Raton, FL Jun. 1988 117 4-6 RM. 52 - - 48 n/a 40,763 Boca Raton, FL Jul. 1988 411 2-8 RM. 56 - 41 n/a 42,225 Upper Dublin Twp, PA Winter 1988/89 n/a 4-6 RM. - 59 - 41 n/a 51,500 Lawrside, NJ Winter 1988/89 n/a 4-6 RM. - 59 - 41 n/a 40,000 Broward Cnty, FL Winter 1988/89 n/a 4-6 RM. - 57 - 43 40,000 Broylestown, FA Winter 1988/89 n/a 4-6 RM. -	118	Overland Park, KS	Aug. 1988	123	4:30-5:30 P.M.	55		200	36	2/4	04,000	n/a
Greece, NY Jun. 1988 78 4-6 P.M. 71 - 29 r/a 57,306 Boca Raton, FL Jun. 1988 117 4-6 P.M. 52 - 48 n/a 40,763 Boca Raton, FL Dec. 1987 110 4-6 P.M. 56 - 48 n/a 42,225 Ross Twp, PA Jul. 1988 411 2-8 P.M. 56 - 10 34 n/a 42,225 Upper Dublin Twp, PA Winter 1988/89 n/a 4-6 P.M. - 59 - 41 n/a 51,500 Lawnside, NJ Winter 1988/89 n/a 4-6 P.M. - 69 - 41 n/a 4,600 Willow Grove, PA Winter 1988/89 n/a 4-6 P.M. - 61 - 39 n/a 26,000 Wildletcown Twp, PA Winter 1988/89 n/a 4-6 P.M. - 60 - 30 n/a 26,000 Biddon Twp, NJ Winter 1988/89 n/a	256	Greece, NY	Jun. 1988	120	4-6 P.M.	62			3 8	יועם	, 00	n/a
Greece, NY Jun. 1988 117 4-6 P.M. 52 - 48 n/a 40,763 Boca Raton, FL Dec. 1987 110 4-6 P.M. 34 - 48 n/a 42,225 Ross Twp, PA Juli 1988 411 2-8 P.M. 56 - 10 34 n/a 42,225 Upper Dublin Twp, PA Winter 1988/89 n/a 4-6 P.M. - 59 - 41 n/a 34;000 Lawnside, NJ Winter 1988/89 n/a 4-6 P.M. - 63 - 41 n/a 40,000 Boca Raton, FL Winter 1988/89 n/a 4-6 P.M. - 57 - 43 n/a 26,000 Willow Grove, PA Winter 1988/89 n/a 4-6 P.M. - 50 - 50 n/a 26,000 Broward Cnty, RL Winter 1988/89 n/a 4-6 P.M. - 50 - 50 n/a 26,000 Middletown Twp, PA Winter 1988/8	160	Greece, NY	Jun. 1988	78	4-6 P.M.	71			3 8	1/0	52,410	Sear Brown
Boca Ration, FL Dec. 1987 110 4-6 P.M. 34 - 33 33 n/a 42,225 Upper Dublin Twp, PA Winter 1988/89 n/a 4-6 P.M. - 59 - 41 n/a 45,205 Upper Dublin Twp, PA Winter 1988/89 n/a 4-6 P.M. - 59 - 41 n/a 34;000 Lawriside, NJ Winter 1988/89 n/a 4-6 P.M. - 69 - 41 n/a 34;000 Boca Raton, FL Winter 1988/89 n/a 4-6 P.M. - 63 - 43 n/a 40,000 Willow Grove, PA Winter 1988/89 n/a 4-6 P.M. - 61 - 43 n/a 40,000 Broward Chty, FL Winter 1988/89 n/a 4-6 P.M. - 50 - 50 n/a 26,000 Middletown Twp, NA Winter 1988/89 n/a 4-6 P.M. - 68 - 50 n/a 26,000	250	Greece, NY	Jun. 1988	117	4-6 P.M.	52	ï	1	48	6/2	000,10	Sear Brown
Boss Twp, PA Jul. 1988 411 2-8 P.M. 56 - 10 34 n/a 51,500 Upper Dublin Twp, PA Winter 1988/89 n/a 4-6 P.M. - 59 - 41 n/a 51,500 Lawnside, NJ Winter 1988/89 n/a 4-6 P.M. - 63 - 43 n/a 10,000 Boca Raton, FL Winter 1988/89 n/a 4-6 P.M. - 67 - 43 n/a 40,000 Willow Grove, PA Winter 1988/89 n/a 4-6 P.M. - 61 - 39 n/a 26,000 Arden, DE Winter 1988/89 n/a 4-6 P.M. - 50 - 50 n/a 26,000 Middletown Twp, PA Winter 1988/89 n/a 4-6 P.M. - 67 - 39 n/a 26,000 Haddon Twp, NJ Winter 1988/89 n/a 4-6 P.M. - 67 - 30 n/a 20,000	51	Boca Raton, FL	Dec. 1987	110	4-6 P.M.	34		33	33	0/4	2007	Sear Brown
Upper Dublin Twp, PA Winter 1988/89 n/a 4-6 P.M. 59 41 n/a 34;000 Tredyffin Twp, PA Winter 1988/89 n/a 4-6 P.M. 63 24 n/a 10,000 Boca Raton, FL Winter 1988/89 n/a 4-6 P.M. 63 7 n/a 20,000 Willow Grove, PA Winter 1988/89 n/a 4-6 P.M. 61 9 n/a 26,000 Arden, DE Winter 1988/89 n/a 4-6 P.M. 70 70 n/a 26,000 Arden, DE Winter 1988/89 n/a 4-6 P.M. 70 70 n/a 26,000 Middletown Twp, NA Winter 1988/89 n/a 4-6 P.M. 67 70 n/a 26,000 Haddon Twp, NJ Winter 1988/89 n/a 4-6 P.M. 67 n/a 26,000 Broward Cnty, RL Winter 1988/89 n/a 4-6 P.M. 67 n/a 20,000 Haddon Twp, NJ Winter 1988/89 n/a 4-6 P.M. 80	060	Ross Twp, PA	Jul. 1988	411	2-8 P.M.	56		2 2	8 8	0,0	54 500	Milley-Horn and Assoc.
Tredyffin Twp, PA Winter 1988/89 n/a 4-6 PM. 76 24 n/a 34;000 Lawnside, NJ Winter 1988/89 n/a 4-6 PM. 63 - 24 n/a 10,000 Boca Raton, FL Winter 1988/89 n/a 4-6 PM. 61 - 39 n/a 26,000 Broward Cnty, FL Winter 1988/89 n/a 4-6 PM. 61 - 39 n/a 26,000 Arden, DE Winter 1988/89 n/a 4-6 PM. 67 - 30 n/a 26,000 Doylestown, PA Winter 1988/89 n/a 4-6 PM. 67 - 30 n/a 26,000 Middletown Twp, NJ Winter 1988/89 n/a 4-6 PM. 67 - 33 n/a 25,000 Haddon Twp, NJ Winter 1988/89 n/a 4-6 PM. - 80 - 20 n/a 6,000 Broward Cnty, FL Winter 1988/89 n/a 4-6 PM. - 80 - 20 n/a 6,000 Broward Cnty, FL Winter 1988/89 n/a 4-6 PM. - 80 - 20 n/a 6,000 Broward Cnty, FL Winter 1988/89 n/a 4-6 PM. - 45 PM. - 65 n/a 6,000 Broward Cnty, FL Winter 1988/89 n/a 4-6 PM. - 45 PM.	26	Upper Dublin Two. PA	Winter 1988/89	6/0	1.6 5.1		5	2	5	יים	000,10	Wilbur Smith and Assoc.
