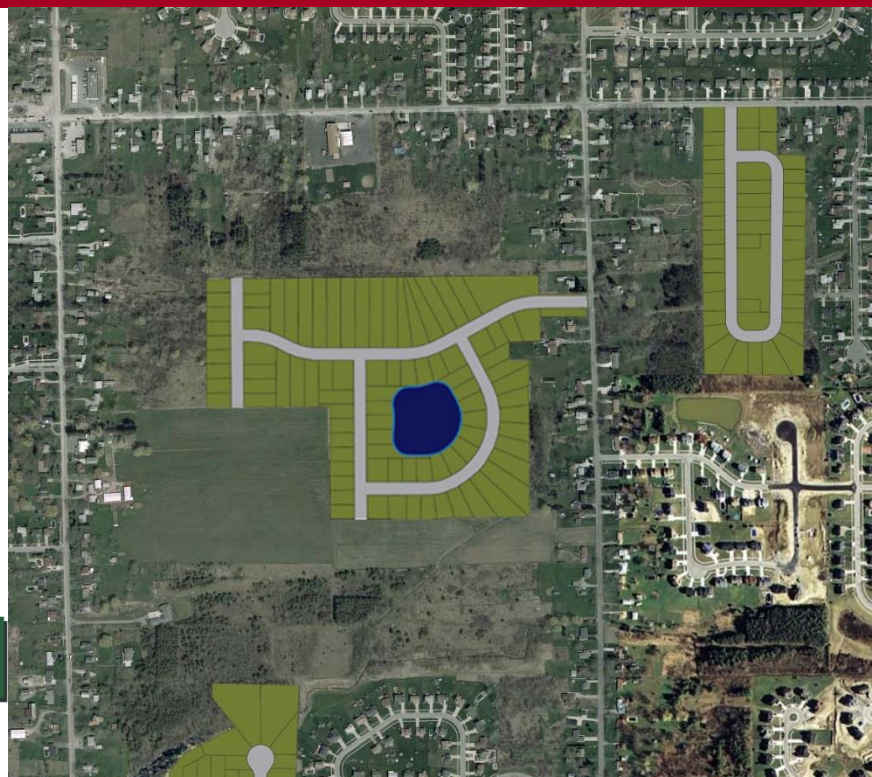
TOWN OF LANCASTER NEW YORK

TRAFFIC MODEL PRESENTATION



GBNRTC

GREATER BUFFALO-NIAGARA
REGIONAL TRANSPORTATION COUNCIL

January 22, 2008

Analysis Area

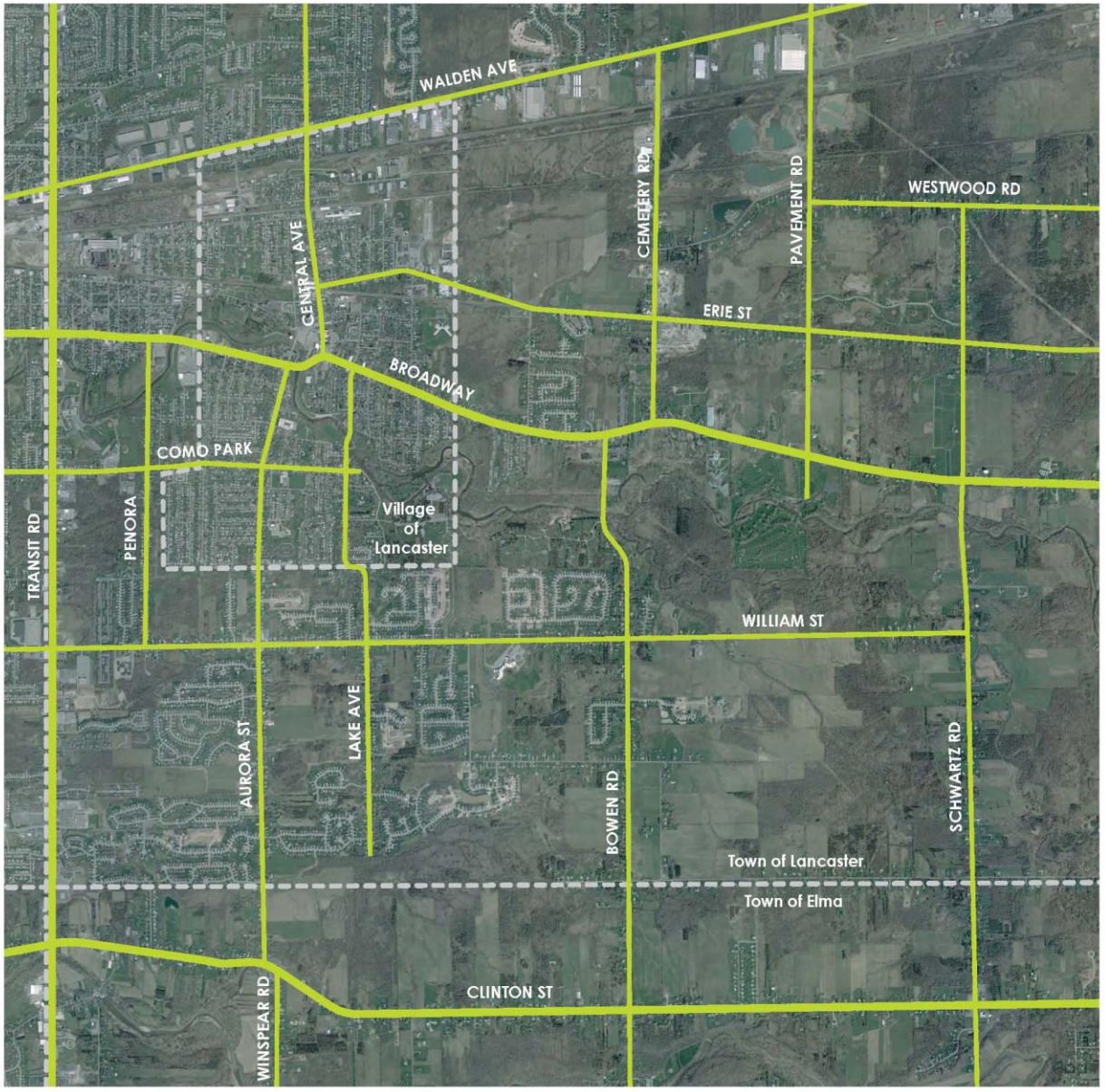
TOWN OF
LANCASTER, NEW YORK

Traffic Analysis

Street Network Diagram

February 2007

GREATER BUFFALO-NIAGARA
REGIONAL TRANSPORTATION COUNCIL

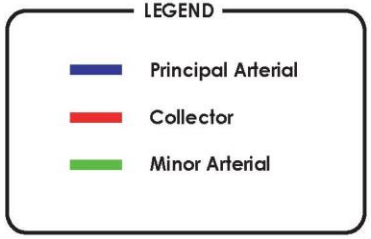


Roadway Functional Classification

TOWN OF
LANCASTER, NEW YORK

Traffic Analysis

Functional Class Diagram



February 2007

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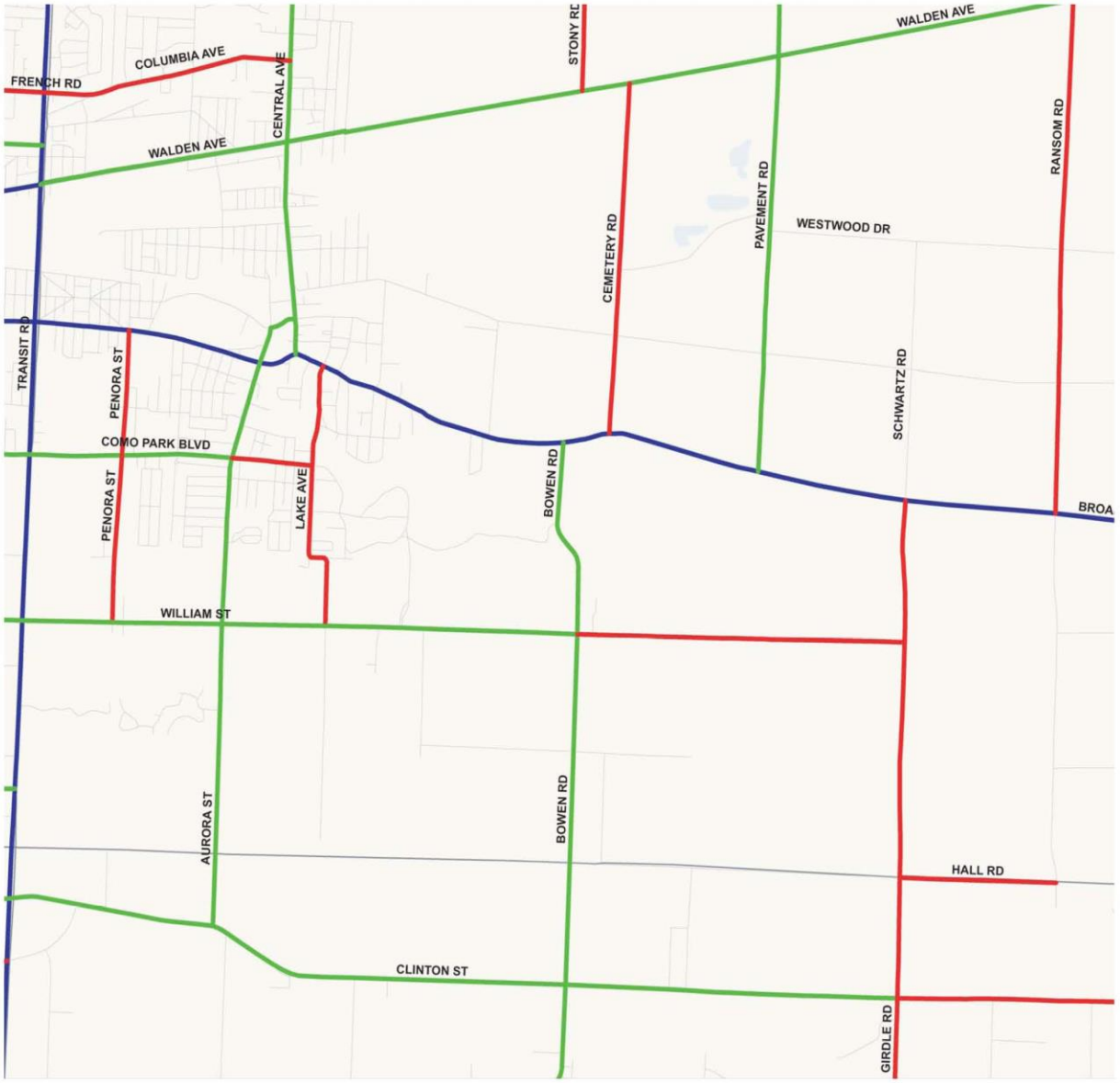
REGIONAL TRANSPORTATION COUNCIL



Traffic Analysis Zones

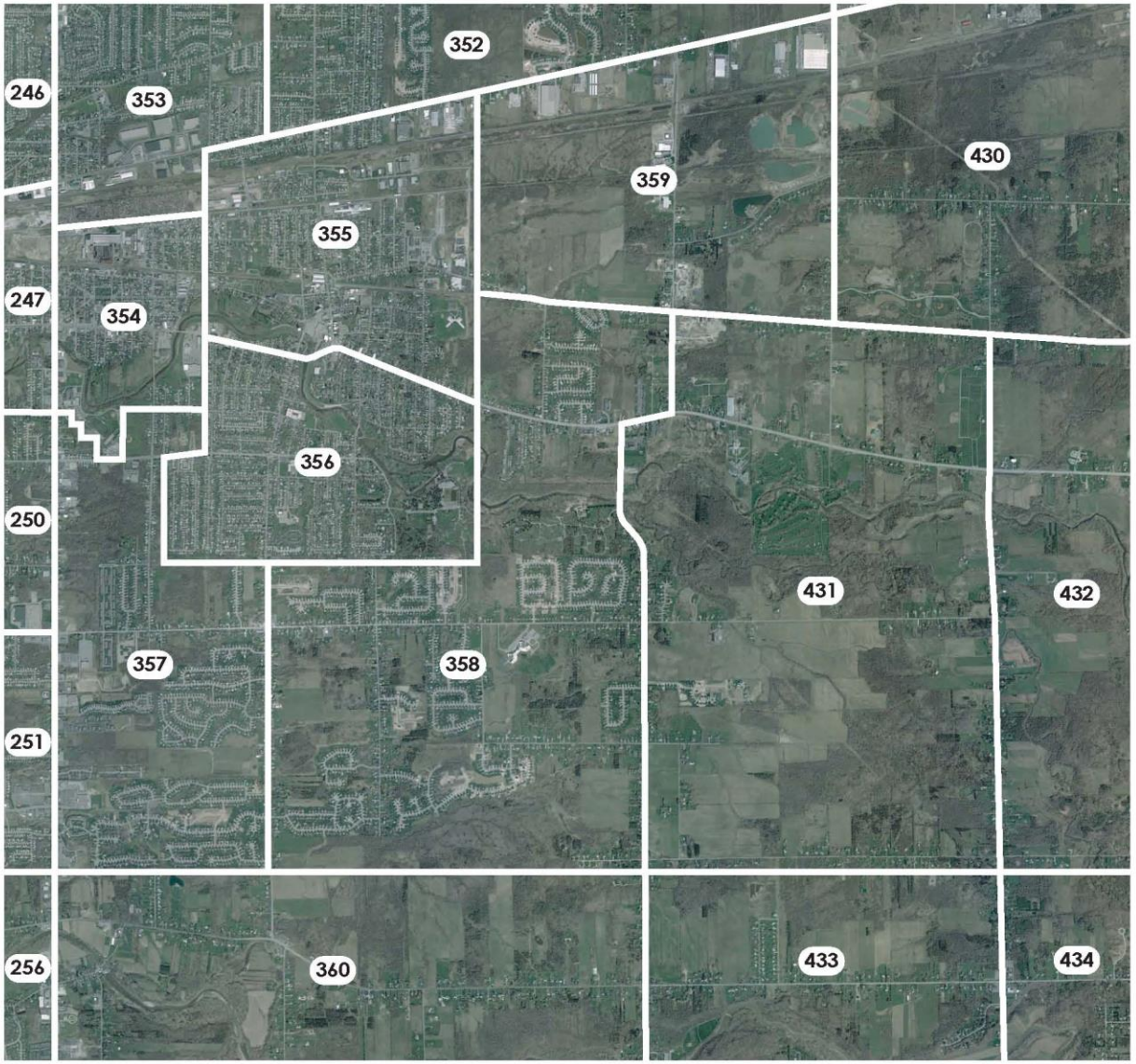
TOWN OF
LANCASTER, NEW YORK

Traffic Analysis

Traffic Analysis Zones

February 2007

GREATER BUFFALO-NIAGARA
REGIONAL TRANSPORTATION COUNCIL



Traffic Signal Locations

TOWN OF
LANCASTER, NEW YORK

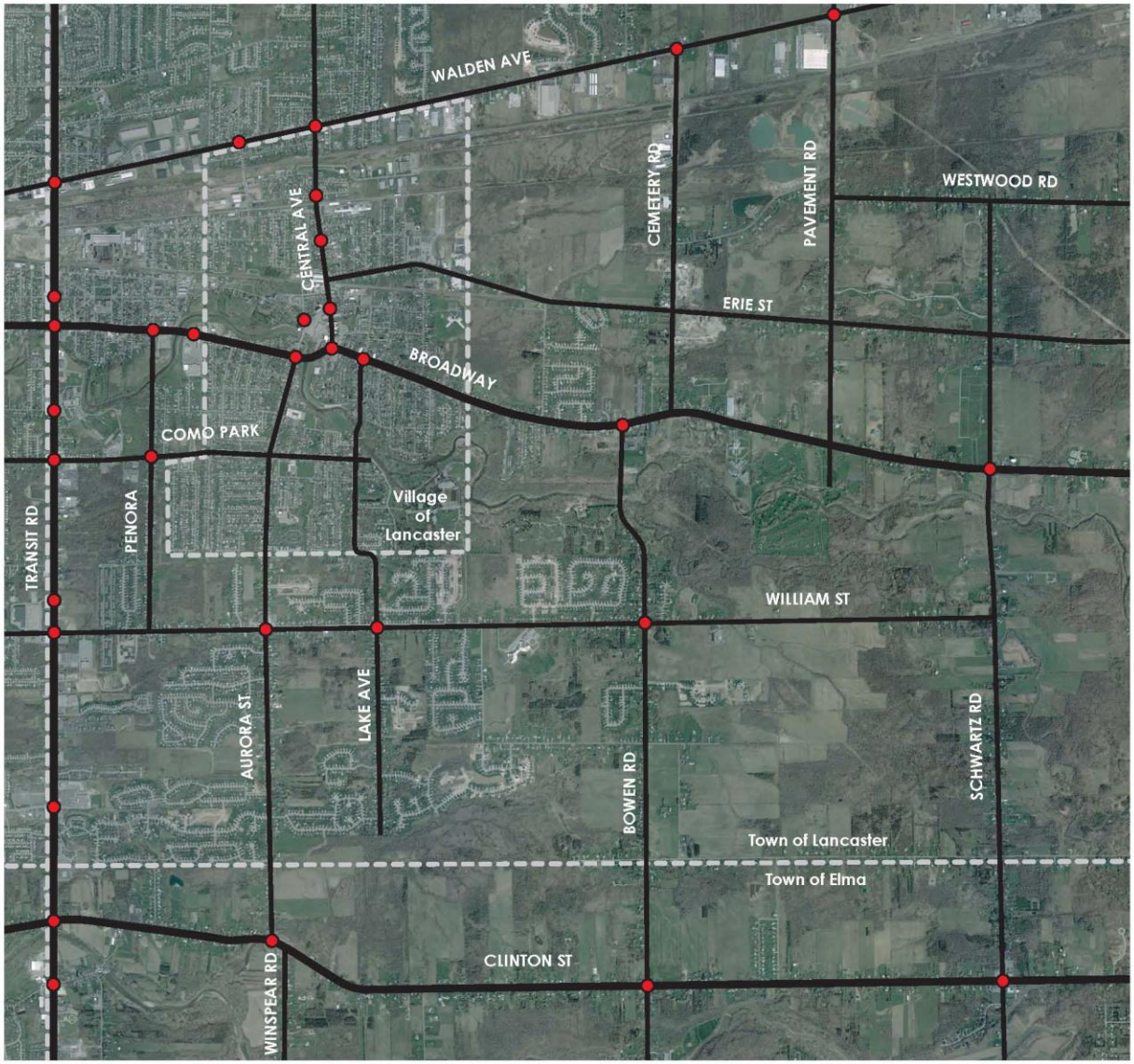
Traffic Analysis

Signalized Intersections

Intersection with Traffic Signal

February 2007

GREATER BUFFALO-NIAGARA
REGIONAL TRANSPORTATION COUNCIL



Current Traffic Volumes

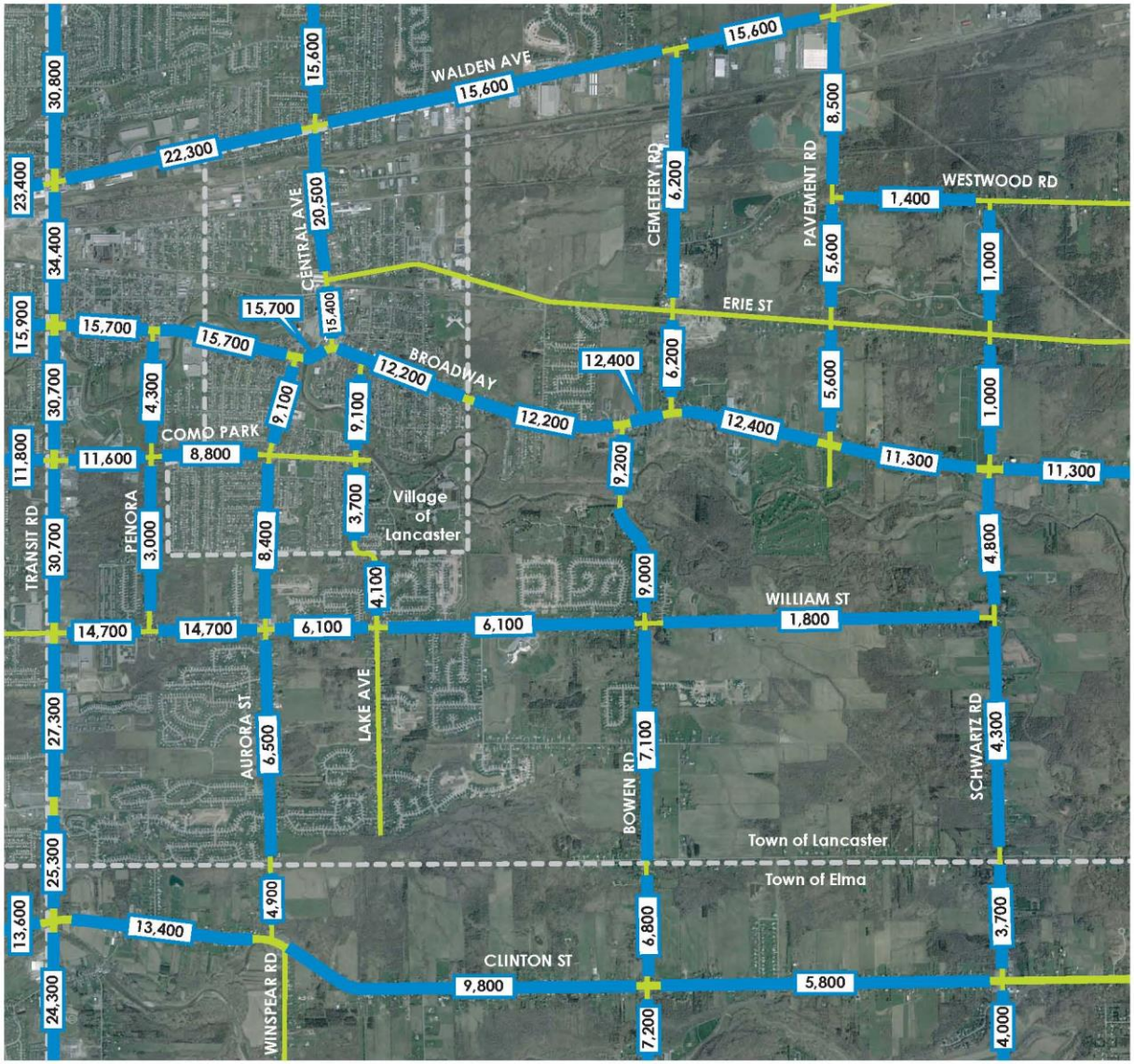
TOWN OF
LANCASTER, NEW YORK

Traffic Analysis

AADT Volumes

February 2007

GREATER BUFFALO-NIAGARA
REGIONAL TRANSPORTATION COUNCIL



New Intersection Turning Movement Counts

Conducted at Over 80 locations

TOWN OF
LANCASTER, NEW YORK

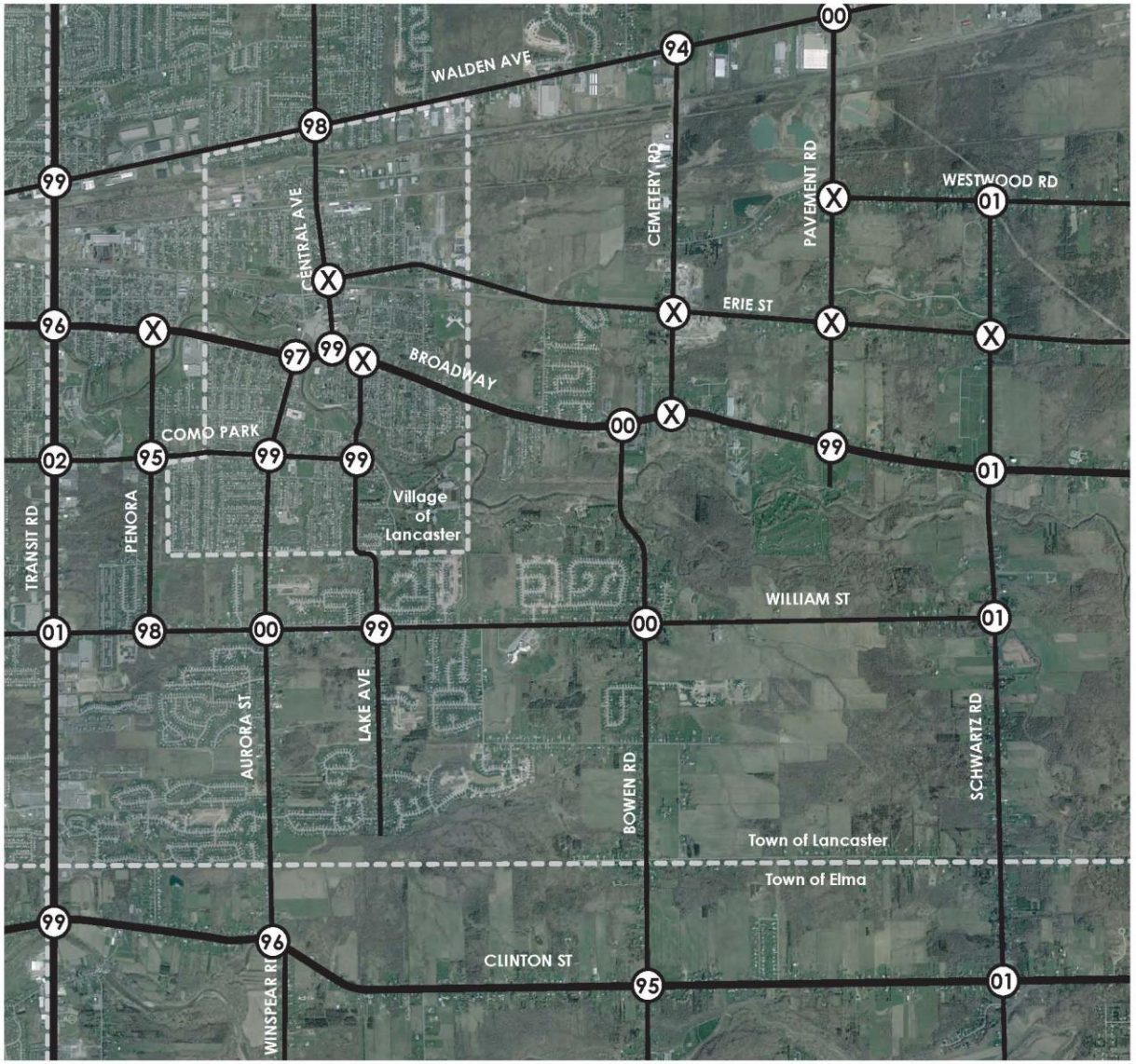
TRAFFIC STUDY

TM Count Dates

KEY	
03	2003
02	2002
01	2001
00	2000
99	1999
98	1998
97	1997
96	1996
95	1995
94	1994
X	No Count

February 2007

GREATER BUFFALO-NIAGARA
REGIONAL TRANSPORTATION COUNCIL



Manual Intersection Turning Movement Counts Taken Of All Vehicles

- **Taken Over an 8 Hour Period**
- **7-10 am; 12-2pm; and 3-6pm**