Lawrisde, NJ Winter 1988/89 n/a 4-6 R.M. - 76 - 24 n/a 10,000 Boca Raton, FL Winter 1988/89 n/a 4-6 R.M. - 63 - 43 n/a 20,000 Boca Raton, FL Winter 1988/89 n/a 4-6 R.M. - 61 - 43 n/a 40,000 Willow Grove, PA Winter 1988/89 n/a 4-6 R.M. - 61 - 39 n/a 26,000 Arden, DE Winter 1988/89 n/a 4-6 R.M. - 70 - 30 n/a 26,000 Middletown Twp, PA Winter 1988/89 n/a 4-6 R.M. - 67 - 32 n/a 25,000 B Haddon Twp, NJ Winter 1988/89 n/a 4-6 R.M. - 67 - 33 n/a 6,000 Broward, Chty, FL Winter 1988/89 n/a 4-6 R.M. - 67 - 33 n/a 25,000 <t< td=""><td>Q</td><td>Troop Main Time DA</td><td>000000</td><td>g .</td><td>4-0 r.m.</td><td></td><td>8</td><td>1</td><td>41</td><td>n/a</td><td>34,000</td><td>McMahon Associates</td></t<>	Q	Troop Main Time DA	000000	g .	4-0 r.m.		8	1	41	n/a	34,000	McMahon Associates
Lawnside, NJ Winter 1988/89 n/a 4-6 P.M. 63 - 37 n/a 20,000 Boca Raton, FL Winter 1988/89 n/a 4-6 P.M. - 57 - 43 n/a 40,000 Willow Grove, PA Winter 1988/89 n/a 4-6 P.M. - 61 - 39 n/a 26,000 Arden, DE Winter 1988/89 n/a 4-6 P.M. - 70 - 30 n/a 26,000 Doylestown, PA Winter 1988/89 n/a 4-6 P.M. - 67 - 30 n/a 26,000 Middletown Twp, PA Winter 1988/89 n/a 4-6 P.M. - 67 - 32 n/a 26,000 Haddon Twp, NJ Winter 1988/89 n/a 4-6 P.M. - 67 - 32 n/a 26,000 Broward Cnty, FL Winter 1988/89 n/a 4-6 P.M. - 67 - 32 n/a 26,000	و	Ireuyiirin Iwp, FA	Winter 1988/89	n/a	4-6 P.M.		9/	•	24	n/a	10,000	Booz Allen & Hamilton
Boca Raton, FL Winter 1988/89 n/a 4-6 P.M. - 57 - 43 n/a 40,000 Willow Grove, PA Winter 1988/89 n/a 4-6 P.M. - 50 - 39 n/a 26,000 Broward Cnty, FL Winter 1988/89 n/a 4-6 P.M. - 50 - 30 n/a 26,000 Middletown Twp, PA Winter 1988/89 n/a 4-6 P.M. - 68 - 32 n/a 25,000 Haddon Twp, NJ Winter 1988/89 n/a 4-6 P.M. - 67 - 33 n/a 25,000 Broward Cnty, FL Winter 1988/89 n/a 4-6 P.M. - 67 - 33 n/a 6,000	22	Lawnside, NJ	Winter 1988/89	n/a	4-6 P.M.		63		37	n/a	20.000	Pennoni Associates
Willow Grove, PA Winter 1988/89 n/a 4-6 R.M. - 61 - 39 n/a 26,000 Broward Cnty, FL Winter 1988/89 n/a 4-6 R.M. - 50 - 50 n/a 26,000 Arden, DE Winter 1988/89 n/a 4-6 R.M. - 70 - 30 n/a 26,000 Middletown Twp, PA Winter 1988/89 n/a 4-6 R.M. - 67 - 33 n/a 25,000 Haddon Twp, NJ Winter 1988/89 n/a 4-6 R.M. - 80 - 33 n/a 6,000 Broward Cnty, FL Winter 1988/89 n/a 4-6 R.M. - 45 - 55 n/a 6,000	56	Boca Raton, FL	Winter 1988/89	n/a	4-6 P.M.		57		43	6/0	40.000	McMabon Associates
Broward Cnty, FL Winter 1988/89 n/a 4-6 F.M. - 50 - 50 r/a 85,000 Arden, DE Winter 1988/89 n/a 4-6 F.M. - 70 - 30 n/a 26,000 Middletown Twp, PA Winter 1988/89 n/a 4-6 F.M. - 67 - 32 n/a 25,000 Haddon Twp, NJ Winter 1988/89 n/a 4-6 F.M. - 80 - 33 n/a 6,000 Broward, Cnty, FL Winter 1988/89 n/a 4-6 F.M. - 45 - 55 n/a 6,000	50	Willow Grove, PA	Winter 1988/89	n/a	4-6 P.M.	ı.	19		98	s e/u	28,00	Root Allon 9 Longites
Arden, DE Winter 1988/89 n/a 4-6 P.M. 70 30 n/a 26,000 Doylestown, PA Winter 1988/89 n/a 4-6 P.M. 68 - 32 n/a 29,000 Middletown Twp, PA Winter 1988/89 n/a 4-6 P.M. - 67 - 33 n/a 25,000 Broward Cnty, FL Winter 1988/89 n/a 4-6 P.M. - 80 - 20 n/a 6,000	53	Broward Cnty, FL	Winter 1988/89	n/a	4-6 P.M.		50		50.5	3 0	20,00	Makakar Arien
Doylestown, PA Winter 1988/89 n/a 4-6 P.M. 68 - 32 n/a 29,000 Middletown Twp, PA Winter 1988/89 n/a 4-6 P.M. - 67 - 33 n/a 25,000 Haddon Twp, NJ Winter 1988/89 n/a 4-6 P.M. - 80 - 20 n/a 6,000 Broward Cnty, FL Winter 1988/89 n/a 4-6 P.M. - 45 - 55 n/a 62,000	23	Arden, DE	Winter 1988/89	n/a	4-6 P.M.	В	02		8 6	5/2	000,000	Miciwal Ion Associates
Middletown Twp, PA Winter 1988/89 n/a 4-6 P.M. - 67 - 33 n/a 25,000 Haddon Twp, NJ Winter 1988/89 n/a 4-6 P.M. - 80 - 20 n/a 6,000 Broward Cnty, FL Winter 1988/89 n/a 4-6 P.M. - 45 - 55 n/a 62,000	54	Doylestown, PA	Winter 1988/89	n/a	4-6 P.M.	,	89	,	3	5/6	200,02	Siagnor inio
Haddon Twp, NJ Winter 1988/89 n/a 4-6 P.M 80 - 20 n/a 6,000 Broward Cnty, FL Winter 1988/89 n/a 4-6 P.M 45 - 55 n/a 62,000	64	Middletown Twp, PA	Winter 1988/89	n/a	4-6 P.M.	1	67		8		25,000	Door Alloo 8 Howite
Broward Cnty, FL Winter 1988/89 n/a 4-6 P.M 45 - 55 n/a 62 000	99	Haddon Twp, NJ	Winter 1988/89	n/a	4-6 P.M.	,	88	į,	20		000,02	Door Aleil & narillion
	05	Broward Cnty, FL	Winter 1988/89	n/a	4-6 P.M.		45		55		62.000	McMahon Associates