- **AM, Mid-day, and PM Peak Hours Established**

Greater Buffalo Niagara Regional Transpo
438 Main Street, Suite 503
Buffalo, New York 14202-3207
Turning Movement Count

Counter: T-1452, T-1900
Counted By: J Pollot, J Waight
Weather: Sunny, hot
Other: Lancaster

File Name : Transit@William&Losson_2007
Site Code : 00010207
Start Date : 5/30/2007
Page No : 1

Groups Printed- AUTOS - TRUCKS & BUSES

	Transit Rd Southbound					William St Westbound					Transit Rd Northbound					Losson Rd Eastbound					
Start Time	Left	Thru	Right	ROR	App. Total	Left	Thru	Right	ROR	App. Total	Left	Thru	Right	ROR	App. Total	Left	Thru	Right	ROR	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		1.0	1.0	1.0	1.0		
07:00 AM	12	112	3	3	130	23	101	16	3	143	20	211	20	3	254	22	31	7	4	64	591
07:15 AM	8	149	12	4	173	49	101	24	2	176	32	208	32	4	276	30	38	11	8	87	712
07:30 AM	11	154	13	1	179	50	114	29	7	200	36	282	43	7	368	34	40	8	6	88	835
07:45 AM	11	159	15	2	187	55	75	21	2	153	20	283	27	5	335	35	50	12	8	105	780
Total	42	574	43	10	669	177	391	90	14	672	108	984	122	19	1233	121	159	38	26	344	2918
08:00 AM	11	158	11	1	181	42	84	23	7	156	34	229	35	4	302	31	30	10	12	83	722
08:15 AM	16	140	8	1	165	48	74	34	4	160	31	234	42	5	312	31	41	8	8	88	725
08:30 AM	16	153	6	1	176	49	93	26	4	172	24	214	26	3	267	21	34	7	11	73	688
08:45 AM	15	191	16	0	222	46	70	23	8	147	31	190	19	4	244	25	28	5	9	67	680
Total	58	642	41	3	744	185	321	106	23	635	120	867	122	16	1125	108	133	30	40	311	2815
09:00 AM	11	184	12	3	210	53	53	10	12	128	39	155	18	4	216	29	22	5	18	74	628
09:15 AM	16	121	11	0	148	39	59	16	10	124	33	139	28	2	202	18	19	6	12	55	529
09:30 AM	12	139	15	4	170	48	49	11	12	120	30	169	25	3	227	15	36	15	11	77	594
09:45 AM	12	161	6	7	186	39	41	18	4	102	30	150	26	9	215	23	38	15	13	89	592
Total	51	605	44	14	714	179	202	55	38	474	132	613	97	18	860	85	115	41	54	295	2343
BREAK																					
12:00 PM	15	204	14	2	235	55	49	10	7	121	48	160	34	3	245	24	49	22	12	107	708
12:15 PM	19	216	24	3	262	60	47	7	8	122	49	195	46	4	294	32	43	17	20	112	790
12:30 PM	16	175	12	0	203	59	58	18	19	154	41	170	46	2	259	23	61	21	11	116	732
12:45 PM	15	231	19	0	265	60	34	8	12	114	46	194	34	7	281	34	50	24	21	129	789
Total	65	826																		64	464	3019
01:00 PM	23	158																		24	124	718
01:15 PM	21	191	22	1	235	41	61	12	4	118	51	186	39	4	280	32	53	17		20	122	755