Table 5.4 (Cont'd) Pass-By Trips and Diverted Linked Trips Weekday, P.M. Peak Period

Land Use 820-Shopping Center

	Name and Address of the Owner, or other Party					B					
SIZE (1,000 SQ. FEET GLA)	LOCATION	WEEKDAY SURVEY DATE	NO. OF INTERVIEWS	TIME PERIOD	PRIMARY TRIP (%)	NON-PASS- BY TRIP (%)	DIVERTED LINKED TRIP (%)	PASS-BY TRIP (%)	ADJ. STREET PEAK HOUR VOLUME	AVERAGE DAILY TRAFFIC	SOURCE
237	W Windsor Twp, NJ Winter 1988/89	Winter 1988/89	n/a	4-6 P.M.		52	i	48	6/4	900	0
242	Willow Grove, PA	Winter 1988/89	n/a	4-6 P.M.	į	8		2 2	0/0	000,04	DOOZ Allen & Hamilton
297	Whitehall, PA	Winter 1988/89	n/a	4-6 P.M.		29		5 8	2/2	20,000	Nicivianon Associates
360	Broward County, FL	Winter 1988/89	n/a	4-6 P.M.		5,6		3 2	2/0	20,000	Orun Hoagers
370	Pittsburgh, PA	Winter 1988/89	n/a	4-6 PM		2 2		Ş	ואמ	00000	Micivianon Associates
150	Portland OB	0/0				5		2	n/a	33,000	Wilbur Smith
	רוס למושווים י	rva	919	4-6 P.M.	9	í	56	89	n/a	25,000	Kittleson and Associates
150	Portland, OR	n/a	655	4-6 P.M.	7		28	65	n/a	30.000	Kittleson and Associates
260	Calgary, Alberta	*Oct-Dec 1987	15,436	4-6 P.M.	39		41	20	n/a	n/a	City of Calgany DOT
178	Bordentown, NJ	Apr. 1989	154	2-6 P.M.	ı	92		35	g/c	37 gan	Bourney Komo Acces
144	Manalapan, NJ	Jul. 1990	176	3:30-6:15 P.M.	4		24	8	6/0	50.77	Downord Keyes Assoc.
549	Natick, MA	Feb. 1989	n/a	4:45-5:45 P.M.	26	1.00 C	41	88	n/a	48.782	Raymond Keyes Assoc.
		THE REAL PROPERTY.	Contract of the last								

Average Pass-By Trip Percentage: 34

Table 7.1 Unconstrained Internal Capture Rates for Trip Origins within a Multi-Use Development

			WEEKDAY	
		MIDDAY PEAK HOUR	P.M. PEAK HOUR OF ADJACENT STREET TRAFFIC	DAILY
from OFFICE	to Office	2%	1%	2%
	to Retail	20%	23%	22%
	to Residential	0%	2%	2%
from RETAIL	to Office	3%	3%	3%
	to Retail	29%	20%	30%
	to Residential	7%	12%	11%
from RESIDENTIAL	to Office	N/A	N/A	N/A
	to Retail	34%	53%	38%
	to Residential	N/A	N/A	N/A

Caution: The estimated typical internal capture rates presented in this table rely directly on data collected at a limited number of multi-use sites in Florida. While ITE recognizes the limitations of these data, they represent the only known credible data on multi-use internal capture rates and are provided as illustrative of typical rates. If local data on internal capture rates by paired land uses can be obtained, the local data may be given preference.

N/A — Not Available; logic indicates there is some interaction between these two land uses; however, the limited data sample on which this table is based did not record any interaction.

Table 7.2 Unconstrained Internal Capture Rates for Trip Destinations Within a Multi-Use Development

		<u> </u>	WEEKDAY	
		MIDDAY PEAK HOUR	P.M. PEAK HOUR OF ADJACENT STREET TRAFFIC	DAILY
to OFFICE	from Office	6%	6%	2%
0	from Retall	38%	31%	15%
	from Residential	0%	0%	N/A
to RETAIL	from Office	4%	2%	4%
	from Retail	31%	20%	28%
	from Residential	5%	9%	9%
o RESIDENTIAL	from Office	0%	2%	3%
	from Retail	37%	31%	33%
	from Residential	N/A	N/A	N/A

Caution: The estimated typical internal capture rates presented in this table rely directly on data collected at a limited number of multi-use sites in Florida. While ITE recognizes the limitations of these data, they represent the only known credible data on multi-use internal capture rates and are provided as illustrative of typical rates. If local data on internal capture rates by paired land uses can be obtained, the local data may be given preference.

N/A — Not Available; logic indicates there is some interaction between these two land uses; however, the limited data sample on which this table is based did not record any interaction.