RAW TRAFFIC COUNT SUMMARY SHEET

SnagIt Window

R46 =

# Pedestrians		0			0			3			1		

Intersection: **Transit @ William St & Losson Rd**

N-S Street: Transit Rd

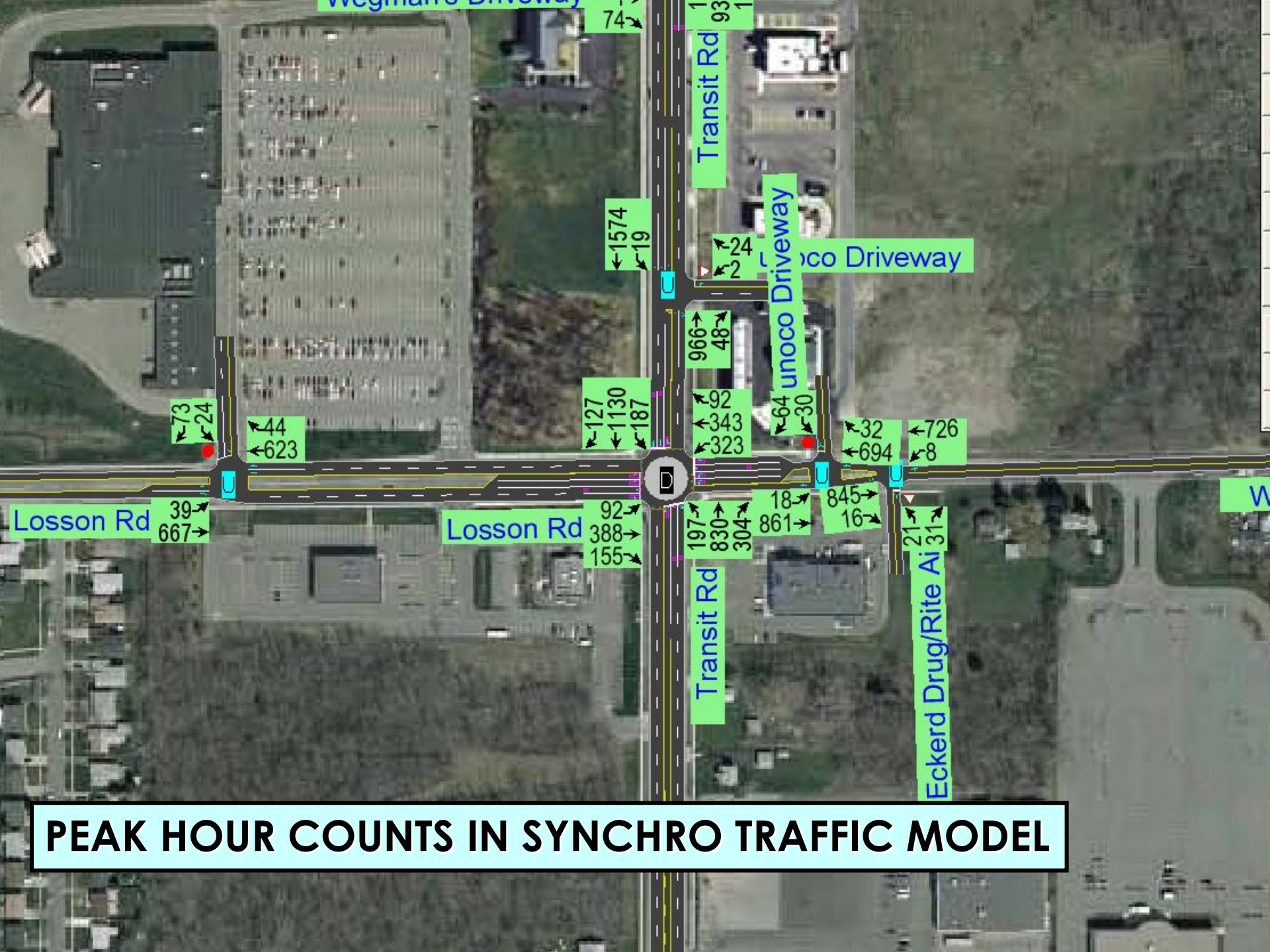
E-W Street: William St & Losson Rd

Peak Period: Weekday PM Peak Hour

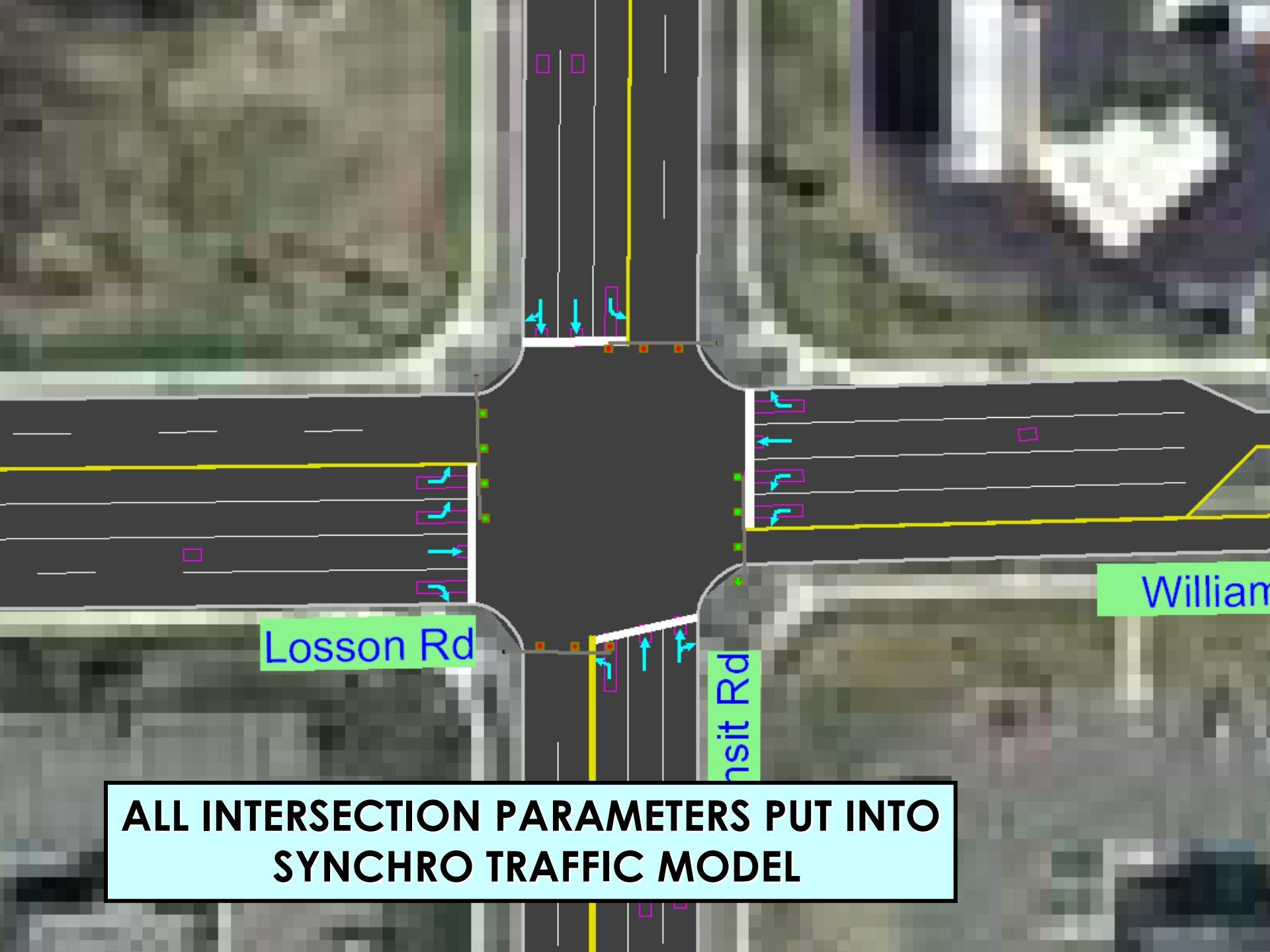
Count Date: 5/30/2007

	Southbound			Westbound			Northbound			Eastbound		
	Left	**Thru**	**Right**	**Left**	**Thru**	**Right**	**Left**	**Thru**	**Right**	**Left**	**Thru**	**Right**
Peak Start	4:45			4:45			4:45			4:45		
Volume	187	1130	127	323	343	92	197	830	304	92	388	175
Percent	13%	78%	9%	43%	45%	12%	15%	62%	23%	14%	59%	27%
Peak Total	1444			758			1331			655		
Highest 15-min Vol.	45	295	40	93	95	22	45	230	82	35	92	40
PHF	0.95			0.90			0.93			0.98		
Highest	5:30	5:15	5:15	5:00	5:30	5:30	5:00	5:30	5:00	5:30	5:00	5:00
Volume (15 min)	56	295	40	93	96	30	55	230	97	35	99	49
PHF	0.83	0.96	0.79	0.87	0.89	0.77	0.90	0.90	0.78	0.66	0.98	0.89
# Trucks & Buses	0	0	0	0	0	0	4	27	7	0	1	0
% of Peak Hour	0	0	0	0	0	0	2	3	2	0	0	0
# Pedestrians	0			0			6			5		
Pedestrians 8 Hour Count Total	0			0			10			6		