Calculation of Internal & External Trips Time Period: PM Adjacent Street Traffic Peak Hour Analysist: KAK

LU A = Casino Size = 8000

	0710	0000	
	Total	Internal	External
	機能を	%6	91%
Enter	2480	226	2254
Exit	2240	204	2036
Total	4720	430	4290

LUB = Shopping Center Size = 831.2

LU C = Office Size = 50 Total Internal External

53 41 2

Enter Exit Total

	Total	Internal	External
		56%	74%
Enter	849	225	624
Exit	950	242	708
Total	1799	467	1332

LU D = Condo/TH Size = 475

	Total	Internal	External
Section 1		24%	%92
Enter	145	92	69
Exit	71	52	19
Total	216	128	88

	LUE =		6
SHIP IS	Total	Internal	External
	BC 25 37	i0/AIG#	#DIV/0!
Enter	0	0	0
Exit	0	0	0
Total	0	0	0

							Ba	Balancing T	Table										
	A-B	B-A	A-C	C-A	A-D	D-A	A-E	E-A	B-C	C-B	B-D	D-8	8-E	B B G	C-D D	D-C CE	E E-C	BEGE	ú
From/To Percent (Origin)	20%	20%	20%	20%	20%	20%	%0	%0	3%	23%	12%	53%	橿	覆	1	100		%0	0
From/To Trip Origins	448	190	448	22	448	14	0	0	29	26	114	38	(0)	.0:	2	0	0	0	9
To/From Percent (Destination)	20%	20%	20%	70%	20%	20%	%0	%0	2%	31%	%6	31%	%0	%0		2% 00	%0 9	%0	o
To/From Trip Destinations	496	170	496	2	496	29	0	0	17	7	76	45	0	(0)	L	3	.0	(b)	
Balanced (Origin - Desitinations	170	190	2	22	58	14		-0	7	17	45	38	0	0	2 (0	0	0	3

	1							
	Net	Net external	Sdu					
	A	В	၁	٥	E	Total		
Enter	2254	624	11	69	0	2958		
Exit	2036	708	11	19	0	2834		
Total	4290	1332	82	88	(0)	5792	Internal Capture	apture
Single-Use Trip Gen. Est.	4720	1799	135	216	0	6870	16%	

Percentage Calculations
Methodology based on ITE, Trip Generation Handbook, Recommended Pratice, Mutli-Use Development, March 2001
Assumptions:
- 20% Internal between Office & Casino
- 20% Internal between Condo/TH & Casino
- 20% Internal between Shopping & Casino



Calculation of Internal & External Trips Time Period: Fri PM Casino Traffic Peak Hour Analysist: KAK

LU A = Casino

	Size =	8000	
	Total	internal	External
महत्रक्ष	CXESS.	2%	93%
Enter	2880	180	2700
Exit	2640	200	2440
Total	5520	380	5140

LUB = Shopping Center Size = 831.2

LU C = Office
Size = 50

Total Internal External
29% 71%

Enter Exit Total

A SOUTH A	Total	Internal	External
SERVED IN	BESTER STATE	22%	78%
Enter	933	204	729
Exit	857	192	665
Total	1790	396	1394

LUD = Condo/TH

	Size =	4/5	
100000	Total	Internal	External
		23%	77%
Enter	64	34	30
Exit	41	24	17
Total	105	58	47

Size =

Total Internal External

#DIVIO! #DIVIO!

0 Enter Exit Total

8 B-A A-C C-A A-D D-A A=E E-A B-C C-B B-D D 20% 20% 20% 20% 20% 20% 3% 22% 11% 3 171 528 1 528 8 0 0 26 1 94 20% 20% 20% 20% 20% 4% 15% 9% 3 187 576 0 576 13 0 0 37 0 84 3			1				5	Balar	Balancing Tab	ole									
20% 20% 20% 20% 20% 20% 20% 30% 3% 3% 22% 11% 38% 171 528 1 528 8 0 0 26 1 94 16 20% 20% 20% 20% 20% 4% 15% 9% 33% 187 576 0 576 13 0 0 37 0 84 21	STATE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN C	A-B	B-A	A-C	C-A	A-D	D-A	ASE	V		⊢	B.D	8.0	REFER	2.0	0	- L		1
171 528 1 528 8 0 0 0 26 1 94 20% 20% 20% 20% 20% 60% 4% 15% 9% 187 576 0 576 13 0 0 37 0 84	From/To Percent (Origin)	20%	20%	20%	20%	20%	20%	%0	%0	3%	1	11%	38%	-	-	700	700	100	700
20% 20% 20% 20% 20% 20% 9% 4% 15% 9% 187 576 0 576 13 0 0 37 0 84	From/To Trip Origins	528	171	528	-	528	8	0	0	\vdash	,	94	16	0	2	3	90	G	200
187 576 0 576 13 6 6 37 0 84	To/From Percent (Destination)	20%	20%	20%	20%	20%	20%	%0	%0	4%	15%	%6	33%	760	700	20%	100	New York	0 780
	To/From Trip Destinations	929	187	576	0	576	13	(0)	10	37	0	84	24	ė	2	-	90		0.00
177 0 1 13 8 0 0 1 21	Balanced (Origin - Desitinations	187	171	0	-	13	8	0	9	0	-	21	16	0 0	0	- 0	0	0 0	0

	Net Ext	xternal	Trips		- Company		
THE DESCRIPTION OF THE PARTY OF	A	8	ပ	۵	H	Total	
Enter	2700	729	2	30	0	3461	
Exit	2440	665	3	17	0	3125	
Total	5140	1394	2	47	0	6586	Internal Capture
Single-Use Trip Gen. Est.	5520	1790	7	105	0	7422	11%

Percentage Calculations

Methodology based on ITE. Trip Generation Handbook, Recommended Pratice, Mutii-Use Development, March 2001
Assumptions:
- 20% Internal between Office & Casino
- 20% Internal between Condo/TH & Casino
- 20% Internal between Shopping & Casino



Calculation of Internal & External Trips Time Period: Saturday PM Casino Traffic Peak Hour Analysist: KAK

LU A = Casino

	Size =	8000	
BITTE STATE	Total	Internal	External
EXECUTE OF THE PERSON NAMED IN	200	4%	%96
inter	3360	200	3160
xit	2880	68	2812
Fotal	6240	268	5972

LUB = Shopping Center

	Size =	831.2	
	Total	Internal	External
13,113	機能の世界別	73%	77%
Enter	273	72	201
Exit	953	212	741
Total	1226	284	942

Condo/TH LUD =

A the state of the	-		-
THE PERSON	lotal	Internal	External
		23%	77%
Enter	64	34	30
Exit	41	24	47
Total	105	58	47

LU C = Office Size = 50 Total Internal External

	Size =	200	
	Total	Internal	External
No.		#DIV/0!	i0/AIG#
Enter	0	0	0
Exit	0	0	0
Total	0	0	0

	Net Ex	ternal Tr	sdi		- CE CE CE CE CE CE CE CE		
	A	8	o	۵	ALC: UK	Total	
Enter	3160	201	8	30	0	3393	
Exit	2812	741	6	17		3573	
Total	5972	942	2	47	0	9969	Internal Capture
Single-Use Trip Gen. Est.	6240	1226	2	105	0	7578	%8