PEAK HOUR SUMMARIES



PEAK HOUR COUNTS IN SYNCHRO TRAFFIC MODEL



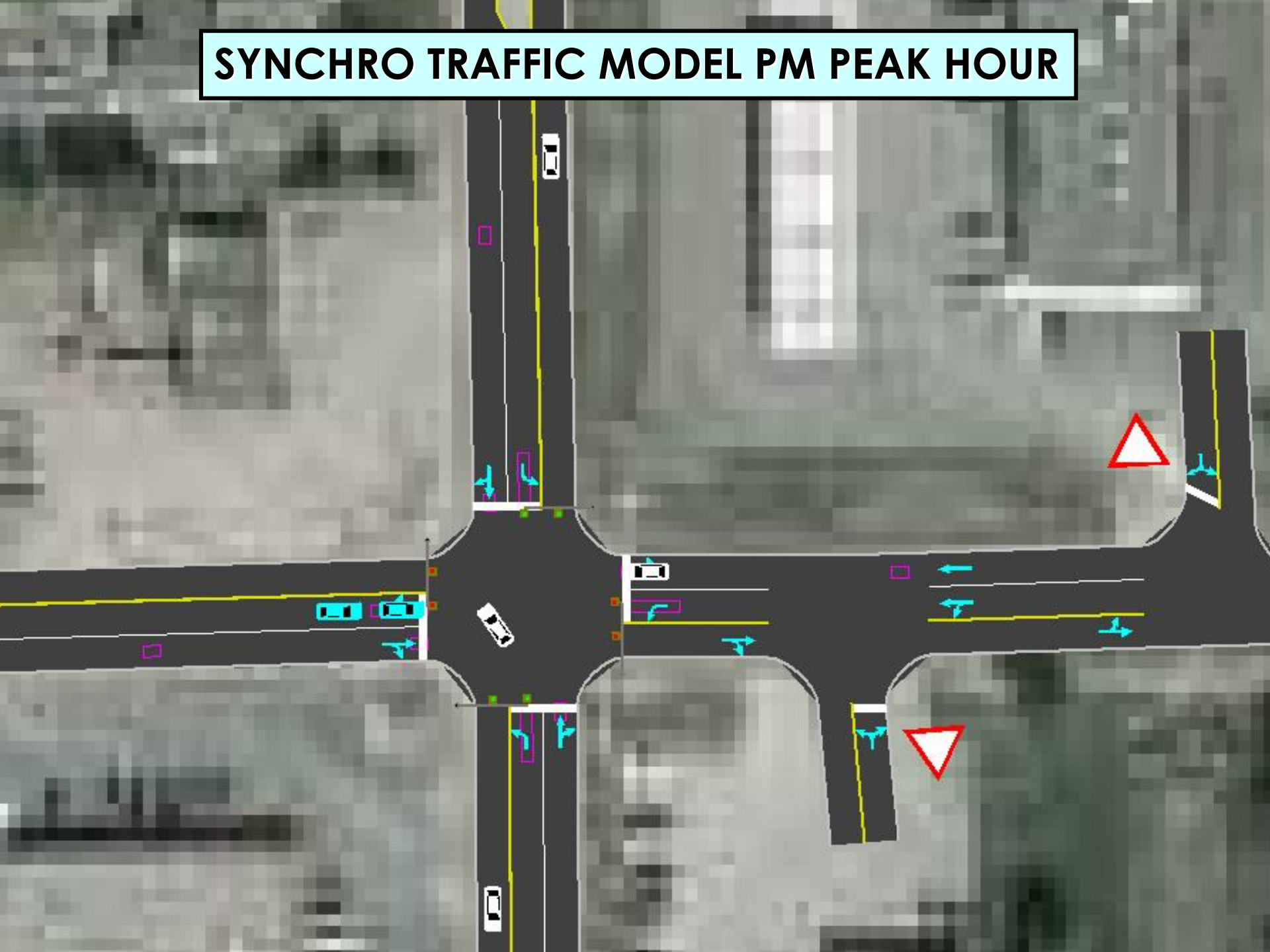
ALL INTERSECTION PARAMETERS PUT INTO SYNCHRO TRAFFIC MODEL

EXISTING INTERSECTION LEVEL OF SERVICE

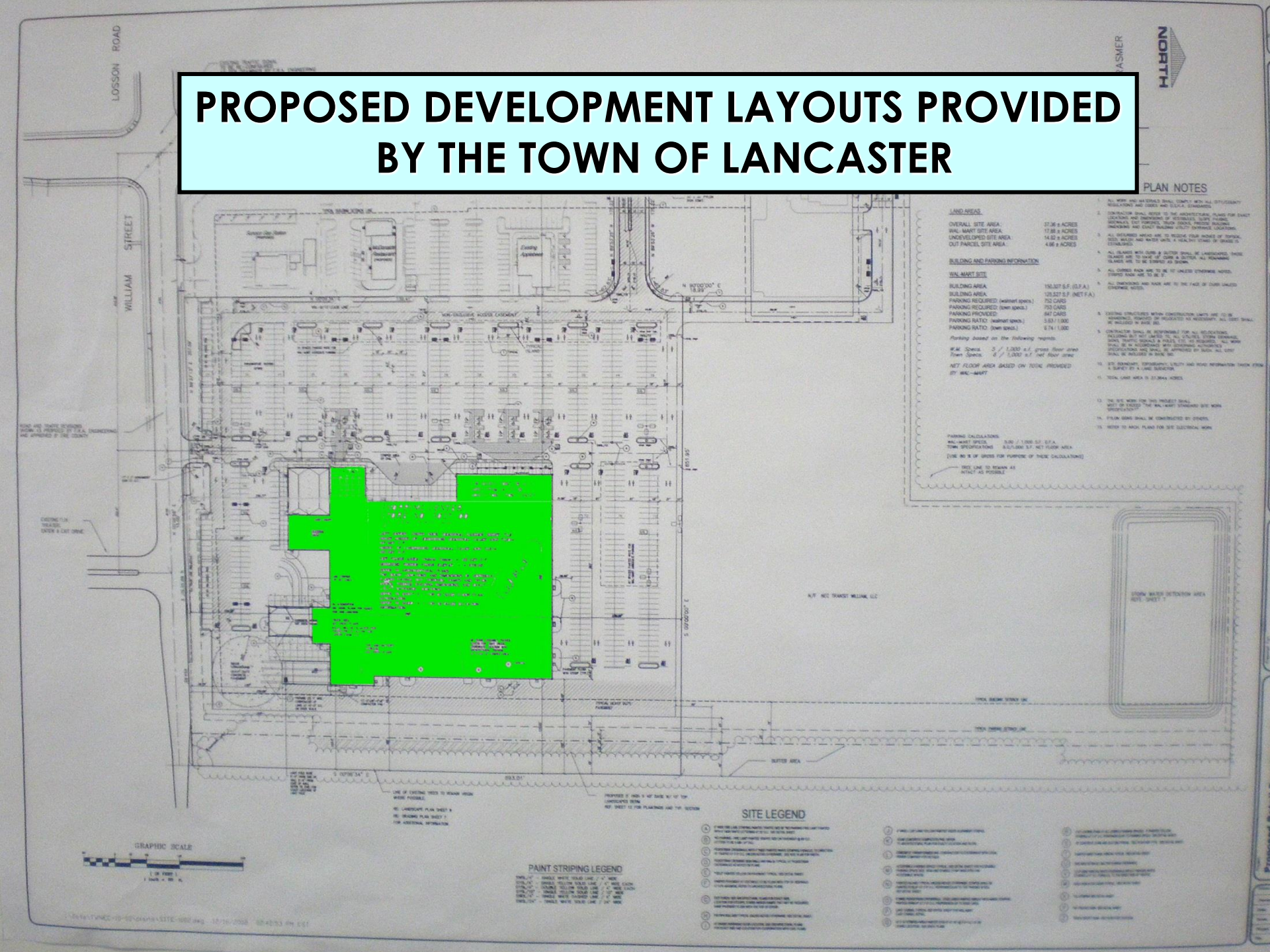
AM Peak	
Signalized Intersection	LOS
Walden Ave & Transit Rd	C
Walden Ave & Sheldon Ave	A
Walden Ave & Central Ave	C
Walden Ave & Cemetery Rd	B
Walden Ave & Pavement Rd	B
Transit Rd & Terrace Blvd	A
Transit Rd & Broadway	C
Transit Rd & Como Park	F
Transit Rd & Wegman's Driveway	A
Transit Rd & Losson Rd	C
Transit Rd & French Rd	B
Transit Rd & Clinton St	C
Central Ave & Lavarack Ave	A
Central Ave & Pleasant Ave	B
Central Ave & Broadway	B
Aurora St & St Mary's St	A
Aurora St & Broadway	B
Aurora St & William St	C
Aurora St & Clinton St	A
Penora & Broadway	D
Penora & Como Park	A
School St & Broadway	B
William St & Lake Ave	B
Bowen Rd & Broadway	B
Bowen Rd & William St	B
Bowen Rd & Clinton St	B
Schwartz Rd @ Broadway	A
Schwartz Rd @ Clinton St	B

PM Peak	
Signalized Intersection	LOS
Walden Ave & Transit Rd	E
Walden Ave & Sheldon Ave	A
Walden Ave & Central Ave	C
Walden Ave & Cemetery Rd	D
Walden Ave & Pavement Rd	B
Transit Rd & Terrace Blvd	B
Transit Rd & Broadway	D
Transit Rd & Como Park	F
Transit Rd & Wegman's Driveway	A
Transit Rd & Losson Rd	D
Transit Rd & French Rd	D
Transit Rd & Clinton St	C
Central Ave & Lavarack Ave	A
Central Ave & Pleasant Ave	B
Central Ave & Broadway	B
Aurora St & St Mary's St	B
Aurora St & Broadway	C
Aurora St & William St	D
Aurora St & Clinton St	A
Penora & Broadway	F
Penora & Como Park	A
School St & Broadway	F
William St & Lake Ave	B
Bowen Rd & Broadway	F
Bowen Rd & William St	B
Bowen Rd & Clinton St	B
Schwartz Rd @ Broadway	A
Schwartz Rd @ Clinton St	B