Percentage Calculations
Methodology based on ITE, Trip Generation Handbook, Recommended Pratice, Mutli-Use Development, March 2001
Assumptions:
- 20% Internal between Office & Casino
- 20% Internal between Condo/TH & Casino
- 20% Internal between Shopping & Casino



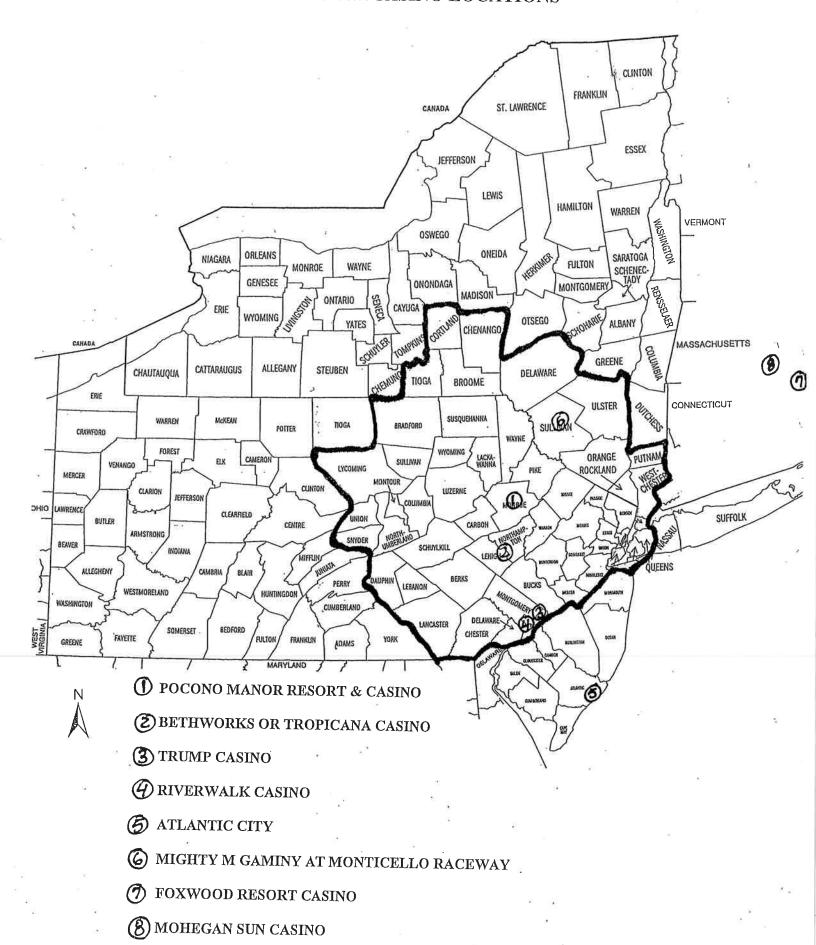


TRAFFIC IMPACT STUDY

APPENDIX G

Gravity Model Data

CASINO & GOLF VILLAS GRAVITY MODEL MAP AND OTHER CASINO LOCATIONS



Casino Golf Villas Gravity Model Trip Distribution Percentage Calculations

	understand.	and the state of the	
Pen	nsv	van	ia

County	Population	Gambling Patrons (33%)	Competing Venue Factor	% To Pocono Manor	Pocono Manor Patrons	% To/From North via I-380	Patrons To/From North via I-380	% To/From South via I-380	Patrons To/From South via I-380
Berks	396,314	130,784	3	15%	19,618	0%	0	100%	19,618
Bradford	62,537	20,637	9	80%	16,510	100%	16,510	0%	0
Bucks	621,342	205,043	2 1 SUBT 1 1 2 SUBT	10%	20,504	0%	0	100%	20,504
Carbon	61,959	20,446	8	50%	10,223	0%	0	100%	10,223
Chester	474,027	156,429	HALLS TAPE AND THE	10%	15,643	0%	Ó	100%	15,643
Columbia	64,939	21,430	9	80%	17,144	0%	0	100%	17,144
Dauphin	253,995	83,818	3	15%	12,573	0%	0	100%	12,573
Delaware	555,648	183,364	1	10%	18,336	0%	0	100%	18,336
Lackawanna	209,525	69,143	9	80%	55.315	100%	55,315	0%	0
Lancaster	490,562	161,885	3	15%	24,283	0%	0	100%	24,283
Lebanon	125,578	41,441	3	15%	6,216	0%	0 0 0 0	100%	6,216
Lehigh	330,433	109,043	1	10%	10,904	0%	0	100%	10,904
Luzerne	312,861	103,244	9	80%	82,595	60%	49,557	30%	24,779
Lycoming	118,395	39,070	9	80%	31,256	0%	0	100%	31,256
Monroe	163,234	53,867	10	90%	48,480	10%	4,848	40%	19,392
Montgomery	775,883	256,041	1	10%	25,604	0%	0	100%	25,604
Montour	18,032	5,951	9	80%	4,760	0%	0	100%	4,760
Northampton	287,767	94,963	1	10%	9,496	0%	0	100%	9,496
Northumberland	92,610	30,561	9	80%	24:449	0%	0	100%	24,449
Philadelphia	1,463,281	482,883	1	10%	48,288	0%	0	100%	48,288
Pike	56,337	18,591	8	50%	9,296	0%	0	0%	0
Schuylkill	147,447	48,658	8	50%	24,329	0%	0	100%	24,329
Snyder	38,207	12,608	9	80%	10,087	0%	0	100%	10,087
Sullivan	6,391	2,109	9	80%	1,687	100%	1,687	0%	0
Susquehanna	42,124	13,901	8	50%	6,950	100%	6,950	0%	0
Union	43,131	14,233	9	80%	11,387	0%	0	100%	11,387
Wayne	50,113	16,537	8 8	50%	8,269	100%	8,269	0%	0 198
Wyoming	28,160	9,293	9	80%	7,434	100%	7,434	0%	0
Total	7,290,832	2,405,975		24%	581,637	26%	150,570	67%	389,271

New Jersey

County	Population	Gambling Patrons (33%)	Competing Venue Factor	% To Pocono Manor	Pocono Manor Patrons	% To/From North via I-380	Patrons To/From North via I-380	% To/From South via I-380	Patrons To/Fron South via I-380
Bergen	902,561	297,845	6	20%	59,569	0%	0	100%	59,569
Essex	791,057	261,049	5	17%	44,378	0%	0	100%	44,378
Hudson	603,521	199,162	5	17%	33,858	0%	0	100%	33,858
Hunterdon	130,404	43,033	4	30%	12,910	0%	0	100%	12,910
Mercer	366,256	120,864	2	12%	14,504	0%	Envery 0	100%	14,504
Middlesex	789,516	260,540	2	12%	31,265	0%	0	100%	31,265
Morris	490,593	161,896	8	50%	80,948	0%	0	100%	80,948
Passaic	499,060	164,690	6	20%	32,938	0%	0	100%	32,938
Somerset	309,900	102,267	2	12%	12,272	0%	0	100%	12,272
Sussex	153,130	50,533	8	50%	25,266	0%	0	100%	25,266
Union	531,457	175,381	5	17%	29,815	0%	0	100%	29,815
Warren	110,376	36,424	8	50%	18,212	0%	0	100%	18,212
Total	5,677,831	1,873,684		21%	395,934	0%	0	100%	395,934

New York

County	Population	Gambling Patrons (33%)	Competing Venue Factor	% To Pocono Manor	Pocono Manor Patrons	% To/From North via I-380	Patrons To/From North via I-380	% To/From South via I-380	Patrons To/Fron South via I-380
Bronx	1,357,589	448,004	5	17%	76,161	0%	0	100%	76,161
Broome	196,947	64,993	8	50%	32,496	100%	32,496	0%	0
Chenango	51,755	17,079	8	50%	8,540	100%	8.540	0%	0
Cortland	48,622	16,045	8	50%	8,023	100%	8,023	0%	0
Delaware	47,534	15,686	4	30%	4,706	100%	4,706	0%	0
Kings	2,486,235	820,458	5	17%	139,478	0%	0	100%	139,478
New York	1,593,200	525,756	5	17%	89,379	0%	0	100%	89,379
Orange	372,893	123,055	4	30%	36,916	100%	36,916	0%	0
Putnam	100,507	33,167	4	30%	9,950	100%	9,950	0%	0
Queens	2,241,600	739,728	5	17%	125,754	0%	0	100%	125,754
Richmond	464,573	153,309	5	17%	26,063	0%	0	100%	26,063
Rockland	292,916	96,662	7	33%	31,899	0%	.0	100%	31,899
Sullivan	76,539	25,258	1	10%	2,526	100%	2,526	0%	0
Tioga	51,475	16,987	8	50%	8,493	100%	8.493	0%	0
Ulster	182,693	60,289	4	30%	18,087	100%	18.087	0%	0
West Chester	940,807	310,466	7	33%	102,454	0%	0	100%	102,454
Total	10,505,885	3,466,942		21%	720,922	18%	129,737	82%	591,186

Total

County	Population	Gambling Patrons (33%)	Competing Venue Factor	% To Pocono Manor	Pocono Manor Patrons	% To/From North via I-380	Patrons To/From North via I-380	% To/From South via I-380	Patrons To/From South via I-380
Pennsylvania	7,290,832	2,405,975		24%	581,637	26%	150,570	67%	389,271
New Jersey	5,677,831	1,873,684		21%	395,934	0%	0	100%	395,934
New York	10,505,885	3,466,942		21%	720,922	18%	129,737	82%	591,186
Total	23,474,548	7,746,601	390	22%	1,698,494	17%	280,307	81%	1,376,392
***		in the second se		17	With 10% Local	15%		73%	

Assume 15%

73% Assume 75%

Competing Venue Factors for Casino Gravity Model

Competing Venue Factors	% To Pocono Manor	Description
10	90%	Pocono Manor
9	80%	Closer to Pocono Manor
8	50%	Equidistant from 1 other competing venue
7	33%	Equidistant from 2 other competing venues
-	25%	Equidistant from 3 other competing venues
6	20%	Equidistant from 4 other competing venues
5	17%	Equidistant from 5 other competing venues
4	30%	Nearer to 1 competing venue
3		Nearer to 3 competing venues
2	12%	Nearer to 4 competing venues
1	10%	Venue present (assume greater Philadelphia region as a whole)

SHOPPING CENTER & OFFICE BUILDING GRAVITY MODEL MAP



Shopping Center Office Building Gravity Model Trip Distribution Percentage Calculations

Compty	Donnlation	% To Pocono	Pocono Manor	% To/From	Shoppers	% To/From	Shoppers	% To/From	% To/From	% To/From	Shoppers
county	ropulation	Manor	Shoppers	North via I-380	To/From North	To/From North South via I-380 To/From South	To/From South	_	East via 940	West via 940	H
Carbon	61,959	100%	61,959	%0	0	100%	61.959	%0	0	%0	1
Lackawanna	209,525	100%	209,525	100%	209,525	%0	0	%0	0	%0	0
Lehigh	330,433	100%	330,433	%0	0	100%	330,433	%0	0	%0	0
Luzerne	312,861	100%	312,861	%09	187,717	30%	93,858	%0	0	10%	31.286
Monroe	163,234	100%	163,234	10%	16,323	40%	65.294	30%	48.970	20%	32 647
Northampton	287,767	100%	287,767	%0	0	100%	287.767	%0	0	%0	0
Pike	56,337	100%	56,337	%0	0	%0	0	100%	56.337	%0	0
Wayne	50,113	100%	50,113	100%	50,113	%0	0	%0	0	%0	C
Total	1,472,229	4004	1,472,229	31%	463,678	21%	839,311	2%	105.307	4%	63.933

1-380 To/From South East via 940 1 153,130 0% 110,376 0%	New Jersey											
Topusation Manor Shoppers North via I-380 To/From North South via I-380 To/From South East via 940 153,130 100% 153,130 0% 0 100% 153,130 0% 110,376 100% 263,506 0% 0 100% 263,506 0%	County	Population	<u> </u>	Pocono Manor	% To/From	Shoppers	% To/From	Shoppers	% To/From	% To/From	% To/From	Shoppers
153,130 100% 153,130 0% 0 100% 153,130 0% 110,376 110,376 0% 0 100% 110,376 0% 0 100% 1263,506 0% 0 100% 263,506 0% 0 100% 263,506 0%	funco	robalation	_		North via I-380	To/From North	South via I-380	To/From South	East via 940		West via 940	West via 940 To/From West
110,376 100% 110,376 0% 0 100% 110,376 Total 263,506 100% 263,506 0% 0 100% 263,506	Sussex	153,130	100%	Г	%0	0	100%	153,130	%0		%0	0
263,506 100% 263,506 0% 0 100% 263,506	Warren	110,376	100%	110,376	%0	0	100%	110.376	%0	0	%0	0
200,000	Total		100%	263,506	%0	0	100%	263,506	%0	0	%0	0