SYNCHRO TRAFFIC MODEL PM PEAK HOUR



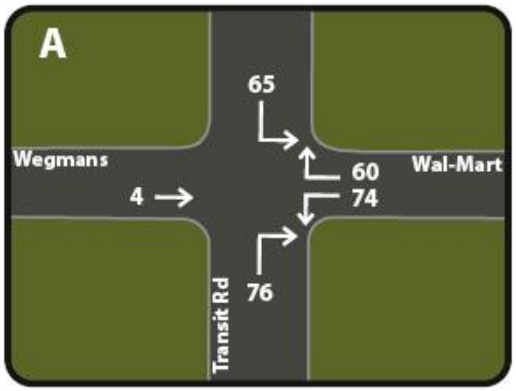
PROPOSED DEVELOPMENT LAYOUTS PROVIDED BY THE TOWN OF LANCASTER

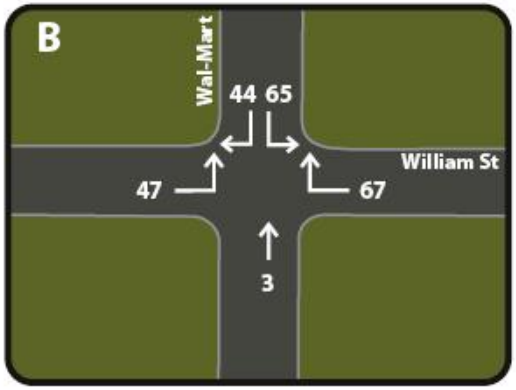


PROPOSED DEVELOPMENTS ONTO AERIALS

NEW VEHICLE TRIPS GENERATED

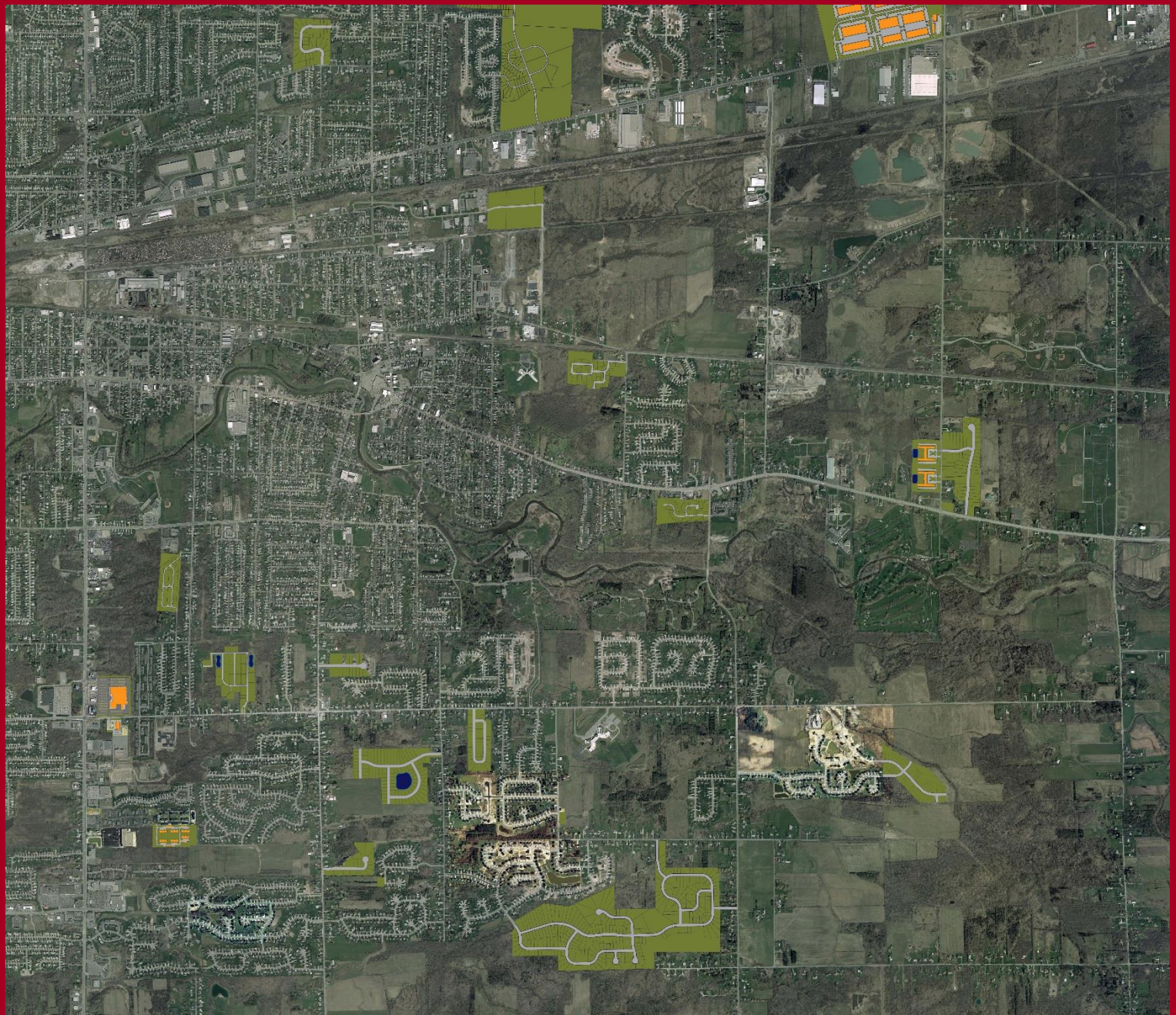
PM Peak Hour Volumes

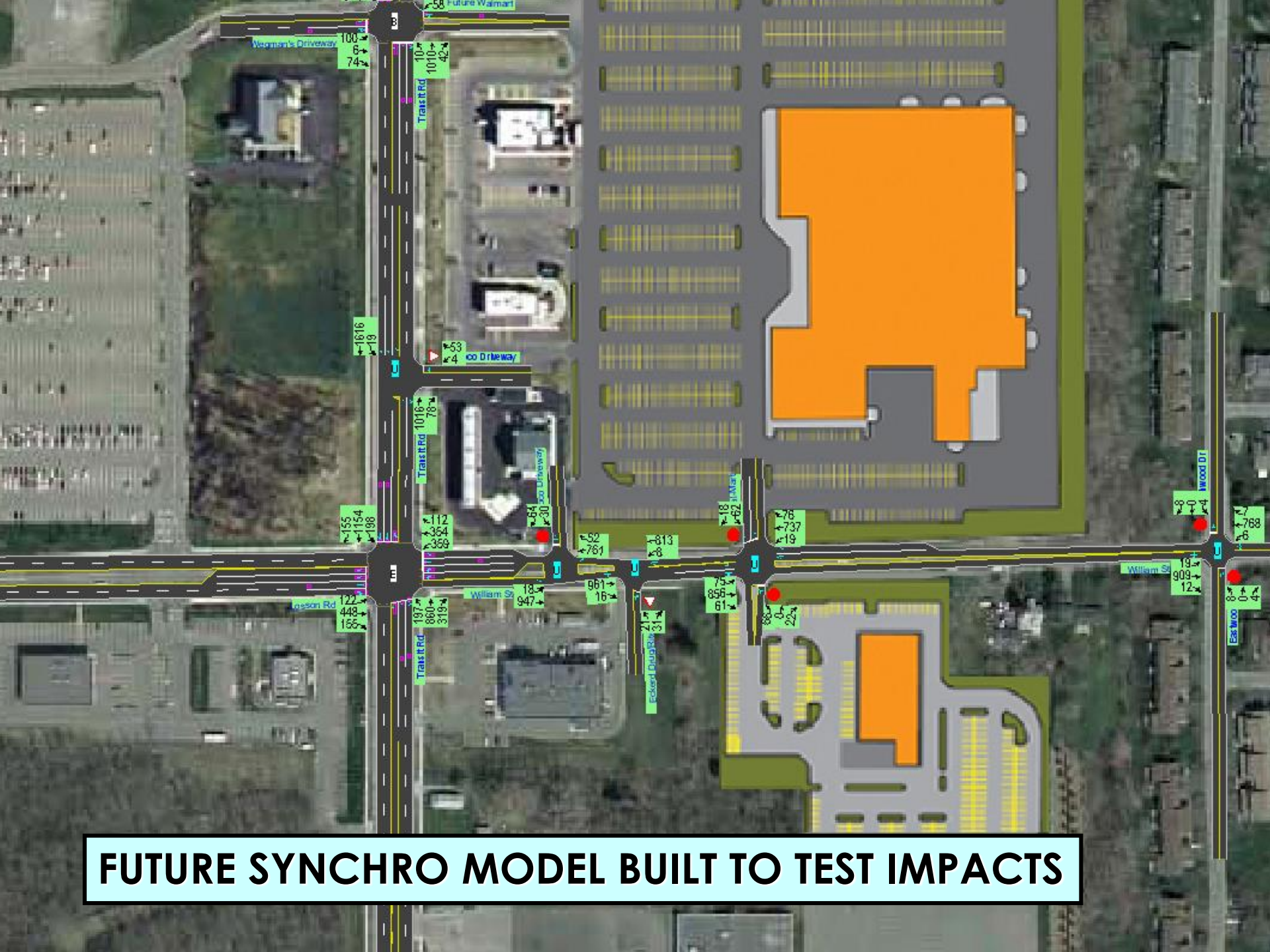