Total											
County	Population	% To Pocono Manor	Pocono Manor Shoppers	% To/From North via I-380	% To/From Shoppers % To/From Shoppers % To/From North via 1-380 To/From North South via 1-380 To/From South Past via 940	% To/From South via I-380	Shoppers To/From South	% To/From East via 940	% To/From East via 940	% To/From West via 940	% To/From % To/From Shoppers East via 940 West via 940 To/From West
Pennsylvania	1,472,229	100%	1,472,229	31%	463,678	21%	839,311	2%	105,307	4%	63,933
New Jersey	263,506	100%		%0	0	100%	263,506	%0		%0	0
Total	1,735,735	100%	1,735,735	27%	463,678	64%	1,102,817	%9	105,307	4%	63,933
				Assume 25%		Assume 65%					



TRAFFIC IMPACT STUDY

APPENDIX H

Traffic Volume Spreadsheets

	ľ		2005 E	Existing Vo	lumes
			Friday	Friday	Saturday
			Adj. St.	Casino	Casino
Intersection	Approach		PM Peak	PM Peak	Peak
Route 940 & Longpond Road	Eastbound	Ţ,	17	24	12
		Т	500	312	301
		R	56	49	63
	Westbound	È	364	261	254
	Woodboard	T	657	380	304
		R	68	54	43
	Northbound	È	51	25	29
	Northboarta	T	7	3	4
		R	238	166	206
	Southbound	L	44	37	36
	Southbound	누	9	37	7
D : 0/0 0 / 000 0 /// 1D		R	14	10	10
Route 940 & I-380 Southbound Ramps	Eastbound	I	634	422	412
		R	148	93	131
	Westbound	Т	994	653	558
\$		R	173	94	64
	Southbound	L	48	42	37
		R	95	42	43
Route 940 & I-380 Northbound Ramps	Eastbound	L	63	50	48
		Т	619	414	401
	Westbound	Т	930	577	492
		R	136	74	43
	Northbound	L	237	170	130
		R	133	178	137
Route 314 & Route 940 Eastbound Ramps	Eastbound	L	75	60	56
		R	74	50	50
	Northbound	L	41	25	19
	rtoralboaria	Ť	261	93	60
	Southbound	Ť	71	51	41
	Countral	R	24	13	9
Route 314 & Route 940 Westbound Ramps	Eastbound	L.	1	1	1
Troute 014 & Route 040 Westbouria Ramps	Lastboaria	R	17	12	12
	Northbound	Ļ	213	58	35
	TVOTUIDOUTIU	Ť	123	95	81
	Southbound	Ť	78	52	38
	Southboaria	R	41	40	32
Boots 040 9 Common Street/Harriset Lane	Coathound			8	9
Route 940 & Spruce Street/Harvest Lane	Eastbound	L	14		
		T	710	593	473
	111	R	39	22	14
20-1301-1	Westbound	<u> </u>	25	12	4
			816	584	430
		R	10	3	2
	Northbound	_L	62	35	18
		T	12	7	4
		R	28	13	5
	Southbound	_L	25	4	4
		T	7	4	2
		R	23	2	7
Route 940 & Summit Avenue/Commerce St	Eastbound	L	10	5	7
		Т	749	604	475
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		T	828	585	427
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	. to the outlo	T	1	3	
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· · · · · · · · · · · · · · · · · · ·	Southbound	L	155	105	63
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Route 940 & Industrial Drive	Eastbound	L			
The state of the s		Ť	609	465	350
		R	8	9	11
	Westbound	L	89	83	56
		T	533	385	320
		R	44	30	22
	Northbound	L	302	150	146
		Т	125	39	35
		R	62	91	81
46.10.0	Southbound	L	105	41	23
		Т	60	24	15
		R	322	28	46
Route 940 & Oak Street	Eastbound	L	169	145	126
		T	578	434	300
		R	65	55	35
	Westbound	L	251	98	60
		T	273	341	270
		R	370	169	157
	Northbound	L	55	36	28
		R	195	127	100
	Southbound	L.	201	167	184
5		R	130	105	115
Route 611 & Route 940 West/Route 196	Eastbound	L	151	125	112
		T	203	221	188
	10/ a a tha a	R	412	306	246
	Westbound	L	262	231	203
		T	107	112	102
	Northbound	R	1	4	1
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		R	595 571	320 505	187 314
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Route 611 & Route 940 East/Driveway	Eastbound	L	222	105	38
ricate of Farmatic of a Lacteritoria,	Zacizeana	Ŧ	27	26	11
		R	42	46	11
Carrier State (Control of Control	Westbound	Ĺ	83	44	48
		T	18	9	10
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	Northbound	L	22	19	7
		T	697	659	379
		R	23	19	18
	Southbound	L	551	336	300
		Т	646	487	326
		R	50	37	14
Route 611 & Route 314 West	Eastbound	L,	13	34	8
		R	143	165	81
	Northbound	L	352	147	102
		Т	728	652	545
	Southbound	T	596	377	389
		R	33	25	23
Route 611 & Route 314 East	Westbound	L	332	126	78
		R	98	46	31
	Northbound	T	982	753	616
		R	234	241	95
	Southbound	L	85	135	51
		Т	654	407	419

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Year 2019 Traffic Volume Development

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	Northbound	R							46	46	46	46	46	46
	Northbodild	T							9	9	9	9	9	9
	Soulhbound	R				19	2	2	91	91	.91	110	93	93
		Т							8	8	8	8	8	8
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	Westbound	R	2	2	3	141	14	14	18 59	18 59	18 59		18 75	18 76
		R	38	38	60	162	16		- 55	33	- 53	200	54	76
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		R	46	46	85	57	6	6	- "	- ''		103	52	91
Route 314 & Route 940 Eastbound Ramps	Easlbound	R							5	5	5	5	5	5
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		R												
	Northbound	L.	173	173	199				34	34	34	207	207	233
		T				128	13	13				128	13	233
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		R									20	275	131	221
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			Pocono Manor Casino/Villa "Long Distance" Trips	or Casino,	Villa "Long	Distance"	\perp	сопо Малог	lg.	Office "Loc	al" Trips	Diverte	Diverted Linked Trips - Shopping Center	rips - Sho	pping Cer	iter	Total Po	Total Pocono Manor Trips	r Trins
			Percentages	es Ad		Casino Ca	Casino P.	Trip Distribution	Friday	Friday	Saturday	Trip Distribution	ution	Friday F	Friday S	Saturday	Friday	Friday	Saturday
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TRAFFIC IMPACT STUDY

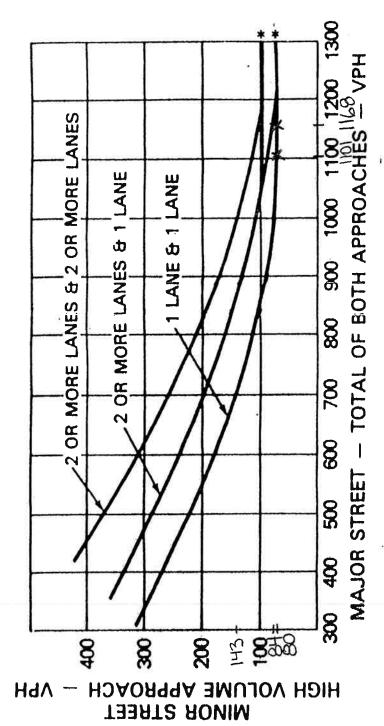
APPENDIX I

Traffic Signal Warrant Investigations

SR0940 and Southbound I-380 Ramp Existing Traffic Volumes

PEAK HOUR VOLUIME WARRANT

(COMINIUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



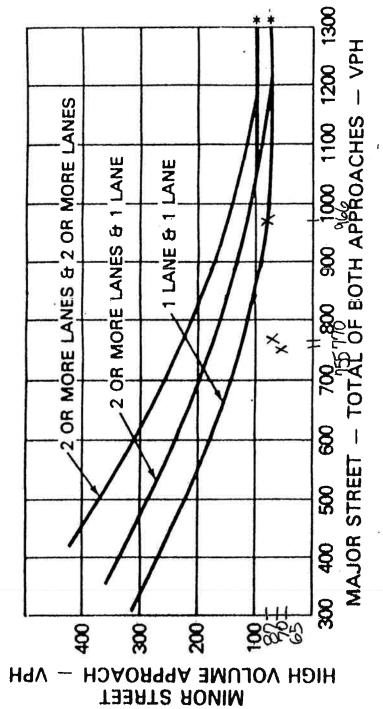
*NOTE: 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

Afternoon (1776, 143) PM (1168, 84) Saturday (1101, 80)

Warrant is met for all three peak hours plotted. SR0314 and SR 0940 Eastbound Ramps Build Trattic Volumes (lefts from

PEAK HOUR VOLUIME WARRANT

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



*NOTE: 100 VPH APPLIES AS THE LOWER THRESHOLD, VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

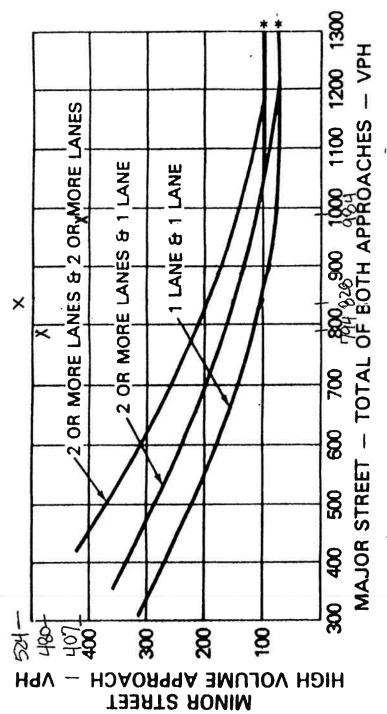
Atternoon (966,87) PM Saturday (755,65)

Warrant is met for the afternoon peak hour.

SR 0314 and Temporary Casino Driveway Build Traffic Volumes (1eths from minor street only) - Driveway B

PEAK HOUR VOLUME WARRANT

(COMMINITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

After noon (984, 407) PM Saturday (828, 524)

Warrant is met for all three peak hours plotted SR0314 and Casino Drive way A (1etts tron minor street only) 9441

PEAK HOUR VOLUIME WARRANT

299

900 1000 1100 1200 1300 (COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET) 0 370 400 500 600 700 800 900 1000 1100 1200 1: MAJOR STREET — TOTAL OF BOTH APPROACHES — VPH 2 OR MORE LANES & 2 OR MORE LANES 2 OR MORE LANES & 1 LANE 1 LANE & 1 LANE 8 8 8 8 8 HICH NOTOME MINOR STREET

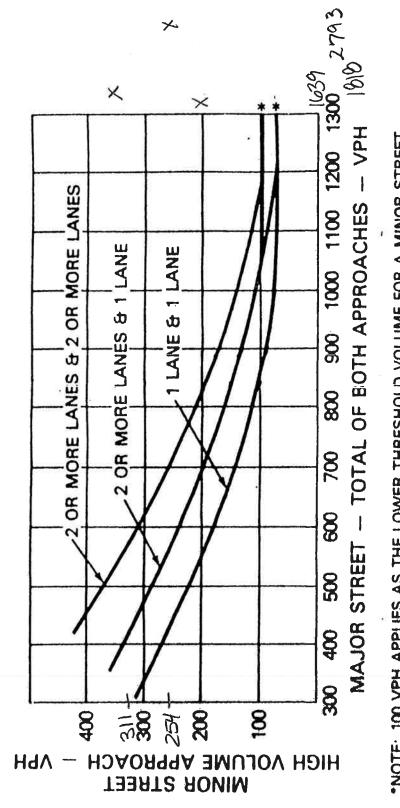
*NOTE: 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

Afternoon 1222, 708 PM 1298, 438 Saturday 1446, 378

Warrant is met for all three peak hours plotted SROGII and SRO314 Westbound Build Traffic Volumes

PEAK HOUR VOLUIME WARRANT

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



X

*NOTE: 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

Atternoon 264, 2793 PM 311, 1818 Saturday 200, 1639

Warrant is met for all three peak hours plotted



TRAFFIC IMPACT STUDY

APPENDIX J Level of Service Definitions

LEVEL OF SERVICE

Level of Service is a term used to describe vehicle operator satisfaction with the driving experience. Research has determined that operator satisfaction is based primarily on travel speed and delay. In urban environments these factors, travel speed and delay, are primarily controlled by the operation of intersections.

By utilizing models to simulate the flow of traffic at intersections, the average delay experienced by vehicles can be estimated. These models consider such factors as traffic volumes, roadway geometry, traffic control, and driver behavior. Levels of Service designations are based on a comparison of the average delays calculated by the models with perceived acceptable delays.

The following tables illustrate the guidelines used for designating Levels of Service at Intersections:

Level of Service Criteria for Signalized Intersections⁽¹⁾

Level of Service	Control Delay (seconds per vehicle)
A	< 10
В	> 10 and < 20
C	> 20 and < 35
D	$> 35 \text{ and } \leq 55$
E	$> 55 \text{ and } \le 80$
F	> 80

⁽¹⁾ Table 6-3, Level of Service from Control Delay (2000 HCM)

Level of Service Criteria for Unsignalized Intersections⁽²⁾

Level of Service	Intersection Delay (seconds per vehicle)
a	< 10
b	$> 10 \text{ and} \le 15$
С	> 15 and < 25
d	> 25 and < 35
e	$> 35 \text{ and } \le 40$
f	> 50

⁽²⁾ Table 6-4, Level of Service Criteria for TWSC and AWSC intersections (2000 HCM)