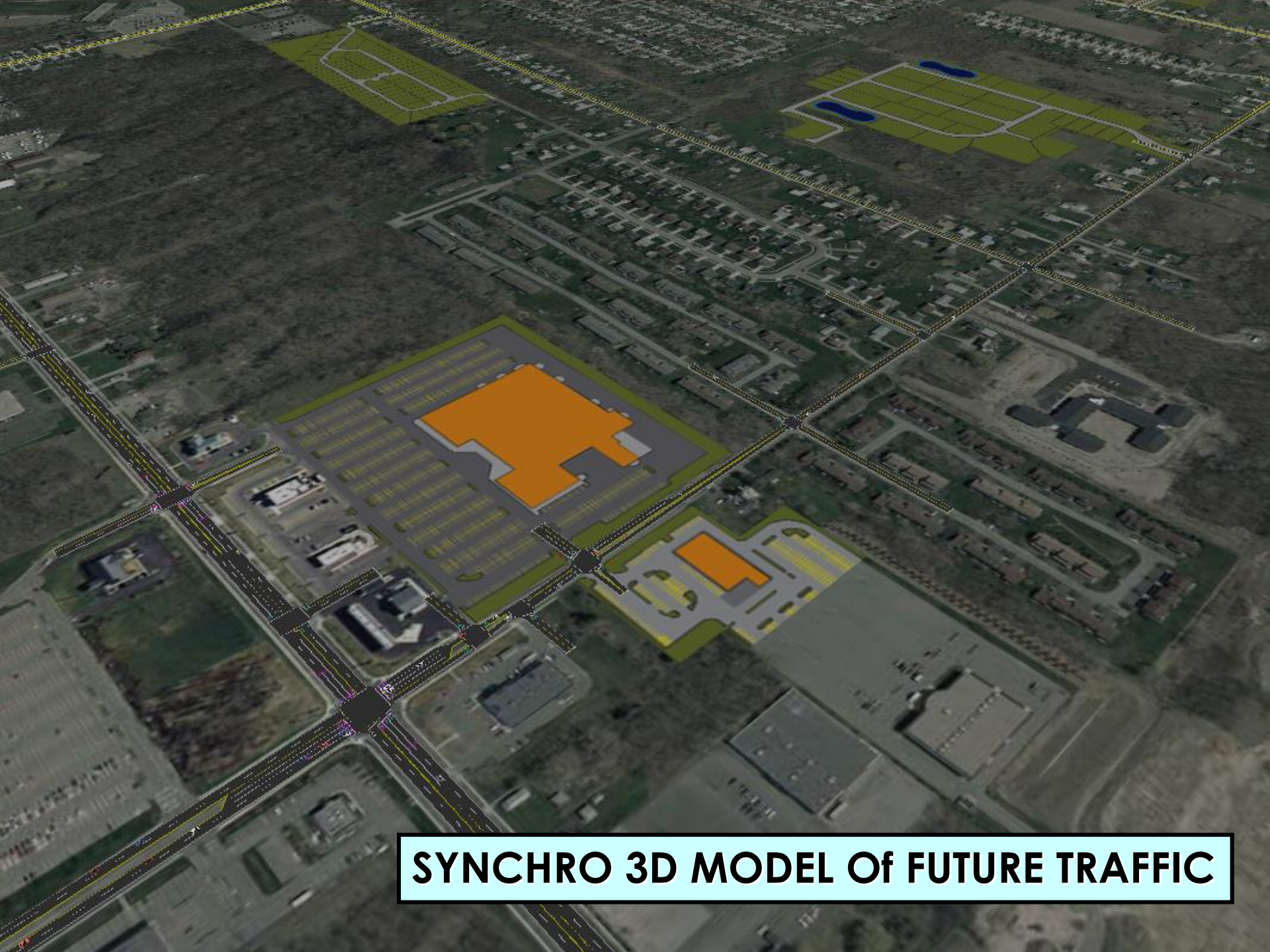
Turning Movement Counts Generated by Proposed Developments
Lancaster, NY

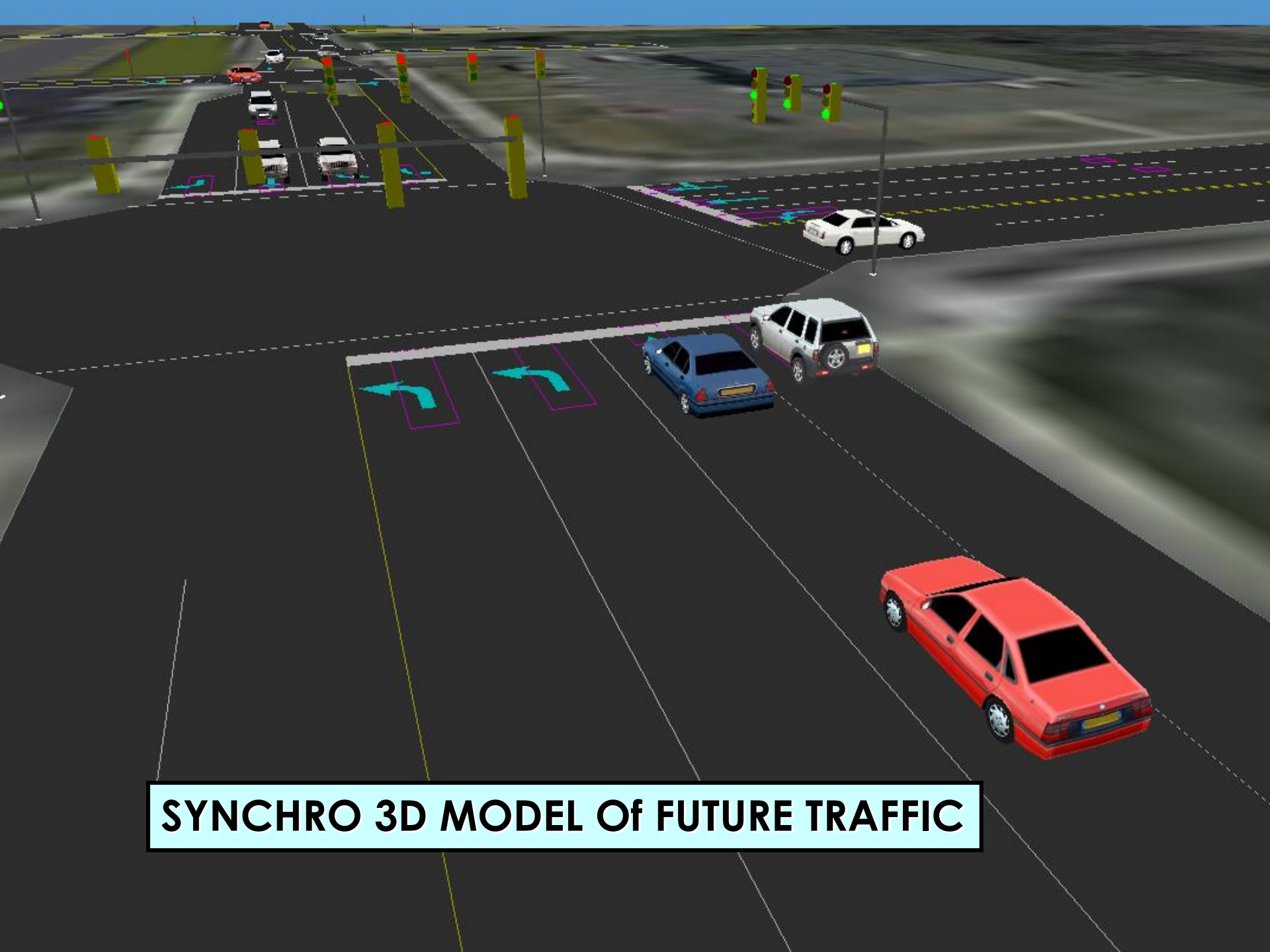
Future Development Overlay - South Lancaster





FUTURE SYNCHRO MODEL BUILT TO TEST IMPACTS


SYNCHRO 3D MODEL Of FUTURE TRAFFIC


SYNCHRO 3D MODEL Of FUTURE TRAFFIC